ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	1	1	69	150	150	20
Visayas	2025	1	1	2	62	150	150	20
Visayas	2025	1	1	3	58	150	150	20
Visayas	2025	1	1	4	55	150	150	20
Visayas	2025	1	1	5	53	150	150	20
Visayas	2025	1	1	6	51	150	150	20
Visayas	2025	1	1	7	51	150	150	20
Visayas	2025	1	1	8	51	150	150	20
Visayas	2025	1	1	9	52	150	150	20
Visayas	2025	1	1	10	53	150	150	20
Visayas	2025	1	1	11	56	150	150	20
Visayas	2025	1	1	12	58	150	150	20
Visayas	2025	1	1	13	59	150	150	20
Visayas	2025	1	1	14	58	150	150	20
Visayas	2025	1	1	15	58	150	150	20
Visayas	2025	1	1	16	57	150	150	20
Visayas	2025	1	1	17	60	150	150	20
Visayas	2025	1	1	18	70	150	150	20
Visayas	2025	1	1	19	71	150	150	20
Visayas	2025	1	1	20	68	150	150	20
Visayas	2025	1	1	21	64	150	150	20
Visayas	2025	1	1	22	60	150	150	20
Visayas	2025	1	1	23	56	150	150	20
Visayas	2025	1	1	24	54	150	150	20
Visayas	2025	1	2	1	53	150	150	20
Visayas	2025	1	2	2	52	150	150	20
Visayas	2025	1	2	3	51	150	150	20
Visayas	2025	1	2	4	50	150	150	20
Visayas	2025	1	2	5	52	150	150	20
Visayas	2025	1	2	6	55	150	150	20
Visayas	2025	1	2	7	57	150	150	20
Visayas	2025	1	2	8	63	150	150	20
Visayas	2025	1	2	9	79	150	150	20
Visayas	2025	1	2	10	86	150	150	20
Visayas	2025	1	2	11	91	150	150	20
Visayas	2025	1	2	12	88	150	150	20
Visayas	2025	1	2	13	87	150	150	20
Visayas	2025	1	2	14	93	150	150	20
Visayas	2025	1	2	15	92	150	150	20
Visayas	2025	1	2	16	90	150	150	20
Visayas	2025	1	2	17	86	150	150	20
Visayas	2025	1	2	18	93	150	150	20
Visayas	2025	1	2	19	89	150	150	20
Visayas	2025	1	2	20	83	150	150	20
Visayas	2025	1	2	21	76	150	150	20
Visayas	2025	1	2	22	69	150	150	20
Visayas	2025	1	2	23	63	150	150	20
Visayas	2025	1	2	24	59	150	150	20
Visayas	2025	1	3	1	57	150	150	20
Visayas	2025	1	3	2	54	150	150	20
Visayas	2025	1	3	3	54	150	150	20
Visayas	2025	1	3	4	52	150	150	20
Visayas	2025	1	3	5	54	150	150	20
Visayas	2025	1	3	6	58	150	150	20
Visayas	2025	1	3	7	58	150	150	20
Visayas	2025	1	3	8	64	150	150	20
Visayas	2025	1	3	9	81	150	150	20
Visayas	2025	1	3	10	89	150	150	20
Visayas	2025	1	3	11	91	150	150	20
Visayas	2025	1	3	12	89	150	150	20
Visayas	2025	1	3	13	89	150	150	20
Visayas	2025	1	3	14	94	150	150	20
Visayas	2025	1	3	15	93	150	150	20
Visayas	2025	1	3	16	89	150	150	20
Visayas	2025	1	3	17	84	150	150	20
Visayas	2025	1	3	18	92	150	150	20
Visayas	2025	1	3	19	87	150	150	20
Visayas	2025	1	3	20	80	150	150	20
Visayas	2025	1	3	21	74	150	150	20
Visayas	2025	1	3	22	70	150	150	20
Visayas	2025	1	3	23	62	150	150	20
Visayas	2025	1	3	24	58	150	150	20
Visayas	2025	1	4	1	56	150	150	20
Visayas	2025	1	4	2	54	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	4	3	53	150	150	20
Visayas	2025	1	4	4	51	150	150	20
Visayas	2025	1	4	5	52	150	150	20
Visayas	2025	1	4	6	52	150	150	20
Visayas	2025	1	4	7	55	150	150	20
Visayas	2025	1	4	8	59	150	150	20
Visayas	2025	1	4	9	68	150	150	20
Visayas	2025	1	4	10	76	150	150	20
Visayas	2025	1	4	11	78	150	150	20
Visayas	2025	1	4	12	75	150	150	20
Visayas	2025	1	4	13	74	150	150	20
Visayas	2025	1	4	14	76	150	150	20
Visayas	2025	1	4	15	76	150	150	20
Visayas	2025	1	4	16	74	150	150	20
Visayas	2025	1	4	17	73	150	150	20
Visayas	2025	1	4	18	82	150	150	20
Visayas	2025	1	4	19	80	150	150	20
Visayas	2025	1	4	20	76	150	150	20
Visayas	2025	1	4	21	73	150	150	20
Visayas	2025	1	4	22	66	150	150	20
Visayas	2025	1	4	23	59	150	150	20
Visayas	2025	1	4	24	56	150	150	20
Visayas	2025	1	5	1	54	150	150	20
Visayas	2025	1	5	2	53	150	150	20
Visayas	2025	1	5	3	52	150	150	20
Visayas	2025	1	5	4	50	150	150	20
Visayas	2025	1	5	5	51	150	150	20
Visayas	2025	1	5	6	51	150	150	20
Visayas	2025	1	5	7	52	150	150	20
Visayas	2025	1	5	8	53	150	150	20
Visayas	2025	1	5	9	56	150	150	20
Visayas	2025	1	5	10	60	150	150	20
Visayas	2025	1	5	11	60	150	150	20
Visayas	2025	1	5	12	59	150	150	20
Visayas	2025	1	5	13	58	150	150	20
Visayas	2025	1	5	14	57	150	150	20
Visayas	2025	1	5	15	57	150	150	20
Visayas	2025	1	5	16	58	150	150	20
Visayas	2025	1	5	17	60	150	150	20
Visayas	2025	1	5	18	73	150	150	20
Visayas	2025	1	5	19	71	150	150	20
Visayas	2025	1	5	20	66	150	150	20
Visayas	2025	1	5	21	62	150	150	20
Visayas	2025	1	5	22	57	150	150	20
Visayas	2025	1	5	23	55	150	150	20
Visayas	2025	1	5	24	52	150	150	20
Visayas	2025	1	6	1	50	150	150	20
Visayas	2025	1	6	2	48	150	150	20
Visayas	2025	1	6	3	48	150	150	20
Visayas	2025	1	6	4	48	150	150	20
Visayas	2025	1	6	5	51	150	150	20
Visayas	2025	1	6	6	55	150	150	20
Visayas	2025	1	6	7	55	150	150	20
Visayas	2025	1	6	8	59	150	150	20
Visayas	2025	1	6	9	71	150	150	20
Visayas	2025	1	6	10	77	150	150	20
Visayas	2025	1	6	11	83	150	150	20
Visayas	2025	1	6	12	77	150	150	20
Visayas	2025	1	6	13	77	150	150	20
Visayas	2025	1	6	14	80	150	150	20
Visayas	2025	1	6	15	79	150	150	20
Visayas	2025	1	6	16	79	150	150	20
Visayas	2025	1	6	17	78	150	150	20
Visayas	2025	1	6	18	84	150	150	20
Visayas	2025	1	6	19	78	150	150	20
Visayas	2025	1	6	20	72	150	150	20
Visayas	2025	1	6	21	67	150	150	20
Visayas	2025	1	6	22	60	150	150	20
Visayas	2025	1	6	23	56	150	150	20
Visayas	2025	1	6	24	53	150	150	20
Visayas	2025	1	7	1	51	150	150	20
Visayas	2025	1	7	2	50	150	150	20
Visayas	2025	1	7	3	49	150	150	20
Visayas	2025	1	7	4	48	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	7	5	51	150	150	20
Visayas	2025	1	7	6	56	150	150	20
Visayas	2025	1	7	7	56	150	150	20
Visayas	2025	1	7	8	61	150	150	20
Visayas	2025	1	7	9	75	150	150	20
Visayas	2025	1	7	10	79	150	150	20
Visayas	2025	1	7	11	82	150	150	20
Visayas	2025	1	7	12	78	150	150	20
Visayas	2025	1	7	13	77	150	150	20
Visayas	2025	1	7	14	79	150	150	20
Visayas	2025	1	7	15	79	150	150	20
Visayas	2025	1	7	16	79	150	150	20
Visayas	2025	1	7	17	79	150	150	20
Visayas	2025	1	7	18	85	150	150	20
Visayas	2025	1	7	19	78	150	150	20
Visayas	2025	1	7	20	73	150	150	20
Visayas	2025	1	7	21	66	150	150	20
Visayas	2025	1	7	22	61	150	150	20
Visayas	2025	1	7	23	56	150	150	20
Visayas	2025	1	7	24	53	150	150	20
Visayas	2025	1	8	1	51	150	150	20
Visayas	2025	1	8	2	50	150	150	20
Visayas	2025	1	8	3	49	150	150	20
Visayas	2025	1	8	4	49	150	150	20
Visayas	2025	1	8	5	52	150	150	20
Visayas	2025	1	8	6	56	150	150	20
Visayas	2025	1	8	7	57	150	150	20
Visayas	2025	1	8	8	61	150	150	20
Visayas	2025	1	8	9	72	150	150	20
Visayas	2025	1	8	10	80	150	150	20
Visayas	2025	1	8	11	77	150	150	20
Visayas	2025	1	8	12	73	150	150	20
Visayas	2025	1	8	13	71	150	150	20
Visayas	2025	1	8	14	74	150	150	20
Visayas	2025	1	8	15	71	150	150	20
Visayas	2025	1	8	16	74	150	150	20
Visayas	2025	1	8	17	74	150	150	20
Visayas	2025	1	8	18	79	150	150	20
Visayas	2025	1	8	19	74	150	150	20
Visayas	2025	1	8	20	68	150	150	20
Visayas	2025	1	8	21	61	150	150	20
Visayas	2025	1	8	22	56	150	150	20
Visayas	2025	1	8	23	53	150	150	20
Visayas	2025	1	8	24	50	150	150	20
Visayas	2025	1	9	1	49	150	150	20
Visayas	2025	1	9	2	48	150	150	20
Visayas	2025	1	9	3	47	150	150	20
Visayas	2025	1	9	4	46	150	150	20
Visayas	2025	1	9	5	48	150	150	20
Visayas	2025	1	9	6	52	150	150	20
Visayas	2025	1	9	7	55	150	150	20
Visayas	2025	1	9	8	58	150	150	20
Visayas	2025	1	9	9	69	150	150	20
Visayas	2025	1	9	10	74	150	150	20
Visayas	2025	1	9	11	76	150	150	20
Visayas	2025	1	9	12	72	150	150	20
Visayas	2025	1	9	13	72	150	150	20
Visayas	2025	1	9	14	74	150	150	20
Visayas	2025	1	9	15	75	150	150	20
Visayas	2025	1	9	16	74	150	150	20
Visayas	2025	1	9	17	75	150	150	20
Visayas	2025	1	9	18	81	150	150	20
Visayas	2025	1	9	19	76	150	150	20
Visayas	2025	1	9	20	70	150	150	20
Visayas	2025	1	9	21	64	150	150	20
Visayas	2025	1	9	22	60	150	150	20
Visayas	2025	1	9	23	55	150	150	20
Visayas	2025	1	9	24	53	150	150	20
Visayas	2025	1	10	1	51	150	150	20
Visayas	2025	1	10	2	50	150	150	20
Visayas	2025	1	10	3	49	150	150	20
Visayas	2025	1	10	4	49	150	150	20
Visayas	2025	1	10	5	51	150	150	20
Visayas	2025	1	10	6	55	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	10	7	57	150	150	20
Visayas	2025	1	10	8	62	150	150	20
Visayas	2025	1	10	9	72	150	150	20
Visayas	2025	1	10	10	77	150	150	20
Visayas	2025	1	10	11	78	150	150	20
Visayas	2025	1	10	12	72	150	150	20
Visayas	2025	1	10	13	72	150	150	20
Visayas	2025	1	10	14	74	150	150	20
Visayas	2025	1	10	15	74	150	150	20
Visayas	2025	1	10	16	74	150	150	20
Visayas	2025	1	10	17	75	150	150	20
Visayas	2025	1	10	18	79	150	150	20
Visayas	2025	1	10	19	74	150	150	20
Visayas	2025	1	10	20	68	150	150	20
Visayas	2025	1	10	21	64	150	150	20
Visayas	2025	1	10	22	58	150	150	20
Visayas	2025	1	10	23	54	150	150	20
Visayas	2025	1	10	24	51	150	150	20
Visayas	2025	1	11	1	50	150	150	20
Visayas	2025	1	11	2	48	150	150	20
Visayas	2025	1	11	3	47	150	150	20
Visayas	2025	1	11	4	47	150	150	20
Visayas	2025	1	11	5	48	150	150	20
Visayas	2025	1	11	6	50	150	150	20
Visayas	2025	1	11	7	52	150	150	20
Visayas	2025	1	11	8	57	150	150	20
Visayas	2025	1	11	9	64	150	150	20
Visayas	2025	1	11	10	70	150	150	20
Visayas	2025	1	11	11	72	150	150	20
Visayas	2025	1	11	12	70	150	150	20
Visayas	2025	1	11	13	67	150	150	20
Visayas	2025	1	11	14	70	150	150	20
Visayas	2025	1	11	15	69	150	150	20
Visayas	2025	1	11	16	68	150	150	20
Visayas	2025	1	11	17	67	150	150	20
Visayas	2025	1	11	18	78	150	150	20
Visayas	2025	1	11	19	75	150	150	20
Visayas	2025	1	11	20	69	150	150	20
Visayas	2025	1	11	21	64	150	150	20
Visayas	2025	1	11	22	59	150	150	20
Visayas	2025	1	11	23	55	150	150	20
Visayas	2025	1	11	24	52	150	150	20
Visayas	2025	1	12	1	50	150	150	20
Visayas	2025	1	12	2	48	150	150	20
Visayas	2025	1	12	3	48	150	150	20
Visayas	2025	1	12	4	47	150	150	20
Visayas	2025	1	12	5	48	150	150	20
Visayas	2025	1	12	6	48	150	150	20
Visayas	2025	1	12	7	50	150	150	20
Visayas	2025	1	12	8	53	150	150	20
Visayas	2025	1	12	9	56	150	150	20
Visayas	2025	1	12	10	59	150	150	20
Visayas	2025	1	12	11	63	150	150	20
Visayas	2025	1	12	12	63	150	150	20
Visayas	2025	1	12	13	63	150	150	20
Visayas	2025	1	12	14	64	150	150	20
Visayas	2025	1	12	15	64	150	150	20
Visayas	2025	1	12	16	63	150	150	20
Visayas	2025	1	12	17	63	150	150	20
Visayas	2025	1	12	18	75	150	150	20
Visayas	2025	1	12	19	77	150	150	20
Visayas	2025	1	12	20	72	150	150	20
Visayas	2025	1	12	21	68	150	150	20
Visayas	2025	1	12	22	61	150	150	20
Visayas	2025	1	12	23	57	150	150	20
Visayas	2025	1	12	24	54	150	150	20
Visayas	2025	1	13	1	52	150	150	20
Visayas	2025	1	13	2	50	150	150	20
Visayas	2025	1	13	3	49	150	150	20
Visayas	2025	1	13	4	49	150	150	20
Visayas	2025	1	13	5	52	150	150	20
Visayas	2025	1	13	6	56	150	150	20
Visayas	2025	1	13	7	55	150	150	20
Visayas	2025	1	13	8	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	13	9	76	150	150	20
Visayas	2025	1	13	10	85	150	150	20
Visayas	2025	1	13	11	87	150	150	20
Visayas	2025	1	13	12	85	150	150	20
Visayas	2025	1	13	13	86	150	150	20
Visayas	2025	1	13	14	91	150	150	20
Visayas	2025	1	13	15	88	150	150	20
Visayas	2025	1	13	16	85	150	150	20
Visayas	2025	1	13	17	82	150	150	20
Visayas	2025	1	13	18	90	150	150	20
Visayas	2025	1	13	19	88	150	150	20
Visayas	2025	1	13	20	84	150	150	20
Visayas	2025	1	13	21	78	150	150	20
Visayas	2025	1	13	22	71	150	150	20
Visayas	2025	1	13	23	65	150	150	20
Visayas	2025	1	13	24	60	150	150	20
Visayas	2025	1	14	1	57	150	150	20
Visayas	2025	1	14	2	55	150	150	20
Visayas	2025	1	14	3	53	150	150	20
Visayas	2025	1	14	4	53	150	150	20
Visayas	2025	1	14	5	56	150	150	20
Visayas	2025	1	14	6	61	150	150	20
Visayas	2025	1	14	7	59	150	150	20
Visayas	2025	1	14	8	67	150	150	20
Visayas	2025	1	14	9	81	150	150	20
Visayas	2025	1	14	10	87	150	150	20
Visayas	2025	1	14	11	91	150	150	20
Visayas	2025	1	14	12	90	150	150	20
Visayas	2025	1	14	13	90	150	150	20
Visayas	2025	1	14	14	94	150	150	20
Visayas	2025	1	14	15	92	150	150	20
Visayas	2025	1	14	16	90	150	150	20
Visayas	2025	1	14	17	86	150	150	20
Visayas	2025	1	14	18	92	150	150	20
Visayas	2025	1	14	19	91	150	150	20
Visayas	2025	1	14	20	85	150	150	20
Visayas	2025	1	14	21	79	150	150	20
Visayas	2025	1	14	22	72	150	150	20
Visayas	2025	1	14	23	66	150	150	20
Visayas	2025	1	14	24	62	150	150	20
Visayas	2025	1	15	1	59	150	150	20
Visayas	2025	1	15	2	57	150	150	20
Visayas	2025	1	15	3	56	150	150	20
Visayas	2025	1	15	4	54	150	150	20
Visayas	2025	1	15	5	57	150	150	20
Visayas	2025	1	15	6	62	150	150	20
Visayas	2025	1	15	7	60	150	150	20
Visayas	2025	1	15	8	68	150	150	20
Visayas	2025	1	15	9	83	150	150	20
Visayas	2025	1	15	10	92	150	150	20
Visayas	2025	1	15	11	95	150	150	20
Visayas	2025	1	15	12	90	150	150	20
Visayas	2025	1	15	13	90	150	150	20
Visayas	2025	1	15	14	96	150	150	20
Visayas	2025	1	15	15	95	150	150	20
Visayas	2025	1	15	16	92	150	150	20
Visayas	2025	1	15	17	87	150	150	20
Visayas	2025	1	15	18	92	150	150	20
Visayas	2025	1	15	19	91	150	150	20
Visayas	2025	1	15	20	84	150	150	20
Visayas	2025	1	15	21	80	150	150	20
Visayas	2025	1	15	22	72	150	150	20
Visayas	2025	1	15	23	66	150	150	20
Visayas	2025	1	15	24	61	150	150	20
Visayas	2025	1	16	1	58	150	150	20
Visayas	2025	1	16	2	56	150	150	20
Visayas	2025	1	16	3	55	150	150	20
Visayas	2025	1	16	4	54	150	150	20
Visayas	2025	1	16	5	57	150	150	20
Visayas	2025	1	16	6	63	150	150	20
Visayas	2025	1	16	7	60	150	150	20
Visayas	2025	1	16	8	68	150	150	20
Visayas	2025	1	16	9	84	150	150	20
Visayas	2025	1	16	10	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	16	11	93	150	150	20
Visayas	2025	1	16	12	90	150	150	20
Visayas	2025	1	16	13	90	150	150	20
Visayas	2025	1	16	14	98	150	150	20
Visayas	2025	1	16	15	95	150	150	20
Visayas	2025	1	16	16	94	150	150	20
Visayas	2025	1	16	17	89	150	150	20
Visayas	2025	1	16	18	93	150	150	20
Visayas	2025	1	16	19	92	150	150	20
Visayas	2025	1	16	20	86	150	150	20
Visayas	2025	1	16	21	80	150	150	20
Visayas	2025	1	16	22	73	150	150	20
Visayas	2025	1	16	23	68	150	150	20
Visayas	2025	1	16	24	64	150	150	20
Visayas	2025	1	17	1	59	150	150	20
Visayas	2025	1	17	2	58	150	150	20
Visayas	2025	1	17	3	55	150	150	20
Visayas	2025	1	17	4	55	150	150	20
Visayas	2025	1	17	5	57	150	150	20
Visayas	2025	1	17	6	62	150	150	20
Visayas	2025	1	17	7	61	150	150	20
Visayas	2025	1	17	8	68	150	150	20
Visayas	2025	1	17	9	81	150	150	20
Visayas	2025	1	17	10	89	150	150	20
Visayas	2025	1	17	11	94	150	150	20
Visayas	2025	1	17	12	89	150	150	20
Visayas	2025	1	17	13	90	150	150	20
Visayas	2025	1	17	14	96	150	150	20
Visayas	2025	1	17	15	95	150	150	20
Visayas	2025	1	17	16	93	150	150	20
Visayas	2025	1	17	17	87	150	150	20
Visayas	2025	1	17	18	93	150	150	20
Visayas	2025	1	17	19	91	150	150	20
Visayas	2025	1	17	20	85	150	150	20
Visayas	2025	1	17	21	80	150	150	20
Visayas	2025	1	17	22	74	150	150	20
Visayas	2025	1	17	23	69	150	150	20
Visayas	2025	1	17	24	63	150	150	20
Visayas	2025	1	18	1	59	150	150	20
Visayas	2025	1	18	2	56	150	150	20
Visayas	2025	1	18	3	55	150	150	20
Visayas	2025	1	18	4	54	150	150	20
Visayas	2025	1	18	5	55	150	150	20
Visayas	2025	1	18	6	57	150	150	20
Visayas	2025	1	18	7	59	150	150	20
Visayas	2025	1	18	8	62	150	150	20
Visayas	2025	1	18	9	72	150	150	20
Visayas	2025	1	18	10	76	150	150	20
Visayas	2025	1	18	11	80	150	150	20
Visayas	2025	1	18	12	76	150	150	20
Visayas	2025	1	18	13	75	150	150	20
Visayas	2025	1	18	14	79	150	150	20
Visayas	2025	1	18	15	81	150	150	20
Visayas	2025	1	18	16	77	150	150	20
Visayas	2025	1	18	17	75	150	150	20
Visayas	2025	1	18	18	84	150	150	20
Visayas	2025	1	18	19	81	150	150	20
Visayas	2025	1	18	20	76	150	150	20
Visayas	2025	1	18	21	72	150	150	20
Visayas	2025	1	18	22	66	150	150	20
Visayas	2025	1	18	23	60	150	150	20
Visayas	2025	1	18	24	58	150	150	20
Visayas	2025	1	19	1	55	150	150	20
Visayas	2025	1	19	2	53	150	150	20
Visayas	2025	1	19	3	51	150	150	20
Visayas	2025	1	19	4	51	150	150	20
Visayas	2025	1	19	5	52	150	150	20
Visayas	2025	1	19	6	53	150	150	20
Visayas	2025	1	19	7	54	150	150	20
Visayas	2025	1	19	8	55	150	150	20
Visayas	2025	1	19	9	58	150	150	20
Visayas	2025	1	19	10	62	150	150	20
Visayas	2025	1	19	11	64	150	150	20
Visayas	2025	1	19	12	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	19	13	62	150	150	20
Visayas	2025	1	19	14	62	150	150	20
Visayas	2025	1	19	15	61	150	150	20
Visayas	2025	1	19	16	61	150	150	20
Visayas	2025	1	19	17	63	150	150	20
Visayas	2025	1	19	18	74	150	150	20
Visayas	2025	1	19	19	74	150	150	20
Visayas	2025	1	19	20	69	150	150	20
Visayas	2025	1	19	21	65	150	150	20
Visayas	2025	1	19	22	59	150	150	20
Visayas	2025	1	19	23	56	150	150	20
Visayas	2025	1	19	24	53	150	150	20
Visayas	2025	1	20	1	51	150	150	20
Visayas	2025	1	20	2	50	150	150	20
Visayas	2025	1	20	3	48	150	150	20
Visayas	2025	1	20	4	48	150	150	20
Visayas	2025	1	20	5	51	150	150	20
Visayas	2025	1	20	6	56	150	150	20
Visayas	2025	1	20	7	56	150	150	20
Visayas	2025	1	20	8	62	150	150	20
Visayas	2025	1	20	9	75	150	150	20
Visayas	2025	1	20	10	85	150	150	20
Visayas	2025	1	20	11	86	150	150	20
Visayas	2025	1	20	12	82	150	150	20
Visayas	2025	1	20	13	79	150	150	20
Visayas	2025	1	20	14	84	150	150	20
Visayas	2025	1	20	15	83	150	150	20
Visayas	2025	1	20	16	82	150	150	20
Visayas	2025	1	20	17	83	150	150	20
Visayas	2025	1	20	18	86	150	150	20
Visayas	2025	1	20	19	83	150	150	20
Visayas	2025	1	20	20	76	150	150	20
Visayas	2025	1	20	21	71	150	150	20
Visayas	2025	1	20	22	63	150	150	20
Visayas	2025	1	20	23	61	150	150	20
Visayas	2025	1	20	24	57	150	150	20
Visayas	2025	1	21	1	54	150	150	20
Visayas	2025	1	21	2	51	150	150	20
Visayas	2025	1	21	3	50	150	150	20
Visayas	2025	1	21	4	51	150	150	20
Visayas	2025	1	21	5	53	150	150	20
Visayas	2025	1	21	6	58	150	150	20
Visayas	2025	1	21	7	57	150	150	20
Visayas	2025	1	21	8	63	150	150	20
Visayas	2025	1	21	9	77	150	150	20
Visayas	2025	1	21	10	83	150	150	20
Visayas	2025	1	21	11	86	150	150	20
Visayas	2025	1	21	12	80	150	150	20
Visayas	2025	1	21	13	80	150	150	20
Visayas	2025	1	21	14	85	150	150	20
Visayas	2025	1	21	15	89	150	150	20
Visayas	2025	1	21	16	84	150	150	20
Visayas	2025	1	21	17	80	150	150	20
Visayas	2025	1	21	18	86	150	150	20
Visayas	2025	1	21	19	85	150	150	20
Visayas	2025	1	21	20	78	150	150	20
Visayas	2025	1	21	21	72	150	150	20
Visayas	2025	1	21	22	66	150	150	20
Visayas	2025	1	21	23	59	150	150	20
Visayas	2025	1	21	24	55	150	150	20
Visayas	2025	1	22	1	53	150	150	20
Visayas	2025	1	22	2	53	150	150	20
Visayas	2025	1	22	3	50	150	150	20
Visayas	2025	1	22	4	50	150	150	20
Visayas	2025	1	22	5	54	150	150	20
Visayas	2025	1	22	6	58	150	150	20
Visayas	2025	1	22	7	57	150	150	20
Visayas	2025	1	22	8	63	150	150	20
Visayas	2025	1	22	9	77	150	150	20
Visayas	2025	1	22	10	83	150	150	20
Visayas	2025	1	22	11	85	150	150	20
Visayas	2025	1	22	12	81	150	150	20
Visayas	2025	1	22	13	81	150	150	20
Visayas	2025	1	22	14	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	22	15	89	150	150	20
Visayas	2025	1	22	16	86	150	150	20
Visayas	2025	1	22	17	81	150	150	20
Visayas	2025	1	22	18	86	150	150	20
Visayas	2025	1	22	19	87	150	150	20
Visayas	2025	1	22	20	80	150	150	20
Visayas	2025	1	22	21	73	150	150	20
Visayas	2025	1	22	22	67	150	150	20
Visayas	2025	1	22	23	60	150	150	20
Visayas	2025	1	22	24	57	150	150	20
Visayas	2025	1	23	1	55	150	150	20
Visayas	2025	1	23	2	53	150	150	20
Visayas	2025	1	23	3	52	150	150	20
Visayas	2025	1	23	4	51	150	150	20
Visayas	2025	1	23	5	54	150	150	20
Visayas	2025	1	23	6	59	150	150	20
Visayas	2025	1	23	7	59	150	150	20
Visayas	2025	1	23	8	64	150	150	20
Visayas	2025	1	23	9	73	150	150	20
Visayas	2025	1	23	10	81	150	150	20
Visayas	2025	1	23	11	81	150	150	20
Visayas	2025	1	23	12	77	150	150	20
Visayas	2025	1	23	13	77	150	150	20
Visayas	2025	1	23	14	81	150	150	20
Visayas	2025	1	23	15	80	150	150	20
Visayas	2025	1	23	16	80	150	150	20
Visayas	2025	1	23	17	80	150	150	20
Visayas	2025	1	23	18	84	150	150	20
Visayas	2025	1	23	19	81	150	150	20
Visayas	2025	1	23	20	74	150	150	20
Visayas	2025	1	23	21	68	150	150	20
Visayas	2025	1	23	22	61	150	150	20
Visayas	2025	1	23	23	56	150	150	20
Visayas	2025	1	23	24	54	150	150	20
Visayas	2025	1	24	1	53	150	150	20
Visayas	2025	1	24	2	51	150	150	20
Visayas	2025	1	24	3	50	150	150	20
Visayas	2025	1	24	4	50	150	150	20
Visayas	2025	1	24	5	53	150	150	20
Visayas	2025	1	24	6	58	150	150	20
Visayas	2025	1	24	7	57	150	150	20
Visayas	2025	1	24	8	65	150	150	20
Visayas	2025	1	24	9	76	150	150	20
Visayas	2025	1	24	10	82	150	150	20
Visayas	2025	1	24	11	85	150	150	20
Visayas	2025	1	24	12	83	150	150	20
Visayas	2025	1	24	13	83	150	150	20
Visayas	2025	1	24	14	88	150	150	20
Visayas	2025	1	24	15	89	150	150	20
Visayas	2025	1	24	16	86	150	150	20
Visayas	2025	1	24	17	84	150	150	20
Visayas	2025	1	24	18	89	150	150	20
Visayas	2025	1	24	19	87	150	150	20
Visayas	2025	1	24	20	81	150	150	20
Visayas	2025	1	24	21	75	150	150	20
Visayas	2025	1	24	22	69	150	150	20
Visayas	2025	1	24	23	63	150	150	20
Visayas	2025	1	24	24	59	150	150	20
Visayas	2025	1	25	1	57	150	150	20
Visayas	2025	1	25	2	55	150	150	20
Visayas	2025	1	25	3	54	150	150	20
Visayas	2025	1	25	4	52	150	150	20
Visayas	2025	1	25	5	53	150	150	20
Visayas	2025	1	25	6	54	150	150	20
Visayas	2025	1	25	7	56	150	150	20
Visayas	2025	1	25	8	60	150	150	20
Visayas	2025	1	25	9	71	150	150	20
Visayas	2025	1	25	10	75	150	150	20
Visayas	2025	1	25	11	79	150	150	20
Visayas	2025	1	25	12	75	150	150	20
Visayas	2025	1	25	13	76	150	150	20
Visayas	2025	1	25	14	78	150	150	20
Visayas	2025	1	25	15	77	150	150	20
Visayas	2025	1	25	16	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	25	17	76	150	150	20
Visayas	2025	1	25	18	81	150	150	20
Visayas	2025	1	25	19	81	150	150	20
Visayas	2025	1	25	20	75	150	150	20
Visayas	2025	1	25	21	70	150	150	20
Visayas	2025	1	25	22	62	150	150	20
Visayas	2025	1	25	23	57	150	150	20
Visayas	2025	1	25	24	55	150	150	20
Visayas	2025	1	26	1	53	150	150	20
Visayas	2025	1	26	2	51	150	150	20
Visayas	2025	1	26	3	49	150	150	20
Visayas	2025	1	26	4	49	150	150	20
Visayas	2025	1	26	5	46	150	150	20
Visayas	2025	1	26	6	47	150	150	20
Visayas	2025	1	26	7	47	150	150	20
Visayas	2025	1	26	8	49	150	150	20
Visayas	2025	1	26	9	53	150	150	20
Visayas	2025	1	26	10	56	150	150	20
Visayas	2025	1	26	11	57	150	150	20
Visayas	2025	1	26	12	56	150	150	20
Visayas	2025	1	26	13	55	150	150	20
Visayas	2025	1	26	14	56	150	150	20
Visayas	2025	1	26	15	56	150	150	20
Visayas	2025	1	26	16	57	150	150	20
Visayas	2025	1	26	17	59	150	150	20
Visayas	2025	1	26	18	72	150	150	20
Visayas	2025	1	26	19	73	150	150	20
Visayas	2025	1	26	20	68	150	150	20
Visayas	2025	1	26	21	64	150	150	20
Visayas	2025	1	26	22	58	150	150	20
Visayas	2025	1	26	23	54	150	150	20
Visayas	2025	1	26	24	51	150	150	20
Visayas	2025	1	27	1	50	150	150	20
Visayas	2025	1	27	2	48	150	150	20
Visayas	2025	1	27	3	47	150	150	20
Visayas	2025	1	27	4	47	150	150	20
Visayas	2025	1	27	5	50	150	150	20
Visayas	2025	1	27	6	54	150	150	20
Visayas	2025	1	27	7	56	150	150	20
Visayas	2025	1	27	8	60	150	150	20
Visayas	2025	1	27	9	73	150	150	20
Visayas	2025	1	27	10	79	150	150	20
Visayas	2025	1	27	11	84	150	150	20
Visayas	2025	1	27	12	80	150	150	20
Visayas	2025	1	27	13	79	150	150	20
Visayas	2025	1	27	14	85	150	150	20
Visayas	2025	1	27	15	82	150	150	20
Visayas	2025	1	27	16	82	150	150	20
Visayas	2025	1	27	17	80	150	150	20
Visayas	2025	1	27	18	86	150	150	20
Visayas	2025	1	27	19	82	150	150	20
Visayas	2025	1	27	20	77	150	150	20
Visayas	2025	1	27	21	71	150	150	20
Visayas	2025	1	27	22	63	150	150	20
Visayas	2025	1	27	23	58	150	150	20
Visayas	2025	1	27	24	54	150	150	20
Visayas	2025	1	28	1	53	150	150	20
Visayas	2025	1	28	2	51	150	150	20
Visayas	2025	1	28	3	50	150	150	20
Visayas	2025	1	28	4	49	150	150	20
Visayas	2025	1	28	5	53	150	150	20
Visayas	2025	1	28	6	57	150	150	20
Visayas	2025	1	28	7	56	150	150	20
Visayas	2025	1	28	8	64	150	150	20
Visayas	2025	1	28	9	78	150	150	20
Visayas	2025	1	28	10	86	150	150	20
Visayas	2025	1	28	11	89	150	150	20
Visayas	2025	1	28	12	86	150	150	20
Visayas	2025	1	28	13	88	150	150	20
Visayas	2025	1	28	14	91	150	150	20
Visayas	2025	1	28	15	88	150	150	20
Visayas	2025	1	28	16	88	150	150	20
Visayas	2025	1	28	17	83	150	150	20
Visayas	2025	1	28	18	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	28	19	88	150	150	20
Visayas	2025	1	28	20	79	150	150	20
Visayas	2025	1	28	21	74	150	150	20
Visayas	2025	1	28	22	67	150	150	20
Visayas	2025	1	28	23	61	150	150	20
Visayas	2025	1	28	24	57	150	150	20
Visayas	2025	1	29	1	54	150	150	20
Visayas	2025	1	29	2	53	150	150	20
Visayas	2025	1	29	3	51	150	150	20
Visayas	2025	1	29	4	51	150	150	20
Visayas	2025	1	29	5	53	150	150	20
Visayas	2025	1	29	6	57	150	150	20
Visayas	2025	1	29	7	57	150	150	20
Visayas	2025	1	29	8	62	150	150	20
Visayas	2025	1	29	9	76	150	150	20
Visayas	2025	1	29	10	80	150	150	20
Visayas	2025	1	29	11	85	150	150	20
Visayas	2025	1	29	12	82	150	150	20
Visayas	2025	1	29	13	84	150	150	20
Visayas	2025	1	29	14	91	150	150	20
Visayas	2025	1	29	15	89	150	150	20
Visayas	2025	1	29	16	89	150	150	20
Visayas	2025	1	29	17	83	150	150	20
Visayas	2025	1	29	18	87	150	150	20
Visayas	2025	1	29	19	89	150	150	20
Visayas	2025	1	29	20	83	150	150	20
Visayas	2025	1	29	21	77	150	150	20
Visayas	2025	1	29	22	70	150	150	20
Visayas	2025	1	29	23	63	150	150	20
Visayas	2025	1	29	24	59	150	150	20
Visayas	2025	1	30	1	57	150	150	20
Visayas	2025	1	30	2	54	150	150	20
Visayas	2025	1	30	3	53	150	150	20
Visayas	2025	1	30	4	52	150	150	20
Visayas	2025	1	30	5	55	150	150	20
Visayas	2025	1	30	6	60	150	150	20
Visayas	2025	1	30	7	57	150	150	20
Visayas	2025	1	30	8	66	150	150	20
Visayas	2025	1	30	9	82	150	150	20
Visayas	2025	1	30	10	89	150	150	20
Visayas	2025	1	30	11	93	150	150	20
Visayas	2025	1	30	12	88	150	150	20
Visayas	2025	1	30	13	89	150	150	20
Visayas	2025	1	30	14	94	150	150	20
Visayas	2025	1	30	15	95	150	150	20
Visayas	2025	1	30	16	92	150	150	20
Visayas	2025	1	30	17	87	150	150	20
Visayas	2025	1	30	18	89	150	150	20
Visayas	2025	1	30	19	90	150	150	20
Visayas	2025	1	30	20	86	150	150	20
Visayas	2025	1	30	21	79	150	150	20
Visayas	2025	1	30	22	73	150	150	20
Visayas	2025	1	30	23	68	150	150	20
Visayas	2025	1	30	24	62	150	150	20
Visayas	2025	1	31	1	57	150	150	20
Visayas	2025	1	31	2	56	150	150	20
Visayas	2025	1	31	3	55	150	150	20
Visayas	2025	1	31	4	53	150	150	20
Visayas	2025	1	31	5	55	150	150	20
Visayas	2025	1	31	6	60	150	150	20
Visayas	2025	1	31	7	59	150	150	20
Visayas	2025	1	31	8	65	150	150	20
Visayas	2025	1	31	9	80	150	150	20
Visayas	2025	1	31	10	89	150	150	20
Visayas	2025	1	31	11	92	150	150	20
Visayas	2025	1	31	12	87	150	150	20
Visayas	2025	1	31	13	89	150	150	20
Visayas	2025	1	31	14	94	150	150	20
Visayas	2025	1	31	15	93	150	150	20
Visayas	2025	1	31	16	92	150	150	20
Visayas	2025	1	31	17	85	150	150	20
Visayas	2025	1	31	18	88	150	150	20
Visayas	2025	1	31	19	87	150	150	20
Visayas	2025	1	31	20	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	1	31	21	79	150	150	20
Visayas	2025	1	31	22	72	150	150	20
Visayas	2025	1	31	23	66	150	150	20
Visayas	2025	1	31	24	61	150	150	20
Visayas	2025	2	1	1	58	150	150	20
Visayas	2025	2	1	2	56	150	150	20
Visayas	2025	2	1	3	54	150	150	20
Visayas	2025	2	1	4	52	150	150	20
Visayas	2025	2	1	5	53	150	150	20
Visayas	2025	2	1	6	54	150	150	20
Visayas	2025	2	1	7	55	150	150	20
Visayas	2025	2	1	8	59	150	150	20
Visayas	2025	2	1	9	68	150	150	20
Visayas	2025	2	1	10	74	150	150	20
Visayas	2025	2	1	11	78	150	150	20
Visayas	2025	2	1	12	76	150	150	20
Visayas	2025	2	1	13	75	150	150	20
Visayas	2025	2	1	14	76	150	150	20
Visayas	2025	2	1	15	75	150	150	20
Visayas	2025	2	1	16	74	150	150	20
Visayas	2025	2	1	17	72	150	150	20
Visayas	2025	2	1	18	79	150	150	20
Visayas	2025	2	1	19	81	150	150	20
Visayas	2025	2	1	20	75	150	150	20
Visayas	2025	2	1	21	72	150	150	20
Visayas	2025	2	1	22	64	150	150	20
Visayas	2025	2	1	23	59	150	150	20
Visayas	2025	2	1	24	56	150	150	20
Visayas	2025	2	2	1	53	150	150	20
Visayas	2025	2	2	2	52	150	150	20
Visayas	2025	2	2	3	51	150	150	20
Visayas	2025	2	2	4	50	150	150	20
Visayas	2025	2	2	5	50	150	150	20
Visayas	2025	2	2	6	51	150	150	20
Visayas	2025	2	2	7	52	150	150	20
Visayas	2025	2	2	8	55	150	150	20
Visayas	2025	2	2	9	59	150	150	20
Visayas	2025	2	2	10	63	150	150	20
Visayas	2025	2	2	11	68	150	150	20
Visayas	2025	2	2	12	68	150	150	20
Visayas	2025	2	2	13	67	150	150	20
Visayas	2025	2	2	14	69	150	150	20
Visayas	2025	2	2	15	67	150	150	20
Visayas	2025	2	2	16	66	150	150	20
Visayas	2025	2	2	17	67	150	150	20
Visayas	2025	2	2	18	78	150	150	20
Visayas	2025	2	2	19	81	150	150	20
Visayas	2025	2	2	20	75	150	150	20
Visayas	2025	2	2	21	70	150	150	20
Visayas	2025	2	2	22	64	150	150	20
Visayas	2025	2	2	23	59	150	150	20
Visayas	2025	2	2	24	55	150	150	20
Visayas	2025	2	3	1	52	150	150	20
Visayas	2025	2	3	2	51	150	150	20
Visayas	2025	2	3	3	49	150	150	20
Visayas	2025	2	3	4	49	150	150	20
Visayas	2025	2	3	5	51	150	150	20
Visayas	2025	2	3	6	55	150	150	20
Visayas	2025	2	3	7	57	150	150	20
Visayas	2025	2	3	8	64	150	150	20
Visayas	2025	2	3	9	79	150	150	20
Visayas	2025	2	3	10	87	150	150	20
Visayas	2025	2	3	11	94	150	150	20
Visayas	2025	2	3	12	88	150	150	20
Visayas	2025	2	3	13	88	150	150	20
Visayas	2025	2	3	14	97	150	150	20
Visayas	2025	2	3	15	96	150	150	20
Visayas	2025	2	3	16	95	150	150	20
Visayas	2025	2	3	17	87	150	150	20
Visayas	2025	2	3	18	88	150	150	20
Visayas	2025	2	3	19	90	150	150	20
Visayas	2025	2	3	20	84	150	150	20
Visayas	2025	2	3	21	79	150	150	20
Visayas	2025	2	3	22	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	3	23	66	150	150	20
Visayas	2025	2	3	24	61	150	150	20
Visayas	2025	2	4	1	59	150	150	20
Visayas	2025	2	4	2	56	150	150	20
Visayas	2025	2	4	3	54	150	150	20
Visayas	2025	2	4	4	54	150	150	20
Visayas	2025	2	4	5	55	150	150	20
Visayas	2025	2	4	6	59	150	150	20
Visayas	2025	2	4	7	60	150	150	20
Visayas	2025	2	4	8	68	150	150	20
Visayas	2025	2	4	9	84	150	150	20
Visayas	2025	2	4	10	88	150	150	20
Visayas	2025	2	4	11	95	150	150	20
Visayas	2025	2	4	12	90	150	150	20
Visayas	2025	2	4	13	90	150	150	20
Visayas	2025	2	4	14	98	150	150	20
Visayas	2025	2	4	15	94	150	150	20
Visayas	2025	2	4	16	93	150	150	20
Visayas	2025	2	4	17	88	150	150	20
Visayas	2025	2	4	18	91	150	150	20
Visayas	2025	2	4	19	92	150	150	20
Visayas	2025	2	4	20	86	150	150	20
Visayas	2025	2	4	21	80	150	150	20
Visayas	2025	2	4	22	73	150	150	20
Visayas	2025	2	4	23	67	150	150	20
Visayas	2025	2	4	24	61	150	150	20
Visayas	2025	2	5	1	58	150	150	20
Visayas	2025	2	5	2	56	150	150	20
Visayas	2025	2	5	3	54	150	150	20
Visayas	2025	2	5	4	53	150	150	20
Visayas	2025	2	5	5	55	150	150	20
Visayas	2025	2	5	6	59	150	150	20
Visayas	2025	2	5	7	61	150	150	20
Visayas	2025	2	5	8	61	150	150	20
Visayas	2025	2	5	9	80	150	150	20
Visayas	2025	2	5	10	86	150	150	20
Visayas	2025	2	5	11	92	150	150	20
Visayas	2025	2	5	12	88	150	150	20
Visayas	2025	2	5	13	91	150	150	20
Visayas	2025	2	5	14	97	150	150	20
Visayas	2025	2	5	15	96	150	150	20
Visayas	2025	2	5	16	94	150	150	20
Visayas	2025	2	5	17	87	150	150	20
Visayas	2025	2	5	18	90	150	150	20
Visayas	2025	2	5	19	92	150	150	20
Visayas	2025	2	5	20	85	150	150	20
Visayas	2025	2	5	21	81	150	150	20
Visayas	2025	2	5	22	73	150	150	20
Visayas	2025	2	5	23	67	150	150	20
Visayas	2025	2	5	24	63	150	150	20
Visayas	2025	2	6	1	59	150	150	20
Visayas	2025	2	6	2	57	150	150	20
Visayas	2025	2	6	3	55	150	150	20
Visayas	2025	2	6	4	54	150	150	20
Visayas	2025	2	6	5	56	150	150	20
Visayas	2025	2	6	6	59	150	150	20
Visayas	2025	2	6	7	60	150	150	20
Visayas	2025	2	6	8	68	150	150	20
Visayas	2025	2	6	9	81	150	150	20
Visayas	2025	2	6	10	89	150	150	20
Visayas	2025	2	6	11	91	150	150	20
Visayas	2025	2	6	12	88	150	150	20
Visayas	2025	2	6	13	88	150	150	20
Visayas	2025	2	6	14	94	150	150	20
Visayas	2025	2	6	15	93	150	150	20
Visayas	2025	2	6	16	91	150	150	20
Visayas	2025	2	6	17	88	150	150	20
Visayas	2025	2	6	18	89	150	150	20
Visayas	2025	2	6	19	89	150	150	20
Visayas	2025	2	6	20	82	150	150	20
Visayas	2025	2	6	21	77	150	150	20
Visayas	2025	2	6	22	71	150	150	20
Visayas	2025	2	6	23	64	150	150	20
Visayas	2025	2	6	24	60	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	7	1	58	150	150	20
Visayas	2025	2	7	2	56	150	150	20
Visayas	2025	2	7	3	55	150	150	20
Visayas	2025	2	7	4	54	150	150	20
Visayas	2025	2	7	5	54	150	150	20
Visayas	2025	2	7	6	58	150	150	20
Visayas	2025	2	7	7	61	150	150	20
Visayas	2025	2	7	8	70	150	150	20
Visayas	2025	2	7	9	83	150	150	20
Visayas	2025	2	7	10	89	150	150	20
Visayas	2025	2	7	11	92	150	150	20
Visayas	2025	2	7	12	90	150	150	20
Visayas	2025	2	7	13	90	150	150	20
Visayas	2025	2	7	14	96	150	150	20
Visayas	2025	2	7	15	96	150	150	20
Visayas	2025	2	7	16	92	150	150	20
Visayas	2025	2	7	17	85	150	150	20
Visayas	2025	2	7	18	88	150	150	20
Visayas	2025	2	7	19	92	150	150	20
Visayas	2025	2	7	20	86	150	150	20
Visayas	2025	2	7	21	80	150	150	20
Visayas	2025	2	7	22	74	150	150	20
Visayas	2025	2	7	23	68	150	150	20
Visayas	2025	2	7	24	63	150	150	20
Visayas	2025	2	8	1	59	150	150	20
Visayas	2025	2	8	2	56	150	150	20
Visayas	2025	2	8	3	54	150	150	20
Visayas	2025	2	8	4	54	150	150	20
Visayas	2025	2	8	5	54	150	150	20
Visayas	2025	2	8	6	57	150	150	20
Visayas	2025	2	8	7	59	150	150	20
Visayas	2025	2	8	8	64	150	150	20
Visayas	2025	2	8	9	74	150	150	20
Visayas	2025	2	8	10	78	150	150	20
Visayas	2025	2	8	11	82	150	150	20
Visayas	2025	2	8	12	80	150	150	20
Visayas	2025	2	8	13	81	150	150	20
Visayas	2025	2	8	14	84	150	150	20
Visayas	2025	2	8	15	83	150	150	20
Visayas	2025	2	8	16	84	150	150	20
Visayas	2025	2	8	17	80	150	150	20
Visayas	2025	2	8	18	84	150	150	20
Visayas	2025	2	8	19	88	150	150	20
Visayas	2025	2	8	20	84	150	150	20
Visayas	2025	2	8	21	79	150	150	20
Visayas	2025	2	8	22	74	150	150	20
Visayas	2025	2	8	23	69	150	150	20
Visayas	2025	2	8	24	64	150	150	20
Visayas	2025	2	9	1	60	150	150	20
Visayas	2025	2	9	2	58	150	150	20
Visayas	2025	2	9	3	55	150	150	20
Visayas	2025	2	9	4	55	150	150	20
Visayas	2025	2	9	5	54	150	150	20
Visayas	2025	2	9	6	55	150	150	20
Visayas	2025	2	9	7	52	150	150	20
Visayas	2025	2	9	8	54	150	150	20
Visayas	2025	2	9	9	59	150	150	20
Visayas	2025	2	9	10	63	150	150	20
Visayas	2025	2	9	11	67	150	150	20
Visayas	2025	2	9	12	66	150	150	20
Visayas	2025	2	9	13	66	150	150	20
Visayas	2025	2	9	14	67	150	150	20
Visayas	2025	2	9	15	68	150	150	20
Visayas	2025	2	9	16	66	150	150	20
Visayas	2025	2	9	17	67	150	150	20
Visayas	2025	2	9	18	77	150	150	20
Visayas	2025	2	9	19	85	150	150	20
Visayas	2025	2	9	20	82	150	150	20
Visayas	2025	2	9	21	77	150	150	20
Visayas	2025	2	9	22	72	150	150	20
Visayas	2025	2	9	23	64	150	150	20
Visayas	2025	2	9	24	60	150	150	20
Visayas	2025	2	10	1	58	150	150	20
Visayas	2025	2	10	2	55	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	10	3	53	150	150	20
Visayas	2025	2	10	4	52	150	150	20
Visayas	2025	2	10	5	56	150	150	20
Visayas	2025	2	10	6	62	150	150	20
Visayas	2025	2	10	7	59	150	150	20
Visayas	2025	2	10	8	67	150	150	20
Visayas	2025	2	10	9	80	150	150	20
Visayas	2025	2	10	10	89	150	150	20
Visayas	2025	2	10	11	93	150	150	20
Visayas	2025	2	10	12	87	150	150	20
Visayas	2025	2	10	13	88	150	150	20
Visayas	2025	2	10	14	91	150	150	20
Visayas	2025	2	10	15	90	150	150	20
Visayas	2025	2	10	16	88	150	150	20
Visayas	2025	2	10	17	88	150	150	20
Visayas	2025	2	10	18	91	150	150	20
Visayas	2025	2	10	19	88	150	150	20
Visayas	2025	2	10	20	82	150	150	20
Visayas	2025	2	10	21	77	150	150	20
Visayas	2025	2	10	22	70	150	150	20
Visayas	2025	2	10	23	65	150	150	20
Visayas	2025	2	10	24	60	150	150	20
Visayas	2025	2	11	1	58	150	150	20
Visayas	2025	2	11	2	55	150	150	20
Visayas	2025	2	11	3	55	150	150	20
Visayas	2025	2	11	4	54	150	150	20
Visayas	2025	2	11	5	58	150	150	20
Visayas	2025	2	11	6	63	150	150	20
Visayas	2025	2	11	7	62	150	150	20
Visayas	2025	2	11	8	68	150	150	20
Visayas	2025	2	11	9	80	150	150	20
Visayas	2025	2	11	10	85	150	150	20
Visayas	2025	2	11	11	89	150	150	20
Visayas	2025	2	11	12	84	150	150	20
Visayas	2025	2	11	13	82	150	150	20
Visayas	2025	2	11	14	85	150	150	20
Visayas	2025	2	11	15	83	150	150	20
Visayas	2025	2	11	16	83	150	150	20
Visayas	2025	2	11	17	82	150	150	20
Visayas	2025	2	11	18	85	150	150	20
Visayas	2025	2	11	19	83	150	150	20
Visayas	2025	2	11	20	77	150	150	20
Visayas	2025	2	11	21	72	150	150	20
Visayas	2025	2	11	22	64	150	150	20
Visayas	2025	2	11	23	58	150	150	20
Visayas	2025	2	11	24	55	150	150	20
Visayas	2025	2	12	1	54	150	150	20
Visayas	2025	2	12	2	52	150	150	20
Visayas	2025	2	12	3	50	150	150	20
Visayas	2025	2	12	4	50	150	150	20
Visayas	2025	2	12	5	53	150	150	20
Visayas	2025	2	12	6	59	150	150	20
Visayas	2025	2	12	7	57	150	150	20
Visayas	2025	2	12	8	63	150	150	20
Visayas	2025	2	12	9	77	150	150	20
Visayas	2025	2	12	10	82	150	150	20
Visayas	2025	2	12	11	84	150	150	20
Visayas	2025	2	12	12	79	150	150	20
Visayas	2025	2	12	13	79	150	150	20
Visayas	2025	2	12	14	85	150	150	20
Visayas	2025	2	12	15	83	150	150	20
Visayas	2025	2	12	16	81	150	150	20
Visayas	2025	2	12	17	77	150	150	20
Visayas	2025	2	12	18	81	150	150	20
Visayas	2025	2	12	19	84	150	150	20
Visayas	2025	2	12	20	77	150	150	20
Visayas	2025	2	12	21	71	150	150	20
Visayas	2025	2	12	22	65	150	150	20
Visayas	2025	2	12	23	58	150	150	20
Visayas	2025	2	12	24	55	150	150	20
Visayas	2025	2	13	1	56	150	150	20
Visayas	2025	2	13	2	52	150	150	20
Visayas	2025	2	13	3	50	150	150	20
Visayas	2025	2	13	4	50	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	13	5	53	150	150	20
Visayas	2025	2	13	6	59	150	150	20
Visayas	2025	2	13	7	57	150	150	20
Visayas	2025	2	13	8	63	150	150	20
Visayas	2025	2	13	9	78	150	150	20
Visayas	2025	2	13	10	83	150	150	20
Visayas	2025	2	13	11	82	150	150	20
Visayas	2025	2	13	12	77	150	150	20
Visayas	2025	2	13	13	76	150	150	20
Visayas	2025	2	13	14	80	150	150	20
Visayas	2025	2	13	15	80	150	150	20
Visayas	2025	2	13	16	78	150	150	20
Visayas	2025	2	13	17	77	150	150	20
Visayas	2025	2	13	18	81	150	150	20
Visayas	2025	2	13	19	82	150	150	20
Visayas	2025	2	13	20	74	150	150	20
Visayas	2025	2	13	21	68	150	150	20
Visayas	2025	2	13	22	60	150	150	20
Visayas	2025	2	13	23	55	150	150	20
Visayas	2025	2	13	24	52	150	150	20
Visayas	2025	2	14	1	51	150	150	20
Visayas	2025	2	14	2	49	150	150	20
Visayas	2025	2	14	3	49	150	150	20
Visayas	2025	2	14	4	48	150	150	20
Visayas	2025	2	14	5	51	150	150	20
Visayas	2025	2	14	6	55	150	150	20
Visayas	2025	2	14	7	55	150	150	20
Visayas	2025	2	14	8	60	150	150	20
Visayas	2025	2	14	9	71	150	150	20
Visayas	2025	2	14	10	79	150	150	20
Visayas	2025	2	14	11	81	150	150	20
Visayas	2025	2	14	12	77	150	150	20
Visayas	2025	2	14	13	77	150	150	20
Visayas	2025	2	14	14	81	150	150	20
Visayas	2025	2	14	15	81	150	150	20
Visayas	2025	2	14	16	80	150	150	20
Visayas	2025	2	14	17	77	150	150	20
Visayas	2025	2	14	18	82	150	150	20
Visayas	2025	2	14	19	82	150	150	20
Visayas	2025	2	14	20	76	150	150	20
Visayas	2025	2	14	21	72	150	150	20
Visayas	2025	2	14	22	65	150	150	20
Visayas	2025	2	14	23	58	150	150	20
Visayas	2025	2	14	24	56	150	150	20
Visayas	2025	2	15	1	53	150	150	20
Visayas	2025	2	15	2	52	150	150	20
Visayas	2025	2	15	3	51	150	150	20
Visayas	2025	2	15	4	50	150	150	20
Visayas	2025	2	15	5	52	150	150	20
Visayas	2025	2	15	6	54	150	150	20
Visayas	2025	2	15	7	51	150	150	20
Visayas	2025	2	15	8	55	150	150	20
Visayas	2025	2	15	9	62	150	150	20
Visayas	2025	2	15	10	64	150	150	20
Visayas	2025	2	15	11	67	150	150	20
Visayas	2025	2	15	12	63	150	150	20
Visayas	2025	2	15	13	61	150	150	20
Visayas	2025	2	15	14	62	150	150	20
Visayas	2025	2	15	15	64	150	150	20
Visayas	2025	2	15	16	63	150	150	20
Visayas	2025	2	15	17	68	150	150	20
Visayas	2025	2	15	18	75	150	150	20
Visayas	2025	2	15	19	73	150	150	20
Visayas	2025	2	15	20	70	150	150	20
Visayas	2025	2	15	21	63	150	150	20
Visayas	2025	2	15	22	57	150	150	20
Visayas	2025	2	15	23	53	150	150	20
Visayas	2025	2	15	24	51	150	150	20
Visayas	2025	2	16	1	49	150	150	20
Visayas	2025	2	16	2	48	150	150	20
Visayas	2025	2	16	3	48	150	150	20
Visayas	2025	2	16	4	48	150	150	20
Visayas	2025	2	16	5	46	150	150	20
Visayas	2025	2	16	6	47	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	16	7	49	150	150	20
Visayas	2025	2	16	8	52	150	150	20
Visayas	2025	2	16	9	57	150	150	20
Visayas	2025	2	16	10	59	150	150	20
Visayas	2025	2	16	11	61	150	150	20
Visayas	2025	2	16	12	61	150	150	20
Visayas	2025	2	16	13	61	150	150	20
Visayas	2025	2	16	14	61	150	150	20
Visayas	2025	2	16	15	60	150	150	20
Visayas	2025	2	16	16	60	150	150	20
Visayas	2025	2	16	17	63	150	150	20
Visayas	2025	2	16	18	74	150	150	20
Visayas	2025	2	16	19	78	150	150	20
Visayas	2025	2	16	20	74	150	150	20
Visayas	2025	2	16	21	70	150	150	20
Visayas	2025	2	16	22	63	150	150	20
Visayas	2025	2	16	23	57	150	150	20
Visayas	2025	2	16	24	53	150	150	20
Visayas	2025	2	17	1	51	150	150	20
Visayas	2025	2	17	2	50	150	150	20
Visayas	2025	2	17	3	49	150	150	20
Visayas	2025	2	17	4	48	150	150	20
Visayas	2025	2	17	5	52	150	150	20
Visayas	2025	2	17	6	59	150	150	20
Visayas	2025	2	17	7	55	150	150	20
Visayas	2025	2	17	8	63	150	150	20
Visayas	2025	2	17	9	80	150	150	20
Visayas	2025	2	17	10	88	150	150	20
Visayas	2025	2	17	11	92	150	150	20
Visayas	2025	2	17	12	61	150	150	20
Visayas	2025	2	17	13	68	150	150	20
Visayas	2025	2	17	14	78	150	150	20
Visayas	2025	2	17	15	81	150	150	20
Visayas	2025	2	17	16	82	150	150	20
Visayas	2025	2	17	17	79	150	150	20
Visayas	2025	2	17	18	80	150	150	20
Visayas	2025	2	17	19	79	150	150	20
Visayas	2025	2	17	20	79	150	150	20
Visayas	2025	2	17	21	76	150	150	20
Visayas	2025	2	17	22	73	150	150	20
Visayas	2025	2	17	23	69	150	150	20
Visayas	2025	2	17	24	62	150	150	20
Visayas	2025	2	18	1	59	150	150	20
Visayas	2025	2	18	2	57	150	150	20
Visayas	2025	2	18	3	55	150	150	20
Visayas	2025	2	18	4	54	150	150	20
Visayas	2025	2	18	5	58	150	150	20
Visayas	2025	2	18	6	64	150	150	20
Visayas	2025	2	18	7	59	150	150	20
Visayas	2025	2	18	8	67	150	150	20
Visayas	2025	2	18	9	84	150	150	20
Visayas	2025	2	18	10	89	150	150	20
Visayas	2025	2	18	11	92	150	150	20
Visayas	2025	2	18	12	89	150	150	20
Visayas	2025	2	18	13	87	150	150	20
Visayas	2025	2	18	14	93	150	150	20
Visayas	2025	2	18	15	92	150	150	20
Visayas	2025	2	18	16	91	150	150	20
Visayas	2025	2	18	17	84	150	150	20
Visayas	2025	2	18	18	87	150	150	20
Visayas	2025	2	18	19	88	150	150	20
Visayas	2025	2	18	20	81	150	150	20
Visayas	2025	2	18	21	79	150	150	20
Visayas	2025	2	18	22	70	150	150	20
Visayas	2025	2	18	23	64	150	150	20
Visayas	2025	2	18	24	60	150	150	20
Visayas	2025	2	19	1	58	150	150	20
Visayas	2025	2	19	2	56	150	150	20
Visayas	2025	2	19	3	53	150	150	20
Visayas	2025	2	19	4	53	150	150	20
Visayas	2025	2	19	5	56	150	150	20
Visayas	2025	2	19	6	63	150	150	20
Visayas	2025	2	19	7	59	150	150	20
Visayas	2025	2	19	8	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	19	9	79	150	150	20
Visayas	2025	2	19	10	83	150	150	20
Visayas	2025	2	19	11	88	150	150	20
Visayas	2025	2	19	12	84	150	150	20
Visayas	2025	2	19	13	84	150	150	20
Visayas	2025	2	19	14	89	150	150	20
Visayas	2025	2	19	15	87	150	150	20
Visayas	2025	2	19	16	86	150	150	20
Visayas	2025	2	19	17	82	150	150	20
Visayas	2025	2	19	18	84	150	150	20
Visayas	2025	2	19	19	87	150	150	20
Visayas	2025	2	19	20	81	150	150	20
Visayas	2025	2	19	21	77	150	150	20
Visayas	2025	2	19	22	68	150	150	20
Visayas	2025	2	19	23	62	150	150	20
Visayas	2025	2	19	24	58	150	150	20
Visayas	2025	2	20	1	56	150	150	20
Visayas	2025	2	20	2	54	150	150	20
Visayas	2025	2	20	3	54	150	150	20
Visayas	2025	2	20	4	53	150	150	20
Visayas	2025	2	20	5	56	150	150	20
Visayas	2025	2	20	6	63	150	150	20
Visayas	2025	2	20	7	59	150	150	20
Visayas	2025	2	20	8	68	150	150	20
Visayas	2025	2	20	9	85	150	150	20
Visayas	2025	2	20	10	88	150	150	20
Visayas	2025	2	20	11	89	150	150	20
Visayas	2025	2	20	12	89	150	150	20
Visayas	2025	2	20	13	90	150	150	20
Visayas	2025	2	20	14	97	150	150	20
Visayas	2025	2	20	15	98	150	150	20
Visayas	2025	2	20	16	95	150	150	20
Visayas	2025	2	20	17	88	150	150	20
Visayas	2025	2	20	18	89	150	150	20
Visayas	2025	2	20	19	94	150	150	20
Visayas	2025	2	20	20	88	150	150	20
Visayas	2025	2	20	21	83	150	150	20
Visayas	2025	2	20	22	75	150	150	20
Visayas	2025	2	20	23	68	150	150	20
Visayas	2025	2	20	24	63	150	150	20
Visayas	2025	2	21	1	51	150	150	20
Visayas	2025	2	21	2	49	150	150	20
Visayas	2025	2	21	3	49	150	150	20
Visayas	2025	2	21	4	48	150	150	20
Visayas	2025	2	21	5	51	150	150	20
Visayas	2025	2	21	6	55	150	150	20
Visayas	2025	2	21	7	55	150	150	20
Visayas	2025	2	21	8	60	150	150	20
Visayas	2025	2	21	9	71	150	150	20
Visayas	2025	2	21	10	79	150	150	20
Visayas	2025	2	21	11	81	150	150	20
Visayas	2025	2	21	12	77	150	150	20
Visayas	2025	2	21	13	77	150	150	20
Visayas	2025	2	21	14	81	150	150	20
Visayas	2025	2	21	15	81	150	150	20
Visayas	2025	2	21	16	80	150	150	20
Visayas	2025	2	21	17	77	150	150	20
Visayas	2025	2	21	18	82	150	150	20
Visayas	2025	2	21	19	82	150	150	20
Visayas	2025	2	21	20	76	150	150	20
Visayas	2025	2	21	21	72	150	150	20
Visayas	2025	2	21	22	65	150	150	20
Visayas	2025	2	21	23	58	150	150	20
Visayas	2025	2	21	24	56	150	150	20
Visayas	2025	2	22	1	63	150	150	20
Visayas	2025	2	22	2	60	150	150	20
Visayas	2025	2	22	3	57	150	150	20
Visayas	2025	2	22	4	56	150	150	20
Visayas	2025	2	22	5	56	150	150	20
Visayas	2025	2	22	6	58	150	150	20
Visayas	2025	2	22	7	58	150	150	20
Visayas	2025	2	22	8	60	150	150	20
Visayas	2025	2	22	9	70	150	150	20
Visayas	2025	2	22	10	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	22	11	79	150	150	20
Visayas	2025	2	22	12	78	150	150	20
Visayas	2025	2	22	13	79	150	150	20
Visayas	2025	2	22	14	82	150	150	20
Visayas	2025	2	22	15	82	150	150	20
Visayas	2025	2	22	16	80	150	150	20
Visayas	2025	2	22	17	77	150	150	20
Visayas	2025	2	22	18	85	150	150	20
Visayas	2025	2	22	19	89	150	150	20
Visayas	2025	2	22	20	84	150	150	20
Visayas	2025	2	22	21	82	150	150	20
Visayas	2025	2	22	22	77	150	150	20
Visayas	2025	2	22	23	69	150	150	20
Visayas	2025	2	22	24	65	150	150	20
Visayas	2025	2	23	1	62	150	150	20
Visayas	2025	2	23	2	59	150	150	20
Visayas	2025	2	23	3	57	150	150	20
Visayas	2025	2	23	4	56	150	150	20
Visayas	2025	2	23	5	55	150	150	20
Visayas	2025	2	23	6	56	150	150	20
Visayas	2025	2	23	7	55	150	150	20
Visayas	2025	2	23	8	58	150	150	20
Visayas	2025	2	23	9	62	150	150	20
Visayas	2025	2	23	10	69	150	150	20
Visayas	2025	2	23	11	71	150	150	20
Visayas	2025	2	23	12	72	150	150	20
Visayas	2025	2	23	13	72	150	150	20
Visayas	2025	2	23	14	73	150	150	20
Visayas	2025	2	23	15	73	150	150	20
Visayas	2025	2	23	16	72	150	150	20
Visayas	2025	2	23	17	70	150	150	20
Visayas	2025	2	23	18	78	150	150	20
Visayas	2025	2	23	19	87	150	150	20
Visayas	2025	2	23	20	80	150	150	20
Visayas	2025	2	23	21	78	150	150	20
Visayas	2025	2	23	22	75	150	150	20
Visayas	2025	2	23	23	66	150	150	20
Visayas	2025	2	23	24	61	150	150	20
Visayas	2025	2	24	1	58	150	150	20
Visayas	2025	2	24	2	55	150	150	20
Visayas	2025	2	24	3	54	150	150	20
Visayas	2025	2	24	4	53	150	150	20
Visayas	2025	2	24	5	56	150	150	20
Visayas	2025	2	24	6	61	150	150	20
Visayas	2025	2	24	7	58	150	150	20
Visayas	2025	2	24	8	65	150	150	20
Visayas	2025	2	24	9	80	150	150	20
Visayas	2025	2	24	10	87	150	150	20
Visayas	2025	2	24	11	90	150	150	20
Visayas	2025	2	24	12	86	150	150	20
Visayas	2025	2	24	13	86	150	150	20
Visayas	2025	2	24	14	90	150	150	20
Visayas	2025	2	24	15	87	150	150	20
Visayas	2025	2	24	16	85	150	150	20
Visayas	2025	2	24	17	83	150	150	20
Visayas	2025	2	24	18	86	150	150	20
Visayas	2025	2	24	19	85	150	150	20
Visayas	2025	2	24	20	78	150	150	20
Visayas	2025	2	24	21	71	150	150	20
Visayas	2025	2	24	22	64	150	150	20
Visayas	2025	2	24	23	59	150	150	20
Visayas	2025	2	24	24	55	150	150	20
Visayas	2025	2	25	1	60	150	150	20
Visayas	2025	2	25	2	58	150	150	20
Visayas	2025	2	25	3	56	150	150	20
Visayas	2025	2	25	4	54	150	150	20
Visayas	2025	2	25	5	56	150	150	20
Visayas	2025	2	25	6	59	150	150	20
Visayas	2025	2	25	7	59	150	150	20
Visayas	2025	2	25	8	65	150	150	20
Visayas	2025	2	25	9	79	150	150	20
Visayas	2025	2	25	10	85	150	150	20
Visayas	2025	2	25	11	90	150	150	20
Visayas	2025	2	25	12	89	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	25	13	89	150	150	20
Visayas	2025	2	25	14	95	150	150	20
Visayas	2025	2	25	15	95	150	150	20
Visayas	2025	2	25	16	91	150	150	20
Visayas	2025	2	25	17	85	150	150	20
Visayas	2025	2	25	18	91	150	150	20
Visayas	2025	2	25	19	94	150	150	20
Visayas	2025	2	25	20	89	150	150	20
Visayas	2025	2	25	21	87	150	150	20
Visayas	2025	2	25	22	77	150	150	20
Visayas	2025	2	25	23	72	150	150	20
Visayas	2025	2	25	24	66	150	150	20
Visayas	2025	2	26	1	56	150	150	20
Visayas	2025	2	26	2	54	150	150	20
Visayas	2025	2	26	3	53	150	150	20
Visayas	2025	2	26	4	52	150	150	20
Visayas	2025	2	26	5	55	150	150	20
Visayas	2025	2	26	6	63	150	150	20
Visayas	2025	2	26	7	58	150	150	20
Visayas	2025	2	26	8	68	150	150	20
Visayas	2025	2	26	9	81	150	150	20
Visayas	2025	2	26	10	90	150	150	20
Visayas	2025	2	26	11	94	150	150	20
Visayas	2025	2	26	12	88	150	150	20
Visayas	2025	2	26	13	87	150	150	20
Visayas	2025	2	26	14	96	150	150	20
Visayas	2025	2	26	15	91	150	150	20
Visayas	2025	2	26	16	89	150	150	20
Visayas	2025	2	26	17	83	150	150	20
Visayas	2025	2	26	18	86	150	150	20
Visayas	2025	2	26	19	89	150	150	20
Visayas	2025	2	26	20	82	150	150	20
Visayas	2025	2	26	21	76	150	150	20
Visayas	2025	2	26	22	69	150	150	20
Visayas	2025	2	26	23	56	150	150	20
Visayas	2025	2	26	24	55	150	150	20
Visayas	2025	2	27	1	53	150	150	20
Visayas	2025	2	27	2	51	150	150	20
Visayas	2025	2	27	3	50	150	150	20
Visayas	2025	2	27	4	50	150	150	20
Visayas	2025	2	27	5	53	150	150	20
Visayas	2025	2	27	6	57	150	150	20
Visayas	2025	2	27	7	55	150	150	20
Visayas	2025	2	27	8	63	150	150	20
Visayas	2025	2	27	9	75	150	150	20
Visayas	2025	2	27	10	81	150	150	20
Visayas	2025	2	27	11	85	150	150	20
Visayas	2025	2	27	12	83	150	150	20
Visayas	2025	2	27	13	82	150	150	20
Visayas	2025	2	27	14	87	150	150	20
Visayas	2025	2	27	15	86	150	150	20
Visayas	2025	2	27	16	84	150	150	20
Visayas	2025	2	27	17	78	150	150	20
Visayas	2025	2	27	18	81	150	150	20
Visayas	2025	2	27	19	83	150	150	20
Visayas	2025	2	27	20	78	150	150	20
Visayas	2025	2	27	21	71	150	150	20
Visayas	2025	2	27	22	62	150	150	20
Visayas	2025	2	27	23	56	150	150	20
Visayas	2025	2	27	24	53	150	150	20
Visayas	2025	2	28	1	51	150	150	20
Visayas	2025	2	28	2	50	150	150	20
Visayas	2025	2	28	3	48	150	150	20
Visayas	2025	2	28	4	48	150	150	20
Visayas	2025	2	28	5	51	150	150	20
Visayas	2025	2	28	6	56	150	150	20
Visayas	2025	2	28	7	54	150	150	20
Visayas	2025	2	28	8	62	150	150	20
Visayas	2025	2	28	9	75	150	150	20
Visayas	2025	2	28	10	79	150	150	20
Visayas	2025	2	28	11	84	150	150	20
Visayas	2025	2	28	12	79	150	150	20
Visayas	2025	2	28	13	78	150	150	20
Visayas	2025	2	28	14	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	2	28	15	84	150	150	20
Visayas	2025	2	28	16	83	150	150	20
Visayas	2025	2	28	17	78	150	150	20
Visayas	2025	2	28	18	81	150	150	20
Visayas	2025	2	28	19	84	150	150	20
Visayas	2025	2	28	20	77	150	150	20
Visayas	2025	2	28	21	71	150	150	20
Visayas	2025	2	28	22	64	150	150	20
Visayas	2025	2	28	23	58	150	150	20
Visayas	2025	2	28	24	54	150	150	20
Visayas	2025	3	1	1	52	150	150	20
Visayas	2025	3	1	2	50	150	150	20
Visayas	2025	3	1	3	49	150	150	20
Visayas	2025	3	1	4	49	150	150	20
Visayas	2025	3	1	5	51	150	150	20
Visayas	2025	3	1	6	52	150	150	20
Visayas	2025	3	1	7	53	150	150	20
Visayas	2025	3	1	8	58	150	150	20
Visayas	2025	3	1	9	67	150	150	20
Visayas	2025	3	1	10	72	150	150	20
Visayas	2025	3	1	11	75	150	150	20
Visayas	2025	3	1	12	73	150	150	20
Visayas	2025	3	1	13	73	150	150	20
Visayas	2025	3	1	14	77	150	150	20
Visayas	2025	3	1	15	75	150	150	20
Visayas	2025	3	1	16	74	150	150	20
Visayas	2025	3	1	17	71	150	150	20
Visayas	2025	3	1	18	77	150	150	20
Visayas	2025	3	1	19	83	150	150	20
Visayas	2025	3	1	20	76	150	150	20
Visayas	2025	3	1	21	71	150	150	20
Visayas	2025	3	1	22	64	150	150	20
Visayas	2025	3	1	23	59	150	150	20
Visayas	2025	3	1	24	55	150	150	20
Visayas	2025	3	2	1	53	150	150	20
Visayas	2025	3	2	2	52	150	150	20
Visayas	2025	3	2	3	50	150	150	20
Visayas	2025	3	2	4	49	150	150	20
Visayas	2025	3	2	5	50	150	150	20
Visayas	2025	3	2	6	51	150	150	20
Visayas	2025	3	2	7	51	150	150	20
Visayas	2025	3	2	8	54	150	150	20
Visayas	2025	3	2	9	57	150	150	20
Visayas	2025	3	2	10	61	150	150	20
Visayas	2025	3	2	11	63	150	150	20
Visayas	2025	3	2	12	62	150	150	20
Visayas	2025	3	2	13	62	150	150	20
Visayas	2025	3	2	14	62	150	150	20
Visayas	2025	3	2	15	63	150	150	20
Visayas	2025	3	2	16	60	150	150	20
Visayas	2025	3	2	17	61	150	150	20
Visayas	2025	3	2	18	71	150	150	20
Visayas	2025	3	2	19	77	150	150	20
Visayas	2025	3	2	20	71	150	150	20
Visayas	2025	3	2	21	65	150	150	20
Visayas	2025	3	2	22	59	150	150	20
Visayas	2025	3	2	23	56	150	150	20
Visayas	2025	3	2	24	52	150	150	20
Visayas	2025	3	3	1	50	150	150	20
Visayas	2025	3	3	2	48	150	150	20
Visayas	2025	3	3	3	48	150	150	20
Visayas	2025	3	3	4	48	150	150	20
Visayas	2025	3	3	5	51	150	150	20
Visayas	2025	3	3	6	57	150	150	20
Visayas	2025	3	3	7	56	150	150	20
Visayas	2025	3	3	8	62	150	150	20
Visayas	2025	3	3	9	77	150	150	20
Visayas	2025	3	3	10	84	150	150	20
Visayas	2025	3	3	11	87	150	150	20
Visayas	2025	3	3	12	84	150	150	20
Visayas	2025	3	3	13	84	150	150	20
Visayas	2025	3	3	14	88	150	150	20
Visayas	2025	3	3	15	90	150	150	20
Visayas	2025	3	3	16	86	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	3	17	80	150	150	20
Visayas	2025	3	3	18	84	150	150	20
Visayas	2025	3	3	19	86	150	150	20
Visayas	2025	3	3	20	80	150	150	20
Visayas	2025	3	3	21	75	150	150	20
Visayas	2025	3	3	22	68	150	150	20
Visayas	2025	3	3	23	61	150	150	20
Visayas	2025	3	3	24	57	150	150	20
Visayas	2025	3	4	1	55	150	150	20
Visayas	2025	3	4	2	54	150	150	20
Visayas	2025	3	4	3	52	150	150	20
Visayas	2025	3	4	4	52	150	150	20
Visayas	2025	3	4	5	55	150	150	20
Visayas	2025	3	4	6	62	150	150	20
Visayas	2025	3	4	7	58	150	150	20
Visayas	2025	3	4	8	67	150	150	20
Visayas	2025	3	4	9	82	150	150	20
Visayas	2025	3	4	10	86	150	150	20
Visayas	2025	3	4	11	91	150	150	20
Visayas	2025	3	4	12	88	150	150	20
Visayas	2025	3	4	13	89	150	150	20
Visayas	2025	3	4	14	94	150	150	20
Visayas	2025	3	4	15	95	150	150	20
Visayas	2025	3	4	16	90	150	150	20
Visayas	2025	3	4	17	85	150	150	20
Visayas	2025	3	4	18	88	150	150	20
Visayas	2025	3	4	19	91	150	150	20
Visayas	2025	3	4	20	85	150	150	20
Visayas	2025	3	4	21	79	150	150	20
Visayas	2025	3	4	22	72	150	150	20
Visayas	2025	3	4	23	64	150	150	20
Visayas	2025	3	4	24	60	150	150	20
Visayas	2025	3	5	1	58	150	150	20
Visayas	2025	3	5	2	56	150	150	20
Visayas	2025	3	5	3	53	150	150	20
Visayas	2025	3	5	4	54	150	150	20
Visayas	2025	3	5	5	56	150	150	20
Visayas	2025	3	5	6	64	150	150	20
Visayas	2025	3	5	7	58	150	150	20
Visayas	2025	3	5	8	68	150	150	20
Visayas	2025	3	5	9	82	150	150	20
Visayas	2025	3	5	10	89	150	150	20
Visayas	2025	3	5	11	92	150	150	20
Visayas	2025	3	5	12	89	150	150	20
Visayas	2025	3	5	13	93	150	150	20
Visayas	2025	3	5	14	98	150	150	20
Visayas	2025	3	5	15	95	150	150	20
Visayas	2025	3	5	16	94	150	150	20
Visayas	2025	3	5	17	86	150	150	20
Visayas	2025	3	5	18	90	150	150	20
Visayas	2025	3	5	19	92	150	150	20
Visayas	2025	3	5	20	88	150	150	20
Visayas	2025	3	5	21	81	150	150	20
Visayas	2025	3	5	22	73	150	150	20
Visayas	2025	3	5	23	68	150	150	20
Visayas	2025	3	5	24	62	150	150	20
Visayas	2025	3	6	1	60	150	150	20
Visayas	2025	3	6	2	57	150	150	20
Visayas	2025	3	6	3	55	150	150	20
Visayas	2025	3	6	4	54	150	150	20
Visayas	2025	3	6	5	58	150	150	20
Visayas	2025	3	6	6	64	150	150	20
Visayas	2025	3	6	7	59	150	150	20
Visayas	2025	3	6	8	69	150	150	20
Visayas	2025	3	6	9	86	150	150	20
Visayas	2025	3	6	10	91	150	150	20
Visayas	2025	3	6	11	97	150	150	20
Visayas	2025	3	6	12	93	150	150	20
Visayas	2025	3	6	13	92	150	150	20
Visayas	2025	3	6	14	99	150	150	20
Visayas	2025	3	6	15	99	150	150	20
Visayas	2025	3	6	16	95	150	150	20
Visayas	2025	3	6	17	87	150	150	20
Visayas	2025	3	6	18	89	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	6	19	93	150	150	20
Visayas	2025	3	6	20	86	150	150	20
Visayas	2025	3	6	21	80	150	150	20
Visayas	2025	3	6	22	72	150	150	20
Visayas	2025	3	6	23	66	150	150	20
Visayas	2025	3	6	24	60	150	150	20
Visayas	2025	3	7	1	58	150	150	20
Visayas	2025	3	7	2	56	150	150	20
Visayas	2025	3	7	3	54	150	150	20
Visayas	2025	3	7	4	53	150	150	20
Visayas	2025	3	7	5	55	150	150	20
Visayas	2025	3	7	6	62	150	150	20
Visayas	2025	3	7	7	57	150	150	20
Visayas	2025	3	7	8	67	150	150	20
Visayas	2025	3	7	9	81	150	150	20
Visayas	2025	3	7	10	88	150	150	20
Visayas	2025	3	7	11	94	150	150	20
Visayas	2025	3	7	12	91	150	150	20
Visayas	2025	3	7	13	91	150	150	20
Visayas	2025	3	7	14	96	150	150	20
Visayas	2025	3	7	15	95	150	150	20
Visayas	2025	3	7	16	91	150	150	20
Visayas	2025	3	7	17	85	150	150	20
Visayas	2025	3	7	18	85	150	150	20
Visayas	2025	3	7	19	89	150	150	20
Visayas	2025	3	7	20	82	150	150	20
Visayas	2025	3	7	21	78	150	150	20
Visayas	2025	3	7	22	72	150	150	20
Visayas	2025	3	7	23	67	150	150	20
Visayas	2025	3	7	24	60	150	150	20
Visayas	2025	3	8	1	58	150	150	20
Visayas	2025	3	8	2	56	150	150	20
Visayas	2025	3	8	3	54	150	150	20
Visayas	2025	3	8	4	52	150	150	20
Visayas	2025	3	8	5	53	150	150	20
Visayas	2025	3	8	6	55	150	150	20
Visayas	2025	3	8	7	56	150	150	20
Visayas	2025	3	8	8	61	150	150	20
Visayas	2025	3	8	9	70	150	150	20
Visayas	2025	3	8	10	75	150	150	20
Visayas	2025	3	8	11	78	150	150	20
Visayas	2025	3	8	12	76	150	150	20
Visayas	2025	3	8	13	79	150	150	20
Visayas	2025	3	8	14	83	150	150	20
Visayas	2025	3	8	15	81	150	150	20
Visayas	2025	3	8	16	77	150	150	20
Visayas	2025	3	8	17	73	150	150	20
Visayas	2025	3	8	18	80	150	150	20
Visayas	2025	3	8	19	84	150	150	20
Visayas	2025	3	8	20	79	150	150	20
Visayas	2025	3	8	21	75	150	150	20
Visayas	2025	3	8	22	67	150	150	20
Visayas	2025	3	8	23	61	150	150	20
Visayas	2025	3	8	24	57	150	150	20
Visayas	2025	3	9	1	55	150	150	20
Visayas	2025	3	9	2	53	150	150	20
Visayas	2025	3	9	3	51	150	150	20
Visayas	2025	3	9	4	50	150	150	20
Visayas	2025	3	9	5	50	150	150	20
Visayas	2025	3	9	6	51	150	150	20
Visayas	2025	3	9	7	52	150	150	20
Visayas	2025	3	9	8	54	150	150	20
Visayas	2025	3	9	9	58	150	150	20
Visayas	2025	3	9	10	64	150	150	20
Visayas	2025	3	9	11	66	150	150	20
Visayas	2025	3	9	12	67	150	150	20
Visayas	2025	3	9	13	66	150	150	20
Visayas	2025	3	9	14	68	150	150	20
Visayas	2025	3	9	15	68	150	150	20
Visayas	2025	3	9	16	67	150	150	20
Visayas	2025	3	9	17	66	150	150	20
Visayas	2025	3	9	18	74	150	150	20
Visayas	2025	3	9	19	83	150	150	20
Visayas	2025	3	9	20	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	9	21	73	150	150	20
Visayas	2025	3	9	22	66	150	150	20
Visayas	2025	3	9	23	60	150	150	20
Visayas	2025	3	9	24	55	150	150	20
Visayas	2025	3	10	1	53	150	150	20
Visayas	2025	3	10	2	50	150	150	20
Visayas	2025	3	10	3	47	150	150	20
Visayas	2025	3	10	4	49	150	150	20
Visayas	2025	3	10	5	53	150	150	20
Visayas	2025	3	10	6	57	150	150	20
Visayas	2025	3	10	7	54	150	150	20
Visayas	2025	3	10	8	63	150	150	20
Visayas	2025	3	10	9	80	150	150	20
Visayas	2025	3	10	10	88	150	150	20
Visayas	2025	3	10	11	91	150	150	20
Visayas	2025	3	10	12	89	150	150	20
Visayas	2025	3	10	13	90	150	150	20
Visayas	2025	3	10	14	97	150	150	20
Visayas	2025	3	10	15	98	150	150	20
Visayas	2025	3	10	16	94	150	150	20
Visayas	2025	3	10	17	86	150	150	20
Visayas	2025	3	10	18	87	150	150	20
Visayas	2025	3	10	19	92	150	150	20
Visayas	2025	3	10	20	86	150	150	20
Visayas	2025	3	10	21	80	150	150	20
Visayas	2025	3	10	22	72	150	150	20
Visayas	2025	3	10	23	66	150	150	20
Visayas	2025	3	10	24	60	150	150	20
Visayas	2025	3	11	1	58	150	150	20
Visayas	2025	3	11	2	56	150	150	20
Visayas	2025	3	11	3	54	150	150	20
Visayas	2025	3	11	4	53	150	150	20
Visayas	2025	3	11	5	57	150	150	20
Visayas	2025	3	11	6	64	150	150	20
Visayas	2025	3	11	7	59	150	150	20
Visayas	2025	3	11	8	69	150	150	20
Visayas	2025	3	11	9	82	150	150	20
Visayas	2025	3	11	10	90	150	150	20
Visayas	2025	3	11	11	92	150	150	20
Visayas	2025	3	11	12	89	150	150	20
Visayas	2025	3	11	13	90	150	150	20
Visayas	2025	3	11	14	97	150	150	20
Visayas	2025	3	11	15	96	150	150	20
Visayas	2025	3	11	16	93	150	150	20
Visayas	2025	3	11	17	87	150	150	20
Visayas	2025	3	11	18	91	150	150	20
Visayas	2025	3	11	19	93	150	150	20
Visayas	2025	3	11	20	87	150	150	20
Visayas	2025	3	11	21	81	150	150	20
Visayas	2025	3	11	22	73	150	150	20
Visayas	2025	3	11	23	67	150	150	20
Visayas	2025	3	11	24	62	150	150	20
Visayas	2025	3	12	1	59	150	150	20
Visayas	2025	3	12	2	57	150	150	20
Visayas	2025	3	12	3	55	150	150	20
Visayas	2025	3	12	4	55	150	150	20
Visayas	2025	3	12	5	58	150	150	20
Visayas	2025	3	12	6	65	150	150	20
Visayas	2025	3	12	7	58	150	150	20
Visayas	2025	3	12	8	70	150	150	20
Visayas	2025	3	12	9	85	150	150	20
Visayas	2025	3	12	10	93	150	150	20
Visayas	2025	3	12	11	97	150	150	20
Visayas	2025	3	12	12	93	150	150	20
Visayas	2025	3	12	13	94	150	150	20
Visayas	2025	3	12	14	100	150	150	20
Visayas	2025	3	12	15	98	150	150	20
Visayas	2025	3	12	16	93	150	150	20
Visayas	2025	3	12	17	86	150	150	20
Visayas	2025	3	12	18	90	150	150	20
Visayas	2025	3	12	19	93	150	150	20
Visayas	2025	3	12	20	86	150	150	20
Visayas	2025	3	12	21	81	150	150	20
Visayas	2025	3	12	22	74	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	12	23	67	150	150	20
Visayas	2025	3	12	24	61	150	150	20
Visayas	2025	3	13	1	59	150	150	20
Visayas	2025	3	13	2	56	150	150	20
Visayas	2025	3	13	3	54	150	150	20
Visayas	2025	3	13	4	54	150	150	20
Visayas	2025	3	13	5	57	150	150	20
Visayas	2025	3	13	6	61	150	150	20
Visayas	2025	3	13	7	58	150	150	20
Visayas	2025	3	13	8	66	150	150	20
Visayas	2025	3	13	9	83	150	150	20
Visayas	2025	3	13	10	90	150	150	20
Visayas	2025	3	13	11	95	150	150	20
Visayas	2025	3	13	12	91	150	150	20
Visayas	2025	3	13	13	92	150	150	20
Visayas	2025	3	13	14	98	150	150	20
Visayas	2025	3	13	15	99	150	150	20
Visayas	2025	3	13	16	96	150	150	20
Visayas	2025	3	13	17	88	150	150	20
Visayas	2025	3	13	18	91	150	150	20
Visayas	2025	3	13	19	95	150	150	20
Visayas	2025	3	13	20	88	150	150	20
Visayas	2025	3	13	21	86	150	150	20
Visayas	2025	3	13	22	77	150	150	20
Visayas	2025	3	13	23	70	150	150	20
Visayas	2025	3	13	24	65	150	150	20
Visayas	2025	3	14	1	61	150	150	20
Visayas	2025	3	14	2	58	150	150	20
Visayas	2025	3	14	3	57	150	150	20
Visayas	2025	3	14	4	56	150	150	20
Visayas	2025	3	14	5	60	150	150	20
Visayas	2025	3	14	6	64	150	150	20
Visayas	2025	3	14	7	61	150	150	20
Visayas	2025	3	14	8	72	150	150	20
Visayas	2025	3	14	9	87	150	150	20
Visayas	2025	3	14	10	93	150	150	20
Visayas	2025	3	14	11	98	150	150	20
Visayas	2025	3	14	12	96	150	150	20
Visayas	2025	3	14	13	95	150	150	20
Visayas	2025	3	14	14	102	150	150	20
Visayas	2025	3	14	15	102	150	150	20
Visayas	2025	3	14	16	98	150	150	20
Visayas	2025	3	14	17	91	150	150	20
Visayas	2025	3	14	18	92	150	150	20
Visayas	2025	3	14	19	97	150	150	20
Visayas	2025	3	14	20	91	150	150	20
Visayas	2025	3	14	21	86	150	150	20
Visayas	2025	3	14	22	78	150	150	20
Visayas	2025	3	14	23	71	150	150	20
Visayas	2025	3	14	24	66	150	150	20
Visayas	2025	3	15	1	61	150	150	20
Visayas	2025	3	15	2	59	150	150	20
Visayas	2025	3	15	3	56	150	150	20
Visayas	2025	3	15	4	57	150	150	20
Visayas	2025	3	15	5	56	150	150	20
Visayas	2025	3	15	6	58	150	150	20
Visayas	2025	3	15	7	58	150	150	20
Visayas	2025	3	15	8	64	150	150	20
Visayas	2025	3	15	9	75	150	150	20
Visayas	2025	3	15	10	80	150	150	20
Visayas	2025	3	15	11	82	150	150	20
Visayas	2025	3	15	12	81	150	150	20
Visayas	2025	3	15	13	80	150	150	20
Visayas	2025	3	15	14	85	150	150	20
Visayas	2025	3	15	15	84	150	150	20
Visayas	2025	3	15	16	82	150	150	20
Visayas	2025	3	15	17	78	150	150	20
Visayas	2025	3	15	18	84	150	150	20
Visayas	2025	3	15	19	88	150	150	20
Visayas	2025	3	15	20	84	150	150	20
Visayas	2025	3	15	21	79	150	150	20
Visayas	2025	3	15	22	75	150	150	20
Visayas	2025	3	15	23	68	150	150	20
Visayas	2025	3	15	24	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	16	1	60	150	150	20
Visayas	2025	3	16	2	57	150	150	20
Visayas	2025	3	16	3	56	150	150	20
Visayas	2025	3	16	4	54	150	150	20
Visayas	2025	3	16	5	54	150	150	20
Visayas	2025	3	16	6	54	150	150	20
Visayas	2025	3	16	7	51	150	150	20
Visayas	2025	3	16	8	53	150	150	20
Visayas	2025	3	16	9	57	150	150	20
Visayas	2025	3	16	10	61	150	150	20
Visayas	2025	3	16	11	66	150	150	20
Visayas	2025	3	16	12	65	150	150	20
Visayas	2025	3	16	13	65	150	150	20
Visayas	2025	3	16	14	66	150	150	20
Visayas	2025	3	16	15	67	150	150	20
Visayas	2025	3	16	16	66	150	150	20
Visayas	2025	3	16	17	65	150	150	20
Visayas	2025	3	16	18	74	150	150	20
Visayas	2025	3	16	19	82	150	150	20
Visayas	2025	3	16	20	80	150	150	20
Visayas	2025	3	16	21	76	150	150	20
Visayas	2025	3	16	22	70	150	150	20
Visayas	2025	3	16	23	64	150	150	20
Visayas	2025	3	16	24	59	150	150	20
Visayas	2025	3	17	1	57	150	150	20
Visayas	2025	3	17	2	55	150	150	20
Visayas	2025	3	17	3	53	150	150	20
Visayas	2025	3	17	4	52	150	150	20
Visayas	2025	3	17	5	56	150	150	20
Visayas	2025	3	17	6	62	150	150	20
Visayas	2025	3	17	7	57	150	150	20
Visayas	2025	3	17	8	68	150	150	20
Visayas	2025	3	17	9	83	150	150	20
Visayas	2025	3	17	10	93	150	150	20
Visayas	2025	3	17	11	96	150	150	20
Visayas	2025	3	17	12	93	150	150	20
Visayas	2025	3	17	13	94	150	150	20
Visayas	2025	3	17	14	101	150	150	20
Visayas	2025	3	17	15	102	150	150	20
Visayas	2025	3	17	16	98	150	150	20
Visayas	2025	3	17	17	92	150	150	20
Visayas	2025	3	17	18	90	150	150	20
Visayas	2025	3	17	19	95	150	150	20
Visayas	2025	3	17	20	89	150	150	20
Visayas	2025	3	17	21	84	150	150	20
Visayas	2025	3	17	22	76	150	150	20
Visayas	2025	3	17	23	69	150	150	20
Visayas	2025	3	17	24	62	150	150	20
Visayas	2025	3	18	1	59	150	150	20
Visayas	2025	3	18	2	56	150	150	20
Visayas	2025	3	18	3	54	150	150	20
Visayas	2025	3	18	4	54	150	150	20
Visayas	2025	3	18	5	57	150	150	20
Visayas	2025	3	18	6	65	150	150	20
Visayas	2025	3	18	7	59	150	150	20
Visayas	2025	3	18	8	69	150	150	20
Visayas	2025	3	18	9	84	150	150	20
Visayas	2025	3	18	10	91	150	150	20
Visayas	2025	3	18	11	96	150	150	20
Visayas	2025	3	18	12	94	150	150	20
Visayas	2025	3	18	13	93	150	150	20
Visayas	2025	3	18	14	103	150	150	20
Visayas	2025	3	18	15	103	150	150	20
Visayas	2025	3	18	16	99	150	150	20
Visayas	2025	3	18	17	92	150	150	20
Visayas	2025	3	18	18	91	150	150	20
Visayas	2025	3	18	19	96	150	150	20
Visayas	2025	3	18	20	90	150	150	20
Visayas	2025	3	18	21	84	150	150	20
Visayas	2025	3	18	22	77	150	150	20
Visayas	2025	3	18	23	69	150	150	20
Visayas	2025	3	18	24	65	150	150	20
Visayas	2025	3	19	1	60	150	150	20
Visayas	2025	3	19	2	58	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	19	3	56	150	150	20
Visayas	2025	3	19	4	56	150	150	20
Visayas	2025	3	19	5	58	150	150	20
Visayas	2025	3	19	6	66	150	150	20
Visayas	2025	3	19	7	60	150	150	20
Visayas	2025	3	19	8	71	150	150	20
Visayas	2025	3	19	9	88	150	150	20
Visayas	2025	3	19	10	97	150	150	20
Visayas	2025	3	19	11	102	150	150	20
Visayas	2025	3	19	12	98	150	150	20
Visayas	2025	3	19	13	99	150	150	20
Visayas	2025	3	19	14	108	150	150	20
Visayas	2025	3	19	15	107	150	150	20
Visayas	2025	3	19	16	104	150	150	20
Visayas	2025	3	19	17	95	150	150	20
Visayas	2025	3	19	18	95	150	150	20
Visayas	2025	3	19	19	101	150	150	20
Visayas	2025	3	19	20	94	150	150	20
Visayas	2025	3	19	21	89	150	150	20
Visayas	2025	3	19	22	83	150	150	20
Visayas	2025	3	19	23	75	150	150	20
Visayas	2025	3	19	24	70	150	150	20
Visayas	2025	3	20	1	65	150	150	20
Visayas	2025	3	20	2	62	150	150	20
Visayas	2025	3	20	3	59	150	150	20
Visayas	2025	3	20	4	58	150	150	20
Visayas	2025	3	20	5	61	150	150	20
Visayas	2025	3	20	6	67	150	150	20
Visayas	2025	3	20	7	61	150	150	20
Visayas	2025	3	20	8	75	150	150	20
Visayas	2025	3	20	9	92	150	150	20
Visayas	2025	3	20	10	99	150	150	20
Visayas	2025	3	20	11	103	150	150	20
Visayas	2025	3	20	12	99	150	150	20
Visayas	2025	3	20	13	102	150	150	20
Visayas	2025	3	20	14	111	150	150	20
Visayas	2025	3	20	15	107	150	150	20
Visayas	2025	3	20	16	105	150	150	20
Visayas	2025	3	20	17	98	150	150	20
Visayas	2025	3	20	18	96	150	150	20
Visayas	2025	3	20	19	103	150	150	20
Visayas	2025	3	20	20	97	150	150	20
Visayas	2025	3	20	21	93	150	150	20
Visayas	2025	3	20	22	86	150	150	20
Visayas	2025	3	20	23	79	150	150	20
Visayas	2025	3	20	24	73	150	150	20
Visayas	2025	3	21	1	68	150	150	20
Visayas	2025	3	21	2	65	150	150	20
Visayas	2025	3	21	3	62	150	150	20
Visayas	2025	3	21	4	61	150	150	20
Visayas	2025	3	21	5	65	150	150	20
Visayas	2025	3	21	6	70	150	150	20
Visayas	2025	3	21	7	65	150	150	20
Visayas	2025	3	21	8	77	150	150	20
Visayas	2025	3	21	9	94	150	150	20
Visayas	2025	3	21	10	102	150	150	20
Visayas	2025	3	21	11	108	150	150	20
Visayas	2025	3	21	12	105	150	150	20
Visayas	2025	3	21	13	106	150	150	20
Visayas	2025	3	21	14	113	150	150	20
Visayas	2025	3	21	15	111	150	150	20
Visayas	2025	3	21	16	108	150	150	20
Visayas	2025	3	21	17	98	150	150	20
Visayas	2025	3	21	18	98	150	150	20
Visayas	2025	3	21	19	103	150	150	20
Visayas	2025	3	21	20	100	150	150	20
Visayas	2025	3	21	21	95	150	150	20
Visayas	2025	3	21	22	89	150	150	20
Visayas	2025	3	21	23	83	150	150	20
Visayas	2025	3	21	24	77	150	150	20
Visayas	2025	3	22	1	72	150	150	20
Visayas	2025	3	22	2	69	150	150	20
Visayas	2025	3	22	3	67	150	150	20
Visayas	2025	3	22	4	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	22	5	64	150	150	20
Visayas	2025	3	22	6	66	150	150	20
Visayas	2025	3	22	7	61	150	150	20
Visayas	2025	3	22	8	69	150	150	20
Visayas	2025	3	22	9	81	150	150	20
Visayas	2025	3	22	10	86	150	150	20
Visayas	2025	3	22	11	92	150	150	20
Visayas	2025	3	22	12	92	150	150	20
Visayas	2025	3	22	13	92	150	150	20
Visayas	2025	3	22	14	96	150	150	20
Visayas	2025	3	22	15	95	150	150	20
Visayas	2025	3	22	16	91	150	150	20
Visayas	2025	3	22	17	84	150	150	20
Visayas	2025	3	22	18	87	150	150	20
Visayas	2025	3	22	19	98	150	150	20
Visayas	2025	3	22	20	94	150	150	20
Visayas	2025	3	22	21	90	150	150	20
Visayas	2025	3	22	22	86	150	150	20
Visayas	2025	3	22	23	81	150	150	20
Visayas	2025	3	22	24	75	150	150	20
Visayas	2025	3	23	1	71	150	150	20
Visayas	2025	3	23	2	68	150	150	20
Visayas	2025	3	23	3	64	150	150	20
Visayas	2025	3	23	4	62	150	150	20
Visayas	2025	3	23	5	62	150	150	20
Visayas	2025	3	23	6	61	150	150	20
Visayas	2025	3	23	7	62	150	150	20
Visayas	2025	3	23	8	65	150	150	20
Visayas	2025	3	23	9	72	150	150	20
Visayas	2025	3	23	10	75	150	150	20
Visayas	2025	3	23	11	78	150	150	20
Visayas	2025	3	23	12	80	150	150	20
Visayas	2025	3	23	13	82	150	150	20
Visayas	2025	3	23	14	85	150	150	20
Visayas	2025	3	23	15	84	150	150	20
Visayas	2025	3	23	16	81	150	150	20
Visayas	2025	3	23	17	79	150	150	20
Visayas	2025	3	23	18	86	150	150	20
Visayas	2025	3	23	19	92	150	150	20
Visayas	2025	3	23	20	90	150	150	20
Visayas	2025	3	23	21	88	150	150	20
Visayas	2025	3	23	22	83	150	150	20
Visayas	2025	3	23	23	77	150	150	20
Visayas	2025	3	23	24	71	150	150	20
Visayas	2025	3	24	1	66	150	150	20
Visayas	2025	3	24	2	63	150	150	20
Visayas	2025	3	24	3	59	150	150	20
Visayas	2025	3	24	4	59	150	150	20
Visayas	2025	3	24	5	63	150	150	20
Visayas	2025	3	24	6	69	150	150	20
Visayas	2025	3	24	7	62	150	150	20
Visayas	2025	3	24	8	75	150	150	20
Visayas	2025	3	24	9	92	150	150	20
Visayas	2025	3	24	10	103	150	150	20
Visayas	2025	3	24	11	105	150	150	20
Visayas	2025	3	24	12	103	150	150	20
Visayas	2025	3	24	13	104	150	150	20
Visayas	2025	3	24	14	112	150	150	20
Visayas	2025	3	24	15	111	150	150	20
Visayas	2025	3	24	16	108	150	150	20
Visayas	2025	3	24	17	100	150	150	20
Visayas	2025	3	24	18	99	150	150	20
Visayas	2025	3	24	19	104	150	150	20
Visayas	2025	3	24	20	98	150	150	20
Visayas	2025	3	24	21	93	150	150	20
Visayas	2025	3	24	22	87	150	150	20
Visayas	2025	3	24	23	81	150	150	20
Visayas	2025	3	24	24	76	150	150	20
Visayas	2025	3	25	1	69	150	150	20
Visayas	2025	3	25	2	66	150	150	20
Visayas	2025	3	25	3	64	150	150	20
Visayas	2025	3	25	4	62	150	150	20
Visayas	2025	3	25	5	66	150	150	20
Visayas	2025	3	25	6	70	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	25	7	66	150	150	20
Visayas	2025	3	25	8	78	150	150	20
Visayas	2025	3	25	9	96	150	150	20
Visayas	2025	3	25	10	103	150	150	20
Visayas	2025	3	25	11	107	150	150	20
Visayas	2025	3	25	12	103	150	150	20
Visayas	2025	3	25	13	106	150	150	20
Visayas	2025	3	25	14	113	150	150	20
Visayas	2025	3	25	15	115	150	150	20
Visayas	2025	3	25	16	111	150	150	20
Visayas	2025	3	25	17	100	150	150	20
Visayas	2025	3	25	18	101	150	150	20
Visayas	2025	3	25	19	105	150	150	20
Visayas	2025	3	25	20	100	150	150	20
Visayas	2025	3	25	21	95	150	150	20
Visayas	2025	3	25	22	89	150	150	20
Visayas	2025	3	25	23	82	150	150	20
Visayas	2025	3	25	24	78	150	150	20
Visayas	2025	3	26	1	72	150	150	20
Visayas	2025	3	26	2	69	150	150	20
Visayas	2025	3	26	3	65	150	150	20
Visayas	2025	3	26	4	63	150	150	20
Visayas	2025	3	26	5	67	150	150	20
Visayas	2025	3	26	6	72	150	150	20
Visayas	2025	3	26	7	65	150	150	20
Visayas	2025	3	26	8	78	150	150	20
Visayas	2025	3	26	9	92	150	150	20
Visayas	2025	3	26	10	102	150	150	20
Visayas	2025	3	26	11	104	150	150	20
Visayas	2025	3	26	12	101	150	150	20
Visayas	2025	3	26	13	103	150	150	20
Visayas	2025	3	26	14	110	150	150	20
Visayas	2025	3	26	15	108	150	150	20
Visayas	2025	3	26	16	104	150	150	20
Visayas	2025	3	26	17	99	150	150	20
Visayas	2025	3	26	18	100	150	150	20
Visayas	2025	3	26	19	103	150	150	20
Visayas	2025	3	26	20	98	150	150	20
Visayas	2025	3	26	21	94	150	150	20
Visayas	2025	3	26	22	86	150	150	20
Visayas	2025	3	26	23	81	150	150	20
Visayas	2025	3	26	24	74	150	150	20
Visayas	2025	3	27	1	70	150	150	20
Visayas	2025	3	27	2	69	150	150	20
Visayas	2025	3	27	3	65	150	150	20
Visayas	2025	3	27	4	64	150	150	20
Visayas	2025	3	27	5	66	150	150	20
Visayas	2025	3	27	6	70	150	150	20
Visayas	2025	3	27	7	65	150	150	20
Visayas	2025	3	27	8	79	150	150	20
Visayas	2025	3	27	9	94	150	150	20
Visayas	2025	3	27	10	102	150	150	20
Visayas	2025	3	27	11	106	150	150	20
Visayas	2025	3	27	12	104	150	150	20
Visayas	2025	3	27	13	105	150	150	20
Visayas	2025	3	27	14	113	150	150	20
Visayas	2025	3	27	15	111	150	150	20
Visayas	2025	3	27	16	107	150	150	20
Visayas	2025	3	27	17	98	150	150	20
Visayas	2025	3	27	18	98	150	150	20
Visayas	2025	3	27	19	103	150	150	20
Visayas	2025	3	27	20	98	150	150	20
Visayas	2025	3	27	21	94	150	150	20
Visayas	2025	3	27	22	88	150	150	20
Visayas	2025	3	27	23	82	150	150	20
Visayas	2025	3	27	24	75	150	150	20
Visayas	2025	3	28	1	71	150	150	20
Visayas	2025	3	28	2	68	150	150	20
Visayas	2025	3	28	3	65	150	150	20
Visayas	2025	3	28	4	64	150	150	20
Visayas	2025	3	28	5	65	150	150	20
Visayas	2025	3	28	6	66	150	150	20
Visayas	2025	3	28	7	60	150	150	20
Visayas	2025	3	28	8	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	28	9	91	150	150	20
Visayas	2025	3	28	10	99	150	150	20
Visayas	2025	3	28	11	104	150	150	20
Visayas	2025	3	28	12	101	150	150	20
Visayas	2025	3	28	13	103	150	150	20
Visayas	2025	3	28	14	110	150	150	20
Visayas	2025	3	28	15	110	150	150	20
Visayas	2025	3	28	16	106	150	150	20
Visayas	2025	3	28	17	98	150	150	20
Visayas	2025	3	28	18	98	150	150	20
Visayas	2025	3	28	19	101	150	150	20
Visayas	2025	3	28	20	97	150	150	20
Visayas	2025	3	28	21	93	150	150	20
Visayas	2025	3	28	22	88	150	150	20
Visayas	2025	3	28	23	81	150	150	20
Visayas	2025	3	28	24	76	150	150	20
Visayas	2025	3	29	1	71	150	150	20
Visayas	2025	3	29	2	70	150	150	20
Visayas	2025	3	29	3	65	150	150	20
Visayas	2025	3	29	4	64	150	150	20
Visayas	2025	3	29	5	63	150	150	20
Visayas	2025	3	29	6	65	150	150	20
Visayas	2025	3	29	7	61	150	150	20
Visayas	2025	3	29	8	71	150	150	20
Visayas	2025	3	29	9	82	150	150	20
Visayas	2025	3	29	10	89	150	150	20
Visayas	2025	3	29	11	94	150	150	20
Visayas	2025	3	29	12	90	150	150	20
Visayas	2025	3	29	13	92	150	150	20
Visayas	2025	3	29	14	98	150	150	20
Visayas	2025	3	29	15	97	150	150	20
Visayas	2025	3	29	16	92	150	150	20
Visayas	2025	3	29	17	84	150	150	20
Visayas	2025	3	29	18	88	150	150	20
Visayas	2025	3	29	19	97	150	150	20
Visayas	2025	3	29	20	94	150	150	20
Visayas	2025	3	29	21	91	150	150	20
Visayas	2025	3	29	22	85	150	150	20
Visayas	2025	3	29	23	78	150	150	20
Visayas	2025	3	29	24	74	150	150	20
Visayas	2025	3	30	1	69	150	150	20
Visayas	2025	3	30	2	65	150	150	20
Visayas	2025	3	30	3	62	150	150	20
Visayas	2025	3	30	4	59	150	150	20
Visayas	2025	3	30	5	59	150	150	20
Visayas	2025	3	30	6	59	150	150	20
Visayas	2025	3	30	7	59	150	150	20
Visayas	2025	3	30	8	63	150	150	20
Visayas	2025	3	30	9	70	150	150	20
Visayas	2025	3	30	10	77	150	150	20
Visayas	2025	3	30	11	81	150	150	20
Visayas	2025	3	30	12	81	150	150	20
Visayas	2025	3	30	13	81	150	150	20
Visayas	2025	3	30	14	84	150	150	20
Visayas	2025	3	30	15	82	150	150	20
Visayas	2025	3	30	16	80	150	150	20
Visayas	2025	3	30	17	78	150	150	20
Visayas	2025	3	30	18	86	150	150	20
Visayas	2025	3	30	19	93	150	150	20
Visayas	2025	3	30	20	90	150	150	20
Visayas	2025	3	30	21	88	150	150	20
Visayas	2025	3	30	22	82	150	150	20
Visayas	2025	3	30	23	76	150	150	20
Visayas	2025	3	30	24	70	150	150	20
Visayas	2025	3	31	1	66	150	150	20
Visayas	2025	3	31	2	60	150	150	20
Visayas	2025	3	31	3	59	150	150	20
Visayas	2025	3	31	4	58	150	150	20
Visayas	2025	3	31	5	61	150	150	20
Visayas	2025	3	31	6	66	150	150	20
Visayas	2025	3	31	7	61	150	150	20
Visayas	2025	3	31	8	75	150	150	20
Visayas	2025	3	31	9	91	150	150	20
Visayas	2025	3	31	10	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	3	31	11	104	150	150	20
Visayas	2025	3	31	12	104	150	150	20
Visayas	2025	3	31	13	105	150	150	20
Visayas	2025	3	31	14	113	150	150	20
Visayas	2025	3	31	15	110	150	150	20
Visayas	2025	3	31	16	106	150	150	20
Visayas	2025	3	31	17	98	150	150	20
Visayas	2025	3	31	18	95	150	150	20
Visayas	2025	3	31	19	101	150	150	20
Visayas	2025	3	31	20	96	150	150	20
Visayas	2025	3	31	21	92	150	150	20
Visayas	2025	3	31	22	85	150	150	20
Visayas	2025	3	31	23	79	150	150	20
Visayas	2025	3	31	24	73	150	150	20
Visayas	2025	4	1	1	69	150	150	20
Visayas	2025	4	1	2	66	150	150	20
Visayas	2025	4	1	3	63	150	150	20
Visayas	2025	4	1	4	62	150	150	20
Visayas	2025	4	1	5	65	150	150	20
Visayas	2025	4	1	6	68	150	150	20
Visayas	2025	4	1	7	66	150	150	20
Visayas	2025	4	1	8	78	150	150	20
Visayas	2025	4	1	9	94	150	150	20
Visayas	2025	4	1	10	102	150	150	20
Visayas	2025	4	1	11	107	150	150	20
Visayas	2025	4	1	12	104	150	150	20
Visayas	2025	4	1	13	103	150	150	20
Visayas	2025	4	1	14	110	150	150	20
Visayas	2025	4	1	15	112	150	150	20
Visayas	2025	4	1	16	105	150	150	20
Visayas	2025	4	1	17	94	150	150	20
Visayas	2025	4	1	18	97	150	150	20
Visayas	2025	4	1	19	100	150	150	20
Visayas	2025	4	1	20	95	150	150	20
Visayas	2025	4	1	21	90	150	150	20
Visayas	2025	4	1	22	83	150	150	20
Visayas	2025	4	1	23	77	150	150	20
Visayas	2025	4	1	24	72	150	150	20
Visayas	2025	4	2	1	67	150	150	20
Visayas	2025	4	2	2	64	150	150	20
Visayas	2025	4	2	3	61	150	150	20
Visayas	2025	4	2	4	59	150	150	20
Visayas	2025	4	2	5	61	150	150	20
Visayas	2025	4	2	6	63	150	150	20
Visayas	2025	4	2	7	61	150	150	20
Visayas	2025	4	2	8	72	150	150	20
Visayas	2025	4	2	9	86	150	150	20
Visayas	2025	4	2	10	93	150	150	20
Visayas	2025	4	2	11	99	150	150	20
Visayas	2025	4	2	12	94	150	150	20
Visayas	2025	4	2	13	92	150	150	20
Visayas	2025	4	2	14	96	150	150	20
Visayas	2025	4	2	15	95	150	150	20
Visayas	2025	4	2	16	89	150	150	20
Visayas	2025	4	2	17	84	150	150	20
Visayas	2025	4	2	18	85	150	150	20
Visayas	2025	4	2	19	89	150	150	20
Visayas	2025	4	2	20	83	150	150	20
Visayas	2025	4	2	21	78	150	150	20
Visayas	2025	4	2	22	73	150	150	20
Visayas	2025	4	2	23	66	150	150	20
Visayas	2025	4	2	24	61	150	150	20
Visayas	2025	4	3	1	70	150	150	20
Visayas	2025	4	3	2	69	150	150	20
Visayas	2025	4	3	3	65	150	150	20
Visayas	2025	4	3	4	64	150	150	20
Visayas	2025	4	3	5	66	150	150	20
Visayas	2025	4	3	6	70	150	150	20
Visayas	2025	4	3	7	65	150	150	20
Visayas	2025	4	3	8	79	150	150	20
Visayas	2025	4	3	9	94	150	150	20
Visayas	2025	4	3	10	102	150	150	20
Visayas	2025	4	3	11	106	150	150	20
Visayas	2025	4	3	12	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	3	13	105	150	150	20
Visayas	2025	4	3	14	113	150	150	20
Visayas	2025	4	3	15	111	150	150	20
Visayas	2025	4	3	16	107	150	150	20
Visayas	2025	4	3	17	98	150	150	20
Visayas	2025	4	3	18	98	150	150	20
Visayas	2025	4	3	19	103	150	150	20
Visayas	2025	4	3	20	98	150	150	20
Visayas	2025	4	3	21	94	150	150	20
Visayas	2025	4	3	22	88	150	150	20
Visayas	2025	4	3	23	82	150	150	20
Visayas	2025	4	3	24	75	150	150	20
Visayas	2025	4	4	1	71	150	150	20
Visayas	2025	4	4	2	68	150	150	20
Visayas	2025	4	4	3	65	150	150	20
Visayas	2025	4	4	4	64	150	150	20
Visayas	2025	4	4	5	65	150	150	20
Visayas	2025	4	4	6	66	150	150	20
Visayas	2025	4	4	7	60	150	150	20
Visayas	2025	4	4	8	73	150	150	20
Visayas	2025	4	4	9	91	150	150	20
Visayas	2025	4	4	10	99	150	150	20
Visayas	2025	4	4	11	104	150	150	20
Visayas	2025	4	4	12	101	150	150	20
Visayas	2025	4	4	13	103	150	150	20
Visayas	2025	4	4	14	110	150	150	20
Visayas	2025	4	4	15	110	150	150	20
Visayas	2025	4	4	16	106	150	150	20
Visayas	2025	4	4	17	98	150	150	20
Visayas	2025	4	4	18	98	150	150	20
Visayas	2025	4	4	19	101	150	150	20
Visayas	2025	4	4	20	97	150	150	20
Visayas	2025	4	4	21	93	150	150	20
Visayas	2025	4	4	22	88	150	150	20
Visayas	2025	4	4	23	81	150	150	20
Visayas	2025	4	4	24	76	150	150	20
Visayas	2025	4	5	1	54	150	150	20
Visayas	2025	4	5	2	52	150	150	20
Visayas	2025	4	5	3	50	150	150	20
Visayas	2025	4	5	4	49	150	150	20
Visayas	2025	4	5	5	49	150	150	20
Visayas	2025	4	5	6	50	150	150	20
Visayas	2025	4	5	7	51	150	150	20
Visayas	2025	4	5	8	55	150	150	20
Visayas	2025	4	5	9	62	150	150	20
Visayas	2025	4	5	10	65	150	150	20
Visayas	2025	4	5	11	70	150	150	20
Visayas	2025	4	5	12	69	150	150	20
Visayas	2025	4	5	13	71	150	150	20
Visayas	2025	4	5	14	74	150	150	20
Visayas	2025	4	5	15	71	150	150	20
Visayas	2025	4	5	16	70	150	150	20
Visayas	2025	4	5	17	69	150	150	20
Visayas	2025	4	5	18	76	150	150	20
Visayas	2025	4	5	19	79	150	150	20
Visayas	2025	4	5	20	76	150	150	20
Visayas	2025	4	5	21	73	150	150	20
Visayas	2025	4	5	22	68	150	150	20
Visayas	2025	4	5	23	63	150	150	20
Visayas	2025	4	5	24	60	150	150	20
Visayas	2025	4	6	1	56	150	150	20
Visayas	2025	4	6	2	54	150	150	20
Visayas	2025	4	6	3	53	150	150	20
Visayas	2025	4	6	4	51	150	150	20
Visayas	2025	4	6	5	51	150	150	20
Visayas	2025	4	6	6	53	150	150	20
Visayas	2025	4	6	7	52	150	150	20
Visayas	2025	4	6	8	54	150	150	20
Visayas	2025	4	6	9	59	150	150	20
Visayas	2025	4	6	10	64	150	150	20
Visayas	2025	4	6	11	65	150	150	20
Visayas	2025	4	6	12	64	150	150	20
Visayas	2025	4	6	13	64	150	150	20
Visayas	2025	4	6	14	66	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	6	15	68	150	150	20
Visayas	2025	4	6	16	67	150	150	20
Visayas	2025	4	6	17	67	150	150	20
Visayas	2025	4	6	18	74	150	150	20
Visayas	2025	4	6	19	80	150	150	20
Visayas	2025	4	6	20	76	150	150	20
Visayas	2025	4	6	21	74	150	150	20
Visayas	2025	4	6	22	69	150	150	20
Visayas	2025	4	6	23	64	150	150	20
Visayas	2025	4	6	24	59	150	150	20
Visayas	2025	4	7	1	66	150	150	20
Visayas	2025	4	7	2	60	150	150	20
Visayas	2025	4	7	3	59	150	150	20
Visayas	2025	4	7	4	58	150	150	20
Visayas	2025	4	7	5	61	150	150	20
Visayas	2025	4	7	6	66	150	150	20
Visayas	2025	4	7	7	61	150	150	20
Visayas	2025	4	7	8	75	150	150	20
Visayas	2025	4	7	9	91	150	150	20
Visayas	2025	4	7	10	101	150	150	20
Visayas	2025	4	7	11	104	150	150	20
Visayas	2025	4	7	12	104	150	150	20
Visayas	2025	4	7	13	105	150	150	20
Visayas	2025	4	7	14	113	150	150	20
Visayas	2025	4	7	15	110	150	150	20
Visayas	2025	4	7	16	106	150	150	20
Visayas	2025	4	7	17	98	150	150	20
Visayas	2025	4	7	18	95	150	150	20
Visayas	2025	4	7	19	101	150	150	20
Visayas	2025	4	7	20	96	150	150	20
Visayas	2025	4	7	21	92	150	150	20
Visayas	2025	4	7	22	85	150	150	20
Visayas	2025	4	7	23	79	150	150	20
Visayas	2025	4	7	24	73	150	150	20
Visayas	2025	4	8	1	61	150	150	20
Visayas	2025	4	8	2	60	150	150	20
Visayas	2025	4	8	3	57	150	150	20
Visayas	2025	4	8	4	57	150	150	20
Visayas	2025	4	8	5	60	150	150	20
Visayas	2025	4	8	6	65	150	150	20
Visayas	2025	4	8	7	59	150	150	20
Visayas	2025	4	8	8	72	150	150	20
Visayas	2025	4	8	9	87	150	150	20
Visayas	2025	4	8	10	96	150	150	20
Visayas	2025	4	8	11	98	150	150	20
Visayas	2025	4	8	12	93	150	150	20
Visayas	2025	4	8	13	93	150	150	20
Visayas	2025	4	8	14	99	150	150	20
Visayas	2025	4	8	15	97	150	150	20
Visayas	2025	4	8	16	97	150	150	20
Visayas	2025	4	8	17	87	150	150	20
Visayas	2025	4	8	18	91	150	150	20
Visayas	2025	4	8	19	91	150	150	20
Visayas	2025	4	8	20	86	150	150	20
Visayas	2025	4	8	21	82	150	150	20
Visayas	2025	4	8	22	73	150	150	20
Visayas	2025	4	8	23	65	150	150	20
Visayas	2025	4	8	24	61	150	150	20
Visayas	2025	4	9	1	56	150	150	20
Visayas	2025	4	9	2	54	150	150	20
Visayas	2025	4	9	3	52	150	150	20
Visayas	2025	4	9	4	51	150	150	20
Visayas	2025	4	9	5	52	150	150	20
Visayas	2025	4	9	6	52	150	150	20
Visayas	2025	4	9	7	53	150	150	20
Visayas	2025	4	9	8	59	150	150	20
Visayas	2025	4	9	9	67	150	150	20
Visayas	2025	4	9	10	71	150	150	20
Visayas	2025	4	9	11	78	150	150	20
Visayas	2025	4	9	12	77	150	150	20
Visayas	2025	4	9	13	79	150	150	20
Visayas	2025	4	9	14	81	150	150	20
Visayas	2025	4	9	15	80	150	150	20
Visayas	2025	4	9	16	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	9	17	78	150	150	20
Visayas	2025	4	9	18	84	150	150	20
Visayas	2025	4	9	19	88	150	150	20
Visayas	2025	4	9	20	85	150	150	20
Visayas	2025	4	9	21	81	150	150	20
Visayas	2025	4	9	22	75	150	150	20
Visayas	2025	4	9	23	70	150	150	20
Visayas	2025	4	9	24	65	150	150	20
Visayas	2025	4	10	1	64	150	150	20
Visayas	2025	4	10	2	61	150	150	20
Visayas	2025	4	10	3	58	150	150	20
Visayas	2025	4	10	4	57	150	150	20
Visayas	2025	4	10	5	61	150	150	20
Visayas	2025	4	10	6	65	150	150	20
Visayas	2025	4	10	7	60	150	150	20
Visayas	2025	4	10	8	74	150	150	20
Visayas	2025	4	10	9	93	150	150	20
Visayas	2025	4	10	10	99	150	150	20
Visayas	2025	4	10	11	105	150	150	20
Visayas	2025	4	10	12	103	150	150	20
Visayas	2025	4	10	13	102	150	150	20
Visayas	2025	4	10	14	109	150	150	20
Visayas	2025	4	10	15	111	150	150	20
Visayas	2025	4	10	16	107	150	150	20
Visayas	2025	4	10	17	99	150	150	20
Visayas	2025	4	10	18	99	150	150	20
Visayas	2025	4	10	19	103	150	150	20
Visayas	2025	4	10	20	98	150	150	20
Visayas	2025	4	10	21	94	150	150	20
Visayas	2025	4	10	22	85	150	150	20
Visayas	2025	4	10	23	80	150	150	20
Visayas	2025	4	10	24	73	150	150	20
Visayas	2025	4	11	1	69	150	150	20
Visayas	2025	4	11	2	65	150	150	20
Visayas	2025	4	11	3	62	150	150	20
Visayas	2025	4	11	4	60	150	150	20
Visayas	2025	4	11	5	63	150	150	20
Visayas	2025	4	11	6	68	150	150	20
Visayas	2025	4	11	7	63	150	150	20
Visayas	2025	4	11	8	77	150	150	20
Visayas	2025	4	11	9	97	150	150	20
Visayas	2025	4	11	10	107	150	150	20
Visayas	2025	4	11	11	110	150	150	20
Visayas	2025	4	11	12	108	150	150	20
Visayas	2025	4	11	13	109	150	150	20
Visayas	2025	4	11	14	114	150	150	20
Visayas	2025	4	11	15	112	150	150	20
Visayas	2025	4	11	16	108	150	150	20
Visayas	2025	4	11	17	100	150	150	20
Visayas	2025	4	11	18	100	150	150	20
Visayas	2025	4	11	19	104	150	150	20
Visayas	2025	4	11	20	99	150	150	20
Visayas	2025	4	11	21	96	150	150	20
Visayas	2025	4	11	22	86	150	150	20
Visayas	2025	4	11	23	80	150	150	20
Visayas	2025	4	11	24	74	150	150	20
Visayas	2025	4	12	1	71	150	150	20
Visayas	2025	4	12	2	68	150	150	20
Visayas	2025	4	12	3	64	150	150	20
Visayas	2025	4	12	4	62	150	150	20
Visayas	2025	4	12	5	62	150	150	20
Visayas	2025	4	12	6	64	150	150	20
Visayas	2025	4	12	7	60	150	150	20
Visayas	2025	4	12	8	71	150	150	20
Visayas	2025	4	12	9	87	150	150	20
Visayas	2025	4	12	10	93	150	150	20
Visayas	2025	4	12	11	100	150	150	20
Visayas	2025	4	12	12	98	150	150	20
Visayas	2025	4	12	13	98	150	150	20
Visayas	2025	4	12	14	104	150	150	20
Visayas	2025	4	12	15	101	150	150	20
Visayas	2025	4	12	16	99	150	150	20
Visayas	2025	4	12	17	92	150	150	20
Visayas	2025	4	12	18	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	12	19	102	150	150	20
Visayas	2025	4	12	20	99	150	150	20
Visayas	2025	4	12	21	93	150	150	20
Visayas	2025	4	12	22	89	150	150	20
Visayas	2025	4	12	23	83	150	150	20
Visayas	2025	4	12	24	78	150	150	20
Visayas	2025	4	13	1	75	150	150	20
Visayas	2025	4	13	2	70	150	150	20
Visayas	2025	4	13	3	67	150	150	20
Visayas	2025	4	13	4	60	150	150	20
Visayas	2025	4	13	5	61	150	150	20
Visayas	2025	4	13	6	61	150	150	20
Visayas	2025	4	13	7	59	150	150	20
Visayas	2025	4	13	8	64	150	150	20
Visayas	2025	4	13	9	72	150	150	20
Visayas	2025	4	13	10	78	150	150	20
Visayas	2025	4	13	11	83	150	150	20
Visayas	2025	4	13	12	82	150	150	20
Visayas	2025	4	13	13	85	150	150	20
Visayas	2025	4	13	14	87	150	150	20
Visayas	2025	4	13	15	86	150	150	20
Visayas	2025	4	13	16	83	150	150	20
Visayas	2025	4	13	17	81	150	150	20
Visayas	2025	4	13	18	87	150	150	20
Visayas	2025	4	13	19	98	150	150	20
Visayas	2025	4	13	20	96	150	150	20
Visayas	2025	4	13	21	93	150	150	20
Visayas	2025	4	13	22	88	150	150	20
Visayas	2025	4	13	23	81	150	150	20
Visayas	2025	4	13	24	76	150	150	20
Visayas	2025	4	14	1	71	150	150	20
Visayas	2025	4	14	2	67	150	150	20
Visayas	2025	4	14	3	65	150	150	20
Visayas	2025	4	14	4	64	150	150	20
Visayas	2025	4	14	5	67	150	150	20
Visayas	2025	4	14	6	71	150	150	20
Visayas	2025	4	14	7	67	150	150	20
Visayas	2025	4	14	8	80	150	150	20
Visayas	2025	4	14	9	101	150	150	20
Visayas	2025	4	14	10	108	150	150	20
Visayas	2025	4	14	11	112	150	150	20
Visayas	2025	4	14	12	114	150	150	20
Visayas	2025	4	14	13	115	150	150	20
Visayas	2025	4	14	14	119	150	150	20
Visayas	2025	4	14	15	119	150	150	20
Visayas	2025	4	14	16	116	150	150	20
Visayas	2025	4	14	17	109	150	150	20
Visayas	2025	4	14	18	107	150	150	20
Visayas	2025	4	14	19	112	150	150	20
Visayas	2025	4	14	20	107	150	150	20
Visayas	2025	4	14	21	103	150	150	20
Visayas	2025	4	14	22	96	150	150	20
Visayas	2025	4	14	23	89	150	150	20
Visayas	2025	4	14	24	82	150	150	20
Visayas	2025	4	15	1	78	150	150	20
Visayas	2025	4	15	2	75	150	150	20
Visayas	2025	4	15	3	72	150	150	20
Visayas	2025	4	15	4	70	150	150	20
Visayas	2025	4	15	5	73	150	150	20
Visayas	2025	4	15	6	76	150	150	20
Visayas	2025	4	15	7	72	150	150	20
Visayas	2025	4	15	8	85	150	150	20
Visayas	2025	4	15	9	102	150	150	20
Visayas	2025	4	15	10	109	150	150	20
Visayas	2025	4	15	11	115	150	150	20
Visayas	2025	4	15	12	113	150	150	20
Visayas	2025	4	15	13	113	150	150	20
Visayas	2025	4	15	14	119	150	150	20
Visayas	2025	4	15	15	118	150	150	20
Visayas	2025	4	15	16	115	150	150	20
Visayas	2025	4	15	17	105	150	150	20
Visayas	2025	4	15	18	106	150	150	20
Visayas	2025	4	15	19	110	150	150	20
Visayas	2025	4	15	20	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	15	21	103	150	150	20
Visayas	2025	4	15	22	95	150	150	20
Visayas	2025	4	15	23	88	150	150	20
Visayas	2025	4	15	24	82	150	150	20
Visayas	2025	4	16	1	77	150	150	20
Visayas	2025	4	16	2	73	150	150	20
Visayas	2025	4	16	3	69	150	150	20
Visayas	2025	4	16	4	69	150	150	20
Visayas	2025	4	16	5	71	150	150	20
Visayas	2025	4	16	6	73	150	150	20
Visayas	2025	4	16	7	68	150	150	20
Visayas	2025	4	16	8	84	150	150	20
Visayas	2025	4	16	9	101	150	150	20
Visayas	2025	4	16	10	108	150	150	20
Visayas	2025	4	16	11	111	150	150	20
Visayas	2025	4	16	12	110	150	150	20
Visayas	2025	4	16	13	113	150	150	20
Visayas	2025	4	16	14	118	150	150	20
Visayas	2025	4	16	15	119	150	150	20
Visayas	2025	4	16	16	115	150	150	20
Visayas	2025	4	16	17	106	150	150	20
Visayas	2025	4	16	18	105	150	150	20
Visayas	2025	4	16	19	111	150	150	20
Visayas	2025	4	16	20	107	150	150	20
Visayas	2025	4	16	21	104	150	150	20
Visayas	2025	4	16	22	97	150	150	20
Visayas	2025	4	16	23	89	150	150	20
Visayas	2025	4	16	24	84	150	150	20
Visayas	2025	4	17	1	58	150	150	20
Visayas	2025	4	17	2	55	150	150	20
Visayas	2025	4	17	3	53	150	150	20
Visayas	2025	4	17	4	52	150	150	20
Visayas	2025	4	17	5	51	150	150	20
Visayas	2025	4	17	6	51	150	150	20
Visayas	2025	4	17	7	51	150	150	20
Visayas	2025	4	17	8	52	150	150	20
Visayas	2025	4	17	9	57	150	150	20
Visayas	2025	4	17	10	58	150	150	20
Visayas	2025	4	17	11	62	150	150	20
Visayas	2025	4	17	12	62	150	150	20
Visayas	2025	4	17	13	63	150	150	20
Visayas	2025	4	17	14	66	150	150	20
Visayas	2025	4	17	15	65	150	150	20
Visayas	2025	4	17	16	63	150	150	20
Visayas	2025	4	17	17	61	150	150	20
Visayas	2025	4	17	18	68	150	150	20
Visayas	2025	4	17	19	74	150	150	20
Visayas	2025	4	17	20	71	150	150	20
Visayas	2025	4	17	21	69	150	150	20
Visayas	2025	4	17	22	66	150	150	20
Visayas	2025	4	17	23	62	150	150	20
Visayas	2025	4	17	24	59	150	150	20
Visayas	2025	4	18	1	56	150	150	20
Visayas	2025	4	18	2	53	150	150	20
Visayas	2025	4	18	3	52	150	150	20
Visayas	2025	4	18	4	50	150	150	20
Visayas	2025	4	18	5	50	150	150	20
Visayas	2025	4	18	6	50	150	150	20
Visayas	2025	4	18	7	49	150	150	20
Visayas	2025	4	18	8	50	150	150	20
Visayas	2025	4	18	9	51	150	150	20
Visayas	2025	4	18	10	52	150	150	20
Visayas	2025	4	18	11	54	150	150	20
Visayas	2025	4	18	12	54	150	150	20
Visayas	2025	4	18	13	55	150	150	20
Visayas	2025	4	18	14	56	150	150	20
Visayas	2025	4	18	15	55	150	150	20
Visayas	2025	4	18	16	54	150	150	20
Visayas	2025	4	18	17	53	150	150	20
Visayas	2025	4	18	18	59	150	150	20
Visayas	2025	4	18	19	68	150	150	20
Visayas	2025	4	18	20	67	150	150	20
Visayas	2025	4	18	21	67	150	150	20
Visayas	2025	4	18	22	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	18	23	60	150	150	20
Visayas	2025	4	18	24	57	150	150	20
Visayas	2025	4	19	1	76	150	150	20
Visayas	2025	4	19	2	72	150	150	20
Visayas	2025	4	19	3	67	150	150	20
Visayas	2025	4	19	4	65	150	150	20
Visayas	2025	4	19	5	65	150	150	20
Visayas	2025	4	19	6	64	150	150	20
Visayas	2025	4	19	7	60	150	150	20
Visayas	2025	4	19	8	69	150	150	20
Visayas	2025	4	19	9	80	150	150	20
Visayas	2025	4	19	10	88	150	150	20
Visayas	2025	4	19	11	93	150	150	20
Visayas	2025	4	19	12	91	150	150	20
Visayas	2025	4	19	13	90	150	150	20
Visayas	2025	4	19	14	96	150	150	20
Visayas	2025	4	19	15	95	150	150	20
Visayas	2025	4	19	16	92	150	150	20
Visayas	2025	4	19	17	85	150	150	20
Visayas	2025	4	19	18	95	150	150	20
Visayas	2025	4	19	19	104	150	150	20
Visayas	2025	4	19	20	98	150	150	20
Visayas	2025	4	19	21	96	150	150	20
Visayas	2025	4	19	22	89	150	150	20
Visayas	2025	4	19	23	85	150	150	20
Visayas	2025	4	19	24	80	150	150	20
Visayas	2025	4	20	1	76	150	150	20
Visayas	2025	4	20	2	73	150	150	20
Visayas	2025	4	20	3	69	150	150	20
Visayas	2025	4	20	4	64	150	150	20
Visayas	2025	4	20	5	66	150	150	20
Visayas	2025	4	20	6	64	150	150	20
Visayas	2025	4	20	7	61	150	150	20
Visayas	2025	4	20	8	66	150	150	20
Visayas	2025	4	20	9	74	150	150	20
Visayas	2025	4	20	10	81	150	150	20
Visayas	2025	4	20	11	86	150	150	20
Visayas	2025	4	20	12	84	150	150	20
Visayas	2025	4	20	13	86	150	150	20
Visayas	2025	4	20	14	88	150	150	20
Visayas	2025	4	20	15	86	150	150	20
Visayas	2025	4	20	16	84	150	150	20
Visayas	2025	4	20	17	79	150	150	20
Visayas	2025	4	20	18	90	150	150	20
Visayas	2025	4	20	19	98	150	150	20
Visayas	2025	4	20	20	98	150	150	20
Visayas	2025	4	20	21	97	150	150	20
Visayas	2025	4	20	22	92	150	150	20
Visayas	2025	4	20	23	87	150	150	20
Visayas	2025	4	20	24	81	150	150	20
Visayas	2025	4	21	1	76	150	150	20
Visayas	2025	4	21	2	72	150	150	20
Visayas	2025	4	21	3	68	150	150	20
Visayas	2025	4	21	4	66	150	150	20
Visayas	2025	4	21	5	69	150	150	20
Visayas	2025	4	21	6	70	150	150	20
Visayas	2025	4	21	7	68	150	150	20
Visayas	2025	4	21	8	84	150	150	20
Visayas	2025	4	21	9	102	150	150	20
Visayas	2025	4	21	10	111	150	150	20
Visayas	2025	4	21	11	116	150	150	20
Visayas	2025	4	21	12	114	150	150	20
Visayas	2025	4	21	13	115	150	150	20
Visayas	2025	4	21	14	118	150	150	20
Visayas	2025	4	21	15	117	150	150	20
Visayas	2025	4	21	16	114	150	150	20
Visayas	2025	4	21	17	104	150	150	20
Visayas	2025	4	21	18	104	150	150	20
Visayas	2025	4	21	19	109	150	150	20
Visayas	2025	4	21	20	105	150	150	20
Visayas	2025	4	21	21	102	150	150	20
Visayas	2025	4	21	22	97	150	150	20
Visayas	2025	4	21	23	89	150	150	20
Visayas	2025	4	21	24	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	22	1	78	150	150	20
Visayas	2025	4	22	2	74	150	150	20
Visayas	2025	4	22	3	71	150	150	20
Visayas	2025	4	22	4	69	150	150	20
Visayas	2025	4	22	5	70	150	150	20
Visayas	2025	4	22	6	72	150	150	20
Visayas	2025	4	22	7	69	150	150	20
Visayas	2025	4	22	8	84	150	150	20
Visayas	2025	4	22	9	101	150	150	20
Visayas	2025	4	22	10	109	150	150	20
Visayas	2025	4	22	11	111	150	150	20
Visayas	2025	4	22	12	109	150	150	20
Visayas	2025	4	22	13	109	150	150	20
Visayas	2025	4	22	14	113	150	150	20
Visayas	2025	4	22	15	110	150	150	20
Visayas	2025	4	22	16	107	150	150	20
Visayas	2025	4	22	17	99	150	150	20
Visayas	2025	4	22	18	101	150	150	20
Visayas	2025	4	22	19	108	150	150	20
Visayas	2025	4	22	20	102	150	150	20
Visayas	2025	4	22	21	99	150	150	20
Visayas	2025	4	22	22	91	150	150	20
Visayas	2025	4	22	23	86	150	150	20
Visayas	2025	4	22	24	79	150	150	20
Visayas	2025	4	23	1	75	150	150	20
Visayas	2025	4	23	2	71	150	150	20
Visayas	2025	4	23	3	68	150	150	20
Visayas	2025	4	23	4	66	150	150	20
Visayas	2025	4	23	5	69	150	150	20
Visayas	2025	4	23	6	71	150	150	20
Visayas	2025	4	23	7	68	150	150	20
Visayas	2025	4	23	8	84	150	150	20
Visayas	2025	4	23	9	101	150	150	20
Visayas	2025	4	23	10	110	150	150	20
Visayas	2025	4	23	11	114	150	150	20
Visayas	2025	4	23	12	112	150	150	20
Visayas	2025	4	23	13	114	150	150	20
Visayas	2025	4	23	14	121	150	150	20
Visayas	2025	4	23	15	117	150	150	20
Visayas	2025	4	23	16	113	150	150	20
Visayas	2025	4	23	17	105	150	150	20
Visayas	2025	4	23	18	104	150	150	20
Visayas	2025	4	23	19	109	150	150	20
Visayas	2025	4	23	20	105	150	150	20
Visayas	2025	4	23	21	101	150	150	20
Visayas	2025	4	23	22	96	150	150	20
Visayas	2025	4	23	23	89	150	150	20
Visayas	2025	4	23	24	83	150	150	20
Visayas	2025	4	24	1	78	150	150	20
Visayas	2025	4	24	2	75	150	150	20
Visayas	2025	4	24	3	72	150	150	20
Visayas	2025	4	24	4	70	150	150	20
Visayas	2025	4	24	5	72	150	150	20
Visayas	2025	4	24	6	73	150	150	20
Visayas	2025	4	24	7	71	150	150	20
Visayas	2025	4	24	8	85	150	150	20
Visayas	2025	4	24	9	103	150	150	20
Visayas	2025	4	24	10	112	150	150	20
Visayas	2025	4	24	11	116	150	150	20
Visayas	2025	4	24	12	112	150	150	20
Visayas	2025	4	24	13	115	150	150	20
Visayas	2025	4	24	14	77	150	150	20
Visayas	2025	4	24	15	87	150	150	20
Visayas	2025	4	24	16	92	150	150	20
Visayas	2025	4	24	17	76	150	150	20
Visayas	2025	4	24	18	83	150	150	20
Visayas	2025	4	24	19	89	150	150	20
Visayas	2025	4	24	20	92	150	150	20
Visayas	2025	4	24	21	94	150	150	20
Visayas	2025	4	24	22	94	150	150	20
Visayas	2025	4	24	23	90	150	150	20
Visayas	2025	4	24	24	85	150	150	20
Visayas	2025	4	25	1	80	150	150	20
Visayas	2025	4	25	2	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	25	3	73	150	150	20
Visayas	2025	4	25	4	70	150	150	20
Visayas	2025	4	25	5	72	150	150	20
Visayas	2025	4	25	6	73	150	150	20
Visayas	2025	4	25	7	71	150	150	20
Visayas	2025	4	25	8	87	150	150	20
Visayas	2025	4	25	9	105	150	150	20
Visayas	2025	4	25	10	112	150	150	20
Visayas	2025	4	25	11	116	150	150	20
Visayas	2025	4	25	12	111	150	150	20
Visayas	2025	4	25	13	114	150	150	20
Visayas	2025	4	25	14	119	150	150	20
Visayas	2025	4	25	15	79	150	150	20
Visayas	2025	4	25	16	76	150	150	20
Visayas	2025	4	25	17	72	150	150	20
Visayas	2025	4	25	18	78	150	150	20
Visayas	2025	4	25	19	82	150	150	20
Visayas	2025	4	25	20	83	150	150	20
Visayas	2025	4	25	21	85	150	150	20
Visayas	2025	4	25	22	82	150	150	20
Visayas	2025	4	25	23	79	150	150	20
Visayas	2025	4	25	24	77	150	150	20
Visayas	2025	4	26	1	74	150	150	20
Visayas	2025	4	26	2	73	150	150	20
Visayas	2025	4	26	3	57	150	150	20
Visayas	2025	4	26	4	56	150	150	20
Visayas	2025	4	26	5	56	150	150	20
Visayas	2025	4	26	6	57	150	150	20
Visayas	2025	4	26	7	61	150	150	20
Visayas	2025	4	26	8	74	150	150	20
Visayas	2025	4	26	9	66	150	150	20
Visayas	2025	4	26	10	79	150	150	20
Visayas	2025	4	26	11	83	150	150	20
Visayas	2025	4	26	12	82	150	150	20
Visayas	2025	4	26	13	84	150	150	20
Visayas	2025	4	26	14	88	150	150	20
Visayas	2025	4	26	15	92	150	150	20
Visayas	2025	4	26	16	92	150	150	20
Visayas	2025	4	26	17	85	150	150	20
Visayas	2025	4	26	18	90	150	150	20
Visayas	2025	4	26	19	92	150	150	20
Visayas	2025	4	26	20	91	150	150	20
Visayas	2025	4	26	21	86	150	150	20
Visayas	2025	4	26	22	82	150	150	20
Visayas	2025	4	26	23	76	150	150	20
Visayas	2025	4	26	24	72	150	150	20
Visayas	2025	4	27	1	69	150	150	20
Visayas	2025	4	27	2	67	150	150	20
Visayas	2025	4	27	3	66	150	150	20
Visayas	2025	4	27	4	64	150	150	20
Visayas	2025	4	27	5	63	150	150	20
Visayas	2025	4	27	6	62	150	150	20
Visayas	2025	4	27	7	60	150	150	20
Visayas	2025	4	27	8	65	150	150	20
Visayas	2025	4	27	9	73	150	150	20
Visayas	2025	4	27	10	80	150	150	20
Visayas	2025	4	27	11	83	150	150	20
Visayas	2025	4	27	12	82	150	150	20
Visayas	2025	4	27	13	82	150	150	20
Visayas	2025	4	27	14	83	150	150	20
Visayas	2025	4	27	15	81	150	150	20
Visayas	2025	4	27	16	77	150	150	20
Visayas	2025	4	27	17	80	150	150	20
Visayas	2025	4	27	18	88	150	150	20
Visayas	2025	4	27	19	91	150	150	20
Visayas	2025	4	27	20	89	150	150	20
Visayas	2025	4	27	21	87	150	150	20
Visayas	2025	4	27	22	84	150	150	20
Visayas	2025	4	27	23	78	150	150	20
Visayas	2025	4	27	24	73	150	150	20
Visayas	2025	4	28	1	76	150	150	20
Visayas	2025	4	28	2	72	150	150	20
Visayas	2025	4	28	3	68	150	150	20
Visayas	2025	4	28	4	66	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	4	28	5	69	150	150	20
Visayas	2025	4	28	6	70	150	150	20
Visayas	2025	4	28	7	68	150	150	20
Visayas	2025	4	28	8	84	150	150	20
Visayas	2025	4	28	9	102	150	150	20
Visayas	2025	4	28	10	111	150	150	20
Visayas	2025	4	28	11	116	150	150	20
Visayas	2025	4	28	12	114	150	150	20
Visayas	2025	4	28	13	115	150	150	20
Visayas	2025	4	28	14	118	150	150	20
Visayas	2025	4	28	15	117	150	150	20
Visayas	2025	4	28	16	114	150	150	20
Visayas	2025	4	28	17	104	150	150	20
Visayas	2025	4	28	18	104	150	150	20
Visayas	2025	4	28	19	109	150	150	20
Visayas	2025	4	28	20	105	150	150	20
Visayas	2025	4	28	21	102	150	150	20
Visayas	2025	4	28	22	97	150	150	20
Visayas	2025	4	28	23	89	150	150	20
Visayas	2025	4	28	24	83	150	150	20
Visayas	2025	4	29	1	77	150	150	20
Visayas	2025	4	29	2	73	150	150	20
Visayas	2025	4	29	3	69	150	150	20
Visayas	2025	4	29	4	67	150	150	20
Visayas	2025	4	29	5	69	150	150	20
Visayas	2025	4	29	6	71	150	150	20
Visayas	2025	4	29	7	69	150	150	20
Visayas	2025	4	29	8	83	150	150	20
Visayas	2025	4	29	9	101	150	150	20
Visayas	2025	4	29	10	109	150	150	20
Visayas	2025	4	29	11	112	150	150	20
Visayas	2025	4	29	12	110	150	150	20
Visayas	2025	4	29	13	111	150	150	20
Visayas	2025	4	29	14	115	150	150	20
Visayas	2025	4	29	15	111	150	150	20
Visayas	2025	4	29	16	110	150	150	20
Visayas	2025	4	29	17	103	150	150	20
Visayas	2025	4	29	18	104	150	150	20
Visayas	2025	4	29	19	106	150	150	20
Visayas	2025	4	29	20	97	150	150	20
Visayas	2025	4	29	21	96	150	150	20
Visayas	2025	4	29	22	89	150	150	20
Visayas	2025	4	29	23	82	150	150	20
Visayas	2025	4	29	24	77	150	150	20
Visayas	2025	4	30	1	72	150	150	20
Visayas	2025	4	30	2	67	150	150	20
Visayas	2025	4	30	3	65	150	150	20
Visayas	2025	4	30	4	63	150	150	20
Visayas	2025	4	30	5	67	150	150	20
Visayas	2025	4	30	6	70	150	150	20
Visayas	2025	4	30	7	67	150	150	20
Visayas	2025	4	30	8	78	150	150	20
Visayas	2025	4	30	9	93	150	150	20
Visayas	2025	4	30	10	98	150	150	20
Visayas	2025	4	30	11	100	150	150	20
Visayas	2025	4	30	12	95	150	150	20
Visayas	2025	4	30	13	94	150	150	20
Visayas	2025	4	30	14	98	150	150	20
Visayas	2025	4	30	15	97	150	150	20
Visayas	2025	4	30	16	95	150	150	20
Visayas	2025	4	30	17	92	150	150	20
Visayas	2025	4	30	18	94	150	150	20
Visayas	2025	4	30	19	92	150	150	20
Visayas	2025	4	30	20	87	150	150	20
Visayas	2025	4	30	21	80	150	150	20
Visayas	2025	4	30	22	73	150	150	20
Visayas	2025	4	30	23	69	150	150	20
Visayas	2025	4	30	24	65	150	150	20
Visayas	2025	5	1	1	69	150	150	20
Visayas	2025	5	1	2	66	150	150	20
Visayas	2025	5	1	3	63	150	150	20
Visayas	2025	5	1	4	61	150	150	20
Visayas	2025	5	1	5	61	150	150	20
Visayas	2025	5	1	6	61	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	1	7	62	150	150	20
Visayas	2025	5	1	8	68	150	150	20
Visayas	2025	5	1	9	78	150	150	20
Visayas	2025	5	1	10	84	150	150	20
Visayas	2025	5	1	11	89	150	150	20
Visayas	2025	5	1	12	90	150	150	20
Visayas	2025	5	1	13	92	150	150	20
Visayas	2025	5	1	14	96	150	150	20
Visayas	2025	5	1	15	96	150	150	20
Visayas	2025	5	1	16	94	150	150	20
Visayas	2025	5	1	17	89	150	150	20
Visayas	2025	5	1	18	93	150	150	20
Visayas	2025	5	1	19	102	150	150	20
Visayas	2025	5	1	20	99	150	150	20
Visayas	2025	5	1	21	97	150	150	20
Visayas	2025	5	1	22	93	150	150	20
Visayas	2025	5	1	23	87	150	150	20
Visayas	2025	5	1	24	81	150	150	20
Visayas	2025	5	2	1	64	150	150	20
Visayas	2025	5	2	2	64	150	150	20
Visayas	2025	5	2	3	61	150	150	20
Visayas	2025	5	2	4	60	150	150	20
Visayas	2025	5	2	5	63	150	150	20
Visayas	2025	5	2	6	66	150	150	20
Visayas	2025	5	2	7	66	150	150	20
Visayas	2025	5	2	8	80	150	150	20
Visayas	2025	5	2	9	95	150	150	20
Visayas	2025	5	2	10	105	150	150	20
Visayas	2025	5	2	11	112	150	150	20
Visayas	2025	5	2	12	109	150	150	20
Visayas	2025	5	2	13	101	150	150	20
Visayas	2025	5	2	14	115	150	150	20
Visayas	2025	5	2	15	114	150	150	20
Visayas	2025	5	2	16	110	150	150	20
Visayas	2025	5	2	17	100	150	150	20
Visayas	2025	5	2	18	103	150	150	20
Visayas	2025	5	2	19	100	150	150	20
Visayas	2025	5	2	20	97	150	150	20
Visayas	2025	5	2	21	94	150	150	20
Visayas	2025	5	2	22	87	150	150	20
Visayas	2025	5	2	23	81	150	150	20
Visayas	2025	5	2	24	76	150	150	20
Visayas	2025	5	3	1	72	150	150	20
Visayas	2025	5	3	2	69	150	150	20
Visayas	2025	5	3	3	66	150	150	20
Visayas	2025	5	3	4	63	150	150	20
Visayas	2025	5	3	5	63	150	150	20
Visayas	2025	5	3	6	63	150	150	20
Visayas	2025	5	3	7	61	150	150	20
Visayas	2025	5	3	8	74	150	150	20
Visayas	2025	5	3	9	85	150	150	20
Visayas	2025	5	3	10	93	150	150	20
Visayas	2025	5	3	11	97	150	150	20
Visayas	2025	5	3	12	96	150	150	20
Visayas	2025	5	3	13	99	150	150	20
Visayas	2025	5	3	14	102	150	150	20
Visayas	2025	5	3	15	98	150	150	20
Visayas	2025	5	3	16	96	150	150	20
Visayas	2025	5	3	17	88	150	150	20
Visayas	2025	5	3	18	96	150	150	20
Visayas	2025	5	3	19	100	150	150	20
Visayas	2025	5	3	20	95	150	150	20
Visayas	2025	5	3	21	92	150	150	20
Visayas	2025	5	3	22	86	150	150	20
Visayas	2025	5	3	23	80	150	150	20
Visayas	2025	5	3	24	75	150	150	20
Visayas	2025	5	4	1	70	150	150	20
Visayas	2025	5	4	2	67	150	150	20
Visayas	2025	5	4	3	63	150	150	20
Visayas	2025	5	4	4	61	150	150	20
Visayas	2025	5	4	5	60	150	150	20
Visayas	2025	5	4	6	59	150	150	20
Visayas	2025	5	4	7	58	150	150	20
Visayas	2025	5	4	8	63	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	4	9	71	150	150	20
Visayas	2025	5	4	10	77	150	150	20
Visayas	2025	5	4	11	81	150	150	20
Visayas	2025	5	4	12	81	150	150	20
Visayas	2025	5	4	13	83	150	150	20
Visayas	2025	5	4	14	86	150	150	20
Visayas	2025	5	4	15	86	150	150	20
Visayas	2025	5	4	16	83	150	150	20
Visayas	2025	5	4	17	81	150	150	20
Visayas	2025	5	4	18	86	150	150	20
Visayas	2025	5	4	19	96	150	150	20
Visayas	2025	5	4	20	98	150	150	20
Visayas	2025	5	4	21	94	150	150	20
Visayas	2025	5	4	22	89	150	150	20
Visayas	2025	5	4	23	83	150	150	20
Visayas	2025	5	4	24	77	150	150	20
Visayas	2025	5	5	1	72	150	150	20
Visayas	2025	5	5	2	69	150	150	20
Visayas	2025	5	5	3	65	150	150	20
Visayas	2025	5	5	4	64	150	150	20
Visayas	2025	5	5	5	66	150	150	20
Visayas	2025	5	5	6	68	150	150	20
Visayas	2025	5	5	7	66	150	150	20
Visayas	2025	5	5	8	84	150	150	20
Visayas	2025	5	5	9	101	150	150	20
Visayas	2025	5	5	10	109	150	150	20
Visayas	2025	5	5	11	114	150	150	20
Visayas	2025	5	5	12	113	150	150	20
Visayas	2025	5	5	13	117	150	150	20
Visayas	2025	5	5	14	120	150	150	20
Visayas	2025	5	5	15	117	150	150	20
Visayas	2025	5	5	16	114	150	150	20
Visayas	2025	5	5	17	105	150	150	20
Visayas	2025	5	5	18	104	150	150	20
Visayas	2025	5	5	19	109	150	150	20
Visayas	2025	5	5	20	105	150	150	20
Visayas	2025	5	5	21	103	150	150	20
Visayas	2025	5	5	22	94	150	150	20
Visayas	2025	5	5	23	88	150	150	20
Visayas	2025	5	5	24	82	150	150	20
Visayas	2025	5	6	1	77	150	150	20
Visayas	2025	5	6	2	73	150	150	20
Visayas	2025	5	6	3	69	150	150	20
Visayas	2025	5	6	4	67	150	150	20
Visayas	2025	5	6	5	70	150	150	20
Visayas	2025	5	6	6	68	150	150	20
Visayas	2025	5	6	7	69	150	150	20
Visayas	2025	5	6	8	86	150	150	20
Visayas	2025	5	6	9	105	150	150	20
Visayas	2025	5	6	10	112	150	150	20
Visayas	2025	5	6	11	117	150	150	20
Visayas	2025	5	6	12	113	150	150	20
Visayas	2025	5	6	13	117	150	150	20
Visayas	2025	5	6	14	121	150	150	20
Visayas	2025	5	6	15	120	150	150	20
Visayas	2025	5	6	16	118	150	150	20
Visayas	2025	5	6	17	107	150	150	20
Visayas	2025	5	6	18	106	150	150	20
Visayas	2025	5	6	19	112	150	150	20
Visayas	2025	5	6	20	108	150	150	20
Visayas	2025	5	6	21	104	150	150	20
Visayas	2025	5	6	22	97	150	150	20
Visayas	2025	5	6	23	89	150	150	20
Visayas	2025	5	6	24	83	150	150	20
Visayas	2025	5	7	1	77	150	150	20
Visayas	2025	5	7	2	74	150	150	20
Visayas	2025	5	7	3	70	150	150	20
Visayas	2025	5	7	4	68	150	150	20
Visayas	2025	5	7	5	71	150	150	20
Visayas	2025	5	7	6	71	150	150	20
Visayas	2025	5	7	7	70	150	150	20
Visayas	2025	5	7	8	86	150	150	20
Visayas	2025	5	7	9	104	150	150	20
Visayas	2025	5	7	10	112	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	7	11	117	150	150	20
Visayas	2025	5	7	12	115	150	150	20
Visayas	2025	5	7	13	117	150	150	20
Visayas	2025	5	7	14	122	150	150	20
Visayas	2025	5	7	15	122	150	150	20
Visayas	2025	5	7	16	119	150	150	20
Visayas	2025	5	7	17	109	150	150	20
Visayas	2025	5	7	18	107	150	150	20
Visayas	2025	5	7	19	113	150	150	20
Visayas	2025	5	7	20	109	150	150	20
Visayas	2025	5	7	21	105	150	150	20
Visayas	2025	5	7	22	98	150	150	20
Visayas	2025	5	7	23	91	150	150	20
Visayas	2025	5	7	24	85	150	150	20
Visayas	2025	5	8	1	79	150	150	20
Visayas	2025	5	8	2	75	150	150	20
Visayas	2025	5	8	3	72	150	150	20
Visayas	2025	5	8	4	69	150	150	20
Visayas	2025	5	8	5	72	150	150	20
Visayas	2025	5	8	6	71	150	150	20
Visayas	2025	5	8	7	72	150	150	20
Visayas	2025	5	8	8	88	150	150	20
Visayas	2025	5	8	9	106	150	150	20
Visayas	2025	5	8	10	115	150	150	20
Visayas	2025	5	8	11	118	150	150	20
Visayas	2025	5	8	12	116	150	150	20
Visayas	2025	5	8	13	118	150	150	20
Visayas	2025	5	8	14	118	150	150	20
Visayas	2025	5	8	15	119	150	150	20
Visayas	2025	5	8	16	118	150	150	20
Visayas	2025	5	8	17	109	150	150	20
Visayas	2025	5	8	18	109	150	150	20
Visayas	2025	5	8	19	114	150	150	20
Visayas	2025	5	8	20	111	150	150	20
Visayas	2025	5	8	21	107	150	150	20
Visayas	2025	5	8	22	99	150	150	20
Visayas	2025	5	8	23	92	150	150	20
Visayas	2025	5	8	24	85	150	150	20
Visayas	2025	5	9	1	82	150	150	20
Visayas	2025	5	9	2	77	150	150	20
Visayas	2025	5	9	3	74	150	150	20
Visayas	2025	5	9	4	73	150	150	20
Visayas	2025	5	9	5	74	150	150	20
Visayas	2025	5	9	6	74	150	150	20
Visayas	2025	5	9	7	72	150	150	20
Visayas	2025	5	9	8	88	150	150	20
Visayas	2025	5	9	9	104	150	150	20
Visayas	2025	5	9	10	112	150	150	20
Visayas	2025	5	9	11	115	150	150	20
Visayas	2025	5	9	12	114	150	150	20
Visayas	2025	5	9	13	117	150	150	20
Visayas	2025	5	9	14	121	150	150	20
Visayas	2025	5	9	15	120	150	150	20
Visayas	2025	5	9	16	117	150	150	20
Visayas	2025	5	9	17	108	150	150	20
Visayas	2025	5	9	18	108	150	150	20
Visayas	2025	5	9	19	112	150	150	20
Visayas	2025	5	9	20	107	150	150	20
Visayas	2025	5	9	21	101	150	150	20
Visayas	2025	5	9	22	94	150	150	20
Visayas	2025	5	9	23	87	150	150	20
Visayas	2025	5	9	24	82	150	150	20
Visayas	2025	5	10	1	78	150	150	20
Visayas	2025	5	10	2	76	150	150	20
Visayas	2025	5	10	3	73	150	150	20
Visayas	2025	5	10	4	71	150	150	20
Visayas	2025	5	10	5	71	150	150	20
Visayas	2025	5	10	6	68	150	150	20
Visayas	2025	5	10	7	68	150	150	20
Visayas	2025	5	10	8	77	150	150	20
Visayas	2025	5	10	9	88	150	150	20
Visayas	2025	5	10	10	96	150	150	20
Visayas	2025	5	10	11	100	150	150	20
Visayas	2025	5	10	12	100	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	10	13	101	150	150	20
Visayas	2025	5	10	14	108	150	150	20
Visayas	2025	5	10	15	104	150	150	20
Visayas	2025	5	10	16	100	150	150	20
Visayas	2025	5	10	17	95	150	150	20
Visayas	2025	5	10	18	98	150	150	20
Visayas	2025	5	10	19	105	150	150	20
Visayas	2025	5	10	20	102	150	150	20
Visayas	2025	5	10	21	99	150	150	20
Visayas	2025	5	10	22	94	150	150	20
Visayas	2025	5	10	23	87	150	150	20
Visayas	2025	5	10	24	82	150	150	20
Visayas	2025	5	11	1	76	150	150	20
Visayas	2025	5	11	2	73	150	150	20
Visayas	2025	5	11	3	70	150	150	20
Visayas	2025	5	11	4	67	150	150	20
Visayas	2025	5	11	5	65	150	150	20
Visayas	2025	5	11	6	62	150	150	20
Visayas	2025	5	11	7	63	150	150	20
Visayas	2025	5	11	8	69	150	150	20
Visayas	2025	5	11	9	76	150	150	20
Visayas	2025	5	11	10	83	150	150	20
Visayas	2025	5	11	11	84	150	150	20
Visayas	2025	5	11	12	86	150	150	20
Visayas	2025	5	11	13	88	150	150	20
Visayas	2025	5	11	14	90	150	150	20
Visayas	2025	5	11	15	88	150	150	20
Visayas	2025	5	11	16	87	150	150	20
Visayas	2025	5	11	17	85	150	150	20
Visayas	2025	5	11	18	92	150	150	20
Visayas	2025	5	11	19	99	150	150	20
Visayas	2025	5	11	20	97	150	150	20
Visayas	2025	5	11	21	96	150	150	20
Visayas	2025	5	11	22	92	150	150	20
Visayas	2025	5	11	23	86	150	150	20
Visayas	2025	5	11	24	81	150	150	20
Visayas	2025	5	12	1	75	150	150	20
Visayas	2025	5	12	2	72	150	150	20
Visayas	2025	5	12	3	68	150	150	20
Visayas	2025	5	12	4	67	150	150	20
Visayas	2025	5	12	5	68	150	150	20
Visayas	2025	5	12	6	70	150	150	20
Visayas	2025	5	12	7	69	150	150	20
Visayas	2025	5	12	8	85	150	150	20
Visayas	2025	5	12	9	104	150	150	20
Visayas	2025	5	12	10	113	150	150	20
Visayas	2025	5	12	11	116	150	150	20
Visayas	2025	5	12	12	114	150	150	20
Visayas	2025	5	12	13	116	150	150	20
Visayas	2025	5	12	14	118	150	150	20
Visayas	2025	5	12	15	116	150	150	20
Visayas	2025	5	12	16	114	150	150	20
Visayas	2025	5	12	17	105	150	150	20
Visayas	2025	5	12	18	101	150	150	20
Visayas	2025	5	12	19	105	150	150	20
Visayas	2025	5	12	20	101	150	150	20
Visayas	2025	5	12	21	98	150	150	20
Visayas	2025	5	12	22	91	150	150	20
Visayas	2025	5	12	23	85	150	150	20
Visayas	2025	5	12	24	79	150	150	20
Visayas	2025	5	13	1	75	150	150	20
Visayas	2025	5	13	2	71	150	150	20
Visayas	2025	5	13	3	69	150	150	20
Visayas	2025	5	13	4	67	150	150	20
Visayas	2025	5	13	5	69	150	150	20
Visayas	2025	5	13	6	70	150	150	20
Visayas	2025	5	13	7	69	150	150	20
Visayas	2025	5	13	8	85	150	150	20
Visayas	2025	5	13	9	103	150	150	20
Visayas	2025	5	13	10	112	150	150	20
Visayas	2025	5	13	11	118	150	150	20
Visayas	2025	5	13	12	115	150	150	20
Visayas	2025	5	13	13	116	150	150	20
Visayas	2025	5	13	14	120	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	13	15	118	150	150	20
Visayas	2025	5	13	16	114	150	150	20
Visayas	2025	5	13	17	108	150	150	20
Visayas	2025	5	13	18	108	150	150	20
Visayas	2025	5	13	19	112	150	150	20
Visayas	2025	5	13	20	107	150	150	20
Visayas	2025	5	13	21	104	150	150	20
Visayas	2025	5	13	22	97	150	150	20
Visayas	2025	5	13	23	91	150	150	20
Visayas	2025	5	13	24	83	150	150	20
Visayas	2025	5	14	1	79	150	150	20
Visayas	2025	5	14	2	75	150	150	20
Visayas	2025	5	14	3	72	150	150	20
Visayas	2025	5	14	4	69	150	150	20
Visayas	2025	5	14	5	72	150	150	20
Visayas	2025	5	14	6	71	150	150	20
Visayas	2025	5	14	7	70	150	150	20
Visayas	2025	5	14	8	87	150	150	20
Visayas	2025	5	14	9	106	150	150	20
Visayas	2025	5	14	10	115	150	150	20
Visayas	2025	5	14	11	120	150	150	20
Visayas	2025	5	14	12	117	150	150	20
Visayas	2025	5	14	13	120	150	150	20
Visayas	2025	5	14	14	124	150	150	20
Visayas	2025	5	14	15	123	150	150	20
Visayas	2025	5	14	16	120	150	150	20
Visayas	2025	5	14	17	111	150	150	20
Visayas	2025	5	14	18	110	150	150	20
Visayas	2025	5	14	19	114	150	150	20
Visayas	2025	5	14	20	109	150	150	20
Visayas	2025	5	14	21	106	150	150	20
Visayas	2025	5	14	22	99	150	150	20
Visayas	2025	5	14	23	91	150	150	20
Visayas	2025	5	14	24	84	150	150	20
Visayas	2025	5	15	1	79	150	150	20
Visayas	2025	5	15	2	76	150	150	20
Visayas	2025	5	15	3	72	150	150	20
Visayas	2025	5	15	4	70	150	150	20
Visayas	2025	5	15	5	73	150	150	20
Visayas	2025	5	15	6	73	150	150	20
Visayas	2025	5	15	7	71	150	150	20
Visayas	2025	5	15	8	88	150	150	20
Visayas	2025	5	15	9	106	150	150	20
Visayas	2025	5	15	10	115	150	150	20
Visayas	2025	5	15	11	119	150	150	20
Visayas	2025	5	15	12	117	150	150	20
Visayas	2025	5	15	13	119	150	150	20
Visayas	2025	5	15	14	121	150	150	20
Visayas	2025	5	15	15	121	150	150	20
Visayas	2025	5	15	16	117	150	150	20
Visayas	2025	5	15	17	108	150	150	20
Visayas	2025	5	15	18	108	150	150	20
Visayas	2025	5	15	19	111	150	150	20
Visayas	2025	5	15	20	106	150	150	20
Visayas	2025	5	15	21	103	150	150	20
Visayas	2025	5	15	22	96	150	150	20
Visayas	2025	5	15	23	90	150	150	20
Visayas	2025	5	15	24	84	150	150	20
Visayas	2025	5	16	1	78	150	150	20
Visayas	2025	5	16	2	75	150	150	20
Visayas	2025	5	16	3	72	150	150	20
Visayas	2025	5	16	4	70	150	150	20
Visayas	2025	5	16	5	72	150	150	20
Visayas	2025	5	16	6	72	150	150	20
Visayas	2025	5	16	7	71	150	150	20
Visayas	2025	5	16	8	85	150	150	20
Visayas	2025	5	16	9	102	150	150	20
Visayas	2025	5	16	10	110	150	150	20
Visayas	2025	5	16	11	115	150	150	20
Visayas	2025	5	16	12	112	150	150	20
Visayas	2025	5	16	13	115	150	150	20
Visayas	2025	5	16	14	120	150	150	20
Visayas	2025	5	16	15	117	150	150	20
Visayas	2025	5	16	16	107	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	16	17	99	150	150	20
Visayas	2025	5	16	18	98	150	150	20
Visayas	2025	5	16	19	100	150	150	20
Visayas	2025	5	16	20	95	150	150	20
Visayas	2025	5	16	21	92	150	150	20
Visayas	2025	5	16	22	85	150	150	20
Visayas	2025	5	16	23	80	150	150	20
Visayas	2025	5	16	24	75	150	150	20
Visayas	2025	5	17	1	71	150	150	20
Visayas	2025	5	17	2	68	150	150	20
Visayas	2025	5	17	3	65	150	150	20
Visayas	2025	5	17	4	64	150	150	20
Visayas	2025	5	17	5	64	150	150	20
Visayas	2025	5	17	6	64	150	150	20
Visayas	2025	5	17	7	62	150	150	20
Visayas	2025	5	17	8	70	150	150	20
Visayas	2025	5	17	9	83	150	150	20
Visayas	2025	5	17	10	91	150	150	20
Visayas	2025	5	17	11	96	150	150	20
Visayas	2025	5	17	12	94	150	150	20
Visayas	2025	5	17	13	95	150	150	20
Visayas	2025	5	17	14	98	150	150	20
Visayas	2025	5	17	15	97	150	150	20
Visayas	2025	5	17	16	93	150	150	20
Visayas	2025	5	17	17	90	150	150	20
Visayas	2025	5	17	18	92	150	150	20
Visayas	2025	5	17	19	97	150	150	20
Visayas	2025	5	17	20	94	150	150	20
Visayas	2025	5	17	21	90	150	150	20
Visayas	2025	5	17	22	84	150	150	20
Visayas	2025	5	17	23	78	150	150	20
Visayas	2025	5	17	24	74	150	150	20
Visayas	2025	5	18	1	70	150	150	20
Visayas	2025	5	18	2	66	150	150	20
Visayas	2025	5	18	3	63	150	150	20
Visayas	2025	5	18	4	61	150	150	20
Visayas	2025	5	18	5	61	150	150	20
Visayas	2025	5	18	6	59	150	150	20
Visayas	2025	5	18	7	59	150	150	20
Visayas	2025	5	18	8	64	150	150	20
Visayas	2025	5	18	9	71	150	150	20
Visayas	2025	5	18	10	77	150	150	20
Visayas	2025	5	18	11	80	150	150	20
Visayas	2025	5	18	12	77	150	150	20
Visayas	2025	5	18	13	78	150	150	20
Visayas	2025	5	18	14	78	150	150	20
Visayas	2025	5	18	15	79	150	150	20
Visayas	2025	5	18	16	78	150	150	20
Visayas	2025	5	18	17	79	150	150	20
Visayas	2025	5	18	18	85	150	150	20
Visayas	2025	5	18	19	93	150	150	20
Visayas	2025	5	18	20	89	150	150	20
Visayas	2025	5	18	21	88	150	150	20
Visayas	2025	5	18	22	83	150	150	20
Visayas	2025	5	18	23	76	150	150	20
Visayas	2025	5	18	24	71	150	150	20
Visayas	2025	5	19	1	67	150	150	20
Visayas	2025	5	19	2	63	150	150	20
Visayas	2025	5	19	3	61	150	150	20
Visayas	2025	5	19	4	59	150	150	20
Visayas	2025	5	19	5	63	150	150	20
Visayas	2025	5	19	6	65	150	150	20
Visayas	2025	5	19	7	64	150	150	20
Visayas	2025	5	19	8	81	150	150	20
Visayas	2025	5	19	9	99	150	150	20
Visayas	2025	5	19	10	109	150	150	20
Visayas	2025	5	19	11	113	150	150	20
Visayas	2025	5	19	12	111	150	150	20
Visayas	2025	5	19	13	111	150	150	20
Visayas	2025	5	19	14	118	150	150	20
Visayas	2025	5	19	15	116	150	150	20
Visayas	2025	5	19	16	113	150	150	20
Visayas	2025	5	19	17	104	150	150	20
Visayas	2025	5	19	18	103	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	19	19	107	150	150	20
Visayas	2025	5	19	20	102	150	150	20
Visayas	2025	5	19	21	98	150	150	20
Visayas	2025	5	19	22	91	150	150	20
Visayas	2025	5	19	23	85	150	150	20
Visayas	2025	5	19	24	79	150	150	20
Visayas	2025	5	20	1	74	150	150	20
Visayas	2025	5	20	2	71	150	150	20
Visayas	2025	5	20	3	67	150	150	20
Visayas	2025	5	20	4	66	150	150	20
Visayas	2025	5	20	5	68	150	150	20
Visayas	2025	5	20	6	69	150	150	20
Visayas	2025	5	20	7	67	150	150	20
Visayas	2025	5	20	8	83	150	150	20
Visayas	2025	5	20	9	103	150	150	20
Visayas	2025	5	20	10	111	150	150	20
Visayas	2025	5	20	11	116	150	150	20
Visayas	2025	5	20	12	113	150	150	20
Visayas	2025	5	20	13	117	150	150	20
Visayas	2025	5	20	14	121	150	150	20
Visayas	2025	5	20	15	120	150	150	20
Visayas	2025	5	20	16	116	150	150	20
Visayas	2025	5	20	17	109	150	150	20
Visayas	2025	5	20	18	107	150	150	20
Visayas	2025	5	20	19	112	150	150	20
Visayas	2025	5	20	20	107	150	150	20
Visayas	2025	5	20	21	103	150	150	20
Visayas	2025	5	20	22	97	150	150	20
Visayas	2025	5	20	23	89	150	150	20
Visayas	2025	5	20	24	83	150	150	20
Visayas	2025	5	21	1	78	150	150	20
Visayas	2025	5	21	2	75	150	150	20
Visayas	2025	5	21	3	71	150	150	20
Visayas	2025	5	21	4	70	150	150	20
Visayas	2025	5	21	5	72	150	150	20
Visayas	2025	5	21	6	72	150	150	20
Visayas	2025	5	21	7	71	150	150	20
Visayas	2025	5	21	8	88	150	150	20
Visayas	2025	5	21	9	106	150	150	20
Visayas	2025	5	21	10	115	150	150	20
Visayas	2025	5	21	11	117	150	150	20
Visayas	2025	5	21	12	115	150	150	20
Visayas	2025	5	21	13	116	150	150	20
Visayas	2025	5	21	14	121	150	150	20
Visayas	2025	5	21	15	119	150	150	20
Visayas	2025	5	21	16	115	150	150	20
Visayas	2025	5	21	17	107	150	150	20
Visayas	2025	5	21	18	108	150	150	20
Visayas	2025	5	21	19	113	150	150	20
Visayas	2025	5	21	20	109	150	150	20
Visayas	2025	5	21	21	104	150	150	20
Visayas	2025	5	21	22	97	150	150	20
Visayas	2025	5	21	23	89	150	150	20
Visayas	2025	5	21	24	83	150	150	20
Visayas	2025	5	22	1	79	150	150	20
Visayas	2025	5	22	2	75	150	150	20
Visayas	2025	5	22	3	72	150	150	20
Visayas	2025	5	22	4	70	150	150	20
Visayas	2025	5	22	5	72	150	150	20
Visayas	2025	5	22	6	73	150	150	20
Visayas	2025	5	22	7	72	150	150	20
Visayas	2025	5	22	8	87	150	150	20
Visayas	2025	5	22	9	104	150	150	20
Visayas	2025	5	22	10	112	150	150	20
Visayas	2025	5	22	11	113	150	150	20
Visayas	2025	5	22	12	106	150	150	20
Visayas	2025	5	22	13	108	150	150	20
Visayas	2025	5	22	14	116	150	150	20
Visayas	2025	5	22	15	115	150	150	20
Visayas	2025	5	22	16	112	150	150	20
Visayas	2025	5	22	17	104	150	150	20
Visayas	2025	5	22	18	104	150	150	20
Visayas	2025	5	22	19	108	150	150	20
Visayas	2025	5	22	20	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	22	21	100	150	150	20
Visayas	2025	5	22	22	92	150	150	20
Visayas	2025	5	22	23	86	150	150	20
Visayas	2025	5	22	24	79	150	150	20
Visayas	2025	5	23	1	76	150	150	20
Visayas	2025	5	23	2	72	150	150	20
Visayas	2025	5	23	3	69	150	150	20
Visayas	2025	5	23	4	66	150	150	20
Visayas	2025	5	23	5	67	150	150	20
Visayas	2025	5	23	6	68	150	150	20
Visayas	2025	5	23	7	69	150	150	20
Visayas	2025	5	23	8	84	150	150	20
Visayas	2025	5	23	9	103	150	150	20
Visayas	2025	5	23	10	109	150	150	20
Visayas	2025	5	23	11	112	150	150	20
Visayas	2025	5	23	12	110	150	150	20
Visayas	2025	5	23	13	111	150	150	20
Visayas	2025	5	23	14	115	150	150	20
Visayas	2025	5	23	15	113	150	150	20
Visayas	2025	5	23	16	109	150	150	20
Visayas	2025	5	23	17	101	150	150	20
Visayas	2025	5	23	18	101	150	150	20
Visayas	2025	5	23	19	103	150	150	20
Visayas	2025	5	23	20	99	150	150	20
Visayas	2025	5	23	21	94	150	150	20
Visayas	2025	5	23	22	88	150	150	20
Visayas	2025	5	23	23	81	150	150	20
Visayas	2025	5	23	24	77	150	150	20
Visayas	2025	5	24	1	74	150	150	20
Visayas	2025	5	24	2	70	150	150	20
Visayas	2025	5	24	3	66	150	150	20
Visayas	2025	5	24	4	65	150	150	20
Visayas	2025	5	24	5	64	150	150	20
Visayas	2025	5	24	6	63	150	150	20
Visayas	2025	5	24	7	63	150	150	20
Visayas	2025	5	24	8	71	150	150	20
Visayas	2025	5	24	9	83	150	150	20
Visayas	2025	5	24	10	89	150	150	20
Visayas	2025	5	24	11	92	150	150	20
Visayas	2025	5	24	12	88	150	150	20
Visayas	2025	5	24	13	89	150	150	20
Visayas	2025	5	24	14	93	150	150	20
Visayas	2025	5	24	15	91	150	150	20
Visayas	2025	5	24	16	90	150	150	20
Visayas	2025	5	24	17	86	150	150	20
Visayas	2025	5	24	18	90	150	150	20
Visayas	2025	5	24	19	95	150	150	20
Visayas	2025	5	24	20	89	150	150	20
Visayas	2025	5	24	21	88	150	150	20
Visayas	2025	5	24	22	82	150	150	20
Visayas	2025	5	24	23	77	150	150	20
Visayas	2025	5	24	24	73	150	150	20
Visayas	2025	5	25	1	69	150	150	20
Visayas	2025	5	25	2	65	150	150	20
Visayas	2025	5	25	3	62	150	150	20
Visayas	2025	5	25	4	60	150	150	20
Visayas	2025	5	25	5	60	150	150	20
Visayas	2025	5	25	6	59	150	150	20
Visayas	2025	5	25	7	58	150	150	20
Visayas	2025	5	25	8	63	150	150	20
Visayas	2025	5	25	9	71	150	150	20
Visayas	2025	5	25	10	75	150	150	20
Visayas	2025	5	25	11	78	150	150	20
Visayas	2025	5	25	12	77	150	150	20
Visayas	2025	5	25	13	72	150	150	20
Visayas	2025	5	25	14	75	150	150	20
Visayas	2025	5	25	15	76	150	150	20
Visayas	2025	5	25	16	74	150	150	20
Visayas	2025	5	25	17	76	150	150	20
Visayas	2025	5	25	18	83	150	150	20
Visayas	2025	5	25	19	91	150	150	20
Visayas	2025	5	25	20	90	150	150	20
Visayas	2025	5	25	21	88	150	150	20
Visayas	2025	5	25	22	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	25	23	78	150	150	20
Visayas	2025	5	25	24	72	150	150	20
Visayas	2025	5	26	1	69	150	150	20
Visayas	2025	5	26	2	66	150	150	20
Visayas	2025	5	26	3	63	150	150	20
Visayas	2025	5	26	4	62	150	150	20
Visayas	2025	5	26	5	65	150	150	20
Visayas	2025	5	26	6	68	150	150	20
Visayas	2025	5	26	7	65	150	150	20
Visayas	2025	5	26	8	80	150	150	20
Visayas	2025	5	26	9	95	150	150	20
Visayas	2025	5	26	10	104	150	150	20
Visayas	2025	5	26	11	106	150	150	20
Visayas	2025	5	26	12	103	150	150	20
Visayas	2025	5	26	13	104	150	150	20
Visayas	2025	5	26	14	111	150	150	20
Visayas	2025	5	26	15	110	150	150	20
Visayas	2025	5	26	16	107	150	150	20
Visayas	2025	5	26	17	101	150	150	20
Visayas	2025	5	26	18	101	150	150	20
Visayas	2025	5	26	19	105	150	150	20
Visayas	2025	5	26	20	102	150	150	20
Visayas	2025	5	26	21	98	150	150	20
Visayas	2025	5	26	22	92	150	150	20
Visayas	2025	5	26	23	86	150	150	20
Visayas	2025	5	26	24	80	150	150	20
Visayas	2025	5	27	1	76	150	150	20
Visayas	2025	5	27	2	73	150	150	20
Visayas	2025	5	27	3	70	150	150	20
Visayas	2025	5	27	4	69	150	150	20
Visayas	2025	5	27	5	71	150	150	20
Visayas	2025	5	27	6	72	150	150	20
Visayas	2025	5	27	7	71	150	150	20
Visayas	2025	5	27	8	83	150	150	20
Visayas	2025	5	27	9	98	150	150	20
Visayas	2025	5	27	10	105	150	150	20
Visayas	2025	5	27	11	108	150	150	20
Visayas	2025	5	27	12	106	150	150	20
Visayas	2025	5	27	13	106	150	150	20
Visayas	2025	5	27	14	111	150	150	20
Visayas	2025	5	27	15	110	150	150	20
Visayas	2025	5	27	16	107	150	150	20
Visayas	2025	5	27	17	100	150	150	20
Visayas	2025	5	27	18	101	150	150	20
Visayas	2025	5	27	19	103	150	150	20
Visayas	2025	5	27	20	99	150	150	20
Visayas	2025	5	27	21	95	150	150	20
Visayas	2025	5	27	22	88	150	150	20
Visayas	2025	5	27	23	82	150	150	20
Visayas	2025	5	27	24	76	150	150	20
Visayas	2025	5	28	1	73	150	150	20
Visayas	2025	5	28	2	70	150	150	20
Visayas	2025	5	28	3	67	150	150	20
Visayas	2025	5	28	4	65	150	150	20
Visayas	2025	5	28	5	68	150	150	20
Visayas	2025	5	28	6	69	150	150	20
Visayas	2025	5	28	7	69	150	150	20
Visayas	2025	5	28	8	81	150	150	20
Visayas	2025	5	28	9	95	150	150	20
Visayas	2025	5	28	10	97	150	150	20
Visayas	2025	5	28	11	104	150	150	20
Visayas	2025	5	28	12	100	150	150	20
Visayas	2025	5	28	13	102	150	150	20
Visayas	2025	5	28	14	106	150	150	20
Visayas	2025	5	28	15	105	150	150	20
Visayas	2025	5	28	16	103	150	150	20
Visayas	2025	5	28	17	96	150	150	20
Visayas	2025	5	28	18	88	150	150	20
Visayas	2025	5	28	19	93	150	150	20
Visayas	2025	5	28	20	89	150	150	20
Visayas	2025	5	28	21	86	150	150	20
Visayas	2025	5	28	22	79	150	150	20
Visayas	2025	5	28	23	73	150	150	20
Visayas	2025	5	28	24	70	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	5	29	1	66	150	150	20
Visayas	2025	5	29	2	64	150	150	20
Visayas	2025	5	29	3	61	150	150	20
Visayas	2025	5	29	4	60	150	150	20
Visayas	2025	5	29	5	63	150	150	20
Visayas	2025	5	29	6	65	150	150	20
Visayas	2025	5	29	7	64	150	150	20
Visayas	2025	5	29	8	77	150	150	20
Visayas	2025	5	29	9	90	150	150	20
Visayas	2025	5	29	10	98	150	150	20
Visayas	2025	5	29	11	102	150	150	20
Visayas	2025	5	29	12	93	150	150	20
Visayas	2025	5	29	13	88	150	150	20
Visayas	2025	5	29	14	92	150	150	20
Visayas	2025	5	29	15	89	150	150	20
Visayas	2025	5	29	16	88	150	150	20
Visayas	2025	5	29	17	86	150	150	20
Visayas	2025	5	29	18	86	150	150	20
Visayas	2025	5	29	19	91	150	150	20
Visayas	2025	5	29	20	87	150	150	20
Visayas	2025	5	29	21	82	150	150	20
Visayas	2025	5	29	22	75	150	150	20
Visayas	2025	5	29	23	70	150	150	20
Visayas	2025	5	29	24	65	150	150	20
Visayas	2025	5	30	1	63	150	150	20
Visayas	2025	5	30	2	64	150	150	20
Visayas	2025	5	30	3	63	150	150	20
Visayas	2025	5	30	4	57	150	150	20
Visayas	2025	5	30	5	58	150	150	20
Visayas	2025	5	30	6	61	150	150	20
Visayas	2025	5	30	7	60	150	150	20
Visayas	2025	5	30	8	73	150	150	20
Visayas	2025	5	30	9	91	150	150	20
Visayas	2025	5	30	10	100	150	150	20
Visayas	2025	5	30	11	106	150	150	20
Visayas	2025	5	30	12	103	150	150	20
Visayas	2025	5	30	13	102	150	150	20
Visayas	2025	5	30	14	107	150	150	20
Visayas	2025	5	30	15	102	150	150	20
Visayas	2025	5	30	16	93	150	150	20
Visayas	2025	5	30	17	91	150	150	20
Visayas	2025	5	30	18	92	150	150	20
Visayas	2025	5	30	19	95	150	150	20
Visayas	2025	5	30	20	89	150	150	20
Visayas	2025	5	30	21	85	150	150	20
Visayas	2025	5	30	22	78	150	150	20
Visayas	2025	5	30	23	72	150	150	20
Visayas	2025	5	30	24	67	150	150	20
Visayas	2025	5	31	1	63	150	150	20
Visayas	2025	5	31	2	60	150	150	20
Visayas	2025	5	31	3	58	150	150	20
Visayas	2025	5	31	4	56	150	150	20
Visayas	2025	5	31	5	57	150	150	20
Visayas	2025	5	31	6	58	150	150	20
Visayas	2025	5	31	7	60	150	150	20
Visayas	2025	5	31	8	70	150	150	20
Visayas	2025	5	31	9	81	150	150	20
Visayas	2025	5	31	10	90	150	150	20
Visayas	2025	5	31	11	95	150	150	20
Visayas	2025	5	31	12	93	150	150	20
Visayas	2025	5	31	13	94	150	150	20
Visayas	2025	5	31	14	97	150	150	20
Visayas	2025	5	31	15	95	150	150	20
Visayas	2025	5	31	16	90	150	150	20
Visayas	2025	5	31	17	87	150	150	20
Visayas	2025	5	31	18	90	150	150	20
Visayas	2025	5	31	19	95	150	150	20
Visayas	2025	5	31	20	91	150	150	20
Visayas	2025	5	31	21	89	150	150	20
Visayas	2025	5	31	22	82	150	150	20
Visayas	2025	5	31	23	76	150	150	20
Visayas	2025	5	31	24	72	150	150	20
Visayas	2025	6	1	1	67	150	150	20
Visayas	2025	6	1	2	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	1	3	60	150	150	20
Visayas	2025	6	1	4	58	150	150	20
Visayas	2025	6	1	5	58	150	150	20
Visayas	2025	6	1	6	55	150	150	20
Visayas	2025	6	1	7	53	150	150	20
Visayas	2025	6	1	8	56	150	150	20
Visayas	2025	6	1	9	61	150	150	20
Visayas	2025	6	1	10	66	150	150	20
Visayas	2025	6	1	11	71	150	150	20
Visayas	2025	6	1	12	73	150	150	20
Visayas	2025	6	1	13	74	150	150	20
Visayas	2025	6	1	14	75	150	150	20
Visayas	2025	6	1	15	74	150	150	20
Visayas	2025	6	1	16	73	150	150	20
Visayas	2025	6	1	17	74	150	150	20
Visayas	2025	6	1	18	79	150	150	20
Visayas	2025	6	1	19	84	150	150	20
Visayas	2025	6	1	20	84	150	150	20
Visayas	2025	6	1	21	80	150	150	20
Visayas	2025	6	1	22	74	150	150	20
Visayas	2025	6	1	23	68	150	150	20
Visayas	2025	6	1	24	63	150	150	20
Visayas	2025	6	2	1	59	150	150	20
Visayas	2025	6	2	2	57	150	150	20
Visayas	2025	6	2	3	54	150	150	20
Visayas	2025	6	2	4	54	150	150	20
Visayas	2025	6	2	5	57	150	150	20
Visayas	2025	6	2	6	60	150	150	20
Visayas	2025	6	2	7	57	150	150	20
Visayas	2025	6	2	8	70	150	150	20
Visayas	2025	6	2	9	88	150	150	20
Visayas	2025	6	2	10	97	150	150	20
Visayas	2025	6	2	11	102	150	150	20
Visayas	2025	6	2	12	99	150	150	20
Visayas	2025	6	2	13	100	150	150	20
Visayas	2025	6	2	14	107	150	150	20
Visayas	2025	6	2	15	106	150	150	20
Visayas	2025	6	2	16	103	150	150	20
Visayas	2025	6	2	17	96	150	150	20
Visayas	2025	6	2	18	94	150	150	20
Visayas	2025	6	2	19	99	150	150	20
Visayas	2025	6	2	20	95	150	150	20
Visayas	2025	6	2	21	90	150	150	20
Visayas	2025	6	2	22	84	150	150	20
Visayas	2025	6	2	23	77	150	150	20
Visayas	2025	6	2	24	72	150	150	20
Visayas	2025	6	3	1	68	150	150	20
Visayas	2025	6	3	2	65	150	150	20
Visayas	2025	6	3	3	62	150	150	20
Visayas	2025	6	3	4	60	150	150	20
Visayas	2025	6	3	5	63	150	150	20
Visayas	2025	6	3	6	66	150	150	20
Visayas	2025	6	3	7	63	150	150	20
Visayas	2025	6	3	8	77	150	150	20
Visayas	2025	6	3	9	96	150	150	20
Visayas	2025	6	3	10	102	150	150	20
Visayas	2025	6	3	11	108	150	150	20
Visayas	2025	6	3	12	106	150	150	20
Visayas	2025	6	3	13	104	150	150	20
Visayas	2025	6	3	14	110	150	150	20
Visayas	2025	6	3	15	109	150	150	20
Visayas	2025	6	3	16	107	150	150	20
Visayas	2025	6	3	17	99	150	150	20
Visayas	2025	6	3	18	95	150	150	20
Visayas	2025	6	3	19	102	150	150	20
Visayas	2025	6	3	20	97	150	150	20
Visayas	2025	6	3	21	93	150	150	20
Visayas	2025	6	3	22	86	150	150	20
Visayas	2025	6	3	23	79	150	150	20
Visayas	2025	6	3	24	74	150	150	20
Visayas	2025	6	4	1	70	150	150	20
Visayas	2025	6	4	2	66	150	150	20
Visayas	2025	6	4	3	63	150	150	20
Visayas	2025	6	4	4	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	4	5	64	150	150	20
Visayas	2025	6	4	6	66	150	150	20
Visayas	2025	6	4	7	64	150	150	20
Visayas	2025	6	4	8	79	150	150	20
Visayas	2025	6	4	9	97	150	150	20
Visayas	2025	6	4	10	105	150	150	20
Visayas	2025	6	4	11	110	150	150	20
Visayas	2025	6	4	12	106	150	150	20
Visayas	2025	6	4	13	108	150	150	20
Visayas	2025	6	4	14	112	150	150	20
Visayas	2025	6	4	15	109	150	150	20
Visayas	2025	6	4	16	105	150	150	20
Visayas	2025	6	4	17	97	150	150	20
Visayas	2025	6	4	18	96	150	150	20
Visayas	2025	6	4	19	103	150	150	20
Visayas	2025	6	4	20	98	150	150	20
Visayas	2025	6	4	21	93	150	150	20
Visayas	2025	6	4	22	86	150	150	20
Visayas	2025	6	4	23	80	150	150	20
Visayas	2025	6	4	24	74	150	150	20
Visayas	2025	6	5	1	70	150	150	20
Visayas	2025	6	5	2	67	150	150	20
Visayas	2025	6	5	3	65	150	150	20
Visayas	2025	6	5	4	63	150	150	20
Visayas	2025	6	5	5	65	150	150	20
Visayas	2025	6	5	6	67	150	150	20
Visayas	2025	6	5	7	65	150	150	20
Visayas	2025	6	5	8	80	150	150	20
Visayas	2025	6	5	9	98	150	150	20
Visayas	2025	6	5	10	106	150	150	20
Visayas	2025	6	5	11	109	150	150	20
Visayas	2025	6	5	12	105	150	150	20
Visayas	2025	6	5	13	104	150	150	20
Visayas	2025	6	5	14	113	150	150	20
Visayas	2025	6	5	15	113	150	150	20
Visayas	2025	6	5	16	108	150	150	20
Visayas	2025	6	5	17	101	150	150	20
Visayas	2025	6	5	18	98	150	150	20
Visayas	2025	6	5	19	105	150	150	20
Visayas	2025	6	5	20	101	150	150	20
Visayas	2025	6	5	21	97	150	150	20
Visayas	2025	6	5	22	90	150	150	20
Visayas	2025	6	5	23	84	150	150	20
Visayas	2025	6	5	24	77	150	150	20
Visayas	2025	6	6	1	73	150	150	20
Visayas	2025	6	6	2	70	150	150	20
Visayas	2025	6	6	3	66	150	150	20
Visayas	2025	6	6	4	64	150	150	20
Visayas	2025	6	6	5	67	150	150	20
Visayas	2025	6	6	6	67	150	150	20
Visayas	2025	6	6	7	66	150	150	20
Visayas	2025	6	6	8	81	150	150	20
Visayas	2025	6	6	9	97	150	150	20
Visayas	2025	6	6	10	107	150	150	20
Visayas	2025	6	6	11	111	150	150	20
Visayas	2025	6	6	12	107	150	150	20
Visayas	2025	6	6	13	105	150	150	20
Visayas	2025	6	6	14	114	150	150	20
Visayas	2025	6	6	15	111	150	150	20
Visayas	2025	6	6	16	106	150	150	20
Visayas	2025	6	6	17	99	150	150	20
Visayas	2025	6	6	18	97	150	150	20
Visayas	2025	6	6	19	103	150	150	20
Visayas	2025	6	6	20	99	150	150	20
Visayas	2025	6	6	21	95	150	150	20
Visayas	2025	6	6	22	88	150	150	20
Visayas	2025	6	6	23	81	150	150	20
Visayas	2025	6	6	24	76	150	150	20
Visayas	2025	6	7	1	73	150	150	20
Visayas	2025	6	7	2	69	150	150	20
Visayas	2025	6	7	3	67	150	150	20
Visayas	2025	6	7	4	65	150	150	20
Visayas	2025	6	7	5	65	150	150	20
Visayas	2025	6	7	6	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	7	7	61	150	150	20
Visayas	2025	6	7	8	70	150	150	20
Visayas	2025	6	7	9	81	150	150	20
Visayas	2025	6	7	10	88	150	150	20
Visayas	2025	6	7	11	92	150	150	20
Visayas	2025	6	7	12	88	150	150	20
Visayas	2025	6	7	13	87	150	150	20
Visayas	2025	6	7	14	91	150	150	20
Visayas	2025	6	7	15	89	150	150	20
Visayas	2025	6	7	16	86	150	150	20
Visayas	2025	6	7	17	81	150	150	20
Visayas	2025	6	7	18	86	150	150	20
Visayas	2025	6	7	19	93	150	150	20
Visayas	2025	6	7	20	89	150	150	20
Visayas	2025	6	7	21	87	150	150	20
Visayas	2025	6	7	22	81	150	150	20
Visayas	2025	6	7	23	76	150	150	20
Visayas	2025	6	7	24	72	150	150	20
Visayas	2025	6	8	1	68	150	150	20
Visayas	2025	6	8	2	64	150	150	20
Visayas	2025	6	8	3	62	150	150	20
Visayas	2025	6	8	4	59	150	150	20
Visayas	2025	6	8	5	59	150	150	20
Visayas	2025	6	8	6	57	150	150	20
Visayas	2025	6	8	7	54	150	150	20
Visayas	2025	6	8	8	57	150	150	20
Visayas	2025	6	8	9	65	150	150	20
Visayas	2025	6	8	10	70	150	150	20
Visayas	2025	6	8	11	74	150	150	20
Visayas	2025	6	8	12	74	150	150	20
Visayas	2025	6	8	13	77	150	150	20
Visayas	2025	6	8	14	80	150	150	20
Visayas	2025	6	8	15	79	150	150	20
Visayas	2025	6	8	16	78	150	150	20
Visayas	2025	6	8	17	76	150	150	20
Visayas	2025	6	8	18	85	150	150	20
Visayas	2025	6	8	19	93	150	150	20
Visayas	2025	6	8	20	89	150	150	20
Visayas	2025	6	8	21	87	150	150	20
Visayas	2025	6	8	22	83	150	150	20
Visayas	2025	6	8	23	77	150	150	20
Visayas	2025	6	8	24	72	150	150	20
Visayas	2025	6	9	1	59	150	150	20
Visayas	2025	6	9	2	57	150	150	20
Visayas	2025	6	9	3	54	150	150	20
Visayas	2025	6	9	4	54	150	150	20
Visayas	2025	6	9	5	57	150	150	20
Visayas	2025	6	9	6	60	150	150	20
Visayas	2025	6	9	7	57	150	150	20
Visayas	2025	6	9	8	70	150	150	20
Visayas	2025	6	9	9	88	150	150	20
Visayas	2025	6	9	10	97	150	150	20
Visayas	2025	6	9	11	102	150	150	20
Visayas	2025	6	9	12	99	150	150	20
Visayas	2025	6	9	13	100	150	150	20
Visayas	2025	6	9	14	107	150	150	20
Visayas	2025	6	9	15	106	150	150	20
Visayas	2025	6	9	16	103	150	150	20
Visayas	2025	6	9	17	96	150	150	20
Visayas	2025	6	9	18	94	150	150	20
Visayas	2025	6	9	19	99	150	150	20
Visayas	2025	6	9	20	95	150	150	20
Visayas	2025	6	9	21	90	150	150	20
Visayas	2025	6	9	22	84	150	150	20
Visayas	2025	6	9	23	77	150	150	20
Visayas	2025	6	9	24	72	150	150	20
Visayas	2025	6	10	1	72	150	150	20
Visayas	2025	6	10	2	68	150	150	20
Visayas	2025	6	10	3	65	150	150	20
Visayas	2025	6	10	4	63	150	150	20
Visayas	2025	6	10	5	66	150	150	20
Visayas	2025	6	10	6	67	150	150	20
Visayas	2025	6	10	7	67	150	150	20
Visayas	2025	6	10	8	84	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	10	9	102	150	150	20
Visayas	2025	6	10	10	110	150	150	20
Visayas	2025	6	10	11	116	150	150	20
Visayas	2025	6	10	12	112	150	150	20
Visayas	2025	6	10	13	114	150	150	20
Visayas	2025	6	10	14	119	150	150	20
Visayas	2025	6	10	15	120	150	150	20
Visayas	2025	6	10	16	118	150	150	20
Visayas	2025	6	10	17	110	150	150	20
Visayas	2025	6	10	18	104	150	150	20
Visayas	2025	6	10	19	111	150	150	20
Visayas	2025	6	10	20	107	150	150	20
Visayas	2025	6	10	21	104	150	150	20
Visayas	2025	6	10	22	97	150	150	20
Visayas	2025	6	10	23	89	150	150	20
Visayas	2025	6	10	24	83	150	150	20
Visayas	2025	6	11	1	78	150	150	20
Visayas	2025	6	11	2	75	150	150	20
Visayas	2025	6	11	3	72	150	150	20
Visayas	2025	6	11	4	69	150	150	20
Visayas	2025	6	11	5	71	150	150	20
Visayas	2025	6	11	6	72	150	150	20
Visayas	2025	6	11	7	70	150	150	20
Visayas	2025	6	11	8	87	150	150	20
Visayas	2025	6	11	9	106	150	150	20
Visayas	2025	6	11	10	113	150	150	20
Visayas	2025	6	11	11	118	150	150	20
Visayas	2025	6	11	12	116	150	150	20
Visayas	2025	6	11	13	116	150	150	20
Visayas	2025	6	11	14	120	150	150	20
Visayas	2025	6	11	15	119	150	150	20
Visayas	2025	6	11	16	115	150	150	20
Visayas	2025	6	11	17	98	150	150	20
Visayas	2025	6	11	18	102	150	150	20
Visayas	2025	6	11	19	105	150	150	20
Visayas	2025	6	11	20	100	150	150	20
Visayas	2025	6	11	21	94	150	150	20
Visayas	2025	6	11	22	87	150	150	20
Visayas	2025	6	11	23	81	150	150	20
Visayas	2025	6	11	24	75	150	150	20
Visayas	2025	6	12	1	68	150	150	20
Visayas	2025	6	12	2	64	150	150	20
Visayas	2025	6	12	3	62	150	150	20
Visayas	2025	6	12	4	60	150	150	20
Visayas	2025	6	12	5	60	150	150	20
Visayas	2025	6	12	6	60	150	150	20
Visayas	2025	6	12	7	61	150	150	20
Visayas	2025	6	12	8	69	150	150	20
Visayas	2025	6	12	9	77	150	150	20
Visayas	2025	6	12	10	86	150	150	20
Visayas	2025	6	12	11	90	150	150	20
Visayas	2025	6	12	12	90	150	150	20
Visayas	2025	6	12	13	92	150	150	20
Visayas	2025	6	12	14	92	150	150	20
Visayas	2025	6	12	15	95	150	150	20
Visayas	2025	6	12	16	90	150	150	20
Visayas	2025	6	12	17	87	150	150	20
Visayas	2025	6	12	18	91	150	150	20
Visayas	2025	6	12	19	101	150	150	20
Visayas	2025	6	12	20	98	150	150	20
Visayas	2025	6	12	21	95	150	150	20
Visayas	2025	6	12	22	89	150	150	20
Visayas	2025	6	12	23	82	150	150	20
Visayas	2025	6	12	24	76	150	150	20
Visayas	2025	6	13	1	72	150	150	20
Visayas	2025	6	13	2	68	150	150	20
Visayas	2025	6	13	3	65	150	150	20
Visayas	2025	6	13	4	64	150	150	20
Visayas	2025	6	13	5	66	150	150	20
Visayas	2025	6	13	6	68	150	150	20
Visayas	2025	6	13	7	67	150	150	20
Visayas	2025	6	13	8	80	150	150	20
Visayas	2025	6	13	9	97	150	150	20
Visayas	2025	6	13	10	106	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	13	11	110	150	150	20
Visayas	2025	6	13	12	109	150	150	20
Visayas	2025	6	13	13	110	150	150	20
Visayas	2025	6	13	14	115	150	150	20
Visayas	2025	6	13	15	113	150	150	20
Visayas	2025	6	13	16	108	150	150	20
Visayas	2025	6	13	17	100	150	150	20
Visayas	2025	6	13	18	99	150	150	20
Visayas	2025	6	13	19	105	150	150	20
Visayas	2025	6	13	20	102	150	150	20
Visayas	2025	6	13	21	97	150	150	20
Visayas	2025	6	13	22	91	150	150	20
Visayas	2025	6	13	23	83	150	150	20
Visayas	2025	6	13	24	79	150	150	20
Visayas	2025	6	14	1	74	150	150	20
Visayas	2025	6	14	2	70	150	150	20
Visayas	2025	6	14	3	67	150	150	20
Visayas	2025	6	14	4	65	150	150	20
Visayas	2025	6	14	5	64	150	150	20
Visayas	2025	6	14	6	63	150	150	20
Visayas	2025	6	14	7	62	150	150	20
Visayas	2025	6	14	8	72	150	150	20
Visayas	2025	6	14	9	85	150	150	20
Visayas	2025	6	14	10	92	150	150	20
Visayas	2025	6	14	11	98	150	150	20
Visayas	2025	6	14	12	96	150	150	20
Visayas	2025	6	14	13	95	150	150	20
Visayas	2025	6	14	14	102	150	150	20
Visayas	2025	6	14	15	101	150	150	20
Visayas	2025	6	14	16	98	150	150	20
Visayas	2025	6	14	17	94	150	150	20
Visayas	2025	6	14	18	95	150	150	20
Visayas	2025	6	14	19	104	150	150	20
Visayas	2025	6	14	20	101	150	150	20
Visayas	2025	6	14	21	98	150	150	20
Visayas	2025	6	14	22	91	150	150	20
Visayas	2025	6	14	23	86	150	150	20
Visayas	2025	6	14	24	80	150	150	20
Visayas	2025	6	15	1	76	150	150	20
Visayas	2025	6	15	2	72	150	150	20
Visayas	2025	6	15	3	69	150	150	20
Visayas	2025	6	15	4	66	150	150	20
Visayas	2025	6	15	5	65	150	150	20
Visayas	2025	6	15	6	60	150	150	20
Visayas	2025	6	15	7	58	150	150	20
Visayas	2025	6	15	8	62	150	150	20
Visayas	2025	6	15	9	70	150	150	20
Visayas	2025	6	15	10	75	150	150	20
Visayas	2025	6	15	11	80	150	150	20
Visayas	2025	6	15	12	80	150	150	20
Visayas	2025	6	15	13	80	150	150	20
Visayas	2025	6	15	14	82	150	150	20
Visayas	2025	6	15	15	82	150	150	20
Visayas	2025	6	15	16	80	150	150	20
Visayas	2025	6	15	17	78	150	150	20
Visayas	2025	6	15	18	84	150	150	20
Visayas	2025	6	15	19	94	150	150	20
Visayas	2025	6	15	20	90	150	150	20
Visayas	2025	6	15	21	89	150	150	20
Visayas	2025	6	15	22	83	150	150	20
Visayas	2025	6	15	23	78	150	150	20
Visayas	2025	6	15	24	73	150	150	20
Visayas	2025	6	16	1	68	150	150	20
Visayas	2025	6	16	2	65	150	150	20
Visayas	2025	6	16	3	63	150	150	20
Visayas	2025	6	16	4	62	150	150	20
Visayas	2025	6	16	5	65	150	150	20
Visayas	2025	6	16	6	67	150	150	20
Visayas	2025	6	16	7	66	150	150	20
Visayas	2025	6	16	8	80	150	150	20
Visayas	2025	6	16	9	98	150	150	20
Visayas	2025	6	16	10	106	150	150	20
Visayas	2025	6	16	11	112	150	150	20
Visayas	2025	6	16	12	108	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	16	13	110	150	150	20
Visayas	2025	6	16	14	117	150	150	20
Visayas	2025	6	16	15	110	150	150	20
Visayas	2025	6	16	16	106	150	150	20
Visayas	2025	6	16	17	101	150	150	20
Visayas	2025	6	16	18	99	150	150	20
Visayas	2025	6	16	19	104	150	150	20
Visayas	2025	6	16	20	100	150	150	20
Visayas	2025	6	16	21	96	150	150	20
Visayas	2025	6	16	22	88	150	150	20
Visayas	2025	6	16	23	82	150	150	20
Visayas	2025	6	16	24	76	150	150	20
Visayas	2025	6	17	1	73	150	150	20
Visayas	2025	6	17	2	70	150	150	20
Visayas	2025	6	17	3	66	150	150	20
Visayas	2025	6	17	4	65	150	150	20
Visayas	2025	6	17	5	67	150	150	20
Visayas	2025	6	17	6	70	150	150	20
Visayas	2025	6	17	7	68	150	150	20
Visayas	2025	6	17	8	80	150	150	20
Visayas	2025	6	17	9	95	150	150	20
Visayas	2025	6	17	10	105	150	150	20
Visayas	2025	6	17	11	110	150	150	20
Visayas	2025	6	17	12	108	150	150	20
Visayas	2025	6	17	13	109	150	150	20
Visayas	2025	6	17	14	115	150	150	20
Visayas	2025	6	17	15	113	150	150	20
Visayas	2025	6	17	16	110	150	150	20
Visayas	2025	6	17	17	102	150	150	20
Visayas	2025	6	17	18	99	150	150	20
Visayas	2025	6	17	19	105	150	150	20
Visayas	2025	6	17	20	100	150	150	20
Visayas	2025	6	17	21	95	150	150	20
Visayas	2025	6	17	22	89	150	150	20
Visayas	2025	6	17	23	82	150	150	20
Visayas	2025	6	17	24	75	150	150	20
Visayas	2025	6	18	1	71	150	150	20
Visayas	2025	6	18	2	69	150	150	20
Visayas	2025	6	18	3	66	150	150	20
Visayas	2025	6	18	4	65	150	150	20
Visayas	2025	6	18	5	67	150	150	20
Visayas	2025	6	18	6	69	150	150	20
Visayas	2025	6	18	7	68	150	150	20
Visayas	2025	6	18	8	82	150	150	20
Visayas	2025	6	18	9	99	150	150	20
Visayas	2025	6	18	10	107	150	150	20
Visayas	2025	6	18	11	111	150	150	20
Visayas	2025	6	18	12	108	150	150	20
Visayas	2025	6	18	13	109	150	150	20
Visayas	2025	6	18	14	115	150	150	20
Visayas	2025	6	18	15	114	150	150	20
Visayas	2025	6	18	16	111	150	150	20
Visayas	2025	6	18	17	103	150	150	20
Visayas	2025	6	18	18	101	150	150	20
Visayas	2025	6	18	19	107	150	150	20
Visayas	2025	6	18	20	102	150	150	20
Visayas	2025	6	18	21	97	150	150	20
Visayas	2025	6	18	22	90	150	150	20
Visayas	2025	6	18	23	82	150	150	20
Visayas	2025	6	18	24	76	150	150	20
Visayas	2025	6	19	1	72	150	150	20
Visayas	2025	6	19	2	69	150	150	20
Visayas	2025	6	19	3	65	150	150	20
Visayas	2025	6	19	4	64	150	150	20
Visayas	2025	6	19	5	65	150	150	20
Visayas	2025	6	19	6	68	150	150	20
Visayas	2025	6	19	7	67	150	150	20
Visayas	2025	6	19	8	78	150	150	20
Visayas	2025	6	19	9	91	150	150	20
Visayas	2025	6	19	10	98	150	150	20
Visayas	2025	6	19	11	101	150	150	20
Visayas	2025	6	19	12	97	150	150	20
Visayas	2025	6	19	13	96	150	150	20
Visayas	2025	6	19	14	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	19	15	102	150	150	20
Visayas	2025	6	19	16	99	150	150	20
Visayas	2025	6	19	17	93	150	150	20
Visayas	2025	6	19	18	94	150	150	20
Visayas	2025	6	19	19	98	150	150	20
Visayas	2025	6	19	20	93	150	150	20
Visayas	2025	6	19	21	89	150	150	20
Visayas	2025	6	19	22	82	150	150	20
Visayas	2025	6	19	23	76	150	150	20
Visayas	2025	6	19	24	72	150	150	20
Visayas	2025	6	20	1	68	150	150	20
Visayas	2025	6	20	2	66	150	150	20
Visayas	2025	6	20	3	62	150	150	20
Visayas	2025	6	20	4	61	150	150	20
Visayas	2025	6	20	5	63	150	150	20
Visayas	2025	6	20	6	66	150	150	20
Visayas	2025	6	20	7	65	150	150	20
Visayas	2025	6	20	8	78	150	150	20
Visayas	2025	6	20	9	93	150	150	20
Visayas	2025	6	20	10	102	150	150	20
Visayas	2025	6	20	11	109	150	150	20
Visayas	2025	6	20	12	107	150	150	20
Visayas	2025	6	20	13	108	150	150	20
Visayas	2025	6	20	14	114	150	150	20
Visayas	2025	6	20	15	111	150	150	20
Visayas	2025	6	20	16	106	150	150	20
Visayas	2025	6	20	17	97	150	150	20
Visayas	2025	6	20	18	97	150	150	20
Visayas	2025	6	20	19	104	150	150	20
Visayas	2025	6	20	20	98	150	150	20
Visayas	2025	6	20	21	96	150	150	20
Visayas	2025	6	20	22	89	150	150	20
Visayas	2025	6	20	23	81	150	150	20
Visayas	2025	6	20	24	76	150	150	20
Visayas	2025	6	21	1	72	150	150	20
Visayas	2025	6	21	2	68	150	150	20
Visayas	2025	6	21	3	65	150	150	20
Visayas	2025	6	21	4	62	150	150	20
Visayas	2025	6	21	5	63	150	150	20
Visayas	2025	6	21	6	62	150	150	20
Visayas	2025	6	21	7	63	150	150	20
Visayas	2025	6	21	8	73	150	150	20
Visayas	2025	6	21	9	84	150	150	20
Visayas	2025	6	21	10	91	150	150	20
Visayas	2025	6	21	11	94	150	150	20
Visayas	2025	6	21	12	90	150	150	20
Visayas	2025	6	21	13	88	150	150	20
Visayas	2025	6	21	14	89	150	150	20
Visayas	2025	6	21	15	88	150	150	20
Visayas	2025	6	21	16	85	150	150	20
Visayas	2025	6	21	17	83	150	150	20
Visayas	2025	6	21	18	85	150	150	20
Visayas	2025	6	21	19	94	150	150	20
Visayas	2025	6	21	20	91	150	150	20
Visayas	2025	6	21	21	87	150	150	20
Visayas	2025	6	21	22	80	150	150	20
Visayas	2025	6	21	23	75	150	150	20
Visayas	2025	6	21	24	70	150	150	20
Visayas	2025	6	22	1	66	150	150	20
Visayas	2025	6	22	2	62	150	150	20
Visayas	2025	6	22	3	60	150	150	20
Visayas	2025	6	22	4	58	150	150	20
Visayas	2025	6	22	5	57	150	150	20
Visayas	2025	6	22	6	57	150	150	20
Visayas	2025	6	22	7	56	150	150	20
Visayas	2025	6	22	8	59	150	150	20
Visayas	2025	6	22	9	67	150	150	20
Visayas	2025	6	22	10	71	150	150	20
Visayas	2025	6	22	11	74	150	150	20
Visayas	2025	6	22	12	75	150	150	20
Visayas	2025	6	22	13	75	150	150	20
Visayas	2025	6	22	14	76	150	150	20
Visayas	2025	6	22	15	74	150	150	20
Visayas	2025	6	22	16	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	22	17	73	150	150	20
Visayas	2025	6	22	18	79	150	150	20
Visayas	2025	6	22	19	86	150	150	20
Visayas	2025	6	22	20	84	150	150	20
Visayas	2025	6	22	21	82	150	150	20
Visayas	2025	6	22	22	76	150	150	20
Visayas	2025	6	22	23	70	150	150	20
Visayas	2025	6	22	24	65	150	150	20
Visayas	2025	6	23	1	60	150	150	20
Visayas	2025	6	23	2	58	150	150	20
Visayas	2025	6	23	3	56	150	150	20
Visayas	2025	6	23	4	55	150	150	20
Visayas	2025	6	23	5	57	150	150	20
Visayas	2025	6	23	6	61	150	150	20
Visayas	2025	6	23	7	61	150	150	20
Visayas	2025	6	23	8	75	150	150	20
Visayas	2025	6	23	9	92	150	150	20
Visayas	2025	6	23	10	102	150	150	20
Visayas	2025	6	23	11	105	150	150	20
Visayas	2025	6	23	12	102	150	150	20
Visayas	2025	6	23	13	102	150	150	20
Visayas	2025	6	23	14	109	150	150	20
Visayas	2025	6	23	15	109	150	150	20
Visayas	2025	6	23	16	104	150	150	20
Visayas	2025	6	23	17	96	150	150	20
Visayas	2025	6	23	18	92	150	150	20
Visayas	2025	6	23	19	100	150	150	20
Visayas	2025	6	23	20	95	150	150	20
Visayas	2025	6	23	21	91	150	150	20
Visayas	2025	6	23	22	84	150	150	20
Visayas	2025	6	23	23	78	150	150	20
Visayas	2025	6	23	24	72	150	150	20
Visayas	2025	6	24	1	69	150	150	20
Visayas	2025	6	24	2	65	150	150	20
Visayas	2025	6	24	3	62	150	150	20
Visayas	2025	6	24	4	61	150	150	20
Visayas	2025	6	24	5	63	150	150	20
Visayas	2025	6	24	6	66	150	150	20
Visayas	2025	6	24	7	66	150	150	20
Visayas	2025	6	24	8	81	150	150	20
Visayas	2025	6	24	9	99	150	150	20
Visayas	2025	6	24	10	103	150	150	20
Visayas	2025	6	24	11	110	150	150	20
Visayas	2025	6	24	12	105	150	150	20
Visayas	2025	6	24	13	106	150	150	20
Visayas	2025	6	24	14	111	150	150	20
Visayas	2025	6	24	15	110	150	150	20
Visayas	2025	6	24	16	105	150	150	20
Visayas	2025	6	24	17	101	150	150	20
Visayas	2025	6	24	18	98	150	150	20
Visayas	2025	6	24	19	102	150	150	20
Visayas	2025	6	24	20	98	150	150	20
Visayas	2025	6	24	21	92	150	150	20
Visayas	2025	6	24	22	85	150	150	20
Visayas	2025	6	24	23	79	150	150	20
Visayas	2025	6	24	24	74	150	150	20
Visayas	2025	6	25	1	67	150	150	20
Visayas	2025	6	25	2	65	150	150	20
Visayas	2025	6	25	3	62	150	150	20
Visayas	2025	6	25	4	60	150	150	20
Visayas	2025	6	25	5	61	150	150	20
Visayas	2025	6	25	6	59	150	150	20
Visayas	2025	6	25	7	62	150	150	20
Visayas	2025	6	25	8	69	150	150	20
Visayas	2025	6	25	9	78	150	150	20
Visayas	2025	6	25	10	85	150	150	20
Visayas	2025	6	25	11	89	150	150	20
Visayas	2025	6	25	12	89	150	150	20
Visayas	2025	6	25	13	91	150	150	20
Visayas	2025	6	25	14	95	150	150	20
Visayas	2025	6	25	15	95	150	150	20
Visayas	2025	6	25	16	91	150	150	20
Visayas	2025	6	25	17	89	150	150	20
Visayas	2025	6	25	18	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	25	19	100	150	150	20
Visayas	2025	6	25	20	95	150	150	20
Visayas	2025	6	25	21	92	150	150	20
Visayas	2025	6	25	22	85	150	150	20
Visayas	2025	6	25	23	79	150	150	20
Visayas	2025	6	25	24	74	150	150	20
Visayas	2025	6	26	1	69	150	150	20
Visayas	2025	6	26	2	66	150	150	20
Visayas	2025	6	26	3	63	150	150	20
Visayas	2025	6	26	4	61	150	150	20
Visayas	2025	6	26	5	64	150	150	20
Visayas	2025	6	26	6	66	150	150	20
Visayas	2025	6	26	7	65	150	150	20
Visayas	2025	6	26	8	78	150	150	20
Visayas	2025	6	26	9	96	150	150	20
Visayas	2025	6	26	10	104	150	150	20
Visayas	2025	6	26	11	108	150	150	20
Visayas	2025	6	26	12	105	150	150	20
Visayas	2025	6	26	13	105	150	150	20
Visayas	2025	6	26	14	110	150	150	20
Visayas	2025	6	26	15	108	150	150	20
Visayas	2025	6	26	16	106	150	150	20
Visayas	2025	6	26	17	98	150	150	20
Visayas	2025	6	26	18	96	150	150	20
Visayas	2025	6	26	19	98	150	150	20
Visayas	2025	6	26	20	94	150	150	20
Visayas	2025	6	26	21	90	150	150	20
Visayas	2025	6	26	22	84	150	150	20
Visayas	2025	6	26	23	77	150	150	20
Visayas	2025	6	26	24	72	150	150	20
Visayas	2025	6	27	1	68	150	150	20
Visayas	2025	6	27	2	65	150	150	20
Visayas	2025	6	27	3	63	150	150	20
Visayas	2025	6	27	4	61	150	150	20
Visayas	2025	6	27	5	63	150	150	20
Visayas	2025	6	27	6	65	150	150	20
Visayas	2025	6	27	7	65	150	150	20
Visayas	2025	6	27	8	78	150	150	20
Visayas	2025	6	27	9	94	150	150	20
Visayas	2025	6	27	10	103	150	150	20
Visayas	2025	6	27	11	105	150	150	20
Visayas	2025	6	27	12	103	150	150	20
Visayas	2025	6	27	13	105	150	150	20
Visayas	2025	6	27	14	110	150	150	20
Visayas	2025	6	27	15	109	150	150	20
Visayas	2025	6	27	16	105	150	150	20
Visayas	2025	6	27	17	97	150	150	20
Visayas	2025	6	27	18	97	150	150	20
Visayas	2025	6	27	19	102	150	150	20
Visayas	2025	6	27	20	98	150	150	20
Visayas	2025	6	27	21	95	150	150	20
Visayas	2025	6	27	22	88	150	150	20
Visayas	2025	6	27	23	81	150	150	20
Visayas	2025	6	27	24	75	150	150	20
Visayas	2025	6	28	1	71	150	150	20
Visayas	2025	6	28	2	67	150	150	20
Visayas	2025	6	28	3	63	150	150	20
Visayas	2025	6	28	4	61	150	150	20
Visayas	2025	6	28	5	61	150	150	20
Visayas	2025	6	28	6	61	150	150	20
Visayas	2025	6	28	7	63	150	150	20
Visayas	2025	6	28	8	72	150	150	20
Visayas	2025	6	28	9	85	150	150	20
Visayas	2025	6	28	10	94	150	150	20
Visayas	2025	6	28	11	99	150	150	20
Visayas	2025	6	28	12	97	150	150	20
Visayas	2025	6	28	13	97	150	150	20
Visayas	2025	6	28	14	102	150	150	20
Visayas	2025	6	28	15	102	150	150	20
Visayas	2025	6	28	16	98	150	150	20
Visayas	2025	6	28	17	93	150	150	20
Visayas	2025	6	28	18	91	150	150	20
Visayas	2025	6	28	19	101	150	150	20
Visayas	2025	6	28	20	98	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	6	28	21	96	150	150	20
Visayas	2025	6	28	22	89	150	150	20
Visayas	2025	6	28	23	82	150	150	20
Visayas	2025	6	28	24	78	150	150	20
Visayas	2025	6	29	1	73	150	150	20
Visayas	2025	6	29	2	70	150	150	20
Visayas	2025	6	29	3	66	150	150	20
Visayas	2025	6	29	4	63	150	150	20
Visayas	2025	6	29	5	62	150	150	20
Visayas	2025	6	29	6	57	150	150	20
Visayas	2025	6	29	7	57	150	150	20
Visayas	2025	6	29	8	61	150	150	20
Visayas	2025	6	29	9	68	150	150	20
Visayas	2025	6	29	10	74	150	150	20
Visayas	2025	6	29	11	78	150	150	20
Visayas	2025	6	29	12	77	150	150	20
Visayas	2025	6	29	13	78	150	150	20
Visayas	2025	6	29	14	80	150	150	20
Visayas	2025	6	29	15	80	150	150	20
Visayas	2025	6	29	16	80	150	150	20
Visayas	2025	6	29	17	76	150	150	20
Visayas	2025	6	29	18	84	150	150	20
Visayas	2025	6	29	19	93	150	150	20
Visayas	2025	6	29	20	90	150	150	20
Visayas	2025	6	29	21	88	150	150	20
Visayas	2025	6	29	22	84	150	150	20
Visayas	2025	6	29	23	77	150	150	20
Visayas	2025	6	29	24	73	150	150	20
Visayas	2025	6	30	1	69	150	150	20
Visayas	2025	6	30	2	66	150	150	20
Visayas	2025	6	30	3	62	150	150	20
Visayas	2025	6	30	4	60	150	150	20
Visayas	2025	6	30	5	62	150	150	20
Visayas	2025	6	30	6	66	150	150	20
Visayas	2025	6	30	7	65	150	150	20
Visayas	2025	6	30	8	79	150	150	20
Visayas	2025	6	30	9	96	150	150	20
Visayas	2025	6	30	10	105	150	150	20
Visayas	2025	6	30	11	107	150	150	20
Visayas	2025	6	30	12	107	150	150	20
Visayas	2025	6	30	13	105	150	150	20
Visayas	2025	6	30	14	111	150	150	20
Visayas	2025	6	30	15	110	150	150	20
Visayas	2025	6	30	16	106	150	150	20
Visayas	2025	6	30	17	100	150	150	20
Visayas	2025	6	30	18	97	150	150	20
Visayas	2025	6	30	19	102	150	150	20
Visayas	2025	6	30	20	97	150	150	20
Visayas	2025	6	30	21	94	150	150	20
Visayas	2025	6	30	22	87	150	150	20
Visayas	2025	6	30	23	80	150	150	20
Visayas	2025	6	30	24	75	150	150	20
Visayas	2025	7	1	1	71	150	150	20
Visayas	2025	7	1	2	67	150	150	20
Visayas	2025	7	1	3	64	150	150	20
Visayas	2025	7	1	4	62	150	150	20
Visayas	2025	7	1	5	64	150	150	20
Visayas	2025	7	1	6	67	150	150	20
Visayas	2025	7	1	7	67	150	150	20
Visayas	2025	7	1	8	80	150	150	20
Visayas	2025	7	1	9	99	150	150	20
Visayas	2025	7	1	10	108	150	150	20
Visayas	2025	7	1	11	113	150	150	20
Visayas	2025	7	1	12	112	150	150	20
Visayas	2025	7	1	13	112	150	150	20
Visayas	2025	7	1	14	118	150	150	20
Visayas	2025	7	1	15	116	150	150	20
Visayas	2025	7	1	16	115	150	150	20
Visayas	2025	7	1	17	105	150	150	20
Visayas	2025	7	1	18	100	150	150	20
Visayas	2025	7	1	19	107	150	150	20
Visayas	2025	7	1	20	102	150	150	20
Visayas	2025	7	1	21	98	150	150	20
Visayas	2025	7	1	22	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	1	23	84	150	150	20
Visayas	2025	7	1	24	79	150	150	20
Visayas	2025	7	2	1	75	150	150	20
Visayas	2025	7	2	2	70	150	150	20
Visayas	2025	7	2	3	66	150	150	20
Visayas	2025	7	2	4	62	150	150	20
Visayas	2025	7	2	5	63	150	150	20
Visayas	2025	7	2	6	65	150	150	20
Visayas	2025	7	2	7	65	150	150	20
Visayas	2025	7	2	8	77	150	150	20
Visayas	2025	7	2	9	92	150	150	20
Visayas	2025	7	2	10	100	150	150	20
Visayas	2025	7	2	11	105	150	150	20
Visayas	2025	7	2	12	102	150	150	20
Visayas	2025	7	2	13	102	150	150	20
Visayas	2025	7	2	14	109	150	150	20
Visayas	2025	7	2	15	107	150	150	20
Visayas	2025	7	2	16	105	150	150	20
Visayas	2025	7	2	17	98	150	150	20
Visayas	2025	7	2	18	95	150	150	20
Visayas	2025	7	2	19	102	150	150	20
Visayas	2025	7	2	20	98	150	150	20
Visayas	2025	7	2	21	94	150	150	20
Visayas	2025	7	2	22	87	150	150	20
Visayas	2025	7	2	23	80	150	150	20
Visayas	2025	7	2	24	73	150	150	20
Visayas	2025	7	3	1	69	150	150	20
Visayas	2025	7	3	2	68	150	150	20
Visayas	2025	7	3	3	65	150	150	20
Visayas	2025	7	3	4	64	150	150	20
Visayas	2025	7	3	5	65	150	150	20
Visayas	2025	7	3	6	68	150	150	20
Visayas	2025	7	3	7	68	150	150	20
Visayas	2025	7	3	8	81	150	150	20
Visayas	2025	7	3	9	99	150	150	20
Visayas	2025	7	3	10	107	150	150	20
Visayas	2025	7	3	11	113	150	150	20
Visayas	2025	7	3	12	110	150	150	20
Visayas	2025	7	3	13	112	150	150	20
Visayas	2025	7	3	14	117	150	150	20
Visayas	2025	7	3	15	115	150	150	20
Visayas	2025	7	3	16	113	150	150	20
Visayas	2025	7	3	17	104	150	150	20
Visayas	2025	7	3	18	101	150	150	20
Visayas	2025	7	3	19	106	150	150	20
Visayas	2025	7	3	20	103	150	150	20
Visayas	2025	7	3	21	100	150	150	20
Visayas	2025	7	3	22	92	150	150	20
Visayas	2025	7	3	23	86	150	150	20
Visayas	2025	7	3	24	79	150	150	20
Visayas	2025	7	4	1	75	150	150	20
Visayas	2025	7	4	2	72	150	150	20
Visayas	2025	7	4	3	68	150	150	20
Visayas	2025	7	4	4	66	150	150	20
Visayas	2025	7	4	5	68	150	150	20
Visayas	2025	7	4	6	70	150	150	20
Visayas	2025	7	4	7	71	150	150	20
Visayas	2025	7	4	8	83	150	150	20
Visayas	2025	7	4	9	99	150	150	20
Visayas	2025	7	4	10	108	150	150	20
Visayas	2025	7	4	11	114	150	150	20
Visayas	2025	7	4	12	111	150	150	20
Visayas	2025	7	4	13	112	150	150	20
Visayas	2025	7	4	14	117	150	150	20
Visayas	2025	7	4	15	117	150	150	20
Visayas	2025	7	4	16	112	150	150	20
Visayas	2025	7	4	17	103	150	150	20
Visayas	2025	7	4	18	99	150	150	20
Visayas	2025	7	4	19	105	150	150	20
Visayas	2025	7	4	20	100	150	150	20
Visayas	2025	7	4	21	96	150	150	20
Visayas	2025	7	4	22	90	150	150	20
Visayas	2025	7	4	23	83	150	150	20
Visayas	2025	7	4	24	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	5	1	74	150	150	20
Visayas	2025	7	5	2	71	150	150	20
Visayas	2025	7	5	3	68	150	150	20
Visayas	2025	7	5	4	65	150	150	20
Visayas	2025	7	5	5	65	150	150	20
Visayas	2025	7	5	6	62	150	150	20
Visayas	2025	7	5	7	63	150	150	20
Visayas	2025	7	5	8	73	150	150	20
Visayas	2025	7	5	9	84	150	150	20
Visayas	2025	7	5	10	90	150	150	20
Visayas	2025	7	5	11	96	150	150	20
Visayas	2025	7	5	12	94	150	150	20
Visayas	2025	7	5	13	95	150	150	20
Visayas	2025	7	5	14	101	150	150	20
Visayas	2025	7	5	15	101	150	150	20
Visayas	2025	7	5	16	97	150	150	20
Visayas	2025	7	5	17	93	150	150	20
Visayas	2025	7	5	18	93	150	150	20
Visayas	2025	7	5	19	103	150	150	20
Visayas	2025	7	5	20	101	150	150	20
Visayas	2025	7	5	21	99	150	150	20
Visayas	2025	7	5	22	92	150	150	20
Visayas	2025	7	5	23	85	150	150	20
Visayas	2025	7	5	24	80	150	150	20
Visayas	2025	7	6	1	75	150	150	20
Visayas	2025	7	6	2	72	150	150	20
Visayas	2025	7	6	3	68	150	150	20
Visayas	2025	7	6	4	64	150	150	20
Visayas	2025	7	6	5	64	150	150	20
Visayas	2025	7	6	6	62	150	150	20
Visayas	2025	7	6	7	62	150	150	20
Visayas	2025	7	6	8	66	150	150	20
Visayas	2025	7	6	9	73	150	150	20
Visayas	2025	7	6	10	76	150	150	20
Visayas	2025	7	6	11	80	150	150	20
Visayas	2025	7	6	12	78	150	150	20
Visayas	2025	7	6	13	78	150	150	20
Visayas	2025	7	6	14	79	150	150	20
Visayas	2025	7	6	15	76	150	150	20
Visayas	2025	7	6	16	78	150	150	20
Visayas	2025	7	6	17	78	150	150	20
Visayas	2025	7	6	18	83	150	150	20
Visayas	2025	7	6	19	91	150	150	20
Visayas	2025	7	6	20	88	150	150	20
Visayas	2025	7	6	21	86	150	150	20
Visayas	2025	7	6	22	79	150	150	20
Visayas	2025	7	6	23	75	150	150	20
Visayas	2025	7	6	24	70	150	150	20
Visayas	2025	7	7	1	64	150	150	20
Visayas	2025	7	7	2	62	150	150	20
Visayas	2025	7	7	3	59	150	150	20
Visayas	2025	7	7	4	59	150	150	20
Visayas	2025	7	7	5	60	150	150	20
Visayas	2025	7	7	6	63	150	150	20
Visayas	2025	7	7	7	65	150	150	20
Visayas	2025	7	7	8	78	150	150	20
Visayas	2025	7	7	9	96	150	150	20
Visayas	2025	7	7	10	106	150	150	20
Visayas	2025	7	7	11	112	150	150	20
Visayas	2025	7	7	12	110	150	150	20
Visayas	2025	7	7	13	108	150	150	20
Visayas	2025	7	7	14	112	150	150	20
Visayas	2025	7	7	15	110	150	150	20
Visayas	2025	7	7	16	106	150	150	20
Visayas	2025	7	7	17	101	150	150	20
Visayas	2025	7	7	18	97	150	150	20
Visayas	2025	7	7	19	104	150	150	20
Visayas	2025	7	7	20	99	150	150	20
Visayas	2025	7	7	21	94	150	150	20
Visayas	2025	7	7	22	86	150	150	20
Visayas	2025	7	7	23	80	150	150	20
Visayas	2025	7	7	24	74	150	150	20
Visayas	2025	7	8	1	70	150	150	20
Visayas	2025	7	8	2	66	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	8	3	64	150	150	20
Visayas	2025	7	8	4	61	150	150	20
Visayas	2025	7	8	5	64	150	150	20
Visayas	2025	7	8	6	65	150	150	20
Visayas	2025	7	8	7	67	150	150	20
Visayas	2025	7	8	8	81	150	150	20
Visayas	2025	7	8	9	96	150	150	20
Visayas	2025	7	8	10	105	150	150	20
Visayas	2025	7	8	11	109	150	150	20
Visayas	2025	7	8	12	108	150	150	20
Visayas	2025	7	8	13	105	150	150	20
Visayas	2025	7	8	14	109	150	150	20
Visayas	2025	7	8	15	107	150	150	20
Visayas	2025	7	8	16	106	150	150	20
Visayas	2025	7	8	17	100	150	150	20
Visayas	2025	7	8	18	96	150	150	20
Visayas	2025	7	8	19	104	150	150	20
Visayas	2025	7	8	20	100	150	150	20
Visayas	2025	7	8	21	95	150	150	20
Visayas	2025	7	8	22	89	150	150	20
Visayas	2025	7	8	23	82	150	150	20
Visayas	2025	7	8	24	77	150	150	20
Visayas	2025	7	9	1	73	150	150	20
Visayas	2025	7	9	2	69	150	150	20
Visayas	2025	7	9	3	66	150	150	20
Visayas	2025	7	9	4	64	150	150	20
Visayas	2025	7	9	5	66	150	150	20
Visayas	2025	7	9	6	66	150	150	20
Visayas	2025	7	9	7	66	150	150	20
Visayas	2025	7	9	8	79	150	150	20
Visayas	2025	7	9	9	97	150	150	20
Visayas	2025	7	9	10	104	150	150	20
Visayas	2025	7	9	11	108	150	150	20
Visayas	2025	7	9	12	106	150	150	20
Visayas	2025	7	9	13	106	150	150	20
Visayas	2025	7	9	14	109	150	150	20
Visayas	2025	7	9	15	106	150	150	20
Visayas	2025	7	9	16	100	150	150	20
Visayas	2025	7	9	17	94	150	150	20
Visayas	2025	7	9	18	95	150	150	20
Visayas	2025	7	9	19	99	150	150	20
Visayas	2025	7	9	20	94	150	150	20
Visayas	2025	7	9	21	91	150	150	20
Visayas	2025	7	9	22	85	150	150	20
Visayas	2025	7	9	23	79	150	150	20
Visayas	2025	7	9	24	73	150	150	20
Visayas	2025	7	10	1	69	150	150	20
Visayas	2025	7	10	2	65	150	150	20
Visayas	2025	7	10	3	63	150	150	20
Visayas	2025	7	10	4	61	150	150	20
Visayas	2025	7	10	5	62	150	150	20
Visayas	2025	7	10	6	63	150	150	20
Visayas	2025	7	10	7	66	150	150	20
Visayas	2025	7	10	8	77	150	150	20
Visayas	2025	7	10	9	94	150	150	20
Visayas	2025	7	10	10	99	150	150	20
Visayas	2025	7	10	11	101	150	150	20
Visayas	2025	7	10	12	95	150	150	20
Visayas	2025	7	10	13	95	150	150	20
Visayas	2025	7	10	14	103	150	150	20
Visayas	2025	7	10	15	100	150	150	20
Visayas	2025	7	10	16	98	150	150	20
Visayas	2025	7	10	17	92	150	150	20
Visayas	2025	7	10	18	92	150	150	20
Visayas	2025	7	10	19	93	150	150	20
Visayas	2025	7	10	20	88	150	150	20
Visayas	2025	7	10	21	83	150	150	20
Visayas	2025	7	10	22	77	150	150	20
Visayas	2025	7	10	23	72	150	150	20
Visayas	2025	7	10	24	68	150	150	20
Visayas	2025	7	11	1	63	150	150	20
Visayas	2025	7	11	2	60	150	150	20
Visayas	2025	7	11	3	58	150	150	20
Visayas	2025	7	11	4	56	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	11	5	58	150	150	20
Visayas	2025	7	11	6	61	150	150	20
Visayas	2025	7	11	7	64	150	150	20
Visayas	2025	7	11	8	74	150	150	20
Visayas	2025	7	11	9	89	150	150	20
Visayas	2025	7	11	10	98	150	150	20
Visayas	2025	7	11	11	99	150	150	20
Visayas	2025	7	11	12	96	150	150	20
Visayas	2025	7	11	13	93	150	150	20
Visayas	2025	7	11	14	99	150	150	20
Visayas	2025	7	11	15	99	150	150	20
Visayas	2025	7	11	16	97	150	150	20
Visayas	2025	7	11	17	91	150	150	20
Visayas	2025	7	11	18	90	150	150	20
Visayas	2025	7	11	19	93	150	150	20
Visayas	2025	7	11	20	90	150	150	20
Visayas	2025	7	11	21	85	150	150	20
Visayas	2025	7	11	22	77	150	150	20
Visayas	2025	7	11	23	71	150	150	20
Visayas	2025	7	11	24	66	150	150	20
Visayas	2025	7	12	1	62	150	150	20
Visayas	2025	7	12	2	60	150	150	20
Visayas	2025	7	12	3	58	150	150	20
Visayas	2025	7	12	4	56	150	150	20
Visayas	2025	7	12	5	57	150	150	20
Visayas	2025	7	12	6	57	150	150	20
Visayas	2025	7	12	7	57	150	150	20
Visayas	2025	7	12	8	61	150	150	20
Visayas	2025	7	12	9	75	150	150	20
Visayas	2025	7	12	10	82	150	150	20
Visayas	2025	7	12	11	83	150	150	20
Visayas	2025	7	12	12	79	150	150	20
Visayas	2025	7	12	13	81	150	150	20
Visayas	2025	7	12	14	86	150	150	20
Visayas	2025	7	12	15	83	150	150	20
Visayas	2025	7	12	16	83	150	150	20
Visayas	2025	7	12	17	81	150	150	20
Visayas	2025	7	12	18	83	150	150	20
Visayas	2025	7	12	19	89	150	150	20
Visayas	2025	7	12	20	84	150	150	20
Visayas	2025	7	12	21	81	150	150	20
Visayas	2025	7	12	22	76	150	150	20
Visayas	2025	7	12	23	70	150	150	20
Visayas	2025	7	12	24	65	150	150	20
Visayas	2025	7	13	1	62	150	150	20
Visayas	2025	7	13	2	59	150	150	20
Visayas	2025	7	13	3	57	150	150	20
Visayas	2025	7	13	4	56	150	150	20
Visayas	2025	7	13	5	55	150	150	20
Visayas	2025	7	13	6	55	150	150	20
Visayas	2025	7	13	7	54	150	150	20
Visayas	2025	7	13	8	58	150	150	20
Visayas	2025	7	13	9	65	150	150	20
Visayas	2025	7	13	10	69	150	150	20
Visayas	2025	7	13	11	74	150	150	20
Visayas	2025	7	13	12	71	150	150	20
Visayas	2025	7	13	13	73	150	150	20
Visayas	2025	7	13	14	73	150	150	20
Visayas	2025	7	13	15	74	150	150	20
Visayas	2025	7	13	16	73	150	150	20
Visayas	2025	7	13	17	73	150	150	20
Visayas	2025	7	13	18	77	150	150	20
Visayas	2025	7	13	19	85	150	150	20
Visayas	2025	7	13	20	83	150	150	20
Visayas	2025	7	13	21	80	150	150	20
Visayas	2025	7	13	22	75	150	150	20
Visayas	2025	7	13	23	68	150	150	20
Visayas	2025	7	13	24	64	150	150	20
Visayas	2025	7	14	1	60	150	150	20
Visayas	2025	7	14	2	57	150	150	20
Visayas	2025	7	14	3	55	150	150	20
Visayas	2025	7	14	4	54	150	150	20
Visayas	2025	7	14	5	55	150	150	20
Visayas	2025	7	14	6	57	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	14	7	60	150	150	20
Visayas	2025	7	14	8	73	150	150	20
Visayas	2025	7	14	9	88	150	150	20
Visayas	2025	7	14	10	96	150	150	20
Visayas	2025	7	14	11	102	150	150	20
Visayas	2025	7	14	12	99	150	150	20
Visayas	2025	7	14	13	103	150	150	20
Visayas	2025	7	14	14	105	150	150	20
Visayas	2025	7	14	15	101	150	150	20
Visayas	2025	7	14	16	98	150	150	20
Visayas	2025	7	14	17	89	150	150	20
Visayas	2025	7	14	18	90	150	150	20
Visayas	2025	7	14	19	97	150	150	20
Visayas	2025	7	14	20	91	150	150	20
Visayas	2025	7	14	21	87	150	150	20
Visayas	2025	7	14	22	81	150	150	20
Visayas	2025	7	14	23	74	150	150	20
Visayas	2025	7	14	24	68	150	150	20
Visayas	2025	7	15	1	65	150	150	20
Visayas	2025	7	15	2	61	150	150	20
Visayas	2025	7	15	3	59	150	150	20
Visayas	2025	7	15	4	58	150	150	20
Visayas	2025	7	15	5	58	150	150	20
Visayas	2025	7	15	6	61	150	150	20
Visayas	2025	7	15	7	63	150	150	20
Visayas	2025	7	15	8	75	150	150	20
Visayas	2025	7	15	9	92	150	150	20
Visayas	2025	7	15	10	101	150	150	20
Visayas	2025	7	15	11	106	150	150	20
Visayas	2025	7	15	12	106	150	150	20
Visayas	2025	7	15	13	102	150	150	20
Visayas	2025	7	15	14	111	150	150	20
Visayas	2025	7	15	15	111	150	150	20
Visayas	2025	7	15	16	104	150	150	20
Visayas	2025	7	15	17	97	150	150	20
Visayas	2025	7	15	18	94	150	150	20
Visayas	2025	7	15	19	98	150	150	20
Visayas	2025	7	15	20	93	150	150	20
Visayas	2025	7	15	21	89	150	150	20
Visayas	2025	7	15	22	82	150	150	20
Visayas	2025	7	15	23	77	150	150	20
Visayas	2025	7	15	24	70	150	150	20
Visayas	2025	7	16	1	67	150	150	20
Visayas	2025	7	16	2	62	150	150	20
Visayas	2025	7	16	3	60	150	150	20
Visayas	2025	7	16	4	59	150	150	20
Visayas	2025	7	16	5	59	150	150	20
Visayas	2025	7	16	6	62	150	150	20
Visayas	2025	7	16	7	64	150	150	20
Visayas	2025	7	16	8	74	150	150	20
Visayas	2025	7	16	9	88	150	150	20
Visayas	2025	7	16	10	94	150	150	20
Visayas	2025	7	16	11	97	150	150	20
Visayas	2025	7	16	12	94	150	150	20
Visayas	2025	7	16	13	93	150	150	20
Visayas	2025	7	16	14	98	150	150	20
Visayas	2025	7	16	15	97	150	150	20
Visayas	2025	7	16	16	95	150	150	20
Visayas	2025	7	16	17	91	150	150	20
Visayas	2025	7	16	18	90	150	150	20
Visayas	2025	7	16	19	94	150	150	20
Visayas	2025	7	16	20	87	150	150	20
Visayas	2025	7	16	21	85	150	150	20
Visayas	2025	7	16	22	77	150	150	20
Visayas	2025	7	16	23	71	150	150	20
Visayas	2025	7	16	24	67	150	150	20
Visayas	2025	7	17	1	62	150	150	20
Visayas	2025	7	17	2	59	150	150	20
Visayas	2025	7	17	3	57	150	150	20
Visayas	2025	7	17	4	56	150	150	20
Visayas	2025	7	17	5	57	150	150	20
Visayas	2025	7	17	6	60	150	150	20
Visayas	2025	7	17	7	63	150	150	20
Visayas	2025	7	17	8	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	17	9	91	150	150	20
Visayas	2025	7	17	10	100	150	150	20
Visayas	2025	7	17	11	104	150	150	20
Visayas	2025	7	17	12	100	150	150	20
Visayas	2025	7	17	13	100	150	150	20
Visayas	2025	7	17	14	106	150	150	20
Visayas	2025	7	17	15	104	150	150	20
Visayas	2025	7	17	16	100	150	150	20
Visayas	2025	7	17	17	94	150	150	20
Visayas	2025	7	17	18	93	150	150	20
Visayas	2025	7	17	19	95	150	150	20
Visayas	2025	7	17	20	90	150	150	20
Visayas	2025	7	17	21	87	150	150	20
Visayas	2025	7	17	22	80	150	150	20
Visayas	2025	7	17	23	74	150	150	20
Visayas	2025	7	17	24	69	150	150	20
Visayas	2025	7	18	1	65	150	150	20
Visayas	2025	7	18	2	62	150	150	20
Visayas	2025	7	18	3	60	150	150	20
Visayas	2025	7	18	4	58	150	150	20
Visayas	2025	7	18	5	58	150	150	20
Visayas	2025	7	18	6	60	150	150	20
Visayas	2025	7	18	7	63	150	150	20
Visayas	2025	7	18	8	75	150	150	20
Visayas	2025	7	18	9	89	150	150	20
Visayas	2025	7	18	10	100	150	150	20
Visayas	2025	7	18	11	106	150	150	20
Visayas	2025	7	18	12	103	150	150	20
Visayas	2025	7	18	13	104	150	150	20
Visayas	2025	7	18	14	109	150	150	20
Visayas	2025	7	18	15	108	150	150	20
Visayas	2025	7	18	16	104	150	150	20
Visayas	2025	7	18	17	97	150	150	20
Visayas	2025	7	18	18	95	150	150	20
Visayas	2025	7	18	19	99	150	150	20
Visayas	2025	7	18	20	93	150	150	20
Visayas	2025	7	18	21	89	150	150	20
Visayas	2025	7	18	22	83	150	150	20
Visayas	2025	7	18	23	76	150	150	20
Visayas	2025	7	18	24	71	150	150	20
Visayas	2025	7	19	1	67	150	150	20
Visayas	2025	7	19	2	64	150	150	20
Visayas	2025	7	19	3	61	150	150	20
Visayas	2025	7	19	4	60	150	150	20
Visayas	2025	7	19	5	60	150	150	20
Visayas	2025	7	19	6	60	150	150	20
Visayas	2025	7	19	7	60	150	150	20
Visayas	2025	7	19	8	68	150	150	20
Visayas	2025	7	19	9	78	150	150	20
Visayas	2025	7	19	10	82	150	150	20
Visayas	2025	7	19	11	87	150	150	20
Visayas	2025	7	19	12	83	150	150	20
Visayas	2025	7	19	13	85	150	150	20
Visayas	2025	7	19	14	89	150	150	20
Visayas	2025	7	19	15	89	150	150	20
Visayas	2025	7	19	16	87	150	150	20
Visayas	2025	7	19	17	83	150	150	20
Visayas	2025	7	19	18	86	150	150	20
Visayas	2025	7	19	19	94	150	150	20
Visayas	2025	7	19	20	87	150	150	20
Visayas	2025	7	19	21	85	150	150	20
Visayas	2025	7	19	22	79	150	150	20
Visayas	2025	7	19	23	75	150	150	20
Visayas	2025	7	19	24	69	150	150	20
Visayas	2025	7	20	1	66	150	150	20
Visayas	2025	7	20	2	63	150	150	20
Visayas	2025	7	20	3	60	150	150	20
Visayas	2025	7	20	4	59	150	150	20
Visayas	2025	7	20	5	59	150	150	20
Visayas	2025	7	20	6	58	150	150	20
Visayas	2025	7	20	7	57	150	150	20
Visayas	2025	7	20	8	59	150	150	20
Visayas	2025	7	20	9	66	150	150	20
Visayas	2025	7	20	10	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	20	11	73	150	150	20
Visayas	2025	7	20	12	71	150	150	20
Visayas	2025	7	20	13	70	150	150	20
Visayas	2025	7	20	14	70	150	150	20
Visayas	2025	7	20	15	70	150	150	20
Visayas	2025	7	20	16	70	150	150	20
Visayas	2025	7	20	17	73	150	150	20
Visayas	2025	7	20	18	79	150	150	20
Visayas	2025	7	20	19	85	150	150	20
Visayas	2025	7	20	20	82	150	150	20
Visayas	2025	7	20	21	78	150	150	20
Visayas	2025	7	20	22	73	150	150	20
Visayas	2025	7	20	23	67	150	150	20
Visayas	2025	7	20	24	61	150	150	20
Visayas	2025	7	21	1	58	150	150	20
Visayas	2025	7	21	2	56	150	150	20
Visayas	2025	7	21	3	54	150	150	20
Visayas	2025	7	21	4	53	150	150	20
Visayas	2025	7	21	5	55	150	150	20
Visayas	2025	7	21	6	58	150	150	20
Visayas	2025	7	21	7	60	150	150	20
Visayas	2025	7	21	8	73	150	150	20
Visayas	2025	7	21	9	87	150	150	20
Visayas	2025	7	21	10	95	150	150	20
Visayas	2025	7	21	11	96	150	150	20
Visayas	2025	7	21	12	92	150	150	20
Visayas	2025	7	21	13	88	150	150	20
Visayas	2025	7	21	14	94	150	150	20
Visayas	2025	7	21	15	96	150	150	20
Visayas	2025	7	21	16	95	150	150	20
Visayas	2025	7	21	17	90	150	150	20
Visayas	2025	7	21	18	87	150	150	20
Visayas	2025	7	21	19	88	150	150	20
Visayas	2025	7	21	20	84	150	150	20
Visayas	2025	7	21	21	78	150	150	20
Visayas	2025	7	21	22	73	150	150	20
Visayas	2025	7	21	23	68	150	150	20
Visayas	2025	7	21	24	64	150	150	20
Visayas	2025	7	22	1	61	150	150	20
Visayas	2025	7	22	2	57	150	150	20
Visayas	2025	7	22	3	56	150	150	20
Visayas	2025	7	22	4	56	150	150	20
Visayas	2025	7	22	5	57	150	150	20
Visayas	2025	7	22	6	59	150	150	20
Visayas	2025	7	22	7	61	150	150	20
Visayas	2025	7	22	8	73	150	150	20
Visayas	2025	7	22	9	85	150	150	20
Visayas	2025	7	22	10	91	150	150	20
Visayas	2025	7	22	11	87	150	150	20
Visayas	2025	7	22	12	85	150	150	20
Visayas	2025	7	22	13	86	150	150	20
Visayas	2025	7	22	14	89	150	150	20
Visayas	2025	7	22	15	88	150	150	20
Visayas	2025	7	22	16	88	150	150	20
Visayas	2025	7	22	17	85	150	150	20
Visayas	2025	7	22	18	83	150	150	20
Visayas	2025	7	22	19	85	150	150	20
Visayas	2025	7	22	20	82	150	150	20
Visayas	2025	7	22	21	77	150	150	20
Visayas	2025	7	22	22	71	150	150	20
Visayas	2025	7	22	23	66	150	150	20
Visayas	2025	7	22	24	62	150	150	20
Visayas	2025	7	23	1	59	150	150	20
Visayas	2025	7	23	2	57	150	150	20
Visayas	2025	7	23	3	56	150	150	20
Visayas	2025	7	23	4	55	150	150	20
Visayas	2025	7	23	5	55	150	150	20
Visayas	2025	7	23	6	58	150	150	20
Visayas	2025	7	23	7	60	150	150	20
Visayas	2025	7	23	8	72	150	150	20
Visayas	2025	7	23	9	85	150	150	20
Visayas	2025	7	23	10	92	150	150	20
Visayas	2025	7	23	11	96	150	150	20
Visayas	2025	7	23	12	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	23	13	92	150	150	20
Visayas	2025	7	23	14	96	150	150	20
Visayas	2025	7	23	15	97	150	150	20
Visayas	2025	7	23	16	92	150	150	20
Visayas	2025	7	23	17	75	150	150	20
Visayas	2025	7	23	18	81	150	150	20
Visayas	2025	7	23	19	88	150	150	20
Visayas	2025	7	23	20	84	150	150	20
Visayas	2025	7	23	21	80	150	150	20
Visayas	2025	7	23	22	75	150	150	20
Visayas	2025	7	23	23	70	150	150	20
Visayas	2025	7	23	24	65	150	150	20
Visayas	2025	7	24	1	62	150	150	20
Visayas	2025	7	24	2	59	150	150	20
Visayas	2025	7	24	3	57	150	150	20
Visayas	2025	7	24	4	57	150	150	20
Visayas	2025	7	24	5	57	150	150	20
Visayas	2025	7	24	6	60	150	150	20
Visayas	2025	7	24	7	61	150	150	20
Visayas	2025	7	24	8	74	150	150	20
Visayas	2025	7	24	9	88	150	150	20
Visayas	2025	7	24	10	96	150	150	20
Visayas	2025	7	24	11	103	150	150	20
Visayas	2025	7	24	12	97	150	150	20
Visayas	2025	7	24	13	98	150	150	20
Visayas	2025	7	24	14	106	150	150	20
Visayas	2025	7	24	15	106	150	150	20
Visayas	2025	7	24	16	102	150	150	20
Visayas	2025	7	24	17	94	150	150	20
Visayas	2025	7	24	18	93	150	150	20
Visayas	2025	7	24	19	97	150	150	20
Visayas	2025	7	24	20	91	150	150	20
Visayas	2025	7	24	21	87	150	150	20
Visayas	2025	7	24	22	80	150	150	20
Visayas	2025	7	24	23	75	150	150	20
Visayas	2025	7	24	24	70	150	150	20
Visayas	2025	7	25	1	66	150	150	20
Visayas	2025	7	25	2	62	150	150	20
Visayas	2025	7	25	3	59	150	150	20
Visayas	2025	7	25	4	58	150	150	20
Visayas	2025	7	25	5	58	150	150	20
Visayas	2025	7	25	6	61	150	150	20
Visayas	2025	7	25	7	62	150	150	20
Visayas	2025	7	25	8	74	150	150	20
Visayas	2025	7	25	9	89	150	150	20
Visayas	2025	7	25	10	96	150	150	20
Visayas	2025	7	25	11	101	150	150	20
Visayas	2025	7	25	12	99	150	150	20
Visayas	2025	7	25	13	97	150	150	20
Visayas	2025	7	25	14	102	150	150	20
Visayas	2025	7	25	15	104	150	150	20
Visayas	2025	7	25	16	98	150	150	20
Visayas	2025	7	25	17	94	150	150	20
Visayas	2025	7	25	18	93	150	150	20
Visayas	2025	7	25	19	97	150	150	20
Visayas	2025	7	25	20	93	150	150	20
Visayas	2025	7	25	21	90	150	150	20
Visayas	2025	7	25	22	84	150	150	20
Visayas	2025	7	25	23	78	150	150	20
Visayas	2025	7	25	24	72	150	150	20
Visayas	2025	7	26	1	69	150	150	20
Visayas	2025	7	26	2	66	150	150	20
Visayas	2025	7	26	3	61	150	150	20
Visayas	2025	7	26	4	58	150	150	20
Visayas	2025	7	26	5	60	150	150	20
Visayas	2025	7	26	6	61	150	150	20
Visayas	2025	7	26	7	60	150	150	20
Visayas	2025	7	26	8	69	150	150	20
Visayas	2025	7	26	9	78	150	150	20
Visayas	2025	7	26	10	83	150	150	20
Visayas	2025	7	26	11	86	150	150	20
Visayas	2025	7	26	12	84	150	150	20
Visayas	2025	7	26	13	83	150	150	20
Visayas	2025	7	26	14	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	26	15	85	150	150	20
Visayas	2025	7	26	16	83	150	150	20
Visayas	2025	7	26	17	81	150	150	20
Visayas	2025	7	26	18	87	150	150	20
Visayas	2025	7	26	19	90	150	150	20
Visayas	2025	7	26	20	86	150	150	20
Visayas	2025	7	26	21	83	150	150	20
Visayas	2025	7	26	22	78	150	150	20
Visayas	2025	7	26	23	74	150	150	20
Visayas	2025	7	26	24	69	150	150	20
Visayas	2025	7	27	1	64	150	150	20
Visayas	2025	7	27	2	61	150	150	20
Visayas	2025	7	27	3	59	150	150	20
Visayas	2025	7	27	4	58	150	150	20
Visayas	2025	7	27	5	57	150	150	20
Visayas	2025	7	27	6	57	150	150	20
Visayas	2025	7	27	7	55	150	150	20
Visayas	2025	7	27	8	58	150	150	20
Visayas	2025	7	27	9	65	150	150	20
Visayas	2025	7	27	10	71	150	150	20
Visayas	2025	7	27	11	74	150	150	20
Visayas	2025	7	27	12	75	150	150	20
Visayas	2025	7	27	13	74	150	150	20
Visayas	2025	7	27	14	76	150	150	20
Visayas	2025	7	27	15	76	150	150	20
Visayas	2025	7	27	16	76	150	150	20
Visayas	2025	7	27	17	77	150	150	20
Visayas	2025	7	27	18	84	150	150	20
Visayas	2025	7	27	19	91	150	150	20
Visayas	2025	7	27	20	88	150	150	20
Visayas	2025	7	27	21	86	150	150	20
Visayas	2025	7	27	22	81	150	150	20
Visayas	2025	7	27	23	72	150	150	20
Visayas	2025	7	27	24	68	150	150	20
Visayas	2025	7	28	1	65	150	150	20
Visayas	2025	7	28	2	62	150	150	20
Visayas	2025	7	28	3	59	150	150	20
Visayas	2025	7	28	4	58	150	150	20
Visayas	2025	7	28	5	59	150	150	20
Visayas	2025	7	28	6	61	150	150	20
Visayas	2025	7	28	7	64	150	150	20
Visayas	2025	7	28	8	78	150	150	20
Visayas	2025	7	28	9	95	150	150	20
Visayas	2025	7	28	10	104	150	150	20
Visayas	2025	7	28	11	110	150	150	20
Visayas	2025	7	28	12	109	150	150	20
Visayas	2025	7	28	13	111	150	150	20
Visayas	2025	7	28	14	116	150	150	20
Visayas	2025	7	28	15	117	150	150	20
Visayas	2025	7	28	16	113	150	150	20
Visayas	2025	7	28	17	104	150	150	20
Visayas	2025	7	28	18	98	150	150	20
Visayas	2025	7	28	19	107	150	150	20
Visayas	2025	7	28	20	102	150	150	20
Visayas	2025	7	28	21	97	150	150	20
Visayas	2025	7	28	22	90	150	150	20
Visayas	2025	7	28	23	84	150	150	20
Visayas	2025	7	28	24	78	150	150	20
Visayas	2025	7	29	1	73	150	150	20
Visayas	2025	7	29	2	69	150	150	20
Visayas	2025	7	29	3	66	150	150	20
Visayas	2025	7	29	4	64	150	150	20
Visayas	2025	7	29	5	64	150	150	20
Visayas	2025	7	29	6	67	150	150	20
Visayas	2025	7	29	7	68	150	150	20
Visayas	2025	7	29	8	82	150	150	20
Visayas	2025	7	29	9	100	150	150	20
Visayas	2025	7	29	10	106	150	150	20
Visayas	2025	7	29	11	111	150	150	20
Visayas	2025	7	29	12	106	150	150	20
Visayas	2025	7	29	13	109	150	150	20
Visayas	2025	7	29	14	116	150	150	20
Visayas	2025	7	29	15	115	150	150	20
Visayas	2025	7	29	16	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	7	29	17	104	150	150	20
Visayas	2025	7	29	18	101	150	150	20
Visayas	2025	7	29	19	107	150	150	20
Visayas	2025	7	29	20	103	150	150	20
Visayas	2025	7	29	21	99	150	150	20
Visayas	2025	7	29	22	91	150	150	20
Visayas	2025	7	29	23	85	150	150	20
Visayas	2025	7	29	24	80	150	150	20
Visayas	2025	7	30	1	76	150	150	20
Visayas	2025	7	30	2	71	150	150	20
Visayas	2025	7	30	3	67	150	150	20
Visayas	2025	7	30	4	66	150	150	20
Visayas	2025	7	30	5	66	150	150	20
Visayas	2025	7	30	6	69	150	150	20
Visayas	2025	7	30	7	70	150	150	20
Visayas	2025	7	30	8	83	150	150	20
Visayas	2025	7	30	9	99	150	150	20
Visayas	2025	7	30	10	108	150	150	20
Visayas	2025	7	30	11	112	150	150	20
Visayas	2025	7	30	12	111	150	150	20
Visayas	2025	7	30	13	109	150	150	20
Visayas	2025	7	30	14	116	150	150	20
Visayas	2025	7	30	15	116	150	150	20
Visayas	2025	7	30	16	114	150	150	20
Visayas	2025	7	30	17	105	150	150	20
Visayas	2025	7	30	18	100	150	150	20
Visayas	2025	7	30	19	109	150	150	20
Visayas	2025	7	30	20	103	150	150	20
Visayas	2025	7	30	21	99	150	150	20
Visayas	2025	7	30	22	93	150	150	20
Visayas	2025	7	30	23	87	150	150	20
Visayas	2025	7	30	24	81	150	150	20
Visayas	2025	7	31	1	76	150	150	20
Visayas	2025	7	31	2	73	150	150	20
Visayas	2025	7	31	3	69	150	150	20
Visayas	2025	7	31	4	68	150	150	20
Visayas	2025	7	31	5	67	150	150	20
Visayas	2025	7	31	6	70	150	150	20
Visayas	2025	7	31	7	70	150	150	20
Visayas	2025	7	31	8	83	150	150	20
Visayas	2025	7	31	9	101	150	150	20
Visayas	2025	7	31	10	108	150	150	20
Visayas	2025	7	31	11	113	150	150	20
Visayas	2025	7	31	12	110	150	150	20
Visayas	2025	7	31	13	110	150	150	20
Visayas	2025	7	31	14	117	150	150	20
Visayas	2025	7	31	15	116	150	150	20
Visayas	2025	7	31	16	114	150	150	20
Visayas	2025	7	31	17	104	150	150	20
Visayas	2025	7	31	18	101	150	150	20
Visayas	2025	7	31	19	108	150	150	20
Visayas	2025	7	31	20	104	150	150	20
Visayas	2025	7	31	21	101	150	150	20
Visayas	2025	7	31	22	93	150	150	20
Visayas	2025	7	31	23	87	150	150	20
Visayas	2025	7	31	24	81	150	150	20
Visayas	2025	8	1	1	76	150	150	20
Visayas	2025	8	1	2	72	150	150	20
Visayas	2025	8	1	3	69	150	150	20
Visayas	2025	8	1	4	67	150	150	20
Visayas	2025	8	1	5	67	150	150	20
Visayas	2025	8	1	6	68	150	150	20
Visayas	2025	8	1	7	69	150	150	20
Visayas	2025	8	1	8	85	150	150	20
Visayas	2025	8	1	9	101	150	150	20
Visayas	2025	8	1	10	109	150	150	20
Visayas	2025	8	1	11	114	150	150	20
Visayas	2025	8	1	12	113	150	150	20
Visayas	2025	8	1	13	114	150	150	20
Visayas	2025	8	1	14	119	150	150	20
Visayas	2025	8	1	15	118	150	150	20
Visayas	2025	8	1	16	117	150	150	20
Visayas	2025	8	1	17	106	150	150	20
Visayas	2025	8	1	18	100	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	1	19	109	150	150	20
Visayas	2025	8	1	20	104	150	150	20
Visayas	2025	8	1	21	101	150	150	20
Visayas	2025	8	1	22	94	150	150	20
Visayas	2025	8	1	23	88	150	150	20
Visayas	2025	8	1	24	81	150	150	20
Visayas	2025	8	2	1	77	150	150	20
Visayas	2025	8	2	2	73	150	150	20
Visayas	2025	8	2	3	69	150	150	20
Visayas	2025	8	2	4	67	150	150	20
Visayas	2025	8	2	5	63	150	150	20
Visayas	2025	8	2	6	64	150	150	20
Visayas	2025	8	2	7	64	150	150	20
Visayas	2025	8	2	8	73	150	150	20
Visayas	2025	8	2	9	82	150	150	20
Visayas	2025	8	2	10	90	150	150	20
Visayas	2025	8	2	11	94	150	150	20
Visayas	2025	8	2	12	94	150	150	20
Visayas	2025	8	2	13	94	150	150	20
Visayas	2025	8	2	14	100	150	150	20
Visayas	2025	8	2	15	100	150	150	20
Visayas	2025	8	2	16	99	150	150	20
Visayas	2025	8	2	17	93	150	150	20
Visayas	2025	8	2	18	93	150	150	20
Visayas	2025	8	2	19	103	150	150	20
Visayas	2025	8	2	20	98	150	150	20
Visayas	2025	8	2	21	95	150	150	20
Visayas	2025	8	2	22	91	150	150	20
Visayas	2025	8	2	23	85	150	150	20
Visayas	2025	8	2	24	80	150	150	20
Visayas	2025	8	3	1	75	150	150	20
Visayas	2025	8	3	2	71	150	150	20
Visayas	2025	8	3	3	68	150	150	20
Visayas	2025	8	3	4	65	150	150	20
Visayas	2025	8	3	5	64	150	150	20
Visayas	2025	8	3	6	62	150	150	20
Visayas	2025	8	3	7	62	150	150	20
Visayas	2025	8	3	8	67	150	150	20
Visayas	2025	8	3	9	73	150	150	20
Visayas	2025	8	3	10	80	150	150	20
Visayas	2025	8	3	11	83	150	150	20
Visayas	2025	8	3	12	83	150	150	20
Visayas	2025	8	3	13	84	150	150	20
Visayas	2025	8	3	14	89	150	150	20
Visayas	2025	8	3	15	88	150	150	20
Visayas	2025	8	3	16	85	150	150	20
Visayas	2025	8	3	17	85	150	150	20
Visayas	2025	8	3	18	87	150	150	20
Visayas	2025	8	3	19	99	150	150	20
Visayas	2025	8	3	20	96	150	150	20
Visayas	2025	8	3	21	94	150	150	20
Visayas	2025	8	3	22	91	150	150	20
Visayas	2025	8	3	23	85	150	150	20
Visayas	2025	8	3	24	78	150	150	20
Visayas	2025	8	4	1	74	150	150	20
Visayas	2025	8	4	2	70	150	150	20
Visayas	2025	8	4	3	67	150	150	20
Visayas	2025	8	4	4	64	150	150	20
Visayas	2025	8	4	5	65	150	150	20
Visayas	2025	8	4	6	67	150	150	20
Visayas	2025	8	4	7	68	150	150	20
Visayas	2025	8	4	8	83	150	150	20
Visayas	2025	8	4	9	101	150	150	20
Visayas	2025	8	4	10	111	150	150	20
Visayas	2025	8	4	11	116	150	150	20
Visayas	2025	8	4	12	112	150	150	20
Visayas	2025	8	4	13	114	150	150	20
Visayas	2025	8	4	14	120	150	150	20
Visayas	2025	8	4	15	120	150	150	20
Visayas	2025	8	4	16	118	150	150	20
Visayas	2025	8	4	17	110	150	150	20
Visayas	2025	8	4	18	103	150	150	20
Visayas	2025	8	4	19	112	150	150	20
Visayas	2025	8	4	20	107	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	4	21	105	150	150	20
Visayas	2025	8	4	22	96	150	150	20
Visayas	2025	8	4	23	91	150	150	20
Visayas	2025	8	4	24	85	150	150	20
Visayas	2025	8	5	1	80	150	150	20
Visayas	2025	8	5	2	76	150	150	20
Visayas	2025	8	5	3	73	150	150	20
Visayas	2025	8	5	4	71	150	150	20
Visayas	2025	8	5	5	71	150	150	20
Visayas	2025	8	5	6	72	150	150	20
Visayas	2025	8	5	7	73	150	150	20
Visayas	2025	8	5	8	89	150	150	20
Visayas	2025	8	5	9	107	150	150	20
Visayas	2025	8	5	10	114	150	150	20
Visayas	2025	8	5	11	118	150	150	20
Visayas	2025	8	5	12	116	150	150	20
Visayas	2025	8	5	13	117	150	150	20
Visayas	2025	8	5	14	122	150	150	20
Visayas	2025	8	5	15	121	150	150	20
Visayas	2025	8	5	16	120	150	150	20
Visayas	2025	8	5	17	110	150	150	20
Visayas	2025	8	5	18	103	150	150	20
Visayas	2025	8	5	19	113	150	150	20
Visayas	2025	8	5	20	108	150	150	20
Visayas	2025	8	5	21	103	150	150	20
Visayas	2025	8	5	22	98	150	150	20
Visayas	2025	8	5	23	92	150	150	20
Visayas	2025	8	5	24	85	150	150	20
Visayas	2025	8	6	1	81	150	150	20
Visayas	2025	8	6	2	76	150	150	20
Visayas	2025	8	6	3	74	150	150	20
Visayas	2025	8	6	4	73	150	150	20
Visayas	2025	8	6	5	72	150	150	20
Visayas	2025	8	6	6	73	150	150	20
Visayas	2025	8	6	7	75	150	150	20
Visayas	2025	8	6	8	90	150	150	20
Visayas	2025	8	6	9	108	150	150	20
Visayas	2025	8	6	10	114	150	150	20
Visayas	2025	8	6	11	118	150	150	20
Visayas	2025	8	6	12	115	150	150	20
Visayas	2025	8	6	13	115	150	150	20
Visayas	2025	8	6	14	121	150	150	20
Visayas	2025	8	6	15	120	150	150	20
Visayas	2025	8	6	16	118	150	150	20
Visayas	2025	8	6	17	109	150	150	20
Visayas	2025	8	6	18	105	150	150	20
Visayas	2025	8	6	19	112	150	150	20
Visayas	2025	8	6	20	108	150	150	20
Visayas	2025	8	6	21	103	150	150	20
Visayas	2025	8	6	22	97	150	150	20
Visayas	2025	8	6	23	91	150	150	20
Visayas	2025	8	6	24	84	150	150	20
Visayas	2025	8	7	1	80	150	150	20
Visayas	2025	8	7	2	76	150	150	20
Visayas	2025	8	7	3	73	150	150	20
Visayas	2025	8	7	4	71	150	150	20
Visayas	2025	8	7	5	71	150	150	20
Visayas	2025	8	7	6	73	150	150	20
Visayas	2025	8	7	7	73	150	150	20
Visayas	2025	8	7	8	87	150	150	20
Visayas	2025	8	7	9	106	150	150	20
Visayas	2025	8	7	10	113	150	150	20
Visayas	2025	8	7	11	117	150	150	20
Visayas	2025	8	7	12	113	150	150	20
Visayas	2025	8	7	13	113	150	150	20
Visayas	2025	8	7	14	115	150	150	20
Visayas	2025	8	7	15	114	150	150	20
Visayas	2025	8	7	16	113	150	150	20
Visayas	2025	8	7	17	105	150	150	20
Visayas	2025	8	7	18	104	150	150	20
Visayas	2025	8	7	19	109	150	150	20
Visayas	2025	8	7	20	105	150	150	20
Visayas	2025	8	7	21	102	150	150	20
Visayas	2025	8	7	22	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	7	23	88	150	150	20
Visayas	2025	8	7	24	83	150	150	20
Visayas	2025	8	8	1	77	150	150	20
Visayas	2025	8	8	2	74	150	150	20
Visayas	2025	8	8	3	71	150	150	20
Visayas	2025	8	8	4	69	150	150	20
Visayas	2025	8	8	5	70	150	150	20
Visayas	2025	8	8	6	71	150	150	20
Visayas	2025	8	8	7	71	150	150	20
Visayas	2025	8	8	8	85	150	150	20
Visayas	2025	8	8	9	102	150	150	20
Visayas	2025	8	8	10	111	150	150	20
Visayas	2025	8	8	11	114	150	150	20
Visayas	2025	8	8	12	111	150	150	20
Visayas	2025	8	8	13	111	150	150	20
Visayas	2025	8	8	14	116	150	150	20
Visayas	2025	8	8	15	114	150	150	20
Visayas	2025	8	8	16	112	150	150	20
Visayas	2025	8	8	17	104	150	150	20
Visayas	2025	8	8	18	101	150	150	20
Visayas	2025	8	8	19	104	150	150	20
Visayas	2025	8	8	20	100	150	150	20
Visayas	2025	8	8	21	97	150	150	20
Visayas	2025	8	8	22	92	150	150	20
Visayas	2025	8	8	23	85	150	150	20
Visayas	2025	8	8	24	81	150	150	20
Visayas	2025	8	9	1	76	150	150	20
Visayas	2025	8	9	2	72	150	150	20
Visayas	2025	8	9	3	69	150	150	20
Visayas	2025	8	9	4	66	150	150	20
Visayas	2025	8	9	5	66	150	150	20
Visayas	2025	8	9	6	66	150	150	20
Visayas	2025	8	9	7	64	150	150	20
Visayas	2025	8	9	8	73	150	150	20
Visayas	2025	8	9	9	85	150	150	20
Visayas	2025	8	9	10	91	150	150	20
Visayas	2025	8	9	11	95	150	150	20
Visayas	2025	8	9	12	92	150	150	20
Visayas	2025	8	9	13	94	150	150	20
Visayas	2025	8	9	14	93	150	150	20
Visayas	2025	8	9	15	90	150	150	20
Visayas	2025	8	9	16	87	150	150	20
Visayas	2025	8	9	17	87	150	150	20
Visayas	2025	8	9	18	91	150	150	20
Visayas	2025	8	9	19	96	150	150	20
Visayas	2025	8	9	20	94	150	150	20
Visayas	2025	8	9	21	92	150	150	20
Visayas	2025	8	9	22	85	150	150	20
Visayas	2025	8	9	23	81	150	150	20
Visayas	2025	8	9	24	75	150	150	20
Visayas	2025	8	10	1	72	150	150	20
Visayas	2025	8	10	2	68	150	150	20
Visayas	2025	8	10	3	65	150	150	20
Visayas	2025	8	10	4	63	150	150	20
Visayas	2025	8	10	5	62	150	150	20
Visayas	2025	8	10	6	59	150	150	20
Visayas	2025	8	10	7	58	150	150	20
Visayas	2025	8	10	8	62	150	150	20
Visayas	2025	8	10	9	71	150	150	20
Visayas	2025	8	10	10	76	150	150	20
Visayas	2025	8	10	11	81	150	150	20
Visayas	2025	8	10	12	82	150	150	20
Visayas	2025	8	10	13	80	150	150	20
Visayas	2025	8	10	14	84	150	150	20
Visayas	2025	8	10	15	82	150	150	20
Visayas	2025	8	10	16	79	150	150	20
Visayas	2025	8	10	17	79	150	150	20
Visayas	2025	8	10	18	85	150	150	20
Visayas	2025	8	10	19	91	150	150	20
Visayas	2025	8	10	20	88	150	150	20
Visayas	2025	8	10	21	85	150	150	20
Visayas	2025	8	10	22	80	150	150	20
Visayas	2025	8	10	23	75	150	150	20
Visayas	2025	8	10	24	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	11	1	66	150	150	20
Visayas	2025	8	11	2	63	150	150	20
Visayas	2025	8	11	3	60	150	150	20
Visayas	2025	8	11	4	59	150	150	20
Visayas	2025	8	11	5	60	150	150	20
Visayas	2025	8	11	6	63	150	150	20
Visayas	2025	8	11	7	64	150	150	20
Visayas	2025	8	11	8	78	150	150	20
Visayas	2025	8	11	9	96	150	150	20
Visayas	2025	8	11	10	105	150	150	20
Visayas	2025	8	11	11	110	150	150	20
Visayas	2025	8	11	12	107	150	150	20
Visayas	2025	8	11	13	108	150	150	20
Visayas	2025	8	11	14	113	150	150	20
Visayas	2025	8	11	15	110	150	150	20
Visayas	2025	8	11	16	108	150	150	20
Visayas	2025	8	11	17	99	150	150	20
Visayas	2025	8	11	18	91	150	150	20
Visayas	2025	8	11	19	100	150	150	20
Visayas	2025	8	11	20	96	150	150	20
Visayas	2025	8	11	21	93	150	150	20
Visayas	2025	8	11	22	86	150	150	20
Visayas	2025	8	11	23	80	150	150	20
Visayas	2025	8	11	24	74	150	150	20
Visayas	2025	8	12	1	71	150	150	20
Visayas	2025	8	12	2	67	150	150	20
Visayas	2025	8	12	3	64	150	150	20
Visayas	2025	8	12	4	62	150	150	20
Visayas	2025	8	12	5	64	150	150	20
Visayas	2025	8	12	6	67	150	150	20
Visayas	2025	8	12	7	66	150	150	20
Visayas	2025	8	12	8	80	150	150	20
Visayas	2025	8	12	9	98	150	150	20
Visayas	2025	8	12	10	107	150	150	20
Visayas	2025	8	12	11	112	150	150	20
Visayas	2025	8	12	12	110	150	150	20
Visayas	2025	8	12	13	108	150	150	20
Visayas	2025	8	12	14	113	150	150	20
Visayas	2025	8	12	15	112	150	150	20
Visayas	2025	8	12	16	108	150	150	20
Visayas	2025	8	12	17	98	150	150	20
Visayas	2025	8	12	18	96	150	150	20
Visayas	2025	8	12	19	101	150	150	20
Visayas	2025	8	12	20	96	150	150	20
Visayas	2025	8	12	21	92	150	150	20
Visayas	2025	8	12	22	86	150	150	20
Visayas	2025	8	12	23	79	150	150	20
Visayas	2025	8	12	24	75	150	150	20
Visayas	2025	8	13	1	72	150	150	20
Visayas	2025	8	13	2	68	150	150	20
Visayas	2025	8	13	3	64	150	150	20
Visayas	2025	8	13	4	62	150	150	20
Visayas	2025	8	13	5	64	150	150	20
Visayas	2025	8	13	6	67	150	150	20
Visayas	2025	8	13	7	66	150	150	20
Visayas	2025	8	13	8	81	150	150	20
Visayas	2025	8	13	9	97	150	150	20
Visayas	2025	8	13	10	105	150	150	20
Visayas	2025	8	13	11	109	150	150	20
Visayas	2025	8	13	12	108	150	150	20
Visayas	2025	8	13	13	109	150	150	20
Visayas	2025	8	13	14	112	150	150	20
Visayas	2025	8	13	15	108	150	150	20
Visayas	2025	8	13	16	105	150	150	20
Visayas	2025	8	13	17	99	150	150	20
Visayas	2025	8	13	18	97	150	150	20
Visayas	2025	8	13	19	100	150	150	20
Visayas	2025	8	13	20	95	150	150	20
Visayas	2025	8	13	21	91	150	150	20
Visayas	2025	8	13	22	84	150	150	20
Visayas	2025	8	13	23	78	150	150	20
Visayas	2025	8	13	24	73	150	150	20
Visayas	2025	8	14	1	69	150	150	20
Visayas	2025	8	14	2	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	14	3	63	150	150	20
Visayas	2025	8	14	4	62	150	150	20
Visayas	2025	8	14	5	63	150	150	20
Visayas	2025	8	14	6	66	150	150	20
Visayas	2025	8	14	7	66	150	150	20
Visayas	2025	8	14	8	79	150	150	20
Visayas	2025	8	14	9	97	150	150	20
Visayas	2025	8	14	10	103	150	150	20
Visayas	2025	8	14	11	111	150	150	20
Visayas	2025	8	14	12	105	150	150	20
Visayas	2025	8	14	13	105	150	150	20
Visayas	2025	8	14	14	112	150	150	20
Visayas	2025	8	14	15	111	150	150	20
Visayas	2025	8	14	16	107	150	150	20
Visayas	2025	8	14	17	99	150	150	20
Visayas	2025	8	14	18	95	150	150	20
Visayas	2025	8	14	19	103	150	150	20
Visayas	2025	8	14	20	96	150	150	20
Visayas	2025	8	14	21	95	150	150	20
Visayas	2025	8	14	22	86	150	150	20
Visayas	2025	8	14	23	80	150	150	20
Visayas	2025	8	14	24	74	150	150	20
Visayas	2025	8	15	1	70	150	150	20
Visayas	2025	8	15	2	66	150	150	20
Visayas	2025	8	15	3	63	150	150	20
Visayas	2025	8	15	4	61	150	150	20
Visayas	2025	8	15	5	62	150	150	20
Visayas	2025	8	15	6	65	150	150	20
Visayas	2025	8	15	7	66	150	150	20
Visayas	2025	8	15	8	79	150	150	20
Visayas	2025	8	15	9	96	150	150	20
Visayas	2025	8	15	10	103	150	150	20
Visayas	2025	8	15	11	109	150	150	20
Visayas	2025	8	15	12	104	150	150	20
Visayas	2025	8	15	13	107	150	150	20
Visayas	2025	8	15	14	112	150	150	20
Visayas	2025	8	15	15	112	150	150	20
Visayas	2025	8	15	16	109	150	150	20
Visayas	2025	8	15	17	101	150	150	20
Visayas	2025	8	15	18	97	150	150	20
Visayas	2025	8	15	19	103	150	150	20
Visayas	2025	8	15	20	99	150	150	20
Visayas	2025	8	15	21	96	150	150	20
Visayas	2025	8	15	22	89	150	150	20
Visayas	2025	8	15	23	84	150	150	20
Visayas	2025	8	15	24	78	150	150	20
Visayas	2025	8	16	1	75	150	150	20
Visayas	2025	8	16	2	71	150	150	20
Visayas	2025	8	16	3	66	150	150	20
Visayas	2025	8	16	4	63	150	150	20
Visayas	2025	8	16	5	62	150	150	20
Visayas	2025	8	16	6	62	150	150	20
Visayas	2025	8	16	7	60	150	150	20
Visayas	2025	8	16	8	68	150	150	20
Visayas	2025	8	16	9	81	150	150	20
Visayas	2025	8	16	10	88	150	150	20
Visayas	2025	8	16	11	92	150	150	20
Visayas	2025	8	16	12	91	150	150	20
Visayas	2025	8	16	13	92	150	150	20
Visayas	2025	8	16	14	96	150	150	20
Visayas	2025	8	16	15	95	150	150	20
Visayas	2025	8	16	16	88	150	150	20
Visayas	2025	8	16	17	84	150	150	20
Visayas	2025	8	16	18	90	150	150	20
Visayas	2025	8	16	19	96	150	150	20
Visayas	2025	8	16	20	93	150	150	20
Visayas	2025	8	16	21	89	150	150	20
Visayas	2025	8	16	22	82	150	150	20
Visayas	2025	8	16	23	76	150	150	20
Visayas	2025	8	16	24	70	150	150	20
Visayas	2025	8	17	1	68	150	150	20
Visayas	2025	8	17	2	65	150	150	20
Visayas	2025	8	17	3	61	150	150	20
Visayas	2025	8	17	4	59	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	17	5	58	150	150	20
Visayas	2025	8	17	6	58	150	150	20
Visayas	2025	8	17	7	56	150	150	20
Visayas	2025	8	17	8	61	150	150	20
Visayas	2025	8	17	9	67	150	150	20
Visayas	2025	8	17	10	73	150	150	20
Visayas	2025	8	17	11	78	150	150	20
Visayas	2025	8	17	12	79	150	150	20
Visayas	2025	8	17	13	79	150	150	20
Visayas	2025	8	17	14	81	150	150	20
Visayas	2025	8	17	15	82	150	150	20
Visayas	2025	8	17	16	77	150	150	20
Visayas	2025	8	17	17	77	150	150	20
Visayas	2025	8	17	18	82	150	150	20
Visayas	2025	8	17	19	92	150	150	20
Visayas	2025	8	17	20	88	150	150	20
Visayas	2025	8	17	21	87	150	150	20
Visayas	2025	8	17	22	82	150	150	20
Visayas	2025	8	17	23	77	150	150	20
Visayas	2025	8	17	24	72	150	150	20
Visayas	2025	8	18	1	66	150	150	20
Visayas	2025	8	18	2	63	150	150	20
Visayas	2025	8	18	3	60	150	150	20
Visayas	2025	8	18	4	59	150	150	20
Visayas	2025	8	18	5	60	150	150	20
Visayas	2025	8	18	6	63	150	150	20
Visayas	2025	8	18	7	64	150	150	20
Visayas	2025	8	18	8	78	150	150	20
Visayas	2025	8	18	9	96	150	150	20
Visayas	2025	8	18	10	105	150	150	20
Visayas	2025	8	18	11	110	150	150	20
Visayas	2025	8	18	12	107	150	150	20
Visayas	2025	8	18	13	108	150	150	20
Visayas	2025	8	18	14	113	150	150	20
Visayas	2025	8	18	15	110	150	150	20
Visayas	2025	8	18	16	108	150	150	20
Visayas	2025	8	18	17	99	150	150	20
Visayas	2025	8	18	18	91	150	150	20
Visayas	2025	8	18	19	100	150	150	20
Visayas	2025	8	18	20	96	150	150	20
Visayas	2025	8	18	21	93	150	150	20
Visayas	2025	8	18	22	86	150	150	20
Visayas	2025	8	18	23	80	150	150	20
Visayas	2025	8	18	24	74	150	150	20
Visayas	2025	8	19	1	67	150	150	20
Visayas	2025	8	19	2	63	150	150	20
Visayas	2025	8	19	3	61	150	150	20
Visayas	2025	8	19	4	59	150	150	20
Visayas	2025	8	19	5	62	150	150	20
Visayas	2025	8	19	6	65	150	150	20
Visayas	2025	8	19	7	65	150	150	20
Visayas	2025	8	19	8	80	150	150	20
Visayas	2025	8	19	9	98	150	150	20
Visayas	2025	8	19	10	104	150	150	20
Visayas	2025	8	19	11	108	150	150	20
Visayas	2025	8	19	12	107	150	150	20
Visayas	2025	8	19	13	109	150	150	20
Visayas	2025	8	19	14	115	150	150	20
Visayas	2025	8	19	15	112	150	150	20
Visayas	2025	8	19	16	109	150	150	20
Visayas	2025	8	19	17	96	150	150	20
Visayas	2025	8	19	18	90	150	150	20
Visayas	2025	8	19	19	94	150	150	20
Visayas	2025	8	19	20	91	150	150	20
Visayas	2025	8	19	21	89	150	150	20
Visayas	2025	8	19	22	84	150	150	20
Visayas	2025	8	19	23	78	150	150	20
Visayas	2025	8	19	24	73	150	150	20
Visayas	2025	8	20	1	69	150	150	20
Visayas	2025	8	20	2	65	150	150	20
Visayas	2025	8	20	3	61	150	150	20
Visayas	2025	8	20	4	61	150	150	20
Visayas	2025	8	20	5	61	150	150	20
Visayas	2025	8	20	6	63	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	20	7	65	150	150	20
Visayas	2025	8	20	8	79	150	150	20
Visayas	2025	8	20	9	96	150	150	20
Visayas	2025	8	20	10	104	150	150	20
Visayas	2025	8	20	11	106	150	150	20
Visayas	2025	8	20	12	103	150	150	20
Visayas	2025	8	20	13	101	150	150	20
Visayas	2025	8	20	14	105	150	150	20
Visayas	2025	8	20	15	108	150	150	20
Visayas	2025	8	20	16	104	150	150	20
Visayas	2025	8	20	17	97	150	150	20
Visayas	2025	8	20	18	99	150	150	20
Visayas	2025	8	20	19	102	150	150	20
Visayas	2025	8	20	20	98	150	150	20
Visayas	2025	8	20	21	92	150	150	20
Visayas	2025	8	20	22	85	150	150	20
Visayas	2025	8	20	23	80	150	150	20
Visayas	2025	8	20	24	75	150	150	20
Visayas	2025	8	21	1	67	150	150	20
Visayas	2025	8	21	2	63	150	150	20
Visayas	2025	8	21	3	60	150	150	20
Visayas	2025	8	21	4	59	150	150	20
Visayas	2025	8	21	5	59	150	150	20
Visayas	2025	8	21	6	59	150	150	20
Visayas	2025	8	21	7	60	150	150	20
Visayas	2025	8	21	8	67	150	150	20
Visayas	2025	8	21	9	79	150	150	20
Visayas	2025	8	21	10	85	150	150	20
Visayas	2025	8	21	11	90	150	150	20
Visayas	2025	8	21	12	87	150	150	20
Visayas	2025	8	21	13	90	150	150	20
Visayas	2025	8	21	14	90	150	150	20
Visayas	2025	8	21	15	93	150	150	20
Visayas	2025	8	21	16	90	150	150	20
Visayas	2025	8	21	17	87	150	150	20
Visayas	2025	8	21	18	88	150	150	20
Visayas	2025	8	21	19	90	150	150	20
Visayas	2025	8	21	20	88	150	150	20
Visayas	2025	8	21	21	84	150	150	20
Visayas	2025	8	21	22	81	150	150	20
Visayas	2025	8	21	23	75	150	150	20
Visayas	2025	8	21	24	72	150	150	20
Visayas	2025	8	22	1	74	150	150	20
Visayas	2025	8	22	2	70	150	150	20
Visayas	2025	8	22	3	66	150	150	20
Visayas	2025	8	22	4	65	150	150	20
Visayas	2025	8	22	5	66	150	150	20
Visayas	2025	8	22	6	68	150	150	20
Visayas	2025	8	22	7	68	150	150	20
Visayas	2025	8	22	8	82	150	150	20
Visayas	2025	8	22	9	99	150	150	20
Visayas	2025	8	22	10	106	150	150	20
Visayas	2025	8	22	11	111	150	150	20
Visayas	2025	8	22	12	111	150	150	20
Visayas	2025	8	22	13	111	150	150	20
Visayas	2025	8	22	14	118	150	150	20
Visayas	2025	8	22	15	114	150	150	20
Visayas	2025	8	22	16	112	150	150	20
Visayas	2025	8	22	17	106	150	150	20
Visayas	2025	8	22	18	103	150	150	20
Visayas	2025	8	22	19	109	150	150	20
Visayas	2025	8	22	20	104	150	150	20
Visayas	2025	8	22	21	101	150	150	20
Visayas	2025	8	22	22	95	150	150	20
Visayas	2025	8	22	23	86	150	150	20
Visayas	2025	8	22	24	82	150	150	20
Visayas	2025	8	23	1	76	150	150	20
Visayas	2025	8	23	2	74	150	150	20
Visayas	2025	8	23	3	69	150	150	20
Visayas	2025	8	23	4	66	150	150	20
Visayas	2025	8	23	5	66	150	150	20
Visayas	2025	8	23	6	67	150	150	20
Visayas	2025	8	23	7	67	150	150	20
Visayas	2025	8	23	8	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	23	9	87	150	150	20
Visayas	2025	8	23	10	94	150	150	20
Visayas	2025	8	23	11	98	150	150	20
Visayas	2025	8	23	12	94	150	150	20
Visayas	2025	8	23	13	95	150	150	20
Visayas	2025	8	23	14	101	150	150	20
Visayas	2025	8	23	15	100	150	150	20
Visayas	2025	8	23	16	98	150	150	20
Visayas	2025	8	23	17	93	150	150	20
Visayas	2025	8	23	18	97	150	150	20
Visayas	2025	8	23	19	101	150	150	20
Visayas	2025	8	23	20	95	150	150	20
Visayas	2025	8	23	21	94	150	150	20
Visayas	2025	8	23	22	88	150	150	20
Visayas	2025	8	23	23	82	150	150	20
Visayas	2025	8	23	24	76	150	150	20
Visayas	2025	8	24	1	72	150	150	20
Visayas	2025	8	24	2	68	150	150	20
Visayas	2025	8	24	3	64	150	150	20
Visayas	2025	8	24	4	63	150	150	20
Visayas	2025	8	24	5	62	150	150	20
Visayas	2025	8	24	6	60	150	150	20
Visayas	2025	8	24	7	60	150	150	20
Visayas	2025	8	24	8	64	150	150	20
Visayas	2025	8	24	9	71	150	150	20
Visayas	2025	8	24	10	74	150	150	20
Visayas	2025	8	24	11	80	150	150	20
Visayas	2025	8	24	12	77	150	150	20
Visayas	2025	8	24	13	74	150	150	20
Visayas	2025	8	24	14	77	150	150	20
Visayas	2025	8	24	15	73	150	150	20
Visayas	2025	8	24	16	77	150	150	20
Visayas	2025	8	24	17	80	150	150	20
Visayas	2025	8	24	18	87	150	150	20
Visayas	2025	8	24	19	88	150	150	20
Visayas	2025	8	24	20	82	150	150	20
Visayas	2025	8	24	21	80	150	150	20
Visayas	2025	8	24	22	76	150	150	20
Visayas	2025	8	24	23	70	150	150	20
Visayas	2025	8	24	24	66	150	150	20
Visayas	2025	8	25	1	61	150	150	20
Visayas	2025	8	25	2	59	150	150	20
Visayas	2025	8	25	3	57	150	150	20
Visayas	2025	8	25	4	52	150	150	20
Visayas	2025	8	25	5	55	150	150	20
Visayas	2025	8	25	6	56	150	150	20
Visayas	2025	8	25	7	56	150	150	20
Visayas	2025	8	25	8	62	150	150	20
Visayas	2025	8	25	9	69	150	150	20
Visayas	2025	8	25	10	72	150	150	20
Visayas	2025	8	25	11	73	150	150	20
Visayas	2025	8	25	12	71	150	150	20
Visayas	2025	8	25	13	73	150	150	20
Visayas	2025	8	25	14	72	150	150	20
Visayas	2025	8	25	15	76	150	150	20
Visayas	2025	8	25	16	75	150	150	20
Visayas	2025	8	25	17	75	150	150	20
Visayas	2025	8	25	18	84	150	150	20
Visayas	2025	8	25	19	86	150	150	20
Visayas	2025	8	25	20	82	150	150	20
Visayas	2025	8	25	21	76	150	150	20
Visayas	2025	8	25	22	71	150	150	20
Visayas	2025	8	25	23	64	150	150	20
Visayas	2025	8	25	24	60	150	150	20
Visayas	2025	8	26	1	57	150	150	20
Visayas	2025	8	26	2	55	150	150	20
Visayas	2025	8	26	3	54	150	150	20
Visayas	2025	8	26	4	53	150	150	20
Visayas	2025	8	26	5	56	150	150	20
Visayas	2025	8	26	6	60	150	150	20
Visayas	2025	8	26	7	58	150	150	20
Visayas	2025	8	26	8	72	150	150	20
Visayas	2025	8	26	9	85	150	150	20
Visayas	2025	8	26	10	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	26	11	91	150	150	20
Visayas	2025	8	26	12	90	150	150	20
Visayas	2025	8	26	13	90	150	150	20
Visayas	2025	8	26	14	96	150	150	20
Visayas	2025	8	26	15	93	150	150	20
Visayas	2025	8	26	16	91	150	150	20
Visayas	2025	8	26	17	87	150	150	20
Visayas	2025	8	26	18	93	150	150	20
Visayas	2025	8	26	19	93	150	150	20
Visayas	2025	8	26	20	87	150	150	20
Visayas	2025	8	26	21	84	150	150	20
Visayas	2025	8	26	22	75	150	150	20
Visayas	2025	8	26	23	69	150	150	20
Visayas	2025	8	26	24	65	150	150	20
Visayas	2025	8	27	1	61	150	150	20
Visayas	2025	8	27	2	58	150	150	20
Visayas	2025	8	27	3	58	150	150	20
Visayas	2025	8	27	4	57	150	150	20
Visayas	2025	8	27	5	60	150	150	20
Visayas	2025	8	27	6	64	150	150	20
Visayas	2025	8	27	7	61	150	150	20
Visayas	2025	8	27	8	77	150	150	20
Visayas	2025	8	27	9	90	150	150	20
Visayas	2025	8	27	10	100	150	150	20
Visayas	2025	8	27	11	102	150	150	20
Visayas	2025	8	27	12	98	150	150	20
Visayas	2025	8	27	13	100	150	150	20
Visayas	2025	8	27	14	105	150	150	20
Visayas	2025	8	27	15	106	150	150	20
Visayas	2025	8	27	16	105	150	150	20
Visayas	2025	8	27	17	96	150	150	20
Visayas	2025	8	27	18	97	150	150	20
Visayas	2025	8	27	19	101	150	150	20
Visayas	2025	8	27	20	96	150	150	20
Visayas	2025	8	27	21	92	150	150	20
Visayas	2025	8	27	22	84	150	150	20
Visayas	2025	8	27	23	77	150	150	20
Visayas	2025	8	27	24	71	150	150	20
Visayas	2025	8	28	1	67	150	150	20
Visayas	2025	8	28	2	64	150	150	20
Visayas	2025	8	28	3	62	150	150	20
Visayas	2025	8	28	4	60	150	150	20
Visayas	2025	8	28	5	64	150	150	20
Visayas	2025	8	28	6	68	150	150	20
Visayas	2025	8	28	7	63	150	150	20
Visayas	2025	8	28	8	76	150	150	20
Visayas	2025	8	28	9	96	150	150	20
Visayas	2025	8	28	10	100	150	150	20
Visayas	2025	8	28	11	106	150	150	20
Visayas	2025	8	28	12	101	150	150	20
Visayas	2025	8	28	13	106	150	150	20
Visayas	2025	8	28	14	114	150	150	20
Visayas	2025	8	28	15	110	150	150	20
Visayas	2025	8	28	16	110	150	150	20
Visayas	2025	8	28	17	101	150	150	20
Visayas	2025	8	28	18	103	150	150	20
Visayas	2025	8	28	19	105	150	150	20
Visayas	2025	8	28	20	100	150	150	20
Visayas	2025	8	28	21	98	150	150	20
Visayas	2025	8	28	22	92	150	150	20
Visayas	2025	8	28	23	85	150	150	20
Visayas	2025	8	28	24	78	150	150	20
Visayas	2025	8	29	1	73	150	150	20
Visayas	2025	8	29	2	71	150	150	20
Visayas	2025	8	29	3	68	150	150	20
Visayas	2025	8	29	4	68	150	150	20
Visayas	2025	8	29	5	68	150	150	20
Visayas	2025	8	29	6	71	150	150	20
Visayas	2025	8	29	7	66	150	150	20
Visayas	2025	8	29	8	82	150	150	20
Visayas	2025	8	29	9	100	150	150	20
Visayas	2025	8	29	10	108	150	150	20
Visayas	2025	8	29	11	113	150	150	20
Visayas	2025	8	29	12	109	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	8	29	13	111	150	150	20
Visayas	2025	8	29	14	118	150	150	20
Visayas	2025	8	29	15	116	150	150	20
Visayas	2025	8	29	16	112	150	150	20
Visayas	2025	8	29	17	103	150	150	20
Visayas	2025	8	29	18	101	150	150	20
Visayas	2025	8	29	19	106	150	150	20
Visayas	2025	8	29	20	100	150	150	20
Visayas	2025	8	29	21	98	150	150	20
Visayas	2025	8	29	22	92	150	150	20
Visayas	2025	8	29	23	85	150	150	20
Visayas	2025	8	29	24	79	150	150	20
Visayas	2025	8	30	1	76	150	150	20
Visayas	2025	8	30	2	73	150	150	20
Visayas	2025	8	30	3	69	150	150	20
Visayas	2025	8	30	4	67	150	150	20
Visayas	2025	8	30	5	67	150	150	20
Visayas	2025	8	30	6	67	150	150	20
Visayas	2025	8	30	7	66	150	150	20
Visayas	2025	8	30	8	75	150	150	20
Visayas	2025	8	30	9	87	150	150	20
Visayas	2025	8	30	10	95	150	150	20
Visayas	2025	8	30	11	96	150	150	20
Visayas	2025	8	30	12	95	150	150	20
Visayas	2025	8	30	13	97	150	150	20
Visayas	2025	8	30	14	99	150	150	20
Visayas	2025	8	30	15	100	150	150	20
Visayas	2025	8	30	16	97	150	150	20
Visayas	2025	8	30	17	92	150	150	20
Visayas	2025	8	30	18	99	150	150	20
Visayas	2025	8	30	19	102	150	150	20
Visayas	2025	8	30	20	97	150	150	20
Visayas	2025	8	30	21	96	150	150	20
Visayas	2025	8	30	22	91	150	150	20
Visayas	2025	8	30	23	83	150	150	20
Visayas	2025	8	30	24	79	150	150	20
Visayas	2025	8	31	1	74	150	150	20
Visayas	2025	8	31	2	70	150	150	20
Visayas	2025	8	31	3	67	150	150	20
Visayas	2025	8	31	4	65	150	150	20
Visayas	2025	8	31	5	65	150	150	20
Visayas	2025	8	31	6	64	150	150	20
Visayas	2025	8	31	7	62	150	150	20
Visayas	2025	8	31	8	66	150	150	20
Visayas	2025	8	31	9	71	150	150	20
Visayas	2025	8	31	10	80	150	150	20
Visayas	2025	8	31	11	80	150	150	20
Visayas	2025	8	31	12	82	150	150	20
Visayas	2025	8	31	13	84	150	150	20
Visayas	2025	8	31	14	86	150	150	20
Visayas	2025	8	31	15	88	150	150	20
Visayas	2025	8	31	16	85	150	150	20
Visayas	2025	8	31	17	85	150	150	20
Visayas	2025	8	31	18	88	150	150	20
Visayas	2025	8	31	19	95	150	150	20
Visayas	2025	8	31	20	95	150	150	20
Visayas	2025	8	31	21	94	150	150	20
Visayas	2025	8	31	22	89	150	150	20
Visayas	2025	8	31	23	82	150	150	20
Visayas	2025	8	31	24	74	150	150	20
Visayas	2025	9	1	1	72	150	150	20
Visayas	2025	9	1	2	68	150	150	20
Visayas	2025	9	1	3	65	150	150	20
Visayas	2025	9	1	4	64	150	150	20
Visayas	2025	9	1	5	69	150	150	20
Visayas	2025	9	1	6	72	150	150	20
Visayas	2025	9	1	7	62	150	150	20
Visayas	2025	9	1	8	78	150	150	20
Visayas	2025	9	1	9	98	150	150	20
Visayas	2025	9	1	10	108	150	150	20
Visayas	2025	9	1	11	112	150	150	20
Visayas	2025	9	1	12	107	150	150	20
Visayas	2025	9	1	13	109	150	150	20
Visayas	2025	9	1	14	115	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	1	15	115	150	150	20
Visayas	2025	9	1	16	112	150	150	20
Visayas	2025	9	1	17	103	150	150	20
Visayas	2025	9	1	18	107	150	150	20
Visayas	2025	9	1	19	107	150	150	20
Visayas	2025	9	1	20	104	150	150	20
Visayas	2025	9	1	21	101	150	150	20
Visayas	2025	9	1	22	94	150	150	20
Visayas	2025	9	1	23	87	150	150	20
Visayas	2025	9	1	24	80	150	150	20
Visayas	2025	9	2	1	75	150	150	20
Visayas	2025	9	2	2	71	150	150	20
Visayas	2025	9	2	3	69	150	150	20
Visayas	2025	9	2	4	67	150	150	20
Visayas	2025	9	2	5	70	150	150	20
Visayas	2025	9	2	6	74	150	150	20
Visayas	2025	9	2	7	68	150	150	20
Visayas	2025	9	2	8	82	150	150	20
Visayas	2025	9	2	9	100	150	150	20
Visayas	2025	9	2	10	108	150	150	20
Visayas	2025	9	2	11	113	150	150	20
Visayas	2025	9	2	12	111	150	150	20
Visayas	2025	9	2	13	115	150	150	20
Visayas	2025	9	2	14	119	150	150	20
Visayas	2025	9	2	15	117	150	150	20
Visayas	2025	9	2	16	114	150	150	20
Visayas	2025	9	2	17	107	150	150	20
Visayas	2025	9	2	18	109	150	150	20
Visayas	2025	9	2	19	110	150	150	20
Visayas	2025	9	2	20	106	150	150	20
Visayas	2025	9	2	21	102	150	150	20
Visayas	2025	9	2	22	95	150	150	20
Visayas	2025	9	2	23	87	150	150	20
Visayas	2025	9	2	24	80	150	150	20
Visayas	2025	9	3	1	76	150	150	20
Visayas	2025	9	3	2	73	150	150	20
Visayas	2025	9	3	3	68	150	150	20
Visayas	2025	9	3	4	67	150	150	20
Visayas	2025	9	3	5	71	150	150	20
Visayas	2025	9	3	6	74	150	150	20
Visayas	2025	9	3	7	66	150	150	20
Visayas	2025	9	3	8	82	150	150	20
Visayas	2025	9	3	9	101	150	150	20
Visayas	2025	9	3	10	111	150	150	20
Visayas	2025	9	3	11	116	150	150	20
Visayas	2025	9	3	12	114	150	150	20
Visayas	2025	9	3	13	114	150	150	20
Visayas	2025	9	3	14	120	150	150	20
Visayas	2025	9	3	15	119	150	150	20
Visayas	2025	9	3	16	116	150	150	20
Visayas	2025	9	3	17	107	150	150	20
Visayas	2025	9	3	18	110	150	150	20
Visayas	2025	9	3	19	111	150	150	20
Visayas	2025	9	3	20	108	150	150	20
Visayas	2025	9	3	21	104	150	150	20
Visayas	2025	9	3	22	96	150	150	20
Visayas	2025	9	3	23	88	150	150	20
Visayas	2025	9	3	24	81	150	150	20
Visayas	2025	9	4	1	77	150	150	20
Visayas	2025	9	4	2	73	150	150	20
Visayas	2025	9	4	3	68	150	150	20
Visayas	2025	9	4	4	67	150	150	20
Visayas	2025	9	4	5	70	150	150	20
Visayas	2025	9	4	6	73	150	150	20
Visayas	2025	9	4	7	66	150	150	20
Visayas	2025	9	4	8	82	150	150	20
Visayas	2025	9	4	9	100	150	150	20
Visayas	2025	9	4	10	108	150	150	20
Visayas	2025	9	4	11	110	150	150	20
Visayas	2025	9	4	12	109	150	150	20
Visayas	2025	9	4	13	111	150	150	20
Visayas	2025	9	4	14	117	150	150	20
Visayas	2025	9	4	15	118	150	150	20
Visayas	2025	9	4	16	114	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	4	17	103	150	150	20
Visayas	2025	9	4	18	108	150	150	20
Visayas	2025	9	4	19	111	150	150	20
Visayas	2025	9	4	20	107	150	150	20
Visayas	2025	9	4	21	103	150	150	20
Visayas	2025	9	4	22	95	150	150	20
Visayas	2025	9	4	23	87	150	150	20
Visayas	2025	9	4	24	81	150	150	20
Visayas	2025	9	5	1	78	150	150	20
Visayas	2025	9	5	2	74	150	150	20
Visayas	2025	9	5	3	70	150	150	20
Visayas	2025	9	5	4	68	150	150	20
Visayas	2025	9	5	5	71	150	150	20
Visayas	2025	9	5	6	72	150	150	20
Visayas	2025	9	5	7	68	150	150	20
Visayas	2025	9	5	8	84	150	150	20
Visayas	2025	9	5	9	99	150	150	20
Visayas	2025	9	5	10	109	150	150	20
Visayas	2025	9	5	11	113	150	150	20
Visayas	2025	9	5	12	110	150	150	20
Visayas	2025	9	5	13	109	150	150	20
Visayas	2025	9	5	14	113	150	150	20
Visayas	2025	9	5	15	110	150	150	20
Visayas	2025	9	5	16	107	150	150	20
Visayas	2025	9	5	17	99	150	150	20
Visayas	2025	9	5	18	101	150	150	20
Visayas	2025	9	5	19	102	150	150	20
Visayas	2025	9	5	20	98	150	150	20
Visayas	2025	9	5	21	93	150	150	20
Visayas	2025	9	5	22	87	150	150	20
Visayas	2025	9	5	23	81	150	150	20
Visayas	2025	9	5	24	75	150	150	20
Visayas	2025	9	6	1	72	150	150	20
Visayas	2025	9	6	2	68	150	150	20
Visayas	2025	9	6	3	65	150	150	20
Visayas	2025	9	6	4	62	150	150	20
Visayas	2025	9	6	5	62	150	150	20
Visayas	2025	9	6	6	62	150	150	20
Visayas	2025	9	6	7	62	150	150	20
Visayas	2025	9	6	8	73	150	150	20
Visayas	2025	9	6	9	79	150	150	20
Visayas	2025	9	6	10	87	150	150	20
Visayas	2025	9	6	11	91	150	150	20
Visayas	2025	9	6	12	94	150	150	20
Visayas	2025	9	6	13	96	150	150	20
Visayas	2025	9	6	14	96	150	150	20
Visayas	2025	9	6	15	99	150	150	20
Visayas	2025	9	6	16	94	150	150	20
Visayas	2025	9	6	17	90	150	150	20
Visayas	2025	9	6	18	98	150	150	20
Visayas	2025	9	6	19	100	150	150	20
Visayas	2025	9	6	20	96	150	150	20
Visayas	2025	9	6	21	93	150	150	20
Visayas	2025	9	6	22	87	150	150	20
Visayas	2025	9	6	23	82	150	150	20
Visayas	2025	9	6	24	76	150	150	20
Visayas	2025	9	7	1	72	150	150	20
Visayas	2025	9	7	2	68	150	150	20
Visayas	2025	9	7	3	65	150	150	20
Visayas	2025	9	7	4	60	150	150	20
Visayas	2025	9	7	5	59	150	150	20
Visayas	2025	9	7	6	58	150	150	20
Visayas	2025	9	7	7	58	150	150	20
Visayas	2025	9	7	8	60	150	150	20
Visayas	2025	9	7	9	67	150	150	20
Visayas	2025	9	7	10	75	150	150	20
Visayas	2025	9	7	11	80	150	150	20
Visayas	2025	9	7	12	79	150	150	20
Visayas	2025	9	7	13	81	150	150	20
Visayas	2025	9	7	14	83	150	150	20
Visayas	2025	9	7	15	83	150	150	20
Visayas	2025	9	7	16	80	150	150	20
Visayas	2025	9	7	17	82	150	150	20
Visayas	2025	9	7	18	90	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	7	19	95	150	150	20
Visayas	2025	9	7	20	94	150	150	20
Visayas	2025	9	7	21	90	150	150	20
Visayas	2025	9	7	22	84	150	150	20
Visayas	2025	9	7	23	78	150	150	20
Visayas	2025	9	7	24	72	150	150	20
Visayas	2025	9	8	1	65	150	150	20
Visayas	2025	9	8	2	62	150	150	20
Visayas	2025	9	8	3	60	150	150	20
Visayas	2025	9	8	4	59	150	150	20
Visayas	2025	9	8	5	63	150	150	20
Visayas	2025	9	8	6	66	150	150	20
Visayas	2025	9	8	7	62	150	150	20
Visayas	2025	9	8	8	77	150	150	20
Visayas	2025	9	8	9	96	150	150	20
Visayas	2025	9	8	10	106	150	150	20
Visayas	2025	9	8	11	110	150	150	20
Visayas	2025	9	8	12	109	150	150	20
Visayas	2025	9	8	13	110	150	150	20
Visayas	2025	9	8	14	117	150	150	20
Visayas	2025	9	8	15	114	150	150	20
Visayas	2025	9	8	16	107	150	150	20
Visayas	2025	9	8	17	98	150	150	20
Visayas	2025	9	8	18	102	150	150	20
Visayas	2025	9	8	19	103	150	150	20
Visayas	2025	9	8	20	100	150	150	20
Visayas	2025	9	8	21	95	150	150	20
Visayas	2025	9	8	22	88	150	150	20
Visayas	2025	9	8	23	81	150	150	20
Visayas	2025	9	8	24	75	150	150	20
Visayas	2025	9	9	1	71	150	150	20
Visayas	2025	9	9	2	67	150	150	20
Visayas	2025	9	9	3	64	150	150	20
Visayas	2025	9	9	4	63	150	150	20
Visayas	2025	9	9	5	67	150	150	20
Visayas	2025	9	9	6	71	150	150	20
Visayas	2025	9	9	7	65	150	150	20
Visayas	2025	9	9	8	80	150	150	20
Visayas	2025	9	9	9	97	150	150	20
Visayas	2025	9	9	10	106	150	150	20
Visayas	2025	9	9	11	111	150	150	20
Visayas	2025	9	9	12	107	150	150	20
Visayas	2025	9	9	13	107	150	150	20
Visayas	2025	9	9	14	114	150	150	20
Visayas	2025	9	9	15	113	150	150	20
Visayas	2025	9	9	16	104	150	150	20
Visayas	2025	9	9	17	98	150	150	20
Visayas	2025	9	9	18	101	150	150	20
Visayas	2025	9	9	19	98	150	150	20
Visayas	2025	9	9	20	95	150	150	20
Visayas	2025	9	9	21	91	150	150	20
Visayas	2025	9	9	22	83	150	150	20
Visayas	2025	9	9	23	76	150	150	20
Visayas	2025	9	9	24	71	150	150	20
Visayas	2025	9	10	1	68	150	150	20
Visayas	2025	9	10	2	65	150	150	20
Visayas	2025	9	10	3	62	150	150	20
Visayas	2025	9	10	4	62	150	150	20
Visayas	2025	9	10	5	65	150	150	20
Visayas	2025	9	10	6	70	150	150	20
Visayas	2025	9	10	7	63	150	150	20
Visayas	2025	9	10	8	79	150	150	20
Visayas	2025	9	10	9	97	150	150	20
Visayas	2025	9	10	10	104	150	150	20
Visayas	2025	9	10	11	109	150	150	20
Visayas	2025	9	10	12	103	150	150	20
Visayas	2025	9	10	13	102	150	150	20
Visayas	2025	9	10	14	102	150	150	20
Visayas	2025	9	10	15	102	150	150	20
Visayas	2025	9	10	16	99	150	150	20
Visayas	2025	9	10	17	94	150	150	20
Visayas	2025	9	10	18	99	150	150	20
Visayas	2025	9	10	19	98	150	150	20
Visayas	2025	9	10	20	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	10	21	89	150	150	20
Visayas	2025	9	10	22	81	150	150	20
Visayas	2025	9	10	23	75	150	150	20
Visayas	2025	9	10	24	69	150	150	20
Visayas	2025	9	11	1	67	150	150	20
Visayas	2025	9	11	2	62	150	150	20
Visayas	2025	9	11	3	58	150	150	20
Visayas	2025	9	11	4	56	150	150	20
Visayas	2025	9	11	5	61	150	150	20
Visayas	2025	9	11	6	66	150	150	20
Visayas	2025	9	11	7	60	150	150	20
Visayas	2025	9	11	8	75	150	150	20
Visayas	2025	9	11	9	91	150	150	20
Visayas	2025	9	11	10	100	150	150	20
Visayas	2025	9	11	11	104	150	150	20
Visayas	2025	9	11	12	101	150	150	20
Visayas	2025	9	11	13	101	150	150	20
Visayas	2025	9	11	14	109	150	150	20
Visayas	2025	9	11	15	107	150	150	20
Visayas	2025	9	11	16	103	150	150	20
Visayas	2025	9	11	17	97	150	150	20
Visayas	2025	9	11	18	102	150	150	20
Visayas	2025	9	11	19	101	150	150	20
Visayas	2025	9	11	20	97	150	150	20
Visayas	2025	9	11	21	92	150	150	20
Visayas	2025	9	11	22	83	150	150	20
Visayas	2025	9	11	23	77	150	150	20
Visayas	2025	9	11	24	71	150	150	20
Visayas	2025	9	12	1	67	150	150	20
Visayas	2025	9	12	2	64	150	150	20
Visayas	2025	9	12	3	61	150	150	20
Visayas	2025	9	12	4	60	150	150	20
Visayas	2025	9	12	5	63	150	150	20
Visayas	2025	9	12	6	67	150	150	20
Visayas	2025	9	12	7	62	150	150	20
Visayas	2025	9	12	8	76	150	150	20
Visayas	2025	9	12	9	93	150	150	20
Visayas	2025	9	12	10	100	150	150	20
Visayas	2025	9	12	11	105	150	150	20
Visayas	2025	9	12	12	102	150	150	20
Visayas	2025	9	12	13	105	150	150	20
Visayas	2025	9	12	14	110	150	150	20
Visayas	2025	9	12	15	109	150	150	20
Visayas	2025	9	12	16	106	150	150	20
Visayas	2025	9	12	17	99	150	150	20
Visayas	2025	9	12	18	102	150	150	20
Visayas	2025	9	12	19	102	150	150	20
Visayas	2025	9	12	20	96	150	150	20
Visayas	2025	9	12	21	91	150	150	20
Visayas	2025	9	12	22	84	150	150	20
Visayas	2025	9	12	23	78	150	150	20
Visayas	2025	9	12	24	72	150	150	20
Visayas	2025	9	13	1	69	150	150	20
Visayas	2025	9	13	2	66	150	150	20
Visayas	2025	9	13	3	62	150	150	20
Visayas	2025	9	13	4	60	150	150	20
Visayas	2025	9	13	5	61	150	150	20
Visayas	2025	9	13	6	59	150	150	20
Visayas	2025	9	13	7	57	150	150	20
Visayas	2025	9	13	8	66	150	150	20
Visayas	2025	9	13	9	77	150	150	20
Visayas	2025	9	13	10	85	150	150	20
Visayas	2025	9	13	11	89	150	150	20
Visayas	2025	9	13	12	87	150	150	20
Visayas	2025	9	13	13	89	150	150	20
Visayas	2025	9	13	14	93	150	150	20
Visayas	2025	9	13	15	92	150	150	20
Visayas	2025	9	13	16	89	150	150	20
Visayas	2025	9	13	17	87	150	150	20
Visayas	2025	9	13	18	96	150	150	20
Visayas	2025	9	13	19	98	150	150	20
Visayas	2025	9	13	20	93	150	150	20
Visayas	2025	9	13	21	86	150	150	20
Visayas	2025	9	13	22	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	13	23	76	150	150	20
Visayas	2025	9	13	24	72	150	150	20
Visayas	2025	9	14	1	67	150	150	20
Visayas	2025	9	14	2	64	150	150	20
Visayas	2025	9	14	3	61	150	150	20
Visayas	2025	9	14	4	59	150	150	20
Visayas	2025	9	14	5	59	150	150	20
Visayas	2025	9	14	6	57	150	150	20
Visayas	2025	9	14	7	56	150	150	20
Visayas	2025	9	14	8	59	150	150	20
Visayas	2025	9	14	9	68	150	150	20
Visayas	2025	9	14	10	73	150	150	20
Visayas	2025	9	14	11	77	150	150	20
Visayas	2025	9	14	12	80	150	150	20
Visayas	2025	9	14	13	81	150	150	20
Visayas	2025	9	14	14	83	150	150	20
Visayas	2025	9	14	15	83	150	150	20
Visayas	2025	9	14	16	80	150	150	20
Visayas	2025	9	14	17	82	150	150	20
Visayas	2025	9	14	18	94	150	150	20
Visayas	2025	9	14	19	96	150	150	20
Visayas	2025	9	14	20	93	150	150	20
Visayas	2025	9	14	21	90	150	150	20
Visayas	2025	9	14	22	84	150	150	20
Visayas	2025	9	14	23	78	150	150	20
Visayas	2025	9	14	24	71	150	150	20
Visayas	2025	9	15	1	66	150	150	20
Visayas	2025	9	15	2	62	150	150	20
Visayas	2025	9	15	3	59	150	150	20
Visayas	2025	9	15	4	58	150	150	20
Visayas	2025	9	15	5	63	150	150	20
Visayas	2025	9	15	6	68	150	150	20
Visayas	2025	9	15	7	62	150	150	20
Visayas	2025	9	15	8	79	150	150	20
Visayas	2025	9	15	9	98	150	150	20
Visayas	2025	9	15	10	108	150	150	20
Visayas	2025	9	15	11	111	150	150	20
Visayas	2025	9	15	12	107	150	150	20
Visayas	2025	9	15	13	110	150	150	20
Visayas	2025	9	15	14	116	150	150	20
Visayas	2025	9	15	15	115	150	150	20
Visayas	2025	9	15	16	111	150	150	20
Visayas	2025	9	15	17	104	150	150	20
Visayas	2025	9	15	18	109	150	150	20
Visayas	2025	9	15	19	108	150	150	20
Visayas	2025	9	15	20	105	150	150	20
Visayas	2025	9	15	21	100	150	150	20
Visayas	2025	9	15	22	90	150	150	20
Visayas	2025	9	15	23	82	150	150	20
Visayas	2025	9	15	24	76	150	150	20
Visayas	2025	9	16	1	71	150	150	20
Visayas	2025	9	16	2	67	150	150	20
Visayas	2025	9	16	3	64	150	150	20
Visayas	2025	9	16	4	61	150	150	20
Visayas	2025	9	16	5	66	150	150	20
Visayas	2025	9	16	6	69	150	150	20
Visayas	2025	9	16	7	64	150	150	20
Visayas	2025	9	16	8	80	150	150	20
Visayas	2025	9	16	9	98	150	150	20
Visayas	2025	9	16	10	109	150	150	20
Visayas	2025	9	16	11	112	150	150	20
Visayas	2025	9	16	12	109	150	150	20
Visayas	2025	9	16	13	111	150	150	20
Visayas	2025	9	16	14	117	150	150	20
Visayas	2025	9	16	15	115	150	150	20
Visayas	2025	9	16	16	112	150	150	20
Visayas	2025	9	16	17	104	150	150	20
Visayas	2025	9	16	18	109	150	150	20
Visayas	2025	9	16	19	107	150	150	20
Visayas	2025	9	16	20	104	150	150	20
Visayas	2025	9	16	21	99	150	150	20
Visayas	2025	9	16	22	90	150	150	20
Visayas	2025	9	16	23	83	150	150	20
Visayas	2025	9	16	24	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	17	1	71	150	150	20
Visayas	2025	9	17	2	68	150	150	20
Visayas	2025	9	17	3	65	150	150	20
Visayas	2025	9	17	4	64	150	150	20
Visayas	2025	9	17	5	67	150	150	20
Visayas	2025	9	17	6	71	150	150	20
Visayas	2025	9	17	7	66	150	150	20
Visayas	2025	9	17	8	82	150	150	20
Visayas	2025	9	17	9	99	150	150	20
Visayas	2025	9	17	10	108	150	150	20
Visayas	2025	9	17	11	113	150	150	20
Visayas	2025	9	17	12	111	150	150	20
Visayas	2025	9	17	13	113	150	150	20
Visayas	2025	9	17	14	115	150	150	20
Visayas	2025	9	17	15	116	150	150	20
Visayas	2025	9	17	16	113	150	150	20
Visayas	2025	9	17	17	105	150	150	20
Visayas	2025	9	17	18	109	150	150	20
Visayas	2025	9	17	19	106	150	150	20
Visayas	2025	9	17	20	102	150	150	20
Visayas	2025	9	17	21	93	150	150	20
Visayas	2025	9	17	22	85	150	150	20
Visayas	2025	9	17	23	80	150	150	20
Visayas	2025	9	17	24	75	150	150	20
Visayas	2025	9	18	1	71	150	150	20
Visayas	2025	9	18	2	68	150	150	20
Visayas	2025	9	18	3	64	150	150	20
Visayas	2025	9	18	4	63	150	150	20
Visayas	2025	9	18	5	67	150	150	20
Visayas	2025	9	18	6	72	150	150	20
Visayas	2025	9	18	7	66	150	150	20
Visayas	2025	9	18	8	77	150	150	20
Visayas	2025	9	18	9	94	150	150	20
Visayas	2025	9	18	10	100	150	150	20
Visayas	2025	9	18	11	103	150	150	20
Visayas	2025	9	18	12	100	150	150	20
Visayas	2025	9	18	13	101	150	150	20
Visayas	2025	9	18	14	107	150	150	20
Visayas	2025	9	18	15	107	150	150	20
Visayas	2025	9	18	16	105	150	150	20
Visayas	2025	9	18	17	99	150	150	20
Visayas	2025	9	18	18	107	150	150	20
Visayas	2025	9	18	19	104	150	150	20
Visayas	2025	9	18	20	100	150	150	20
Visayas	2025	9	18	21	94	150	150	20
Visayas	2025	9	18	22	86	150	150	20
Visayas	2025	9	18	23	80	150	150	20
Visayas	2025	9	18	24	74	150	150	20
Visayas	2025	9	19	1	70	150	150	20
Visayas	2025	9	19	2	66	150	150	20
Visayas	2025	9	19	3	62	150	150	20
Visayas	2025	9	19	4	61	150	150	20
Visayas	2025	9	19	5	64	150	150	20
Visayas	2025	9	19	6	67	150	150	20
Visayas	2025	9	19	7	64	150	150	20
Visayas	2025	9	19	8	74	150	150	20
Visayas	2025	9	19	9	89	150	150	20
Visayas	2025	9	19	10	97	150	150	20
Visayas	2025	9	19	11	102	150	150	20
Visayas	2025	9	19	12	100	150	150	20
Visayas	2025	9	19	13	98	150	150	20
Visayas	2025	9	19	14	105	150	150	20
Visayas	2025	9	19	15	103	150	150	20
Visayas	2025	9	19	16	100	150	150	20
Visayas	2025	9	19	17	94	150	150	20
Visayas	2025	9	19	18	101	150	150	20
Visayas	2025	9	19	19	97	150	150	20
Visayas	2025	9	19	20	91	150	150	20
Visayas	2025	9	19	21	87	150	150	20
Visayas	2025	9	19	22	79	150	150	20
Visayas	2025	9	19	23	73	150	150	20
Visayas	2025	9	19	24	69	150	150	20
Visayas	2025	9	20	1	64	150	150	20
Visayas	2025	9	20	2	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	20	3	59	150	150	20
Visayas	2025	9	20	4	58	150	150	20
Visayas	2025	9	20	5	59	150	150	20
Visayas	2025	9	20	6	59	150	150	20
Visayas	2025	9	20	7	59	150	150	20
Visayas	2025	9	20	8	69	150	150	20
Visayas	2025	9	20	9	80	150	150	20
Visayas	2025	9	20	10	87	150	150	20
Visayas	2025	9	20	11	90	150	150	20
Visayas	2025	9	20	12	88	150	150	20
Visayas	2025	9	20	13	87	150	150	20
Visayas	2025	9	20	14	89	150	150	20
Visayas	2025	9	20	15	87	150	150	20
Visayas	2025	9	20	16	85	150	150	20
Visayas	2025	9	20	17	84	150	150	20
Visayas	2025	9	20	18	93	150	150	20
Visayas	2025	9	20	19	92	150	150	20
Visayas	2025	9	20	20	87	150	150	20
Visayas	2025	9	20	21	82	150	150	20
Visayas	2025	9	20	22	76	150	150	20
Visayas	2025	9	20	23	71	150	150	20
Visayas	2025	9	20	24	65	150	150	20
Visayas	2025	9	21	1	63	150	150	20
Visayas	2025	9	21	2	60	150	150	20
Visayas	2025	9	21	3	58	150	150	20
Visayas	2025	9	21	4	57	150	150	20
Visayas	2025	9	21	5	57	150	150	20
Visayas	2025	9	21	6	57	150	150	20
Visayas	2025	9	21	7	56	150	150	20
Visayas	2025	9	21	8	60	150	150	20
Visayas	2025	9	21	9	66	150	150	20
Visayas	2025	9	21	10	72	150	150	20
Visayas	2025	9	21	11	76	150	150	20
Visayas	2025	9	21	12	75	150	150	20
Visayas	2025	9	21	13	77	150	150	20
Visayas	2025	9	21	14	78	150	150	20
Visayas	2025	9	21	15	78	150	150	20
Visayas	2025	9	21	16	76	150	150	20
Visayas	2025	9	21	17	78	150	150	20
Visayas	2025	9	21	18	92	150	150	20
Visayas	2025	9	21	19	90	150	150	20
Visayas	2025	9	21	20	88	150	150	20
Visayas	2025	9	21	21	85	150	150	20
Visayas	2025	9	21	22	78	150	150	20
Visayas	2025	9	21	23	72	150	150	20
Visayas	2025	9	21	24	67	150	150	20
Visayas	2025	9	22	1	63	150	150	20
Visayas	2025	9	22	2	60	150	150	20
Visayas	2025	9	22	3	58	150	150	20
Visayas	2025	9	22	4	57	150	150	20
Visayas	2025	9	22	5	62	150	150	20
Visayas	2025	9	22	6	65	150	150	20
Visayas	2025	9	22	7	62	150	150	20
Visayas	2025	9	22	8	78	150	150	20
Visayas	2025	9	22	9	95	150	150	20
Visayas	2025	9	22	10	105	150	150	20
Visayas	2025	9	22	11	108	150	150	20
Visayas	2025	9	22	12	104	150	150	20
Visayas	2025	9	22	13	107	150	150	20
Visayas	2025	9	22	14	112	150	150	20
Visayas	2025	9	22	15	107	150	150	20
Visayas	2025	9	22	16	103	150	150	20
Visayas	2025	9	22	17	98	150	150	20
Visayas	2025	9	22	18	105	150	150	20
Visayas	2025	9	22	19	100	150	150	20
Visayas	2025	9	22	20	96	150	150	20
Visayas	2025	9	22	21	90	150	150	20
Visayas	2025	9	22	22	83	150	150	20
Visayas	2025	9	22	23	77	150	150	20
Visayas	2025	9	22	24	71	150	150	20
Visayas	2025	9	23	1	67	150	150	20
Visayas	2025	9	23	2	63	150	150	20
Visayas	2025	9	23	3	61	150	150	20
Visayas	2025	9	23	4	61	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	23	5	65	150	150	20
Visayas	2025	9	23	6	69	150	150	20
Visayas	2025	9	23	7	63	150	150	20
Visayas	2025	9	23	8	79	150	150	20
Visayas	2025	9	23	9	96	150	150	20
Visayas	2025	9	23	10	106	150	150	20
Visayas	2025	9	23	11	111	150	150	20
Visayas	2025	9	23	12	107	150	150	20
Visayas	2025	9	23	13	99	150	150	20
Visayas	2025	9	23	14	114	150	150	20
Visayas	2025	9	23	15	114	150	150	20
Visayas	2025	9	23	16	110	150	150	20
Visayas	2025	9	23	17	102	150	150	20
Visayas	2025	9	23	18	108	150	150	20
Visayas	2025	9	23	19	105	150	150	20
Visayas	2025	9	23	20	100	150	150	20
Visayas	2025	9	23	21	93	150	150	20
Visayas	2025	9	23	22	86	150	150	20
Visayas	2025	9	23	23	80	150	150	20
Visayas	2025	9	23	24	74	150	150	20
Visayas	2025	9	24	1	70	150	150	20
Visayas	2025	9	24	2	67	150	150	20
Visayas	2025	9	24	3	64	150	150	20
Visayas	2025	9	24	4	63	150	150	20
Visayas	2025	9	24	5	67	150	150	20
Visayas	2025	9	24	6	70	150	150	20
Visayas	2025	9	24	7	66	150	150	20
Visayas	2025	9	24	8	78	150	150	20
Visayas	2025	9	24	9	96	150	150	20
Visayas	2025	9	24	10	105	150	150	20
Visayas	2025	9	24	11	108	150	150	20
Visayas	2025	9	24	12	105	150	150	20
Visayas	2025	9	24	13	106	150	150	20
Visayas	2025	9	24	14	114	150	150	20
Visayas	2025	9	24	15	110	150	150	20
Visayas	2025	9	24	16	107	150	150	20
Visayas	2025	9	24	17	99	150	150	20
Visayas	2025	9	24	18	106	150	150	20
Visayas	2025	9	24	19	103	150	150	20
Visayas	2025	9	24	20	99	150	150	20
Visayas	2025	9	24	21	94	150	150	20
Visayas	2025	9	24	22	85	150	150	20
Visayas	2025	9	24	23	79	150	150	20
Visayas	2025	9	24	24	74	150	150	20
Visayas	2025	9	25	1	69	150	150	20
Visayas	2025	9	25	2	65	150	150	20
Visayas	2025	9	25	3	63	150	150	20
Visayas	2025	9	25	4	62	150	150	20
Visayas	2025	9	25	5	65	150	150	20
Visayas	2025	9	25	6	69	150	150	20
Visayas	2025	9	25	7	65	150	150	20
Visayas	2025	9	25	8	79	150	150	20
Visayas	2025	9	25	9	96	150	150	20
Visayas	2025	9	25	10	104	150	150	20
Visayas	2025	9	25	11	109	150	150	20
Visayas	2025	9	25	12	107	150	150	20
Visayas	2025	9	25	13	107	150	150	20
Visayas	2025	9	25	14	110	150	150	20
Visayas	2025	9	25	15	109	150	150	20
Visayas	2025	9	25	16	104	150	150	20
Visayas	2025	9	25	17	99	150	150	20
Visayas	2025	9	25	18	106	150	150	20
Visayas	2025	9	25	19	101	150	150	20
Visayas	2025	9	25	20	97	150	150	20
Visayas	2025	9	25	21	92	150	150	20
Visayas	2025	9	25	22	85	150	150	20
Visayas	2025	9	25	23	78	150	150	20
Visayas	2025	9	25	24	73	150	150	20
Visayas	2025	9	26	1	68	150	150	20
Visayas	2025	9	26	2	64	150	150	20
Visayas	2025	9	26	3	63	150	150	20
Visayas	2025	9	26	4	61	150	150	20
Visayas	2025	9	26	5	66	150	150	20
Visayas	2025	9	26	6	69	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	26	7	65	150	150	20
Visayas	2025	9	26	8	79	150	150	20
Visayas	2025	9	26	9	96	150	150	20
Visayas	2025	9	26	10	105	150	150	20
Visayas	2025	9	26	11	110	150	150	20
Visayas	2025	9	26	12	105	150	150	20
Visayas	2025	9	26	13	108	150	150	20
Visayas	2025	9	26	14	111	150	150	20
Visayas	2025	9	26	15	107	150	150	20
Visayas	2025	9	26	16	102	150	150	20
Visayas	2025	9	26	17	100	150	150	20
Visayas	2025	9	26	18	106	150	150	20
Visayas	2025	9	26	19	101	150	150	20
Visayas	2025	9	26	20	97	150	150	20
Visayas	2025	9	26	21	92	150	150	20
Visayas	2025	9	26	22	86	150	150	20
Visayas	2025	9	26	23	79	150	150	20
Visayas	2025	9	26	24	73	150	150	20
Visayas	2025	9	27	1	69	150	150	20
Visayas	2025	9	27	2	66	150	150	20
Visayas	2025	9	27	3	63	150	150	20
Visayas	2025	9	27	4	62	150	150	20
Visayas	2025	9	27	5	62	150	150	20
Visayas	2025	9	27	6	63	150	150	20
Visayas	2025	9	27	7	63	150	150	20
Visayas	2025	9	27	8	71	150	150	20
Visayas	2025	9	27	9	81	150	150	20
Visayas	2025	9	27	10	89	150	150	20
Visayas	2025	9	27	11	96	150	150	20
Visayas	2025	9	27	12	93	150	150	20
Visayas	2025	9	27	13	93	150	150	20
Visayas	2025	9	27	14	97	150	150	20
Visayas	2025	9	27	15	95	150	150	20
Visayas	2025	9	27	16	93	150	150	20
Visayas	2025	9	27	17	91	150	150	20
Visayas	2025	9	27	18	102	150	150	20
Visayas	2025	9	27	19	99	150	150	20
Visayas	2025	9	27	20	95	150	150	20
Visayas	2025	9	27	21	91	150	150	20
Visayas	2025	9	27	22	85	150	150	20
Visayas	2025	9	27	23	79	150	150	20
Visayas	2025	9	27	24	74	150	150	20
Visayas	2025	9	28	1	70	150	150	20
Visayas	2025	9	28	2	67	150	150	20
Visayas	2025	9	28	3	62	150	150	20
Visayas	2025	9	28	4	61	150	150	20
Visayas	2025	9	28	5	58	150	150	20
Visayas	2025	9	28	6	56	150	150	20
Visayas	2025	9	28	7	56	150	150	20
Visayas	2025	9	28	8	59	150	150	20
Visayas	2025	9	28	9	66	150	150	20
Visayas	2025	9	28	10	71	150	150	20
Visayas	2025	9	28	11	73	150	150	20
Visayas	2025	9	28	12	74	150	150	20
Visayas	2025	9	28	13	76	150	150	20
Visayas	2025	9	28	14	77	150	150	20
Visayas	2025	9	28	15	78	150	150	20
Visayas	2025	9	28	16	74	150	150	20
Visayas	2025	9	28	17	76	150	150	20
Visayas	2025	9	28	18	90	150	150	20
Visayas	2025	9	28	19	90	150	150	20
Visayas	2025	9	28	20	92	150	150	20
Visayas	2025	9	28	21	88	150	150	20
Visayas	2025	9	28	22	83	150	150	20
Visayas	2025	9	28	23	76	150	150	20
Visayas	2025	9	28	24	71	150	150	20
Visayas	2025	9	29	1	67	150	150	20
Visayas	2025	9	29	2	63	150	150	20
Visayas	2025	9	29	3	61	150	150	20
Visayas	2025	9	29	4	59	150	150	20
Visayas	2025	9	29	5	62	150	150	20
Visayas	2025	9	29	6	67	150	150	20
Visayas	2025	9	29	7	63	150	150	20
Visayas	2025	9	29	8	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	9	29	9	94	150	150	20
Visayas	2025	9	29	10	102	150	150	20
Visayas	2025	9	29	11	106	150	150	20
Visayas	2025	9	29	12	104	150	150	20
Visayas	2025	9	29	13	105	150	150	20
Visayas	2025	9	29	14	112	150	150	20
Visayas	2025	9	29	15	112	150	150	20
Visayas	2025	9	29	16	110	150	150	20
Visayas	2025	9	29	17	103	150	150	20
Visayas	2025	9	29	18	110	150	150	20
Visayas	2025	9	29	19	105	150	150	20
Visayas	2025	9	29	20	101	150	150	20
Visayas	2025	9	29	21	97	150	150	20
Visayas	2025	9	29	22	89	150	150	20
Visayas	2025	9	29	23	83	150	150	20
Visayas	2025	9	29	24	76	150	150	20
Visayas	2025	9	30	1	73	150	150	20
Visayas	2025	9	30	2	70	150	150	20
Visayas	2025	9	30	3	67	150	150	20
Visayas	2025	9	30	4	66	150	150	20
Visayas	2025	9	30	5	70	150	150	20
Visayas	2025	9	30	6	73	150	150	20
Visayas	2025	9	30	7	68	150	150	20
Visayas	2025	9	30	8	81	150	150	20
Visayas	2025	9	30	9	100	150	150	20
Visayas	2025	9	30	10	108	150	150	20
Visayas	2025	9	30	11	115	150	150	20
Visayas	2025	9	30	12	112	150	150	20
Visayas	2025	9	30	13	114	150	150	20
Visayas	2025	9	30	14	118	150	150	20
Visayas	2025	9	30	15	117	150	150	20
Visayas	2025	9	30	16	115	150	150	20
Visayas	2025	9	30	17	107	150	150	20
Visayas	2025	9	30	18	114	150	150	20
Visayas	2025	9	30	19	108	150	150	20
Visayas	2025	9	30	20	105	150	150	20
Visayas	2025	9	30	21	100	150	150	20
Visayas	2025	9	30	22	91	150	150	20
Visayas	2025	9	30	23	84	150	150	20
Visayas	2025	9	30	24	78	150	150	20
Visayas	2025	10	1	1	74	150	150	20
Visayas	2025	10	1	2	71	150	150	20
Visayas	2025	10	1	3	68	150	150	20
Visayas	2025	10	1	4	66	150	150	20
Visayas	2025	10	1	5	70	150	150	20
Visayas	2025	10	1	6	72	150	150	20
Visayas	2025	10	1	7	68	150	150	20
Visayas	2025	10	1	8	86	150	150	20
Visayas	2025	10	1	9	102	150	150	20
Visayas	2025	10	1	10	110	150	150	20
Visayas	2025	10	1	11	114	150	150	20
Visayas	2025	10	1	12	112	150	150	20
Visayas	2025	10	1	13	114	150	150	20
Visayas	2025	10	1	14	119	150	150	20
Visayas	2025	10	1	15	118	150	150	20
Visayas	2025	10	1	16	115	150	150	20
Visayas	2025	10	1	17	108	150	150	20
Visayas	2025	10	1	18	115	150	150	20
Visayas	2025	10	1	19	111	150	150	20
Visayas	2025	10	1	20	107	150	150	20
Visayas	2025	10	1	21	102	150	150	20
Visayas	2025	10	1	22	93	150	150	20
Visayas	2025	10	1	23	86	150	150	20
Visayas	2025	10	1	24	80	150	150	20
Visayas	2025	10	2	1	75	150	150	20
Visayas	2025	10	2	2	71	150	150	20
Visayas	2025	10	2	3	69	150	150	20
Visayas	2025	10	2	4	67	150	150	20
Visayas	2025	10	2	5	69	150	150	20
Visayas	2025	10	2	6	71	150	150	20
Visayas	2025	10	2	7	71	150	150	20
Visayas	2025	10	2	8	85	150	150	20
Visayas	2025	10	2	9	102	150	150	20
Visayas	2025	10	2	10	111	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	2	11	116	150	150	20
Visayas	2025	10	2	12	114	150	150	20
Visayas	2025	10	2	13	115	150	150	20
Visayas	2025	10	2	14	121	150	150	20
Visayas	2025	10	2	15	120	150	150	20
Visayas	2025	10	2	16	117	150	150	20
Visayas	2025	10	2	17	109	150	150	20
Visayas	2025	10	2	18	115	150	150	20
Visayas	2025	10	2	19	111	150	150	20
Visayas	2025	10	2	20	107	150	150	20
Visayas	2025	10	2	21	102	150	150	20
Visayas	2025	10	2	22	94	150	150	20
Visayas	2025	10	2	23	87	150	150	20
Visayas	2025	10	2	24	80	150	150	20
Visayas	2025	10	3	1	76	150	150	20
Visayas	2025	10	3	2	72	150	150	20
Visayas	2025	10	3	3	69	150	150	20
Visayas	2025	10	3	4	67	150	150	20
Visayas	2025	10	3	5	70	150	150	20
Visayas	2025	10	3	6	71	150	150	20
Visayas	2025	10	3	7	69	150	150	20
Visayas	2025	10	3	8	85	150	150	20
Visayas	2025	10	3	9	103	150	150	20
Visayas	2025	10	3	10	112	150	150	20
Visayas	2025	10	3	11	117	150	150	20
Visayas	2025	10	3	12	115	150	150	20
Visayas	2025	10	3	13	115	150	150	20
Visayas	2025	10	3	14	121	150	150	20
Visayas	2025	10	3	15	118	150	150	20
Visayas	2025	10	3	16	115	150	150	20
Visayas	2025	10	3	17	108	150	150	20
Visayas	2025	10	3	18	113	150	150	20
Visayas	2025	10	3	19	111	150	150	20
Visayas	2025	10	3	20	106	150	150	20
Visayas	2025	10	3	21	101	150	150	20
Visayas	2025	10	3	22	93	150	150	20
Visayas	2025	10	3	23	86	150	150	20
Visayas	2025	10	3	24	80	150	150	20
Visayas	2025	10	4	1	75	150	150	20
Visayas	2025	10	4	2	71	150	150	20
Visayas	2025	10	4	3	68	150	150	20
Visayas	2025	10	4	4	67	150	150	20
Visayas	2025	10	4	5	66	150	150	20
Visayas	2025	10	4	6	64	150	150	20
Visayas	2025	10	4	7	64	150	150	20
Visayas	2025	10	4	8	74	150	150	20
Visayas	2025	10	4	9	89	150	150	20
Visayas	2025	10	4	10	100	150	150	20
Visayas	2025	10	4	11	101	150	150	20
Visayas	2025	10	4	12	98	150	150	20
Visayas	2025	10	4	13	100	150	150	20
Visayas	2025	10	4	14	103	150	150	20
Visayas	2025	10	4	15	100	150	150	20
Visayas	2025	10	4	16	97	150	150	20
Visayas	2025	10	4	17	95	150	150	20
Visayas	2025	10	4	18	106	150	150	20
Visayas	2025	10	4	19	102	150	150	20
Visayas	2025	10	4	20	99	150	150	20
Visayas	2025	10	4	21	95	150	150	20
Visayas	2025	10	4	22	88	150	150	20
Visayas	2025	10	4	23	82	150	150	20
Visayas	2025	10	4	24	76	150	150	20
Visayas	2025	10	5	1	72	150	150	20
Visayas	2025	10	5	2	68	150	150	20
Visayas	2025	10	5	3	65	150	150	20
Visayas	2025	10	5	4	62	150	150	20
Visayas	2025	10	5	5	61	150	150	20
Visayas	2025	10	5	6	60	150	150	20
Visayas	2025	10	5	7	58	150	150	20
Visayas	2025	10	5	8	65	150	150	20
Visayas	2025	10	5	9	75	150	150	20
Visayas	2025	10	5	10	83	150	150	20
Visayas	2025	10	5	11	86	150	150	20
Visayas	2025	10	5	12	86	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	5	13	86	150	150	20
Visayas	2025	10	5	14	90	150	150	20
Visayas	2025	10	5	15	91	150	150	20
Visayas	2025	10	5	16	87	150	150	20
Visayas	2025	10	5	17	88	150	150	20
Visayas	2025	10	5	18	102	150	150	20
Visayas	2025	10	5	19	99	150	150	20
Visayas	2025	10	5	20	97	150	150	20
Visayas	2025	10	5	21	95	150	150	20
Visayas	2025	10	5	22	87	150	150	20
Visayas	2025	10	5	23	82	150	150	20
Visayas	2025	10	5	24	75	150	150	20
Visayas	2025	10	6	1	70	150	150	20
Visayas	2025	10	6	2	66	150	150	20
Visayas	2025	10	6	3	63	150	150	20
Visayas	2025	10	6	4	62	150	150	20
Visayas	2025	10	6	5	66	150	150	20
Visayas	2025	10	6	6	71	150	150	20
Visayas	2025	10	6	7	66	150	150	20
Visayas	2025	10	6	8	81	150	150	20
Visayas	2025	10	6	9	101	150	150	20
Visayas	2025	10	6	10	110	150	150	20
Visayas	2025	10	6	11	114	150	150	20
Visayas	2025	10	6	12	111	150	150	20
Visayas	2025	10	6	13	112	150	150	20
Visayas	2025	10	6	14	115	150	150	20
Visayas	2025	10	6	15	117	150	150	20
Visayas	2025	10	6	16	114	150	150	20
Visayas	2025	10	6	17	108	150	150	20
Visayas	2025	10	6	18	115	150	150	20
Visayas	2025	10	6	19	109	150	150	20
Visayas	2025	10	6	20	106	150	150	20
Visayas	2025	10	6	21	101	150	150	20
Visayas	2025	10	6	22	89	150	150	20
Visayas	2025	10	6	23	83	150	150	20
Visayas	2025	10	6	24	74	150	150	20
Visayas	2025	10	7	1	72	150	150	20
Visayas	2025	10	7	2	69	150	150	20
Visayas	2025	10	7	3	66	150	150	20
Visayas	2025	10	7	4	65	150	150	20
Visayas	2025	10	7	5	69	150	150	20
Visayas	2025	10	7	6	72	150	150	20
Visayas	2025	10	7	7	68	150	150	20
Visayas	2025	10	7	8	84	150	150	20
Visayas	2025	10	7	9	102	150	150	20
Visayas	2025	10	7	10	108	150	150	20
Visayas	2025	10	7	11	107	150	150	20
Visayas	2025	10	7	12	103	150	150	20
Visayas	2025	10	7	13	101	150	150	20
Visayas	2025	10	7	14	101	150	150	20
Visayas	2025	10	7	15	99	150	150	20
Visayas	2025	10	7	16	99	150	150	20
Visayas	2025	10	7	17	97	150	150	20
Visayas	2025	10	7	18	102	150	150	20
Visayas	2025	10	7	19	96	150	150	20
Visayas	2025	10	7	20	91	150	150	20
Visayas	2025	10	7	21	84	150	150	20
Visayas	2025	10	7	22	76	150	150	20
Visayas	2025	10	7	23	71	150	150	20
Visayas	2025	10	7	24	66	150	150	20
Visayas	2025	10	8	1	62	150	150	20
Visayas	2025	10	8	2	59	150	150	20
Visayas	2025	10	8	3	57	150	150	20
Visayas	2025	10	8	4	57	150	150	20
Visayas	2025	10	8	5	61	150	150	20
Visayas	2025	10	8	6	68	150	150	20
Visayas	2025	10	8	7	62	150	150	20
Visayas	2025	10	8	8	75	150	150	20
Visayas	2025	10	8	9	92	150	150	20
Visayas	2025	10	8	10	101	150	150	20
Visayas	2025	10	8	11	105	150	150	20
Visayas	2025	10	8	12	102	150	150	20
Visayas	2025	10	8	13	100	150	150	20
Visayas	2025	10	8	14	106	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	8	15	105	150	150	20
Visayas	2025	10	8	16	103	150	150	20
Visayas	2025	10	8	17	100	150	150	20
Visayas	2025	10	8	18	107	150	150	20
Visayas	2025	10	8	19	102	150	150	20
Visayas	2025	10	8	20	96	150	150	20
Visayas	2025	10	8	21	91	150	150	20
Visayas	2025	10	8	22	83	150	150	20
Visayas	2025	10	8	23	76	150	150	20
Visayas	2025	10	8	24	71	150	150	20
Visayas	2025	10	9	1	67	150	150	20
Visayas	2025	10	9	2	64	150	150	20
Visayas	2025	10	9	3	61	150	150	20
Visayas	2025	10	9	4	60	150	150	20
Visayas	2025	10	9	5	64	150	150	20
Visayas	2025	10	9	6	69	150	150	20
Visayas	2025	10	9	7	65	150	150	20
Visayas	2025	10	9	8	79	150	150	20
Visayas	2025	10	9	9	96	150	150	20
Visayas	2025	10	9	10	104	150	150	20
Visayas	2025	10	9	11	111	150	150	20
Visayas	2025	10	9	12	109	150	150	20
Visayas	2025	10	9	13	110	150	150	20
Visayas	2025	10	9	14	116	150	150	20
Visayas	2025	10	9	15	116	150	150	20
Visayas	2025	10	9	16	112	150	150	20
Visayas	2025	10	9	17	106	150	150	20
Visayas	2025	10	9	18	113	150	150	20
Visayas	2025	10	9	19	106	150	150	20
Visayas	2025	10	9	20	104	150	150	20
Visayas	2025	10	9	21	98	150	150	20
Visayas	2025	10	9	22	90	150	150	20
Visayas	2025	10	9	23	83	150	150	20
Visayas	2025	10	9	24	77	150	150	20
Visayas	2025	10	10	1	72	150	150	20
Visayas	2025	10	10	2	69	150	150	20
Visayas	2025	10	10	3	66	150	150	20
Visayas	2025	10	10	4	65	150	150	20
Visayas	2025	10	10	5	68	150	150	20
Visayas	2025	10	10	6	71	150	150	20
Visayas	2025	10	10	7	67	150	150	20
Visayas	2025	10	10	8	81	150	150	20
Visayas	2025	10	10	9	98	150	150	20
Visayas	2025	10	10	10	108	150	150	20
Visayas	2025	10	10	11	113	150	150	20
Visayas	2025	10	10	12	109	150	150	20
Visayas	2025	10	10	13	110	150	150	20
Visayas	2025	10	10	14	115	150	150	20
Visayas	2025	10	10	15	112	150	150	20
Visayas	2025	10	10	16	108	150	150	20
Visayas	2025	10	10	17	102	150	150	20
Visayas	2025	10	10	18	110	150	150	20
Visayas	2025	10	10	19	104	150	150	20
Visayas	2025	10	10	20	100	150	150	20
Visayas	2025	10	10	21	95	150	150	20
Visayas	2025	10	10	22	88	150	150	20
Visayas	2025	10	10	23	81	150	150	20
Visayas	2025	10	10	24	76	150	150	20
Visayas	2025	10	11	1	72	150	150	20
Visayas	2025	10	11	2	68	150	150	20
Visayas	2025	10	11	3	66	150	150	20
Visayas	2025	10	11	4	64	150	150	20
Visayas	2025	10	11	5	64	150	150	20
Visayas	2025	10	11	6	65	150	150	20
Visayas	2025	10	11	7	64	150	150	20
Visayas	2025	10	11	8	75	150	150	20
Visayas	2025	10	11	9	86	150	150	20
Visayas	2025	10	11	10	93	150	150	20
Visayas	2025	10	11	11	100	150	150	20
Visayas	2025	10	11	12	97	150	150	20
Visayas	2025	10	11	13	98	150	150	20
Visayas	2025	10	11	14	97	150	150	20
Visayas	2025	10	11	15	94	150	150	20
Visayas	2025	10	11	16	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	11	17	88	150	150	20
Visayas	2025	10	11	18	102	150	150	20
Visayas	2025	10	11	19	97	150	150	20
Visayas	2025	10	11	20	93	150	150	20
Visayas	2025	10	11	21	89	150	150	20
Visayas	2025	10	11	22	82	150	150	20
Visayas	2025	10	11	23	76	150	150	20
Visayas	2025	10	11	24	71	150	150	20
Visayas	2025	10	12	1	66	150	150	20
Visayas	2025	10	12	2	63	150	150	20
Visayas	2025	10	12	3	60	150	150	20
Visayas	2025	10	12	4	58	150	150	20
Visayas	2025	10	12	5	58	150	150	20
Visayas	2025	10	12	6	57	150	150	20
Visayas	2025	10	12	7	57	150	150	20
Visayas	2025	10	12	8	61	150	150	20
Visayas	2025	10	12	9	70	150	150	20
Visayas	2025	10	12	10	77	150	150	20
Visayas	2025	10	12	11	80	150	150	20
Visayas	2025	10	12	12	80	150	150	20
Visayas	2025	10	12	13	81	150	150	20
Visayas	2025	10	12	14	85	150	150	20
Visayas	2025	10	12	15	83	150	150	20
Visayas	2025	10	12	16	80	150	150	20
Visayas	2025	10	12	17	80	150	150	20
Visayas	2025	10	12	18	95	150	150	20
Visayas	2025	10	12	19	92	150	150	20
Visayas	2025	10	12	20	91	150	150	20
Visayas	2025	10	12	21	88	150	150	20
Visayas	2025	10	12	22	83	150	150	20
Visayas	2025	10	12	23	76	150	150	20
Visayas	2025	10	12	24	70	150	150	20
Visayas	2025	10	13	1	67	150	150	20
Visayas	2025	10	13	2	62	150	150	20
Visayas	2025	10	13	3	59	150	150	20
Visayas	2025	10	13	4	58	150	150	20
Visayas	2025	10	13	5	61	150	150	20
Visayas	2025	10	13	6	66	150	150	20
Visayas	2025	10	13	7	61	150	150	20
Visayas	2025	10	13	8	74	150	150	20
Visayas	2025	10	13	9	93	150	150	20
Visayas	2025	10	13	10	100	150	150	20
Visayas	2025	10	13	11	105	150	150	20
Visayas	2025	10	13	12	103	150	150	20
Visayas	2025	10	13	13	103	150	150	20
Visayas	2025	10	13	14	109	150	150	20
Visayas	2025	10	13	15	108	150	150	20
Visayas	2025	10	13	16	103	150	150	20
Visayas	2025	10	13	17	96	150	150	20
Visayas	2025	10	13	18	103	150	150	20
Visayas	2025	10	13	19	96	150	150	20
Visayas	2025	10	13	20	92	150	150	20
Visayas	2025	10	13	21	87	150	150	20
Visayas	2025	10	13	22	80	150	150	20
Visayas	2025	10	13	23	74	150	150	20
Visayas	2025	10	13	24	68	150	150	20
Visayas	2025	10	14	1	65	150	150	20
Visayas	2025	10	14	2	61	150	150	20
Visayas	2025	10	14	3	59	150	150	20
Visayas	2025	10	14	4	58	150	150	20
Visayas	2025	10	14	5	62	150	150	20
Visayas	2025	10	14	6	66	150	150	20
Visayas	2025	10	14	7	61	150	150	20
Visayas	2025	10	14	8	76	150	150	20
Visayas	2025	10	14	9	95	150	150	20
Visayas	2025	10	14	10	104	150	150	20
Visayas	2025	10	14	11	109	150	150	20
Visayas	2025	10	14	12	105	150	150	20
Visayas	2025	10	14	13	104	150	150	20
Visayas	2025	10	14	14	109	150	150	20
Visayas	2025	10	14	15	110	150	150	20
Visayas	2025	10	14	16	109	150	150	20
Visayas	2025	10	14	17	101	150	150	20
Visayas	2025	10	14	18	110	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	14	19	105	150	150	20
Visayas	2025	10	14	20	100	150	150	20
Visayas	2025	10	14	21	93	150	150	20
Visayas	2025	10	14	22	85	150	150	20
Visayas	2025	10	14	23	78	150	150	20
Visayas	2025	10	14	24	72	150	150	20
Visayas	2025	10	15	1	68	150	150	20
Visayas	2025	10	15	2	64	150	150	20
Visayas	2025	10	15	3	61	150	150	20
Visayas	2025	10	15	4	61	150	150	20
Visayas	2025	10	15	5	63	150	150	20
Visayas	2025	10	15	6	68	150	150	20
Visayas	2025	10	15	7	63	150	150	20
Visayas	2025	10	15	8	77	150	150	20
Visayas	2025	10	15	9	95	150	150	20
Visayas	2025	10	15	10	104	150	150	20
Visayas	2025	10	15	11	108	150	150	20
Visayas	2025	10	15	12	106	150	150	20
Visayas	2025	10	15	13	107	150	150	20
Visayas	2025	10	15	14	114	150	150	20
Visayas	2025	10	15	15	114	150	150	20
Visayas	2025	10	15	16	111	150	150	20
Visayas	2025	10	15	17	104	150	150	20
Visayas	2025	10	15	18	112	150	150	20
Visayas	2025	10	15	19	105	150	150	20
Visayas	2025	10	15	20	102	150	150	20
Visayas	2025	10	15	21	96	150	150	20
Visayas	2025	10	15	22	88	150	150	20
Visayas	2025	10	15	23	81	150	150	20
Visayas	2025	10	15	24	75	150	150	20
Visayas	2025	10	16	1	71	150	150	20
Visayas	2025	10	16	2	67	150	150	20
Visayas	2025	10	16	3	64	150	150	20
Visayas	2025	10	16	4	62	150	150	20
Visayas	2025	10	16	5	67	150	150	20
Visayas	2025	10	16	6	69	150	150	20
Visayas	2025	10	16	7	64	150	150	20
Visayas	2025	10	16	8	80	150	150	20
Visayas	2025	10	16	9	98	150	150	20
Visayas	2025	10	16	10	107	150	150	20
Visayas	2025	10	16	11	111	150	150	20
Visayas	2025	10	16	12	107	150	150	20
Visayas	2025	10	16	13	110	150	150	20
Visayas	2025	10	16	14	115	150	150	20
Visayas	2025	10	16	15	115	150	150	20
Visayas	2025	10	16	16	113	150	150	20
Visayas	2025	10	16	17	104	150	150	20
Visayas	2025	10	16	18	112	150	150	20
Visayas	2025	10	16	19	106	150	150	20
Visayas	2025	10	16	20	102	150	150	20
Visayas	2025	10	16	21	97	150	150	20
Visayas	2025	10	16	22	88	150	150	20
Visayas	2025	10	16	23	82	150	150	20
Visayas	2025	10	16	24	76	150	150	20
Visayas	2025	10	17	1	71	150	150	20
Visayas	2025	10	17	2	68	150	150	20
Visayas	2025	10	17	3	64	150	150	20
Visayas	2025	10	17	4	62	150	150	20
Visayas	2025	10	17	5	66	150	150	20
Visayas	2025	10	17	6	67	150	150	20
Visayas	2025	10	17	7	66	150	150	20
Visayas	2025	10	17	8	80	150	150	20
Visayas	2025	10	17	9	96	150	150	20
Visayas	2025	10	17	10	106	150	150	20
Visayas	2025	10	17	11	111	150	150	20
Visayas	2025	10	17	12	108	150	150	20
Visayas	2025	10	17	13	111	150	150	20
Visayas	2025	10	17	14	115	150	150	20
Visayas	2025	10	17	15	115	150	150	20
Visayas	2025	10	17	16	112	150	150	20
Visayas	2025	10	17	17	104	150	150	20
Visayas	2025	10	17	18	112	150	150	20
Visayas	2025	10	17	19	105	150	150	20
Visayas	2025	10	17	20	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	17	21	96	150	150	20
Visayas	2025	10	17	22	89	150	150	20
Visayas	2025	10	17	23	81	150	150	20
Visayas	2025	10	17	24	76	150	150	20
Visayas	2025	10	18	1	71	150	150	20
Visayas	2025	10	18	2	68	150	150	20
Visayas	2025	10	18	3	65	150	150	20
Visayas	2025	10	18	4	63	150	150	20
Visayas	2025	10	18	5	63	150	150	20
Visayas	2025	10	18	6	64	150	150	20
Visayas	2025	10	18	7	63	150	150	20
Visayas	2025	10	18	8	71	150	150	20
Visayas	2025	10	18	9	84	150	150	20
Visayas	2025	10	18	10	94	150	150	20
Visayas	2025	10	18	11	99	150	150	20
Visayas	2025	10	18	12	98	150	150	20
Visayas	2025	10	18	13	98	150	150	20
Visayas	2025	10	18	14	101	150	150	20
Visayas	2025	10	18	15	100	150	150	20
Visayas	2025	10	18	16	94	150	150	20
Visayas	2025	10	18	17	93	150	150	20
Visayas	2025	10	18	18	102	150	150	20
Visayas	2025	10	18	19	97	150	150	20
Visayas	2025	10	18	20	92	150	150	20
Visayas	2025	10	18	21	88	150	150	20
Visayas	2025	10	18	22	81	150	150	20
Visayas	2025	10	18	23	75	150	150	20
Visayas	2025	10	18	24	70	150	150	20
Visayas	2025	10	19	1	67	150	150	20
Visayas	2025	10	19	2	62	150	150	20
Visayas	2025	10	19	3	60	150	150	20
Visayas	2025	10	19	4	58	150	150	20
Visayas	2025	10	19	5	58	150	150	20
Visayas	2025	10	19	6	57	150	150	20
Visayas	2025	10	19	7	57	150	150	20
Visayas	2025	10	19	8	61	150	150	20
Visayas	2025	10	19	9	69	150	150	20
Visayas	2025	10	19	10	75	150	150	20
Visayas	2025	10	19	11	80	150	150	20
Visayas	2025	10	19	12	80	150	150	20
Visayas	2025	10	19	13	82	150	150	20
Visayas	2025	10	19	14	83	150	150	20
Visayas	2025	10	19	15	82	150	150	20
Visayas	2025	10	19	16	81	150	150	20
Visayas	2025	10	19	17	84	150	150	20
Visayas	2025	10	19	18	96	150	150	20
Visayas	2025	10	19	19	94	150	150	20
Visayas	2025	10	19	20	90	150	150	20
Visayas	2025	10	19	21	84	150	150	20
Visayas	2025	10	19	22	79	150	150	20
Visayas	2025	10	19	23	72	150	150	20
Visayas	2025	10	19	24	68	150	150	20
Visayas	2025	10	20	1	64	150	150	20
Visayas	2025	10	20	2	61	150	150	20
Visayas	2025	10	20	3	58	150	150	20
Visayas	2025	10	20	4	57	150	150	20
Visayas	2025	10	20	5	61	150	150	20
Visayas	2025	10	20	6	67	150	150	20
Visayas	2025	10	20	7	61	150	150	20
Visayas	2025	10	20	8	76	150	150	20
Visayas	2025	10	20	9	94	150	150	20
Visayas	2025	10	20	10	104	150	150	20
Visayas	2025	10	20	11	110	150	150	20
Visayas	2025	10	20	12	107	150	150	20
Visayas	2025	10	20	13	108	150	150	20
Visayas	2025	10	20	14	111	150	150	20
Visayas	2025	10	20	15	109	150	150	20
Visayas	2025	10	20	16	105	150	150	20
Visayas	2025	10	20	17	101	150	150	20
Visayas	2025	10	20	18	108	150	150	20
Visayas	2025	10	20	19	103	150	150	20
Visayas	2025	10	20	20	97	150	150	20
Visayas	2025	10	20	21	92	150	150	20
Visayas	2025	10	20	22	84	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	20	23	78	150	150	20
Visayas	2025	10	20	24	73	150	150	20
Visayas	2025	10	21	1	69	150	150	20
Visayas	2025	10	21	2	65	150	150	20
Visayas	2025	10	21	3	62	150	150	20
Visayas	2025	10	21	4	61	150	150	20
Visayas	2025	10	21	5	66	150	150	20
Visayas	2025	10	21	6	70	150	150	20
Visayas	2025	10	21	7	65	150	150	20
Visayas	2025	10	21	8	81	150	150	20
Visayas	2025	10	21	9	97	150	150	20
Visayas	2025	10	21	10	106	150	150	20
Visayas	2025	10	21	11	112	150	150	20
Visayas	2025	10	21	12	110	150	150	20
Visayas	2025	10	21	13	111	150	150	20
Visayas	2025	10	21	14	117	150	150	20
Visayas	2025	10	21	15	116	150	150	20
Visayas	2025	10	21	16	113	150	150	20
Visayas	2025	10	21	17	107	150	150	20
Visayas	2025	10	21	18	115	150	150	20
Visayas	2025	10	21	19	109	150	150	20
Visayas	2025	10	21	20	105	150	150	20
Visayas	2025	10	21	21	100	150	150	20
Visayas	2025	10	21	22	91	150	150	20
Visayas	2025	10	21	23	84	150	150	20
Visayas	2025	10	21	24	77	150	150	20
Visayas	2025	10	22	1	73	150	150	20
Visayas	2025	10	22	2	69	150	150	20
Visayas	2025	10	22	3	66	150	150	20
Visayas	2025	10	22	4	64	150	150	20
Visayas	2025	10	22	5	68	150	150	20
Visayas	2025	10	22	6	71	150	150	20
Visayas	2025	10	22	7	68	150	150	20
Visayas	2025	10	22	8	83	150	150	20
Visayas	2025	10	22	9	101	150	150	20
Visayas	2025	10	22	10	110	150	150	20
Visayas	2025	10	22	11	115	150	150	20
Visayas	2025	10	22	12	112	150	150	20
Visayas	2025	10	22	13	115	150	150	20
Visayas	2025	10	22	14	119	150	150	20
Visayas	2025	10	22	15	118	150	150	20
Visayas	2025	10	22	16	115	150	150	20
Visayas	2025	10	22	17	109	150	150	20
Visayas	2025	10	22	18	116	150	150	20
Visayas	2025	10	22	19	106	150	150	20
Visayas	2025	10	22	20	98	150	150	20
Visayas	2025	10	22	21	93	150	150	20
Visayas	2025	10	22	22	87	150	150	20
Visayas	2025	10	22	23	82	150	150	20
Visayas	2025	10	22	24	76	150	150	20
Visayas	2025	10	23	1	71	150	150	20
Visayas	2025	10	23	2	68	150	150	20
Visayas	2025	10	23	3	64	150	150	20
Visayas	2025	10	23	4	64	150	150	20
Visayas	2025	10	23	5	67	150	150	20
Visayas	2025	10	23	6	70	150	150	20
Visayas	2025	10	23	7	66	150	150	20
Visayas	2025	10	23	8	81	150	150	20
Visayas	2025	10	23	9	101	150	150	20
Visayas	2025	10	23	10	110	150	150	20
Visayas	2025	10	23	11	114	150	150	20
Visayas	2025	10	23	12	111	150	150	20
Visayas	2025	10	23	13	114	150	150	20
Visayas	2025	10	23	14	118	150	150	20
Visayas	2025	10	23	15	118	150	150	20
Visayas	2025	10	23	16	114	150	150	20
Visayas	2025	10	23	17	108	150	150	20
Visayas	2025	10	23	18	115	150	150	20
Visayas	2025	10	23	19	109	150	150	20
Visayas	2025	10	23	20	105	150	150	20
Visayas	2025	10	23	21	100	150	150	20
Visayas	2025	10	23	22	90	150	150	20
Visayas	2025	10	23	23	85	150	150	20
Visayas	2025	10	23	24	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	24	1	74	150	150	20
Visayas	2025	10	24	2	70	150	150	20
Visayas	2025	10	24	3	66	150	150	20
Visayas	2025	10	24	4	64	150	150	20
Visayas	2025	10	24	5	67	150	150	20
Visayas	2025	10	24	6	71	150	150	20
Visayas	2025	10	24	7	68	150	150	20
Visayas	2025	10	24	8	81	150	150	20
Visayas	2025	10	24	9	99	150	150	20
Visayas	2025	10	24	10	108	150	150	20
Visayas	2025	10	24	11	114	150	150	20
Visayas	2025	10	24	12	112	150	150	20
Visayas	2025	10	24	13	112	150	150	20
Visayas	2025	10	24	14	120	150	150	20
Visayas	2025	10	24	15	118	150	150	20
Visayas	2025	10	24	16	115	150	150	20
Visayas	2025	10	24	17	106	150	150	20
Visayas	2025	10	24	18	115	150	150	20
Visayas	2025	10	24	19	107	150	150	20
Visayas	2025	10	24	20	103	150	150	20
Visayas	2025	10	24	21	98	150	150	20
Visayas	2025	10	24	22	91	150	150	20
Visayas	2025	10	24	23	84	150	150	20
Visayas	2025	10	24	24	78	150	150	20
Visayas	2025	10	25	1	73	150	150	20
Visayas	2025	10	25	2	70	150	150	20
Visayas	2025	10	25	3	66	150	150	20
Visayas	2025	10	25	4	65	150	150	20
Visayas	2025	10	25	5	66	150	150	20
Visayas	2025	10	25	6	65	150	150	20
Visayas	2025	10	25	7	67	150	150	20
Visayas	2025	10	25	8	76	150	150	20
Visayas	2025	10	25	9	91	150	150	20
Visayas	2025	10	25	10	99	150	150	20
Visayas	2025	10	25	11	104	150	150	20
Visayas	2025	10	25	12	102	150	150	20
Visayas	2025	10	25	13	103	150	150	20
Visayas	2025	10	25	14	108	150	150	20
Visayas	2025	10	25	15	106	150	150	20
Visayas	2025	10	25	16	103	150	150	20
Visayas	2025	10	25	17	99	150	150	20
Visayas	2025	10	25	18	107	150	150	20
Visayas	2025	10	25	19	101	150	150	20
Visayas	2025	10	25	20	99	150	150	20
Visayas	2025	10	25	21	94	150	150	20
Visayas	2025	10	25	22	88	150	150	20
Visayas	2025	10	25	23	83	150	150	20
Visayas	2025	10	25	24	77	150	150	20
Visayas	2025	10	26	1	73	150	150	20
Visayas	2025	10	26	2	69	150	150	20
Visayas	2025	10	26	3	66	150	150	20
Visayas	2025	10	26	4	63	150	150	20
Visayas	2025	10	26	5	63	150	150	20
Visayas	2025	10	26	6	62	150	150	20
Visayas	2025	10	26	7	62	150	150	20
Visayas	2025	10	26	8	67	150	150	20
Visayas	2025	10	26	9	75	150	150	20
Visayas	2025	10	26	10	82	150	150	20
Visayas	2025	10	26	11	86	150	150	20
Visayas	2025	10	26	12	86	150	150	20
Visayas	2025	10	26	13	88	150	150	20
Visayas	2025	10	26	14	90	150	150	20
Visayas	2025	10	26	15	88	150	150	20
Visayas	2025	10	26	16	85	150	150	20
Visayas	2025	10	26	17	86	150	150	20
Visayas	2025	10	26	18	99	150	150	20
Visayas	2025	10	26	19	94	150	150	20
Visayas	2025	10	26	20	91	150	150	20
Visayas	2025	10	26	21	87	150	150	20
Visayas	2025	10	26	22	81	150	150	20
Visayas	2025	10	26	23	75	150	150	20
Visayas	2025	10	26	24	71	150	150	20
Visayas	2025	10	27	1	68	150	150	20
Visayas	2025	10	27	2	63	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	27	3	61	150	150	20
Visayas	2025	10	27	4	60	150	150	20
Visayas	2025	10	27	5	60	150	150	20
Visayas	2025	10	27	6	60	150	150	20
Visayas	2025	10	27	7	58	150	150	20
Visayas	2025	10	27	8	58	150	150	20
Visayas	2025	10	27	9	63	150	150	20
Visayas	2025	10	27	10	68	150	150	20
Visayas	2025	10	27	11	73	150	150	20
Visayas	2025	10	27	12	75	150	150	20
Visayas	2025	10	27	13	75	150	150	20
Visayas	2025	10	27	14	75	150	150	20
Visayas	2025	10	27	15	76	150	150	20
Visayas	2025	10	27	16	75	150	150	20
Visayas	2025	10	27	17	75	150	150	20
Visayas	2025	10	27	18	88	150	150	20
Visayas	2025	10	27	19	84	150	150	20
Visayas	2025	10	27	20	81	150	150	20
Visayas	2025	10	27	21	77	150	150	20
Visayas	2025	10	27	22	73	150	150	20
Visayas	2025	10	27	23	69	150	150	20
Visayas	2025	10	27	24	64	150	150	20
Visayas	2025	10	28	1	61	150	150	20
Visayas	2025	10	28	2	59	150	150	20
Visayas	2025	10	28	3	56	150	150	20
Visayas	2025	10	28	4	56	150	150	20
Visayas	2025	10	28	5	56	150	150	20
Visayas	2025	10	28	6	56	150	150	20
Visayas	2025	10	28	7	58	150	150	20
Visayas	2025	10	28	8	68	150	150	20
Visayas	2025	10	28	9	79	150	150	20
Visayas	2025	10	28	10	86	150	150	20
Visayas	2025	10	28	11	91	150	150	20
Visayas	2025	10	28	12	92	150	150	20
Visayas	2025	10	28	13	93	150	150	20
Visayas	2025	10	28	14	95	150	150	20
Visayas	2025	10	28	15	94	150	150	20
Visayas	2025	10	28	16	90	150	150	20
Visayas	2025	10	28	17	87	150	150	20
Visayas	2025	10	28	18	98	150	150	20
Visayas	2025	10	28	19	92	150	150	20
Visayas	2025	10	28	20	88	150	150	20
Visayas	2025	10	28	21	84	150	150	20
Visayas	2025	10	28	22	79	150	150	20
Visayas	2025	10	28	23	73	150	150	20
Visayas	2025	10	28	24	67	150	150	20
Visayas	2025	10	29	1	73	150	150	20
Visayas	2025	10	29	2	69	150	150	20
Visayas	2025	10	29	3	66	150	150	20
Visayas	2025	10	29	4	64	150	150	20
Visayas	2025	10	29	5	68	150	150	20
Visayas	2025	10	29	6	71	150	150	20
Visayas	2025	10	29	7	68	150	150	20
Visayas	2025	10	29	8	83	150	150	20
Visayas	2025	10	29	9	101	150	150	20
Visayas	2025	10	29	10	110	150	150	20
Visayas	2025	10	29	11	115	150	150	20
Visayas	2025	10	29	12	112	150	150	20
Visayas	2025	10	29	13	115	150	150	20
Visayas	2025	10	29	14	119	150	150	20
Visayas	2025	10	29	15	118	150	150	20
Visayas	2025	10	29	16	115	150	150	20
Visayas	2025	10	29	17	109	150	150	20
Visayas	2025	10	29	18	116	150	150	20
Visayas	2025	10	29	19	106	150	150	20
Visayas	2025	10	29	20	98	150	150	20
Visayas	2025	10	29	21	93	150	150	20
Visayas	2025	10	29	22	87	150	150	20
Visayas	2025	10	29	23	82	150	150	20
Visayas	2025	10	29	24	76	150	150	20
Visayas	2025	10	30	1	64	150	150	20
Visayas	2025	10	30	2	62	150	150	20
Visayas	2025	10	30	3	58	150	150	20
Visayas	2025	10	30	4	57	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	10	30	5	57	150	150	20
Visayas	2025	10	30	6	57	150	150	20
Visayas	2025	10	30	7	57	150	150	20
Visayas	2025	10	30	8	63	150	150	20
Visayas	2025	10	30	9	72	150	150	20
Visayas	2025	10	30	10	79	150	150	20
Visayas	2025	10	30	11	84	150	150	20
Visayas	2025	10	30	12	84	150	150	20
Visayas	2025	10	30	13	88	150	150	20
Visayas	2025	10	30	14	90	150	150	20
Visayas	2025	10	30	15	90	150	150	20
Visayas	2025	10	30	16	87	150	150	20
Visayas	2025	10	30	17	86	150	150	20
Visayas	2025	10	30	18	99	150	150	20
Visayas	2025	10	30	19	94	150	150	20
Visayas	2025	10	30	20	93	150	150	20
Visayas	2025	10	30	21	89	150	150	20
Visayas	2025	10	30	22	84	150	150	20
Visayas	2025	10	30	23	77	150	150	20
Visayas	2025	10	30	24	72	150	150	20
Visayas	2025	10	31	1	67	150	150	20
Visayas	2025	10	31	2	64	150	150	20
Visayas	2025	10	31	3	61	150	150	20
Visayas	2025	10	31	4	60	150	150	20
Visayas	2025	10	31	5	60	150	150	20
Visayas	2025	10	31	6	61	150	150	20
Visayas	2025	10	31	7	64	150	150	20
Visayas	2025	10	31	8	79	150	150	20
Visayas	2025	10	31	9	95	150	150	20
Visayas	2025	10	31	10	106	150	150	20
Visayas	2025	10	31	11	111	150	150	20
Visayas	2025	10	31	12	110	150	150	20
Visayas	2025	10	31	13	112	150	150	20
Visayas	2025	10	31	14	117	150	150	20
Visayas	2025	10	31	15	116	150	150	20
Visayas	2025	10	31	16	112	150	150	20
Visayas	2025	10	31	17	104	150	150	20
Visayas	2025	10	31	18	113	150	150	20
Visayas	2025	10	31	19	107	150	150	20
Visayas	2025	10	31	20	103	150	150	20
Visayas	2025	10	31	21	99	150	150	20
Visayas	2025	10	31	22	91	150	150	20
Visayas	2025	10	31	23	84	150	150	20
Visayas	2025	10	31	24	78	150	150	20
Visayas	2025	11	1	1	62	150	150	20
Visayas	2025	11	1	2	59	150	150	20
Visayas	2025	11	1	3	57	150	150	20
Visayas	2025	11	1	4	56	150	150	20
Visayas	2025	11	1	5	56	150	150	20
Visayas	2025	11	1	6	56	150	150	20
Visayas	2025	11	1	7	56	150	150	20
Visayas	2025	11	1	8	59	150	150	20
Visayas	2025	11	1	9	64	150	150	20
Visayas	2025	11	1	10	70	150	150	20
Visayas	2025	11	1	11	74	150	150	20
Visayas	2025	11	1	12	76	150	150	20
Visayas	2025	11	1	13	79	150	150	20
Visayas	2025	11	1	14	81	150	150	20
Visayas	2025	11	1	15	81	150	150	20
Visayas	2025	11	1	16	77	150	150	20
Visayas	2025	11	1	17	76	150	150	20
Visayas	2025	11	1	18	87	150	150	20
Visayas	2025	11	1	19	85	150	150	20
Visayas	2025	11	1	20	85	150	150	20
Visayas	2025	11	1	21	81	150	150	20
Visayas	2025	11	1	22	78	150	150	20
Visayas	2025	11	1	23	74	150	150	20
Visayas	2025	11	1	24	69	150	150	20
Visayas	2025	11	2	1	70	150	150	20
Visayas	2025	11	2	2	67	150	150	20
Visayas	2025	11	2	3	63	150	150	20
Visayas	2025	11	2	4	61	150	150	20
Visayas	2025	11	2	5	61	150	150	20
Visayas	2025	11	2	6	60	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	2	7	59	150	150	20
Visayas	2025	11	2	8	64	150	150	20
Visayas	2025	11	2	9	72	150	150	20
Visayas	2025	11	2	10	76	150	150	20
Visayas	2025	11	2	11	82	150	150	20
Visayas	2025	11	2	12	82	150	150	20
Visayas	2025	11	2	13	83	150	150	20
Visayas	2025	11	2	14	86	150	150	20
Visayas	2025	11	2	15	87	150	150	20
Visayas	2025	11	2	16	86	150	150	20
Visayas	2025	11	2	17	86	150	150	20
Visayas	2025	11	2	18	101	150	150	20
Visayas	2025	11	2	19	94	150	150	20
Visayas	2025	11	2	20	94	150	150	20
Visayas	2025	11	2	21	90	150	150	20
Visayas	2025	11	2	22	85	150	150	20
Visayas	2025	11	2	23	79	150	150	20
Visayas	2025	11	2	24	73	150	150	20
Visayas	2025	11	3	1	68	150	150	20
Visayas	2025	11	3	2	66	150	150	20
Visayas	2025	11	3	3	63	150	150	20
Visayas	2025	11	3	4	62	150	150	20
Visayas	2025	11	3	5	66	150	150	20
Visayas	2025	11	3	6	71	150	150	20
Visayas	2025	11	3	7	67	150	150	20
Visayas	2025	11	3	8	84	150	150	20
Visayas	2025	11	3	9	102	150	150	20
Visayas	2025	11	3	10	111	150	150	20
Visayas	2025	11	3	11	115	150	150	20
Visayas	2025	11	3	12	111	150	150	20
Visayas	2025	11	3	13	113	150	150	20
Visayas	2025	11	3	14	118	150	150	20
Visayas	2025	11	3	15	117	150	150	20
Visayas	2025	11	3	16	116	150	150	20
Visayas	2025	11	3	17	109	150	150	20
Visayas	2025	11	3	18	117	150	150	20
Visayas	2025	11	3	19	111	150	150	20
Visayas	2025	11	3	20	107	150	150	20
Visayas	2025	11	3	21	101	150	150	20
Visayas	2025	11	3	22	95	150	150	20
Visayas	2025	11	3	23	87	150	150	20
Visayas	2025	11	3	24	81	150	150	20
Visayas	2025	11	4	1	74	150	150	20
Visayas	2025	11	4	2	71	150	150	20
Visayas	2025	11	4	3	68	150	150	20
Visayas	2025	11	4	4	67	150	150	20
Visayas	2025	11	4	5	71	150	150	20
Visayas	2025	11	4	6	74	150	150	20
Visayas	2025	11	4	7	69	150	150	20
Visayas	2025	11	4	8	82	150	150	20
Visayas	2025	11	4	9	100	150	150	20
Visayas	2025	11	4	10	107	150	150	20
Visayas	2025	11	4	11	111	150	150	20
Visayas	2025	11	4	12	105	150	150	20
Visayas	2025	11	4	13	106	150	150	20
Visayas	2025	11	4	14	111	150	150	20
Visayas	2025	11	4	15	112	150	150	20
Visayas	2025	11	4	16	108	150	150	20
Visayas	2025	11	4	17	105	150	150	20
Visayas	2025	11	4	18	113	150	150	20
Visayas	2025	11	4	19	105	150	150	20
Visayas	2025	11	4	20	102	150	150	20
Visayas	2025	11	4	21	96	150	150	20
Visayas	2025	11	4	22	89	150	150	20
Visayas	2025	11	4	23	82	150	150	20
Visayas	2025	11	4	24	76	150	150	20
Visayas	2025	11	5	1	73	150	150	20
Visayas	2025	11	5	2	70	150	150	20
Visayas	2025	11	5	3	67	150	150	20
Visayas	2025	11	5	4	64	150	150	20
Visayas	2025	11	5	5	69	150	150	20
Visayas	2025	11	5	6	72	150	150	20
Visayas	2025	11	5	7	68	150	150	20
Visayas	2025	11	5	8	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	5	9	93	150	150	20
Visayas	2025	11	5	10	100	150	150	20
Visayas	2025	11	5	11	102	150	150	20
Visayas	2025	11	5	12	99	150	150	20
Visayas	2025	11	5	13	100	150	150	20
Visayas	2025	11	5	14	107	150	150	20
Visayas	2025	11	5	15	105	150	150	20
Visayas	2025	11	5	16	105	150	150	20
Visayas	2025	11	5	17	102	150	150	20
Visayas	2025	11	5	18	112	150	150	20
Visayas	2025	11	5	19	104	150	150	20
Visayas	2025	11	5	20	100	150	150	20
Visayas	2025	11	5	21	94	150	150	20
Visayas	2025	11	5	22	86	150	150	20
Visayas	2025	11	5	23	79	150	150	20
Visayas	2025	11	5	24	74	150	150	20
Visayas	2025	11	6	1	69	150	150	20
Visayas	2025	11	6	2	66	150	150	20
Visayas	2025	11	6	3	64	150	150	20
Visayas	2025	11	6	4	63	150	150	20
Visayas	2025	11	6	5	68	150	150	20
Visayas	2025	11	6	6	72	150	150	20
Visayas	2025	11	6	7	68	150	150	20
Visayas	2025	11	6	8	83	150	150	20
Visayas	2025	11	6	9	100	150	150	20
Visayas	2025	11	6	10	107	150	150	20
Visayas	2025	11	6	11	113	150	150	20
Visayas	2025	11	6	12	109	150	150	20
Visayas	2025	11	6	13	110	150	150	20
Visayas	2025	11	6	14	116	150	150	20
Visayas	2025	11	6	15	116	150	150	20
Visayas	2025	11	6	16	114	150	150	20
Visayas	2025	11	6	17	108	150	150	20
Visayas	2025	11	6	18	117	150	150	20
Visayas	2025	11	6	19	110	150	150	20
Visayas	2025	11	6	20	107	150	150	20
Visayas	2025	11	6	21	99	150	150	20
Visayas	2025	11	6	22	92	150	150	20
Visayas	2025	11	6	23	85	150	150	20
Visayas	2025	11	6	24	79	150	150	20
Visayas	2025	11	7	1	74	150	150	20
Visayas	2025	11	7	2	69	150	150	20
Visayas	2025	11	7	3	66	150	150	20
Visayas	2025	11	7	4	66	150	150	20
Visayas	2025	11	7	5	68	150	150	20
Visayas	2025	11	7	6	71	150	150	20
Visayas	2025	11	7	7	68	150	150	20
Visayas	2025	11	7	8	82	150	150	20
Visayas	2025	11	7	9	101	150	150	20
Visayas	2025	11	7	10	110	150	150	20
Visayas	2025	11	7	11	112	150	150	20
Visayas	2025	11	7	12	110	150	150	20
Visayas	2025	11	7	13	112	150	150	20
Visayas	2025	11	7	14	118	150	150	20
Visayas	2025	11	7	15	119	150	150	20
Visayas	2025	11	7	16	116	150	150	20
Visayas	2025	11	7	17	108	150	150	20
Visayas	2025	11	7	18	116	150	150	20
Visayas	2025	11	7	19	109	150	150	20
Visayas	2025	11	7	20	105	150	150	20
Visayas	2025	11	7	21	99	150	150	20
Visayas	2025	11	7	22	92	150	150	20
Visayas	2025	11	7	23	85	150	150	20
Visayas	2025	11	7	24	79	150	150	20
Visayas	2025	11	8	1	75	150	150	20
Visayas	2025	11	8	2	72	150	150	20
Visayas	2025	11	8	3	68	150	150	20
Visayas	2025	11	8	4	66	150	150	20
Visayas	2025	11	8	5	68	150	150	20
Visayas	2025	11	8	6	67	150	150	20
Visayas	2025	11	8	7	66	150	150	20
Visayas	2025	11	8	8	76	150	150	20
Visayas	2025	11	8	9	87	150	150	20
Visayas	2025	11	8	10	95	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	8	11	99	150	150	20
Visayas	2025	11	8	12	96	150	150	20
Visayas	2025	11	8	13	98	150	150	20
Visayas	2025	11	8	14	105	150	150	20
Visayas	2025	11	8	15	103	150	150	20
Visayas	2025	11	8	16	100	150	150	20
Visayas	2025	11	8	17	97	150	150	20
Visayas	2025	11	8	18	110	150	150	20
Visayas	2025	11	8	19	102	150	150	20
Visayas	2025	11	8	20	100	150	150	20
Visayas	2025	11	8	21	96	150	150	20
Visayas	2025	11	8	22	90	150	150	20
Visayas	2025	11	8	23	84	150	150	20
Visayas	2025	11	8	24	78	150	150	20
Visayas	2025	11	9	1	73	150	150	20
Visayas	2025	11	9	2	70	150	150	20
Visayas	2025	11	9	3	67	150	150	20
Visayas	2025	11	9	4	64	150	150	20
Visayas	2025	11	9	5	64	150	150	20
Visayas	2025	11	9	6	64	150	150	20
Visayas	2025	11	9	7	64	150	150	20
Visayas	2025	11	9	8	68	150	150	20
Visayas	2025	11	9	9	74	150	150	20
Visayas	2025	11	9	10	80	150	150	20
Visayas	2025	11	9	11	85	150	150	20
Visayas	2025	11	9	12	86	150	150	20
Visayas	2025	11	9	13	87	150	150	20
Visayas	2025	11	9	14	90	150	150	20
Visayas	2025	11	9	15	90	150	150	20
Visayas	2025	11	9	16	88	150	150	20
Visayas	2025	11	9	17	88	150	150	20
Visayas	2025	11	9	18	103	150	150	20
Visayas	2025	11	9	19	98	150	150	20
Visayas	2025	11	9	20	96	150	150	20
Visayas	2025	11	9	21	93	150	150	20
Visayas	2025	11	9	22	89	150	150	20
Visayas	2025	11	9	23	81	150	150	20
Visayas	2025	11	9	24	76	150	150	20
Visayas	2025	11	10	1	71	150	150	20
Visayas	2025	11	10	2	67	150	150	20
Visayas	2025	11	10	3	64	150	150	20
Visayas	2025	11	10	4	63	150	150	20
Visayas	2025	11	10	5	66	150	150	20
Visayas	2025	11	10	6	70	150	150	20
Visayas	2025	11	10	7	66	150	150	20
Visayas	2025	11	10	8	82	150	150	20
Visayas	2025	11	10	9	101	150	150	20
Visayas	2025	11	10	10	109	150	150	20
Visayas	2025	11	10	11	114	150	150	20
Visayas	2025	11	10	12	113	150	150	20
Visayas	2025	11	10	13	115	150	150	20
Visayas	2025	11	10	14	120	150	150	20
Visayas	2025	11	10	15	119	150	150	20
Visayas	2025	11	10	16	117	150	150	20
Visayas	2025	11	10	17	111	150	150	20
Visayas	2025	11	10	18	117	150	150	20
Visayas	2025	11	10	19	113	150	150	20
Visayas	2025	11	10	20	109	150	150	20
Visayas	2025	11	10	21	103	150	150	20
Visayas	2025	11	10	22	95	150	150	20
Visayas	2025	11	10	23	84	150	150	20
Visayas	2025	11	10	24	80	150	150	20
Visayas	2025	11	11	1	75	150	150	20
Visayas	2025	11	11	2	73	150	150	20
Visayas	2025	11	11	3	70	150	150	20
Visayas	2025	11	11	4	68	150	150	20
Visayas	2025	11	11	5	71	150	150	20
Visayas	2025	11	11	6	74	150	150	20
Visayas	2025	11	11	7	70	150	150	20
Visayas	2025	11	11	8	83	150	150	20
Visayas	2025	11	11	9	100	150	150	20
Visayas	2025	11	11	10	109	150	150	20
Visayas	2025	11	11	11	111	150	150	20
Visayas	2025	11	11	12	109	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	11	13	110	150	150	20
Visayas	2025	11	11	14	118	150	150	20
Visayas	2025	11	11	15	116	150	150	20
Visayas	2025	11	11	16	114	150	150	20
Visayas	2025	11	11	17	108	150	150	20
Visayas	2025	11	11	18	116	150	150	20
Visayas	2025	11	11	19	109	150	150	20
Visayas	2025	11	11	20	105	150	150	20
Visayas	2025	11	11	21	99	150	150	20
Visayas	2025	11	11	22	91	150	150	20
Visayas	2025	11	11	23	84	150	150	20
Visayas	2025	11	11	24	78	150	150	20
Visayas	2025	11	12	1	74	150	150	20
Visayas	2025	11	12	2	71	150	150	20
Visayas	2025	11	12	3	68	150	150	20
Visayas	2025	11	12	4	67	150	150	20
Visayas	2025	11	12	5	70	150	150	20
Visayas	2025	11	12	6	74	150	150	20
Visayas	2025	11	12	7	70	150	150	20
Visayas	2025	11	12	8	84	150	150	20
Visayas	2025	11	12	9	102	150	150	20
Visayas	2025	11	12	10	110	150	150	20
Visayas	2025	11	12	11	112	150	150	20
Visayas	2025	11	12	12	110	150	150	20
Visayas	2025	11	12	13	111	150	150	20
Visayas	2025	11	12	14	117	150	150	20
Visayas	2025	11	12	15	116	150	150	20
Visayas	2025	11	12	16	114	150	150	20
Visayas	2025	11	12	17	108	150	150	20
Visayas	2025	11	12	18	116	150	150	20
Visayas	2025	11	12	19	110	150	150	20
Visayas	2025	11	12	20	105	150	150	20
Visayas	2025	11	12	21	101	150	150	20
Visayas	2025	11	12	22	93	150	150	20
Visayas	2025	11	12	23	84	150	150	20
Visayas	2025	11	12	24	80	150	150	20
Visayas	2025	11	13	1	75	150	150	20
Visayas	2025	11	13	2	71	150	150	20
Visayas	2025	11	13	3	68	150	150	20
Visayas	2025	11	13	4	66	150	150	20
Visayas	2025	11	13	5	70	150	150	20
Visayas	2025	11	13	6	73	150	150	20
Visayas	2025	11	13	7	70	150	150	20
Visayas	2025	11	13	8	82	150	150	20
Visayas	2025	11	13	9	98	150	150	20
Visayas	2025	11	13	10	104	150	150	20
Visayas	2025	11	13	11	107	150	150	20
Visayas	2025	11	13	12	102	150	150	20
Visayas	2025	11	13	13	101	150	150	20
Visayas	2025	11	13	14	105	150	150	20
Visayas	2025	11	13	15	103	150	150	20
Visayas	2025	11	13	16	101	150	150	20
Visayas	2025	11	13	17	99	150	150	20
Visayas	2025	11	13	18	105	150	150	20
Visayas	2025	11	13	19	97	150	150	20
Visayas	2025	11	13	20	93	150	150	20
Visayas	2025	11	13	21	87	150	150	20
Visayas	2025	11	13	22	81	150	150	20
Visayas	2025	11	13	23	74	150	150	20
Visayas	2025	11	13	24	70	150	150	20
Visayas	2025	11	14	1	65	150	150	20
Visayas	2025	11	14	2	62	150	150	20
Visayas	2025	11	14	3	60	150	150	20
Visayas	2025	11	14	4	60	150	150	20
Visayas	2025	11	14	5	63	150	150	20
Visayas	2025	11	14	6	68	150	150	20
Visayas	2025	11	14	7	65	150	150	20
Visayas	2025	11	14	8	78	150	150	20
Visayas	2025	11	14	9	95	150	150	20
Visayas	2025	11	14	10	104	150	150	20
Visayas	2025	11	14	11	107	150	150	20
Visayas	2025	11	14	12	104	150	150	20
Visayas	2025	11	14	13	104	150	150	20
Visayas	2025	11	14	14	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	14	15	111	150	150	20
Visayas	2025	11	14	16	110	150	150	20
Visayas	2025	11	14	17	104	150	150	20
Visayas	2025	11	14	18	112	150	150	20
Visayas	2025	11	14	19	103	150	150	20
Visayas	2025	11	14	20	98	150	150	20
Visayas	2025	11	14	21	93	150	150	20
Visayas	2025	11	14	22	86	150	150	20
Visayas	2025	11	14	23	80	150	150	20
Visayas	2025	11	14	24	75	150	150	20
Visayas	2025	11	15	1	71	150	150	20
Visayas	2025	11	15	2	68	150	150	20
Visayas	2025	11	15	3	65	150	150	20
Visayas	2025	11	15	4	64	150	150	20
Visayas	2025	11	15	5	64	150	150	20
Visayas	2025	11	15	6	67	150	150	20
Visayas	2025	11	15	7	65	150	150	20
Visayas	2025	11	15	8	72	150	150	20
Visayas	2025	11	15	9	82	150	150	20
Visayas	2025	11	15	10	85	150	150	20
Visayas	2025	11	15	11	87	150	150	20
Visayas	2025	11	15	12	82	150	150	20
Visayas	2025	11	15	13	80	150	150	20
Visayas	2025	11	15	14	84	150	150	20
Visayas	2025	11	15	15	82	150	150	20
Visayas	2025	11	15	16	82	150	150	20
Visayas	2025	11	15	17	85	150	150	20
Visayas	2025	11	15	18	93	150	150	20
Visayas	2025	11	15	19	89	150	150	20
Visayas	2025	11	15	20	83	150	150	20
Visayas	2025	11	15	21	79	150	150	20
Visayas	2025	11	15	22	73	150	150	20
Visayas	2025	11	15	23	68	150	150	20
Visayas	2025	11	15	24	63	150	150	20
Visayas	2025	11	16	1	60	150	150	20
Visayas	2025	11	16	2	58	150	150	20
Visayas	2025	11	16	3	56	150	150	20
Visayas	2025	11	16	4	55	150	150	20
Visayas	2025	11	16	5	55	150	150	20
Visayas	2025	11	16	6	57	150	150	20
Visayas	2025	11	16	7	54	150	150	20
Visayas	2025	11	16	8	57	150	150	20
Visayas	2025	11	16	9	63	150	150	20
Visayas	2025	11	16	10	68	150	150	20
Visayas	2025	11	16	11	71	150	150	20
Visayas	2025	11	16	12	71	150	150	20
Visayas	2025	11	16	13	72	150	150	20
Visayas	2025	11	16	14	72	150	150	20
Visayas	2025	11	16	15	70	150	150	20
Visayas	2025	11	16	16	72	150	150	20
Visayas	2025	11	16	17	76	150	150	20
Visayas	2025	11	16	18	90	150	150	20
Visayas	2025	11	16	19	86	150	150	20
Visayas	2025	11	16	20	83	150	150	20
Visayas	2025	11	16	21	78	150	150	20
Visayas	2025	11	16	22	72	150	150	20
Visayas	2025	11	16	23	66	150	150	20
Visayas	2025	11	16	24	60	150	150	20
Visayas	2025	11	17	1	57	150	150	20
Visayas	2025	11	17	2	55	150	150	20
Visayas	2025	11	17	3	54	150	150	20
Visayas	2025	11	17	4	53	150	150	20
Visayas	2025	11	17	5	56	150	150	20
Visayas	2025	11	17	6	61	150	150	20
Visayas	2025	11	17	7	60	150	150	20
Visayas	2025	11	17	8	69	150	150	20
Visayas	2025	11	17	9	83	150	150	20
Visayas	2025	11	17	10	91	150	150	20
Visayas	2025	11	17	11	94	150	150	20
Visayas	2025	11	17	12	93	150	150	20
Visayas	2025	11	17	13	93	150	150	20
Visayas	2025	11	17	14	99	150	150	20
Visayas	2025	11	17	15	99	150	150	20
Visayas	2025	11	17	16	97	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	17	17	95	150	150	20
Visayas	2025	11	17	18	103	150	150	20
Visayas	2025	11	17	19	94	150	150	20
Visayas	2025	11	17	20	89	150	150	20
Visayas	2025	11	17	21	83	150	150	20
Visayas	2025	11	17	22	78	150	150	20
Visayas	2025	11	17	23	72	150	150	20
Visayas	2025	11	17	24	67	150	150	20
Visayas	2025	11	18	1	63	150	150	20
Visayas	2025	11	18	2	60	150	150	20
Visayas	2025	11	18	3	59	150	150	20
Visayas	2025	11	18	4	58	150	150	20
Visayas	2025	11	18	5	59	150	150	20
Visayas	2025	11	18	6	66	150	150	20
Visayas	2025	11	18	7	62	150	150	20
Visayas	2025	11	18	8	74	150	150	20
Visayas	2025	11	18	9	88	150	150	20
Visayas	2025	11	18	10	96	150	150	20
Visayas	2025	11	18	11	99	150	150	20
Visayas	2025	11	18	12	95	150	150	20
Visayas	2025	11	18	13	94	150	150	20
Visayas	2025	11	18	14	98	150	150	20
Visayas	2025	11	18	15	97	150	150	20
Visayas	2025	11	18	16	95	150	150	20
Visayas	2025	11	18	17	95	150	150	20
Visayas	2025	11	18	18	104	150	150	20
Visayas	2025	11	18	19	95	150	150	20
Visayas	2025	11	18	20	90	150	150	20
Visayas	2025	11	18	21	85	150	150	20
Visayas	2025	11	18	22	77	150	150	20
Visayas	2025	11	18	23	71	150	150	20
Visayas	2025	11	18	24	65	150	150	20
Visayas	2025	11	19	1	62	150	150	20
Visayas	2025	11	19	2	60	150	150	20
Visayas	2025	11	19	3	58	150	150	20
Visayas	2025	11	19	4	58	150	150	20
Visayas	2025	11	19	5	61	150	150	20
Visayas	2025	11	19	6	67	150	150	20
Visayas	2025	11	19	7	64	150	150	20
Visayas	2025	11	19	8	76	150	150	20
Visayas	2025	11	19	9	91	150	150	20
Visayas	2025	11	19	10	99	150	150	20
Visayas	2025	11	19	11	103	150	150	20
Visayas	2025	11	19	12	99	150	150	20
Visayas	2025	11	19	13	102	150	150	20
Visayas	2025	11	19	14	107	150	150	20
Visayas	2025	11	19	15	106	150	150	20
Visayas	2025	11	19	16	103	150	150	20
Visayas	2025	11	19	17	100	150	150	20
Visayas	2025	11	19	18	108	150	150	20
Visayas	2025	11	19	19	100	150	150	20
Visayas	2025	11	19	20	95	150	150	20
Visayas	2025	11	19	21	89	150	150	20
Visayas	2025	11	19	22	81	150	150	20
Visayas	2025	11	19	23	75	150	150	20
Visayas	2025	11	19	24	70	150	150	20
Visayas	2025	11	20	1	66	150	150	20
Visayas	2025	11	20	2	62	150	150	20
Visayas	2025	11	20	3	60	150	150	20
Visayas	2025	11	20	4	60	150	150	20
Visayas	2025	11	20	5	63	150	150	20
Visayas	2025	11	20	6	69	150	150	20
Visayas	2025	11	20	7	65	150	150	20
Visayas	2025	11	20	8	78	150	150	20
Visayas	2025	11	20	9	96	150	150	20
Visayas	2025	11	20	10	104	150	150	20
Visayas	2025	11	20	11	109	150	150	20
Visayas	2025	11	20	12	107	150	150	20
Visayas	2025	11	20	13	109	150	150	20
Visayas	2025	11	20	14	117	150	150	20
Visayas	2025	11	20	15	117	150	150	20
Visayas	2025	11	20	16	114	150	150	20
Visayas	2025	11	20	17	108	150	150	20
Visayas	2025	11	20	18	116	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	20	19	109	150	150	20
Visayas	2025	11	20	20	106	150	150	20
Visayas	2025	11	20	21	99	150	150	20
Visayas	2025	11	20	22	91	150	150	20
Visayas	2025	11	20	23	83	150	150	20
Visayas	2025	11	20	24	77	150	150	20
Visayas	2025	11	21	1	73	150	150	20
Visayas	2025	11	21	2	69	150	150	20
Visayas	2025	11	21	3	65	150	150	20
Visayas	2025	11	21	4	64	150	150	20
Visayas	2025	11	21	5	67	150	150	20
Visayas	2025	11	21	6	71	150	150	20
Visayas	2025	11	21	7	67	150	150	20
Visayas	2025	11	21	8	81	150	150	20
Visayas	2025	11	21	9	98	150	150	20
Visayas	2025	11	21	10	105	150	150	20
Visayas	2025	11	21	11	108	150	150	20
Visayas	2025	11	21	12	105	150	150	20
Visayas	2025	11	21	13	103	150	150	20
Visayas	2025	11	21	14	108	150	150	20
Visayas	2025	11	21	15	107	150	150	20
Visayas	2025	11	21	16	102	150	150	20
Visayas	2025	11	21	17	98	150	150	20
Visayas	2025	11	21	18	108	150	150	20
Visayas	2025	11	21	19	101	150	150	20
Visayas	2025	11	21	20	96	150	150	20
Visayas	2025	11	21	21	92	150	150	20
Visayas	2025	11	21	22	84	150	150	20
Visayas	2025	11	21	23	78	150	150	20
Visayas	2025	11	21	24	73	150	150	20
Visayas	2025	11	22	1	68	150	150	20
Visayas	2025	11	22	2	64	150	150	20
Visayas	2025	11	22	3	59	150	150	20
Visayas	2025	11	22	4	58	150	150	20
Visayas	2025	11	22	5	58	150	150	20
Visayas	2025	11	22	6	59	150	150	20
Visayas	2025	11	22	7	58	150	150	20
Visayas	2025	11	22	8	67	150	150	20
Visayas	2025	11	22	9	78	150	150	20
Visayas	2025	11	22	10	86	150	150	20
Visayas	2025	11	22	11	90	150	150	20
Visayas	2025	11	22	12	87	150	150	20
Visayas	2025	11	22	13	88	150	150	20
Visayas	2025	11	22	14	93	150	150	20
Visayas	2025	11	22	15	91	150	150	20
Visayas	2025	11	22	16	88	150	150	20
Visayas	2025	11	22	17	88	150	150	20
Visayas	2025	11	22	18	102	150	150	20
Visayas	2025	11	22	19	98	150	150	20
Visayas	2025	11	22	20	94	150	150	20
Visayas	2025	11	22	21	90	150	150	20
Visayas	2025	11	22	22	83	150	150	20
Visayas	2025	11	22	23	76	150	150	20
Visayas	2025	11	22	24	72	150	150	20
Visayas	2025	11	23	1	68	150	150	20
Visayas	2025	11	23	2	64	150	150	20
Visayas	2025	11	23	3	61	150	150	20
Visayas	2025	11	23	4	59	150	150	20
Visayas	2025	11	23	5	59	150	150	20
Visayas	2025	11	23	6	59	150	150	20
Visayas	2025	11	23	7	57	150	150	20
Visayas	2025	11	23	8	61	150	150	20
Visayas	2025	11	23	9	68	150	150	20
Visayas	2025	11	23	10	74	150	150	20
Visayas	2025	11	23	11	76	150	150	20
Visayas	2025	11	23	12	76	150	150	20
Visayas	2025	11	23	13	77	150	150	20
Visayas	2025	11	23	14	79	150	150	20
Visayas	2025	11	23	15	78	150	150	20
Visayas	2025	11	23	16	79	150	150	20
Visayas	2025	11	23	17	81	150	150	20
Visayas	2025	11	23	18	96	150	150	20
Visayas	2025	11	23	19	91	150	150	20
Visayas	2025	11	23	20	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	23	21	85	150	150	20
Visayas	2025	11	23	22	79	150	150	20
Visayas	2025	11	23	23	73	150	150	20
Visayas	2025	11	23	24	69	150	150	20
Visayas	2025	11	24	1	57	150	150	20
Visayas	2025	11	24	2	55	150	150	20
Visayas	2025	11	24	3	54	150	150	20
Visayas	2025	11	24	4	53	150	150	20
Visayas	2025	11	24	5	56	150	150	20
Visayas	2025	11	24	6	61	150	150	20
Visayas	2025	11	24	7	60	150	150	20
Visayas	2025	11	24	8	69	150	150	20
Visayas	2025	11	24	9	83	150	150	20
Visayas	2025	11	24	10	91	150	150	20
Visayas	2025	11	24	11	94	150	150	20
Visayas	2025	11	24	12	93	150	150	20
Visayas	2025	11	24	13	93	150	150	20
Visayas	2025	11	24	14	99	150	150	20
Visayas	2025	11	24	15	99	150	150	20
Visayas	2025	11	24	16	97	150	150	20
Visayas	2025	11	24	17	95	150	150	20
Visayas	2025	11	24	18	103	150	150	20
Visayas	2025	11	24	19	94	150	150	20
Visayas	2025	11	24	20	89	150	150	20
Visayas	2025	11	24	21	83	150	150	20
Visayas	2025	11	24	22	78	150	150	20
Visayas	2025	11	24	23	72	150	150	20
Visayas	2025	11	24	24	67	150	150	20
Visayas	2025	11	25	1	70	150	150	20
Visayas	2025	11	25	2	66	150	150	20
Visayas	2025	11	25	3	63	150	150	20
Visayas	2025	11	25	4	62	150	150	20
Visayas	2025	11	25	5	66	150	150	20
Visayas	2025	11	25	6	71	150	150	20
Visayas	2025	11	25	7	66	150	150	20
Visayas	2025	11	25	8	79	150	150	20
Visayas	2025	11	25	9	97	150	150	20
Visayas	2025	11	25	10	106	150	150	20
Visayas	2025	11	25	11	110	150	150	20
Visayas	2025	11	25	12	108	150	150	20
Visayas	2025	11	25	13	110	150	150	20
Visayas	2025	11	25	14	118	150	150	20
Visayas	2025	11	25	15	117	150	150	20
Visayas	2025	11	25	16	114	150	150	20
Visayas	2025	11	25	17	104	150	150	20
Visayas	2025	11	25	18	116	150	150	20
Visayas	2025	11	25	19	110	150	150	20
Visayas	2025	11	25	20	106	150	150	20
Visayas	2025	11	25	21	102	150	150	20
Visayas	2025	11	25	22	95	150	150	20
Visayas	2025	11	25	23	86	150	150	20
Visayas	2025	11	25	24	79	150	150	20
Visayas	2025	11	26	1	74	150	150	20
Visayas	2025	11	26	2	71	150	150	20
Visayas	2025	11	26	3	63	150	150	20
Visayas	2025	11	26	4	67	150	150	20
Visayas	2025	11	26	5	70	150	150	20
Visayas	2025	11	26	6	74	150	150	20
Visayas	2025	11	26	7	69	150	150	20
Visayas	2025	11	26	8	84	150	150	20
Visayas	2025	11	26	9	101	150	150	20
Visayas	2025	11	26	10	109	150	150	20
Visayas	2025	11	26	11	113	150	150	20
Visayas	2025	11	26	12	110	150	150	20
Visayas	2025	11	26	13	109	150	150	20
Visayas	2025	11	26	14	115	150	150	20
Visayas	2025	11	26	15	113	150	150	20
Visayas	2025	11	26	16	111	150	150	20
Visayas	2025	11	26	17	107	150	150	20
Visayas	2025	11	26	18	114	150	150	20
Visayas	2025	11	26	19	107	150	150	20
Visayas	2025	11	26	20	104	150	150	20
Visayas	2025	11	26	21	100	150	150	20
Visayas	2025	11	26	22	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	26	23	83	150	150	20
Visayas	2025	11	26	24	76	150	150	20
Visayas	2025	11	27	1	72	150	150	20
Visayas	2025	11	27	2	68	150	150	20
Visayas	2025	11	27	3	66	150	150	20
Visayas	2025	11	27	4	64	150	150	20
Visayas	2025	11	27	5	67	150	150	20
Visayas	2025	11	27	6	71	150	150	20
Visayas	2025	11	27	7	66	150	150	20
Visayas	2025	11	27	8	79	150	150	20
Visayas	2025	11	27	9	98	150	150	20
Visayas	2025	11	27	10	104	150	150	20
Visayas	2025	11	27	11	109	150	150	20
Visayas	2025	11	27	12	106	150	150	20
Visayas	2025	11	27	13	107	150	150	20
Visayas	2025	11	27	14	113	150	150	20
Visayas	2025	11	27	15	112	150	150	20
Visayas	2025	11	27	16	109	150	150	20
Visayas	2025	11	27	17	104	150	150	20
Visayas	2025	11	27	18	114	150	150	20
Visayas	2025	11	27	19	107	150	150	20
Visayas	2025	11	27	20	103	150	150	20
Visayas	2025	11	27	21	99	150	150	20
Visayas	2025	11	27	22	91	150	150	20
Visayas	2025	11	27	23	84	150	150	20
Visayas	2025	11	27	24	78	150	150	20
Visayas	2025	11	28	1	74	150	150	20
Visayas	2025	11	28	2	70	150	150	20
Visayas	2025	11	28	3	67	150	150	20
Visayas	2025	11	28	4	65	150	150	20
Visayas	2025	11	28	5	68	150	150	20
Visayas	2025	11	28	6	72	150	150	20
Visayas	2025	11	28	7	69	150	150	20
Visayas	2025	11	28	8	81	150	150	20
Visayas	2025	11	28	9	97	150	150	20
Visayas	2025	11	28	10	107	150	150	20
Visayas	2025	11	28	11	108	150	150	20
Visayas	2025	11	28	12	105	150	150	20
Visayas	2025	11	28	13	107	150	150	20
Visayas	2025	11	28	14	115	150	150	20
Visayas	2025	11	28	15	114	150	150	20
Visayas	2025	11	28	16	110	150	150	20
Visayas	2025	11	28	17	105	150	150	20
Visayas	2025	11	28	18	112	150	150	20
Visayas	2025	11	28	19	106	150	150	20
Visayas	2025	11	28	20	102	150	150	20
Visayas	2025	11	28	21	99	150	150	20
Visayas	2025	11	28	22	91	150	150	20
Visayas	2025	11	28	23	83	150	150	20
Visayas	2025	11	28	24	78	150	150	20
Visayas	2025	11	29	1	73	150	150	20
Visayas	2025	11	29	2	68	150	150	20
Visayas	2025	11	29	3	65	150	150	20
Visayas	2025	11	29	4	64	150	150	20
Visayas	2025	11	29	5	65	150	150	20
Visayas	2025	11	29	6	66	150	150	20
Visayas	2025	11	29	7	64	150	150	20
Visayas	2025	11	29	8	71	150	150	20
Visayas	2025	11	29	9	83	150	150	20
Visayas	2025	11	29	10	90	150	150	20
Visayas	2025	11	29	11	94	150	150	20
Visayas	2025	11	29	12	91	150	150	20
Visayas	2025	11	29	13	93	150	150	20
Visayas	2025	11	29	14	99	150	150	20
Visayas	2025	11	29	15	98	150	150	20
Visayas	2025	11	29	16	94	150	150	20
Visayas	2025	11	29	17	92	150	150	20
Visayas	2025	11	29	18	106	150	150	20
Visayas	2025	11	29	19	99	150	150	20
Visayas	2025	11	29	20	98	150	150	20
Visayas	2025	11	29	21	93	150	150	20
Visayas	2025	11	29	22	87	150	150	20
Visayas	2025	11	29	23	79	150	150	20
Visayas	2025	11	29	24	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	11	30	1	65	150	150	20
Visayas	2025	11	30	2	61	150	150	20
Visayas	2025	11	30	3	59	150	150	20
Visayas	2025	11	30	4	57	150	150	20
Visayas	2025	11	30	5	58	150	150	20
Visayas	2025	11	30	6	60	150	150	20
Visayas	2025	11	30	7	60	150	150	20
Visayas	2025	11	30	8	67	150	150	20
Visayas	2025	11	30	9	79	150	150	20
Visayas	2025	11	30	10	80	150	150	20
Visayas	2025	11	30	11	91	150	150	20
Visayas	2025	11	30	12	91	150	150	20
Visayas	2025	11	30	13	92	150	150	20
Visayas	2025	11	30	14	97	150	150	20
Visayas	2025	11	30	15	96	150	150	20
Visayas	2025	11	30	16	93	150	150	20
Visayas	2025	11	30	17	92	150	150	20
Visayas	2025	11	30	18	107	150	150	20
Visayas	2025	11	30	19	102	150	150	20
Visayas	2025	11	30	20	99	150	150	20
Visayas	2025	11	30	21	95	150	150	20
Visayas	2025	11	30	22	87	150	150	20
Visayas	2025	11	30	23	80	150	150	20
Visayas	2025	11	30	24	75	150	150	20
Visayas	2025	12	1	1	67	150	150	20
Visayas	2025	12	1	2	63	150	150	20
Visayas	2025	12	1	3	60	150	150	20
Visayas	2025	12	1	4	60	150	150	20
Visayas	2025	12	1	5	63	150	150	20
Visayas	2025	12	1	6	68	150	150	20
Visayas	2025	12	1	7	64	150	150	20
Visayas	2025	12	1	8	76	150	150	20
Visayas	2025	12	1	9	95	150	150	20
Visayas	2025	12	1	10	104	150	150	20
Visayas	2025	12	1	11	108	150	150	20
Visayas	2025	12	1	12	104	150	150	20
Visayas	2025	12	1	13	105	150	150	20
Visayas	2025	12	1	14	112	150	150	20
Visayas	2025	12	1	15	112	150	150	20
Visayas	2025	12	1	16	110	150	150	20
Visayas	2025	12	1	17	107	150	150	20
Visayas	2025	12	1	18	115	150	150	20
Visayas	2025	12	1	19	109	150	150	20
Visayas	2025	12	1	20	105	150	150	20
Visayas	2025	12	1	21	100	150	150	20
Visayas	2025	12	1	22	91	150	150	20
Visayas	2025	12	1	23	84	150	150	20
Visayas	2025	12	1	24	77	150	150	20
Visayas	2025	12	2	1	73	150	150	20
Visayas	2025	12	2	2	68	150	150	20
Visayas	2025	12	2	3	66	150	150	20
Visayas	2025	12	2	4	65	150	150	20
Visayas	2025	12	2	5	69	150	150	20
Visayas	2025	12	2	6	72	150	150	20
Visayas	2025	12	2	7	67	150	150	20
Visayas	2025	12	2	8	81	150	150	20
Visayas	2025	12	2	9	100	150	150	20
Visayas	2025	12	2	10	109	150	150	20
Visayas	2025	12	2	11	114	150	150	20
Visayas	2025	12	2	12	111	150	150	20
Visayas	2025	12	2	13	110	150	150	20
Visayas	2025	12	2	14	119	150	150	20
Visayas	2025	12	2	15	117	150	150	20
Visayas	2025	12	2	16	115	150	150	20
Visayas	2025	12	2	17	108	150	150	20
Visayas	2025	12	2	18	117	150	150	20
Visayas	2025	12	2	19	111	150	150	20
Visayas	2025	12	2	20	106	150	150	20
Visayas	2025	12	2	21	102	150	150	20
Visayas	2025	12	2	22	93	150	150	20
Visayas	2025	12	2	23	85	150	150	20
Visayas	2025	12	2	24	79	150	150	20
Visayas	2025	12	3	1	74	150	150	20
Visayas	2025	12	3	2	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	3	3	67	150	150	20
Visayas	2025	12	3	4	66	150	150	20
Visayas	2025	12	3	5	69	150	150	20
Visayas	2025	12	3	6	72	150	150	20
Visayas	2025	12	3	7	71	150	150	20
Visayas	2025	12	3	8	82	150	150	20
Visayas	2025	12	3	9	98	150	150	20
Visayas	2025	12	3	10	105	150	150	20
Visayas	2025	12	3	11	108	150	150	20
Visayas	2025	12	3	12	105	150	150	20
Visayas	2025	12	3	13	101	150	150	20
Visayas	2025	12	3	14	105	150	150	20
Visayas	2025	12	3	15	106	150	150	20
Visayas	2025	12	3	16	105	150	150	20
Visayas	2025	12	3	17	103	150	150	20
Visayas	2025	12	3	18	112	150	150	20
Visayas	2025	12	3	19	105	150	150	20
Visayas	2025	12	3	20	100	150	150	20
Visayas	2025	12	3	21	94	150	150	20
Visayas	2025	12	3	22	85	150	150	20
Visayas	2025	12	3	23	78	150	150	20
Visayas	2025	12	3	24	73	150	150	20
Visayas	2025	12	4	1	69	150	150	20
Visayas	2025	12	4	2	64	150	150	20
Visayas	2025	12	4	3	62	150	150	20
Visayas	2025	12	4	4	61	150	150	20
Visayas	2025	12	4	5	64	150	150	20
Visayas	2025	12	4	6	70	150	150	20
Visayas	2025	12	4	7	66	150	150	20
Visayas	2025	12	4	8	78	150	150	20
Visayas	2025	12	4	9	94	150	150	20
Visayas	2025	12	4	10	103	150	150	20
Visayas	2025	12	4	11	108	150	150	20
Visayas	2025	12	4	12	104	150	150	20
Visayas	2025	12	4	13	104	150	150	20
Visayas	2025	12	4	14	111	150	150	20
Visayas	2025	12	4	15	109	150	150	20
Visayas	2025	12	4	16	108	150	150	20
Visayas	2025	12	4	17	103	150	150	20
Visayas	2025	12	4	18	111	150	150	20
Visayas	2025	12	4	19	102	150	150	20
Visayas	2025	12	4	20	97	150	150	20
Visayas	2025	12	4	21	92	150	150	20
Visayas	2025	12	4	22	85	150	150	20
Visayas	2025	12	4	23	78	150	150	20
Visayas	2025	12	4	24	72	150	150	20
Visayas	2025	12	5	1	74	150	150	20
Visayas	2025	12	5	2	70	150	150	20
Visayas	2025	12	5	3	67	150	150	20
Visayas	2025	12	5	4	65	150	150	20
Visayas	2025	12	5	5	68	150	150	20
Visayas	2025	12	5	6	72	150	150	20
Visayas	2025	12	5	7	69	150	150	20
Visayas	2025	12	5	8	81	150	150	20
Visayas	2025	12	5	9	97	150	150	20
Visayas	2025	12	5	10	107	150	150	20
Visayas	2025	12	5	11	108	150	150	20
Visayas	2025	12	5	12	105	150	150	20
Visayas	2025	12	5	13	107	150	150	20
Visayas	2025	12	5	14	115	150	150	20
Visayas	2025	12	5	15	114	150	150	20
Visayas	2025	12	5	16	110	150	150	20
Visayas	2025	12	5	17	105	150	150	20
Visayas	2025	12	5	18	112	150	150	20
Visayas	2025	12	5	19	106	150	150	20
Visayas	2025	12	5	20	102	150	150	20
Visayas	2025	12	5	21	99	150	150	20
Visayas	2025	12	5	22	91	150	150	20
Visayas	2025	12	5	23	83	150	150	20
Visayas	2025	12	5	24	78	150	150	20
Visayas	2025	12	6	1	73	150	150	20
Visayas	2025	12	6	2	69	150	150	20
Visayas	2025	12	6	3	66	150	150	20
Visayas	2025	12	6	4	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	6	5	64	150	150	20
Visayas	2025	12	6	6	66	150	150	20
Visayas	2025	12	6	7	64	150	150	20
Visayas	2025	12	6	8	70	150	150	20
Visayas	2025	12	6	9	82	150	150	20
Visayas	2025	12	6	10	90	150	150	20
Visayas	2025	12	6	11	95	150	150	20
Visayas	2025	12	6	12	94	150	150	20
Visayas	2025	12	6	13	96	150	150	20
Visayas	2025	12	6	14	100	150	150	20
Visayas	2025	12	6	15	98	150	150	20
Visayas	2025	12	6	16	97	150	150	20
Visayas	2025	12	6	17	96	150	150	20
Visayas	2025	12	6	18	109	150	150	20
Visayas	2025	12	6	19	103	150	150	20
Visayas	2025	12	6	20	99	150	150	20
Visayas	2025	12	6	21	95	150	150	20
Visayas	2025	12	6	22	89	150	150	20
Visayas	2025	12	6	23	82	150	150	20
Visayas	2025	12	6	24	77	150	150	20
Visayas	2025	12	7	1	72	150	150	20
Visayas	2025	12	7	2	69	150	150	20
Visayas	2025	12	7	3	66	150	150	20
Visayas	2025	12	7	4	63	150	150	20
Visayas	2025	12	7	5	64	150	150	20
Visayas	2025	12	7	6	65	150	150	20
Visayas	2025	12	7	7	61	150	150	20
Visayas	2025	12	7	8	63	150	150	20
Visayas	2025	12	7	9	69	150	150	20
Visayas	2025	12	7	10	75	150	150	20
Visayas	2025	12	7	11	79	150	150	20
Visayas	2025	12	7	12	80	150	150	20
Visayas	2025	12	7	13	82	150	150	20
Visayas	2025	12	7	14	86	150	150	20
Visayas	2025	12	7	15	87	150	150	20
Visayas	2025	12	7	16	85	150	150	20
Visayas	2025	12	7	17	85	150	150	20
Visayas	2025	12	7	18	103	150	150	20
Visayas	2025	12	7	19	99	150	150	20
Visayas	2025	12	7	20	96	150	150	20
Visayas	2025	12	7	21	93	150	150	20
Visayas	2025	12	7	22	87	150	150	20
Visayas	2025	12	7	23	79	150	150	20
Visayas	2025	12	7	24	73	150	150	20
Visayas	2025	12	8	1	68	150	150	20
Visayas	2025	12	8	2	63	150	150	20
Visayas	2025	12	8	3	61	150	150	20
Visayas	2025	12	8	4	59	150	150	20
Visayas	2025	12	8	5	60	150	150	20
Visayas	2025	12	8	6	62	150	150	20
Visayas	2025	12	8	7	62	150	150	20
Visayas	2025	12	8	8	70	150	150	20
Visayas	2025	12	8	9	80	150	150	20
Visayas	2025	12	8	10	87	150	150	20
Visayas	2025	12	8	11	93	150	150	20
Visayas	2025	12	8	12	94	150	150	20
Visayas	2025	12	8	13	95	150	150	20
Visayas	2025	12	8	14	100	150	150	20
Visayas	2025	12	8	15	99	150	150	20
Visayas	2025	12	8	16	98	150	150	20
Visayas	2025	12	8	17	96	150	150	20
Visayas	2025	12	8	18	108	150	150	20
Visayas	2025	12	8	19	103	150	150	20
Visayas	2025	12	8	20	98	150	150	20
Visayas	2025	12	8	21	95	150	150	20
Visayas	2025	12	8	22	87	150	150	20
Visayas	2025	12	8	23	81	150	150	20
Visayas	2025	12	8	24	76	150	150	20
Visayas	2025	12	9	1	73	150	150	20
Visayas	2025	12	9	2	70	150	150	20
Visayas	2025	12	9	3	67	150	150	20
Visayas	2025	12	9	4	65	150	150	20
Visayas	2025	12	9	5	68	150	150	20
Visayas	2025	12	9	6	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	9	7	67	150	150	20
Visayas	2025	12	9	8	80	150	150	20
Visayas	2025	12	9	9	98	150	150	20
Visayas	2025	12	9	10	107	150	150	20
Visayas	2025	12	9	11	111	150	150	20
Visayas	2025	12	9	12	107	150	150	20
Visayas	2025	12	9	13	110	150	150	20
Visayas	2025	12	9	14	116	150	150	20
Visayas	2025	12	9	15	115	150	150	20
Visayas	2025	12	9	16	113	150	150	20
Visayas	2025	12	9	17	106	150	150	20
Visayas	2025	12	9	18	115	150	150	20
Visayas	2025	12	9	19	109	150	150	20
Visayas	2025	12	9	20	106	150	150	20
Visayas	2025	12	9	21	102	150	150	20
Visayas	2025	12	9	22	94	150	150	20
Visayas	2025	12	9	23	85	150	150	20
Visayas	2025	12	9	24	79	150	150	20
Visayas	2025	12	10	1	74	150	150	20
Visayas	2025	12	10	2	71	150	150	20
Visayas	2025	12	10	3	67	150	150	20
Visayas	2025	12	10	4	65	150	150	20
Visayas	2025	12	10	5	68	150	150	20
Visayas	2025	12	10	6	71	150	150	20
Visayas	2025	12	10	7	68	150	150	20
Visayas	2025	12	10	8	81	150	150	20
Visayas	2025	12	10	9	98	150	150	20
Visayas	2025	12	10	10	108	150	150	20
Visayas	2025	12	10	11	111	150	150	20
Visayas	2025	12	10	12	110	150	150	20
Visayas	2025	12	10	13	110	150	150	20
Visayas	2025	12	10	14	117	150	150	20
Visayas	2025	12	10	15	115	150	150	20
Visayas	2025	12	10	16	114	150	150	20
Visayas	2025	12	10	17	107	150	150	20
Visayas	2025	12	10	18	117	150	150	20
Visayas	2025	12	10	19	112	150	150	20
Visayas	2025	12	10	20	107	150	150	20
Visayas	2025	12	10	21	103	150	150	20
Visayas	2025	12	10	22	95	150	150	20
Visayas	2025	12	10	23	87	150	150	20
Visayas	2025	12	10	24	80	150	150	20
Visayas	2025	12	11	1	76	150	150	20
Visayas	2025	12	11	2	72	150	150	20
Visayas	2025	12	11	3	69	150	150	20
Visayas	2025	12	11	4	67	150	150	20
Visayas	2025	12	11	5	69	150	150	20
Visayas	2025	12	11	6	72	150	150	20
Visayas	2025	12	11	7	70	150	150	20
Visayas	2025	12	11	8	81	150	150	20
Visayas	2025	12	11	9	99	150	150	20
Visayas	2025	12	11	10	107	150	150	20
Visayas	2025	12	11	11	111	150	150	20
Visayas	2025	12	11	12	109	150	150	20
Visayas	2025	12	11	13	111	150	150	20
Visayas	2025	12	11	14	117	150	150	20
Visayas	2025	12	11	15	119	150	150	20
Visayas	2025	12	11	16	116	150	150	20
Visayas	2025	12	11	17	110	150	150	20
Visayas	2025	12	11	18	119	150	150	20
Visayas	2025	12	11	19	113	150	150	20
Visayas	2025	12	11	20	109	150	150	20
Visayas	2025	12	11	21	104	150	150	20
Visayas	2025	12	11	22	96	150	150	20
Visayas	2025	12	11	23	90	150	150	20
Visayas	2025	12	11	24	83	150	150	20
Visayas	2025	12	12	1	77	150	150	20
Visayas	2025	12	12	2	74	150	150	20
Visayas	2025	12	12	3	70	150	150	20
Visayas	2025	12	12	4	67	150	150	20
Visayas	2025	12	12	5	70	150	150	20
Visayas	2025	12	12	6	73	150	150	20
Visayas	2025	12	12	7	72	150	150	20
Visayas	2025	12	12	8	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	12	9	99	150	150	20
Visayas	2025	12	12	10	104	150	150	20
Visayas	2025	12	12	11	108	150	150	20
Visayas	2025	12	12	12	108	150	150	20
Visayas	2025	12	12	13	108	150	150	20
Visayas	2025	12	12	14	114	150	150	20
Visayas	2025	12	12	15	117	150	150	20
Visayas	2025	12	12	16	114	150	150	20
Visayas	2025	12	12	17	108	150	150	20
Visayas	2025	12	12	18	118	150	150	20
Visayas	2025	12	12	19	113	150	150	20
Visayas	2025	12	12	20	108	150	150	20
Visayas	2025	12	12	21	103	150	150	20
Visayas	2025	12	12	22	94	150	150	20
Visayas	2025	12	12	23	88	150	150	20
Visayas	2025	12	12	24	81	150	150	20
Visayas	2025	12	13	1	77	150	150	20
Visayas	2025	12	13	2	72	150	150	20
Visayas	2025	12	13	3	69	150	150	20
Visayas	2025	12	13	4	67	150	150	20
Visayas	2025	12	13	5	66	150	150	20
Visayas	2025	12	13	6	68	150	150	20
Visayas	2025	12	13	7	68	150	150	20
Visayas	2025	12	13	8	74	150	150	20
Visayas	2025	12	13	9	87	150	150	20
Visayas	2025	12	13	10	96	150	150	20
Visayas	2025	12	13	11	101	150	150	20
Visayas	2025	12	13	12	98	150	150	20
Visayas	2025	12	13	13	99	150	150	20
Visayas	2025	12	13	14	103	150	150	20
Visayas	2025	12	13	15	103	150	150	20
Visayas	2025	12	13	16	100	150	150	20
Visayas	2025	12	13	17	97	150	150	20
Visayas	2025	12	13	18	109	150	150	20
Visayas	2025	12	13	19	104	150	150	20
Visayas	2025	12	13	20	100	150	150	20
Visayas	2025	12	13	21	97	150	150	20
Visayas	2025	12	13	22	91	150	150	20
Visayas	2025	12	13	23	84	150	150	20
Visayas	2025	12	13	24	78	150	150	20
Visayas	2025	12	14	1	73	150	150	20
Visayas	2025	12	14	2	69	150	150	20
Visayas	2025	12	14	3	66	150	150	20
Visayas	2025	12	14	4	63	150	150	20
Visayas	2025	12	14	5	62	150	150	20
Visayas	2025	12	14	6	61	150	150	20
Visayas	2025	12	14	7	62	150	150	20
Visayas	2025	12	14	8	65	150	150	20
Visayas	2025	12	14	9	71	150	150	20
Visayas	2025	12	14	10	76	150	150	20
Visayas	2025	12	14	11	77	150	150	20
Visayas	2025	12	14	12	77	150	150	20
Visayas	2025	12	14	13	78	150	150	20
Visayas	2025	12	14	14	78	150	150	20
Visayas	2025	12	14	15	78	150	150	20
Visayas	2025	12	14	16	78	150	150	20
Visayas	2025	12	14	17	81	150	150	20
Visayas	2025	12	14	18	95	150	150	20
Visayas	2025	12	14	19	92	150	150	20
Visayas	2025	12	14	20	90	150	150	20
Visayas	2025	12	14	21	87	150	150	20
Visayas	2025	12	14	22	82	150	150	20
Visayas	2025	12	14	23	76	150	150	20
Visayas	2025	12	14	24	71	150	150	20
Visayas	2025	12	15	1	67	150	150	20
Visayas	2025	12	15	2	64	150	150	20
Visayas	2025	12	15	3	61	150	150	20
Visayas	2025	12	15	4	60	150	150	20
Visayas	2025	12	15	5	58	150	150	20
Visayas	2025	12	15	6	62	150	150	20
Visayas	2025	12	15	7	64	150	150	20
Visayas	2025	12	15	8	73	150	150	20
Visayas	2025	12	15	9	85	150	150	20
Visayas	2025	12	15	10	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	15	11	94	150	150	20
Visayas	2025	12	15	12	89	150	150	20
Visayas	2025	12	15	13	86	150	150	20
Visayas	2025	12	15	14	91	150	150	20
Visayas	2025	12	15	15	92	150	150	20
Visayas	2025	12	15	16	91	150	150	20
Visayas	2025	12	15	17	93	150	150	20
Visayas	2025	12	15	18	98	150	150	20
Visayas	2025	12	15	19	91	150	150	20
Visayas	2025	12	15	20	88	150	150	20
Visayas	2025	12	15	21	83	150	150	20
Visayas	2025	12	15	22	76	150	150	20
Visayas	2025	12	15	23	70	150	150	20
Visayas	2025	12	15	24	65	150	150	20
Visayas	2025	12	16	1	62	150	150	20
Visayas	2025	12	16	2	60	150	150	20
Visayas	2025	12	16	3	59	150	150	20
Visayas	2025	12	16	4	59	150	150	20
Visayas	2025	12	16	5	60	150	150	20
Visayas	2025	12	16	6	63	150	150	20
Visayas	2025	12	16	7	66	150	150	20
Visayas	2025	12	16	8	77	150	150	20
Visayas	2025	12	16	9	94	150	150	20
Visayas	2025	12	16	10	99	150	150	20
Visayas	2025	12	16	11	102	150	150	20
Visayas	2025	12	16	12	98	150	150	20
Visayas	2025	12	16	13	97	150	150	20
Visayas	2025	12	16	14	103	150	150	20
Visayas	2025	12	16	15	106	150	150	20
Visayas	2025	12	16	16	104	150	150	20
Visayas	2025	12	16	17	100	150	150	20
Visayas	2025	12	16	18	109	150	150	20
Visayas	2025	12	16	19	102	150	150	20
Visayas	2025	12	16	20	97	150	150	20
Visayas	2025	12	16	21	93	150	150	20
Visayas	2025	12	16	22	85	150	150	20
Visayas	2025	12	16	23	79	150	150	20
Visayas	2025	12	16	24	73	150	150	20
Visayas	2025	12	17	1	69	150	150	20
Visayas	2025	12	17	2	64	150	150	20
Visayas	2025	12	17	3	63	150	150	20
Visayas	2025	12	17	4	62	150	150	20
Visayas	2025	12	17	5	63	150	150	20
Visayas	2025	12	17	6	66	150	150	20
Visayas	2025	12	17	7	68	150	150	20
Visayas	2025	12	17	8	79	150	150	20
Visayas	2025	12	17	9	95	150	150	20
Visayas	2025	12	17	10	104	150	150	20
Visayas	2025	12	17	11	107	150	150	20
Visayas	2025	12	17	12	105	150	150	20
Visayas	2025	12	17	13	106	150	150	20
Visayas	2025	12	17	14	113	150	150	20
Visayas	2025	12	17	15	111	150	150	20
Visayas	2025	12	17	16	110	150	150	20
Visayas	2025	12	17	17	103	150	150	20
Visayas	2025	12	17	18	112	150	150	20
Visayas	2025	12	17	19	106	150	150	20
Visayas	2025	12	17	20	100	150	150	20
Visayas	2025	12	17	21	98	150	150	20
Visayas	2025	12	17	22	89	150	150	20
Visayas	2025	12	17	23	83	150	150	20
Visayas	2025	12	17	24	76	150	150	20
Visayas	2025	12	18	1	70	150	150	20
Visayas	2025	12	18	2	67	150	150	20
Visayas	2025	12	18	3	64	150	150	20
Visayas	2025	12	18	4	63	150	150	20
Visayas	2025	12	18	5	63	150	150	20
Visayas	2025	12	18	6	63	150	150	20
Visayas	2025	12	18	7	65	150	150	20
Visayas	2025	12	18	8	80	150	150	20
Visayas	2025	12	18	9	96	150	150	20
Visayas	2025	12	18	10	104	150	150	20
Visayas	2025	12	18	11	108	150	150	20
Visayas	2025	12	18	12	106	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	18	13	106	150	150	20
Visayas	2025	12	18	14	112	150	150	20
Visayas	2025	12	18	15	113	150	150	20
Visayas	2025	12	18	16	111	150	150	20
Visayas	2025	12	18	17	105	150	150	20
Visayas	2025	12	18	18	114	150	150	20
Visayas	2025	12	18	19	107	150	150	20
Visayas	2025	12	18	20	103	150	150	20
Visayas	2025	12	18	21	99	150	150	20
Visayas	2025	12	18	22	91	150	150	20
Visayas	2025	12	18	23	85	150	150	20
Visayas	2025	12	18	24	79	150	150	20
Visayas	2025	12	19	1	73	150	150	20
Visayas	2025	12	19	2	69	150	150	20
Visayas	2025	12	19	3	66	150	150	20
Visayas	2025	12	19	4	65	150	150	20
Visayas	2025	12	19	5	64	150	150	20
Visayas	2025	12	19	6	66	150	150	20
Visayas	2025	12	19	7	68	150	150	20
Visayas	2025	12	19	8	80	150	150	20
Visayas	2025	12	19	9	96	150	150	20
Visayas	2025	12	19	10	102	150	150	20
Visayas	2025	12	19	11	106	150	150	20
Visayas	2025	12	19	12	103	150	150	20
Visayas	2025	12	19	13	105	150	150	20
Visayas	2025	12	19	14	110	150	150	20
Visayas	2025	12	19	15	110	150	150	20
Visayas	2025	12	19	16	107	150	150	20
Visayas	2025	12	19	17	102	150	150	20
Visayas	2025	12	19	18	112	150	150	20
Visayas	2025	12	19	19	105	150	150	20
Visayas	2025	12	19	20	102	150	150	20
Visayas	2025	12	19	21	97	150	150	20
Visayas	2025	12	19	22	90	150	150	20
Visayas	2025	12	19	23	84	150	150	20
Visayas	2025	12	19	24	78	150	150	20
Visayas	2025	12	20	1	73	150	150	20
Visayas	2025	12	20	2	69	150	150	20
Visayas	2025	12	20	3	65	150	150	20
Visayas	2025	12	20	4	63	150	150	20
Visayas	2025	12	20	5	62	150	150	20
Visayas	2025	12	20	6	62	150	150	20
Visayas	2025	12	20	7	64	150	150	20
Visayas	2025	12	20	8	71	150	150	20
Visayas	2025	12	20	9	82	150	150	20
Visayas	2025	12	20	10	88	150	150	20
Visayas	2025	12	20	11	93	150	150	20
Visayas	2025	12	20	12	90	150	150	20
Visayas	2025	12	20	13	89	150	150	20
Visayas	2025	12	20	14	93	150	150	20
Visayas	2025	12	20	15	95	150	150	20
Visayas	2025	12	20	16	92	150	150	20
Visayas	2025	12	20	17	92	150	150	20
Visayas	2025	12	20	18	103	150	150	20
Visayas	2025	12	20	19	99	150	150	20
Visayas	2025	12	20	20	95	150	150	20
Visayas	2025	12	20	21	92	150	150	20
Visayas	2025	12	20	22	85	150	150	20
Visayas	2025	12	20	23	80	150	150	20
Visayas	2025	12	20	24	74	150	150	20
Visayas	2025	12	21	1	70	150	150	20
Visayas	2025	12	21	2	65	150	150	20
Visayas	2025	12	21	3	63	150	150	20
Visayas	2025	12	21	4	61	150	150	20
Visayas	2025	12	21	5	60	150	150	20
Visayas	2025	12	21	6	61	150	150	20
Visayas	2025	12	21	7	60	150	150	20
Visayas	2025	12	21	8	64	150	150	20
Visayas	2025	12	21	9	69	150	150	20
Visayas	2025	12	21	10	74	150	150	20
Visayas	2025	12	21	11	76	150	150	20
Visayas	2025	12	21	12	77	150	150	20
Visayas	2025	12	21	13	80	150	150	20
Visayas	2025	12	21	14	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	21	15	81	150	150	20
Visayas	2025	12	21	16	81	150	150	20
Visayas	2025	12	21	17	83	150	150	20
Visayas	2025	12	21	18	96	150	150	20
Visayas	2025	12	21	19	90	150	150	20
Visayas	2025	12	21	20	82	150	150	20
Visayas	2025	12	21	21	77	150	150	20
Visayas	2025	12	21	22	75	150	150	20
Visayas	2025	12	21	23	72	150	150	20
Visayas	2025	12	21	24	70	150	150	20
Visayas	2025	12	22	1	67	150	150	20
Visayas	2025	12	22	2	64	150	150	20
Visayas	2025	12	22	3	61	150	150	20
Visayas	2025	12	22	4	60	150	150	20
Visayas	2025	12	22	5	58	150	150	20
Visayas	2025	12	22	6	62	150	150	20
Visayas	2025	12	22	7	64	150	150	20
Visayas	2025	12	22	8	73	150	150	20
Visayas	2025	12	22	9	85	150	150	20
Visayas	2025	12	22	10	93	150	150	20
Visayas	2025	12	22	11	94	150	150	20
Visayas	2025	12	22	12	89	150	150	20
Visayas	2025	12	22	13	86	150	150	20
Visayas	2025	12	22	14	91	150	150	20
Visayas	2025	12	22	15	92	150	150	20
Visayas	2025	12	22	16	91	150	150	20
Visayas	2025	12	22	17	93	150	150	20
Visayas	2025	12	22	18	98	150	150	20
Visayas	2025	12	22	19	91	150	150	20
Visayas	2025	12	22	20	88	150	150	20
Visayas	2025	12	22	21	83	150	150	20
Visayas	2025	12	22	22	76	150	150	20
Visayas	2025	12	22	23	70	150	150	20
Visayas	2025	12	22	24	65	150	150	20
Visayas	2025	12	23	1	59	150	150	20
Visayas	2025	12	23	2	57	150	150	20
Visayas	2025	12	23	3	55	150	150	20
Visayas	2025	12	23	4	54	150	150	20
Visayas	2025	12	23	5	54	150	150	20
Visayas	2025	12	23	6	55	150	150	20
Visayas	2025	12	23	7	57	150	150	20
Visayas	2025	12	23	8	62	150	150	20
Visayas	2025	12	23	9	73	150	150	20
Visayas	2025	12	23	10	79	150	150	20
Visayas	2025	12	23	11	84	150	150	20
Visayas	2025	12	23	12	84	150	150	20
Visayas	2025	12	23	13	82	150	150	20
Visayas	2025	12	23	14	86	150	150	20
Visayas	2025	12	23	15	84	150	150	20
Visayas	2025	12	23	16	84	150	150	20
Visayas	2025	12	23	17	85	150	150	20
Visayas	2025	12	23	18	98	150	150	20
Visayas	2025	12	23	19	95	150	150	20
Visayas	2025	12	23	20	91	150	150	20
Visayas	2025	12	23	21	87	150	150	20
Visayas	2025	12	23	22	81	150	150	20
Visayas	2025	12	23	23	74	150	150	20
Visayas	2025	12	23	24	69	150	150	20
Visayas	2025	12	24	1	64	150	150	20
Visayas	2025	12	24	2	61	150	150	20
Visayas	2025	12	24	3	59	150	150	20
Visayas	2025	12	24	4	58	150	150	20
Visayas	2025	12	24	5	58	150	150	20
Visayas	2025	12	24	6	61	150	150	20
Visayas	2025	12	24	7	63	150	150	20
Visayas	2025	12	24	8	72	150	150	20
Visayas	2025	12	24	9	88	150	150	20
Visayas	2025	12	24	10	96	150	150	20
Visayas	2025	12	24	11	99	150	150	20
Visayas	2025	12	24	12	97	150	150	20
Visayas	2025	12	24	13	99	150	150	20
Visayas	2025	12	24	14	101	150	150	20
Visayas	2025	12	24	15	101	150	150	20
Visayas	2025	12	24	16	98	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	24	17	94	150	150	20
Visayas	2025	12	24	18	99	150	150	20
Visayas	2025	12	24	19	94	150	150	20
Visayas	2025	12	24	20	91	150	150	20
Visayas	2025	12	24	21	87	150	150	20
Visayas	2025	12	24	22	81	150	150	20
Visayas	2025	12	24	23	74	150	150	20
Visayas	2025	12	24	24	69	150	150	20
Visayas	2025	12	25	1	67	150	150	20
Visayas	2025	12	25	2	63	150	150	20
Visayas	2025	12	25	3	60	150	150	20
Visayas	2025	12	25	4	58	150	150	20
Visayas	2025	12	25	5	56	150	150	20
Visayas	2025	12	25	6	56	150	150	20
Visayas	2025	12	25	7	55	150	150	20
Visayas	2025	12	25	8	56	150	150	20
Visayas	2025	12	25	9	59	150	150	20
Visayas	2025	12	25	10	61	150	150	20
Visayas	2025	12	25	11	64	150	150	20
Visayas	2025	12	25	12	65	150	150	20
Visayas	2025	12	25	13	64	150	150	20
Visayas	2025	12	25	14	65	150	150	20
Visayas	2025	12	25	15	66	150	150	20
Visayas	2025	12	25	16	67	150	150	20
Visayas	2025	12	25	17	70	150	150	20
Visayas	2025	12	25	18	83	150	150	20
Visayas	2025	12	25	19	81	150	150	20
Visayas	2025	12	25	20	78	150	150	20
Visayas	2025	12	25	21	75	150	150	20
Visayas	2025	12	25	22	70	150	150	20
Visayas	2025	12	25	23	65	150	150	20
Visayas	2025	12	25	24	62	150	150	20
Visayas	2025	12	26	1	69	150	150	20
Visayas	2025	12	26	2	65	150	150	20
Visayas	2025	12	26	3	62	150	150	20
Visayas	2025	12	26	4	60	150	150	20
Visayas	2025	12	26	5	61	150	150	20
Visayas	2025	12	26	6	62	150	150	20
Visayas	2025	12	26	7	63	150	150	20
Visayas	2025	12	26	8	73	150	150	20
Visayas	2025	12	26	9	87	150	150	20
Visayas	2025	12	26	10	94	150	150	20
Visayas	2025	12	26	11	98	150	150	20
Visayas	2025	12	26	12	97	150	150	20
Visayas	2025	12	26	13	97	150	150	20
Visayas	2025	12	26	14	101	150	150	20
Visayas	2025	12	26	15	102	150	150	20
Visayas	2025	12	26	16	100	150	150	20
Visayas	2025	12	26	17	96	150	150	20
Visayas	2025	12	26	18	104	150	150	20
Visayas	2025	12	26	19	100	150	150	20
Visayas	2025	12	26	20	95	150	150	20
Visayas	2025	12	26	21	92	150	150	20
Visayas	2025	12	26	22	85	150	150	20
Visayas	2025	12	26	23	78	150	150	20
Visayas	2025	12	26	24	74	150	150	20
Visayas	2025	12	27	1	73	150	150	20
Visayas	2025	12	27	2	69	150	150	20
Visayas	2025	12	27	3	65	150	150	20
Visayas	2025	12	27	4	63	150	150	20
Visayas	2025	12	27	5	62	150	150	20
Visayas	2025	12	27	6	62	150	150	20
Visayas	2025	12	27	7	64	150	150	20
Visayas	2025	12	27	8	71	150	150	20
Visayas	2025	12	27	9	82	150	150	20
Visayas	2025	12	27	10	88	150	150	20
Visayas	2025	12	27	11	93	150	150	20
Visayas	2025	12	27	12	90	150	150	20
Visayas	2025	12	27	13	89	150	150	20
Visayas	2025	12	27	14	93	150	150	20
Visayas	2025	12	27	15	95	150	150	20
Visayas	2025	12	27	16	92	150	150	20
Visayas	2025	12	27	17	92	150	150	20
Visayas	2025	12	27	18	103	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	27	19	99	150	150	20
Visayas	2025	12	27	20	95	150	150	20
Visayas	2025	12	27	21	92	150	150	20
Visayas	2025	12	27	22	85	150	150	20
Visayas	2025	12	27	23	80	150	150	20
Visayas	2025	12	27	24	74	150	150	20
Visayas	2025	12	28	1	70	150	150	20
Visayas	2025	12	28	2	65	150	150	20
Visayas	2025	12	28	3	63	150	150	20
Visayas	2025	12	28	4	61	150	150	20
Visayas	2025	12	28	5	60	150	150	20
Visayas	2025	12	28	6	61	150	150	20
Visayas	2025	12	28	7	60	150	150	20
Visayas	2025	12	28	8	64	150	150	20
Visayas	2025	12	28	9	69	150	150	20
Visayas	2025	12	28	10	74	150	150	20
Visayas	2025	12	28	11	76	150	150	20
Visayas	2025	12	28	12	77	150	150	20
Visayas	2025	12	28	13	80	150	150	20
Visayas	2025	12	28	14	81	150	150	20
Visayas	2025	12	28	15	81	150	150	20
Visayas	2025	12	28	16	81	150	150	20
Visayas	2025	12	28	17	83	150	150	20
Visayas	2025	12	28	18	96	150	150	20
Visayas	2025	12	28	19	90	150	150	20
Visayas	2025	12	28	20	82	150	150	20
Visayas	2025	12	28	21	77	150	150	20
Visayas	2025	12	28	22	75	150	150	20
Visayas	2025	12	28	23	72	150	150	20
Visayas	2025	12	28	24	70	150	150	20
Visayas	2025	12	29	1	67	150	150	20
Visayas	2025	12	29	2	64	150	150	20
Visayas	2025	12	29	3	61	150	150	20
Visayas	2025	12	29	4	60	150	150	20
Visayas	2025	12	29	5	58	150	150	20
Visayas	2025	12	29	6	62	150	150	20
Visayas	2025	12	29	7	64	150	150	20
Visayas	2025	12	29	8	73	150	150	20
Visayas	2025	12	29	9	85	150	150	20
Visayas	2025	12	29	10	93	150	150	20
Visayas	2025	12	29	11	94	150	150	20
Visayas	2025	12	29	12	89	150	150	20
Visayas	2025	12	29	13	86	150	150	20
Visayas	2025	12	29	14	91	150	150	20
Visayas	2025	12	29	15	92	150	150	20
Visayas	2025	12	29	16	91	150	150	20
Visayas	2025	12	29	17	93	150	150	20
Visayas	2025	12	29	18	98	150	150	20
Visayas	2025	12	29	19	91	150	150	20
Visayas	2025	12	29	20	88	150	150	20
Visayas	2025	12	29	21	83	150	150	20
Visayas	2025	12	29	22	76	150	150	20
Visayas	2025	12	29	23	70	150	150	20
Visayas	2025	12	29	24	65	150	150	20
Visayas	2025	12	30	1	70	150	150	20
Visayas	2025	12	30	2	66	150	150	20
Visayas	2025	12	30	3	63	150	150	20
Visayas	2025	12	30	4	61	150	150	20
Visayas	2025	12	30	5	61	150	150	20
Visayas	2025	12	30	6	61	150	150	20
Visayas	2025	12	30	7	62	150	150	20
Visayas	2025	12	30	8	68	150	150	20
Visayas	2025	12	30	9	74	150	150	20
Visayas	2025	12	30	10	81	150	150	20
Visayas	2025	12	30	11	85	150	150	20
Visayas	2025	12	30	12	84	150	150	20
Visayas	2025	12	30	13	85	150	150	20
Visayas	2025	12	30	14	88	150	150	20
Visayas	2025	12	30	15	88	150	150	20
Visayas	2025	12	30	16	85	150	150	20
Visayas	2025	12	30	17	85	150	150	20
Visayas	2025	12	30	18	99	150	150	20
Visayas	2025	12	30	19	97	150	150	20
Visayas	2025	12	30	20	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2025	12	30	21	90	150	150	20
Visayas	2025	12	30	22	84	150	150	20
Visayas	2025	12	30	23	78	150	150	20
Visayas	2025	12	30	24	73	150	150	20
Visayas	2025	12	31	1	68	150	150	20
Visayas	2025	12	31	2	65	150	150	20
Visayas	2025	12	31	3	61	150	150	20
Visayas	2025	12	31	4	59	150	150	20
Visayas	2025	12	31	5	59	150	150	20
Visayas	2025	12	31	6	58	150	150	20
Visayas	2025	12	31	7	60	150	150	20
Visayas	2025	12	31	8	64	150	150	20
Visayas	2025	12	31	9	72	150	150	20
Visayas	2025	12	31	10	75	150	150	20
Visayas	2025	12	31	11	78	150	150	20
Visayas	2025	12	31	12	80	150	150	20
Visayas	2025	12	31	13	82	150	150	20
Visayas	2025	12	31	14	84	150	150	20
Visayas	2025	12	31	15	86	150	150	20
Visayas	2025	12	31	16	86	150	150	20
Visayas	2025	12	31	17	86	150	150	20
Visayas	2025	12	31	18	98	150	150	20
Visayas	2025	12	31	19	95	150	150	20
Visayas	2025	12	31	20	88	150	150	20
Visayas	2025	12	31	21	84	150	150	20
Visayas	2025	12	31	22	85	150	150	20
Visayas	2025	12	31	23	83	150	150	20
Visayas	2025	12	31	24	82	150	150	20
Visayas	2026	1	1	1	74	150	150	20
Visayas	2026	1	1	2	67	150	150	20
Visayas	2026	1	1	3	62	150	150	20
Visayas	2026	1	1	4	60	150	150	20
Visayas	2026	1	1	5	57	150	150	20
Visayas	2026	1	1	6	55	150	150	20
Visayas	2026	1	1	7	55	150	150	20
Visayas	2026	1	1	8	55	150	150	20
Visayas	2026	1	1	9	56	150	150	20
Visayas	2026	1	1	10	58	150	150	20
Visayas	2026	1	1	11	60	150	150	20
Visayas	2026	1	1	12	63	150	150	20
Visayas	2026	1	1	13	63	150	150	20
Visayas	2026	1	1	14	63	150	150	20
Visayas	2026	1	1	15	62	150	150	20
Visayas	2026	1	1	16	62	150	150	20
Visayas	2026	1	1	17	64	150	150	20
Visayas	2026	1	1	18	76	150	150	20
Visayas	2026	1	1	19	77	150	150	20
Visayas	2026	1	1	20	73	150	150	20
Visayas	2026	1	1	21	69	150	150	20
Visayas	2026	1	1	22	64	150	150	20
Visayas	2026	1	1	23	61	150	150	20
Visayas	2026	1	1	24	58	150	150	20
Visayas	2026	1	2	1	61	150	150	20
Visayas	2026	1	2	2	59	150	150	20
Visayas	2026	1	2	3	58	150	150	20
Visayas	2026	1	2	4	56	150	150	20
Visayas	2026	1	2	5	58	150	150	20
Visayas	2026	1	2	6	63	150	150	20
Visayas	2026	1	2	7	62	150	150	20
Visayas	2026	1	2	8	70	150	150	20
Visayas	2026	1	2	9	87	150	150	20
Visayas	2026	1	2	10	96	150	150	20
Visayas	2026	1	2	11	98	150	150	20
Visayas	2026	1	2	12	96	150	150	20
Visayas	2026	1	2	13	96	150	150	20
Visayas	2026	1	2	14	101	150	150	20
Visayas	2026	1	2	15	100	150	150	20
Visayas	2026	1	2	16	96	150	150	20
Visayas	2026	1	2	17	91	150	150	20
Visayas	2026	1	2	18	99	150	150	20
Visayas	2026	1	2	19	94	150	150	20
Visayas	2026	1	2	20	86	150	150	20
Visayas	2026	1	2	21	80	150	150	20
Visayas	2026	1	2	22	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	2	23	67	150	150	20
Visayas	2026	1	2	24	63	150	150	20
Visayas	2026	1	3	1	60	150	150	20
Visayas	2026	1	3	2	59	150	150	20
Visayas	2026	1	3	3	57	150	150	20
Visayas	2026	1	3	4	55	150	150	20
Visayas	2026	1	3	5	56	150	150	20
Visayas	2026	1	3	6	57	150	150	20
Visayas	2026	1	3	7	59	150	150	20
Visayas	2026	1	3	8	63	150	150	20
Visayas	2026	1	3	9	74	150	150	20
Visayas	2026	1	3	10	82	150	150	20
Visayas	2026	1	3	11	84	150	150	20
Visayas	2026	1	3	12	80	150	150	20
Visayas	2026	1	3	13	80	150	150	20
Visayas	2026	1	3	14	82	150	150	20
Visayas	2026	1	3	15	82	150	150	20
Visayas	2026	1	3	16	80	150	150	20
Visayas	2026	1	3	17	79	150	150	20
Visayas	2026	1	3	18	88	150	150	20
Visayas	2026	1	3	19	86	150	150	20
Visayas	2026	1	3	20	81	150	150	20
Visayas	2026	1	3	21	78	150	150	20
Visayas	2026	1	3	22	71	150	150	20
Visayas	2026	1	3	23	64	150	150	20
Visayas	2026	1	3	24	60	150	150	20
Visayas	2026	1	4	1	59	150	150	20
Visayas	2026	1	4	2	57	150	150	20
Visayas	2026	1	4	3	56	150	150	20
Visayas	2026	1	4	4	54	150	150	20
Visayas	2026	1	4	5	55	150	150	20
Visayas	2026	1	4	6	55	150	150	20
Visayas	2026	1	4	7	56	150	150	20
Visayas	2026	1	4	8	57	150	150	20
Visayas	2026	1	4	9	61	150	150	20
Visayas	2026	1	4	10	64	150	150	20
Visayas	2026	1	4	11	65	150	150	20
Visayas	2026	1	4	12	63	150	150	20
Visayas	2026	1	4	13	63	150	150	20
Visayas	2026	1	4	14	62	150	150	20
Visayas	2026	1	4	15	61	150	150	20
Visayas	2026	1	4	16	62	150	150	20
Visayas	2026	1	4	17	65	150	150	20
Visayas	2026	1	4	18	79	150	150	20
Visayas	2026	1	4	19	76	150	150	20
Visayas	2026	1	4	20	71	150	150	20
Visayas	2026	1	4	21	67	150	150	20
Visayas	2026	1	4	22	61	150	150	20
Visayas	2026	1	4	23	59	150	150	20
Visayas	2026	1	4	24	56	150	150	20
Visayas	2026	1	5	1	55	150	150	20
Visayas	2026	1	5	2	54	150	150	20
Visayas	2026	1	5	3	53	150	150	20
Visayas	2026	1	5	4	51	150	150	20
Visayas	2026	1	5	5	52	150	150	20
Visayas	2026	1	5	6	53	150	150	20
Visayas	2026	1	5	7	54	150	150	20
Visayas	2026	1	5	8	57	150	150	20
Visayas	2026	1	5	9	64	150	150	20
Visayas	2026	1	5	10	72	150	150	20
Visayas	2026	1	5	11	76	150	150	20
Visayas	2026	1	5	12	76	150	150	20
Visayas	2026	1	5	13	75	150	150	20
Visayas	2026	1	5	14	78	150	150	20
Visayas	2026	1	5	15	79	150	150	20
Visayas	2026	1	5	16	76	150	150	20
Visayas	2026	1	5	17	78	150	150	20
Visayas	2026	1	5	18	91	150	150	20
Visayas	2026	1	5	19	90	150	150	20
Visayas	2026	1	5	20	84	150	150	20
Visayas	2026	1	5	21	81	150	150	20
Visayas	2026	1	5	22	74	150	150	20
Visayas	2026	1	5	23	69	150	150	20
Visayas	2026	1	5	24	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	6	1	61	150	150	20
Visayas	2026	1	6	2	59	150	150	20
Visayas	2026	1	6	3	56	150	150	20
Visayas	2026	1	6	4	55	150	150	20
Visayas	2026	1	6	5	55	150	150	20
Visayas	2026	1	6	6	56	150	150	20
Visayas	2026	1	6	7	59	150	150	20
Visayas	2026	1	6	8	64	150	150	20
Visayas	2026	1	6	9	77	150	150	20
Visayas	2026	1	6	10	81	150	150	20
Visayas	2026	1	6	11	86	150	150	20
Visayas	2026	1	6	12	84	150	150	20
Visayas	2026	1	6	13	81	150	150	20
Visayas	2026	1	6	14	85	150	150	20
Visayas	2026	1	6	15	87	150	150	20
Visayas	2026	1	6	16	86	150	150	20
Visayas	2026	1	6	17	87	150	150	20
Visayas	2026	1	6	18	94	150	150	20
Visayas	2026	1	6	19	89	150	150	20
Visayas	2026	1	6	20	83	150	150	20
Visayas	2026	1	6	21	77	150	150	20
Visayas	2026	1	6	22	69	150	150	20
Visayas	2026	1	6	23	65	150	150	20
Visayas	2026	1	6	24	61	150	150	20
Visayas	2026	1	7	1	58	150	150	20
Visayas	2026	1	7	2	56	150	150	20
Visayas	2026	1	7	3	55	150	150	20
Visayas	2026	1	7	4	56	150	150	20
Visayas	2026	1	7	5	57	150	150	20
Visayas	2026	1	7	6	60	150	150	20
Visayas	2026	1	7	7	63	150	150	20
Visayas	2026	1	7	8	67	150	150	20
Visayas	2026	1	7	9	80	150	150	20
Visayas	2026	1	7	10	86	150	150	20
Visayas	2026	1	7	11	89	150	150	20
Visayas	2026	1	7	12	83	150	150	20
Visayas	2026	1	7	13	82	150	150	20
Visayas	2026	1	7	14	85	150	150	20
Visayas	2026	1	7	15	87	150	150	20
Visayas	2026	1	7	16	86	150	150	20
Visayas	2026	1	7	17	84	150	150	20
Visayas	2026	1	7	18	94	150	150	20
Visayas	2026	1	7	19	86	150	150	20
Visayas	2026	1	7	20	81	150	150	20
Visayas	2026	1	7	21	75	150	150	20
Visayas	2026	1	7	22	68	150	150	20
Visayas	2026	1	7	23	63	150	150	20
Visayas	2026	1	7	24	60	150	150	20
Visayas	2026	1	8	1	57	150	150	20
Visayas	2026	1	8	2	56	150	150	20
Visayas	2026	1	8	3	55	150	150	20
Visayas	2026	1	8	4	54	150	150	20
Visayas	2026	1	8	5	56	150	150	20
Visayas	2026	1	8	6	60	150	150	20
Visayas	2026	1	8	7	62	150	150	20
Visayas	2026	1	8	8	68	150	150	20
Visayas	2026	1	8	9	85	150	150	20
Visayas	2026	1	8	10	93	150	150	20
Visayas	2026	1	8	11	98	150	150	20
Visayas	2026	1	8	12	95	150	150	20
Visayas	2026	1	8	13	94	150	150	20
Visayas	2026	1	8	14	100	150	150	20
Visayas	2026	1	8	15	99	150	150	20
Visayas	2026	1	8	16	97	150	150	20
Visayas	2026	1	8	17	93	150	150	20
Visayas	2026	1	8	18	100	150	150	20
Visayas	2026	1	8	19	96	150	150	20
Visayas	2026	1	8	20	89	150	150	20
Visayas	2026	1	8	21	82	150	150	20
Visayas	2026	1	8	22	75	150	150	20
Visayas	2026	1	8	23	68	150	150	20
Visayas	2026	1	8	24	64	150	150	20
Visayas	2026	1	9	1	61	150	150	20
Visayas	2026	1	9	2	59	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	9	3	58	150	150	20
Visayas	2026	1	9	4	56	150	150	20
Visayas	2026	1	9	5	58	150	150	20
Visayas	2026	1	9	6	63	150	150	20
Visayas	2026	1	9	7	62	150	150	20
Visayas	2026	1	9	8	70	150	150	20
Visayas	2026	1	9	9	87	150	150	20
Visayas	2026	1	9	10	96	150	150	20
Visayas	2026	1	9	11	98	150	150	20
Visayas	2026	1	9	12	96	150	150	20
Visayas	2026	1	9	13	96	150	150	20
Visayas	2026	1	9	14	101	150	150	20
Visayas	2026	1	9	15	100	150	150	20
Visayas	2026	1	9	16	96	150	150	20
Visayas	2026	1	9	17	91	150	150	20
Visayas	2026	1	9	18	99	150	150	20
Visayas	2026	1	9	19	94	150	150	20
Visayas	2026	1	9	20	86	150	150	20
Visayas	2026	1	9	21	80	150	150	20
Visayas	2026	1	9	22	75	150	150	20
Visayas	2026	1	9	23	67	150	150	20
Visayas	2026	1	9	24	63	150	150	20
Visayas	2026	1	10	1	60	150	150	20
Visayas	2026	1	10	2	59	150	150	20
Visayas	2026	1	10	3	57	150	150	20
Visayas	2026	1	10	4	55	150	150	20
Visayas	2026	1	10	5	56	150	150	20
Visayas	2026	1	10	6	57	150	150	20
Visayas	2026	1	10	7	59	150	150	20
Visayas	2026	1	10	8	63	150	150	20
Visayas	2026	1	10	9	74	150	150	20
Visayas	2026	1	10	10	82	150	150	20
Visayas	2026	1	10	11	84	150	150	20
Visayas	2026	1	10	12	80	150	150	20
Visayas	2026	1	10	13	80	150	150	20
Visayas	2026	1	10	14	82	150	150	20
Visayas	2026	1	10	15	82	150	150	20
Visayas	2026	1	10	16	80	150	150	20
Visayas	2026	1	10	17	79	150	150	20
Visayas	2026	1	10	18	88	150	150	20
Visayas	2026	1	10	19	86	150	150	20
Visayas	2026	1	10	20	81	150	150	20
Visayas	2026	1	10	21	78	150	150	20
Visayas	2026	1	10	22	71	150	150	20
Visayas	2026	1	10	23	64	150	150	20
Visayas	2026	1	10	24	60	150	150	20
Visayas	2026	1	11	1	59	150	150	20
Visayas	2026	1	11	2	57	150	150	20
Visayas	2026	1	11	3	56	150	150	20
Visayas	2026	1	11	4	54	150	150	20
Visayas	2026	1	11	5	55	150	150	20
Visayas	2026	1	11	6	55	150	150	20
Visayas	2026	1	11	7	56	150	150	20
Visayas	2026	1	11	8	57	150	150	20
Visayas	2026	1	11	9	61	150	150	20
Visayas	2026	1	11	10	64	150	150	20
Visayas	2026	1	11	11	65	150	150	20
Visayas	2026	1	11	12	63	150	150	20
Visayas	2026	1	11	13	63	150	150	20
Visayas	2026	1	11	14	62	150	150	20
Visayas	2026	1	11	15	61	150	150	20
Visayas	2026	1	11	16	62	150	150	20
Visayas	2026	1	11	17	65	150	150	20
Visayas	2026	1	11	18	79	150	150	20
Visayas	2026	1	11	19	76	150	150	20
Visayas	2026	1	11	20	71	150	150	20
Visayas	2026	1	11	21	67	150	150	20
Visayas	2026	1	11	22	61	150	150	20
Visayas	2026	1	11	23	59	150	150	20
Visayas	2026	1	11	24	56	150	150	20
Visayas	2026	1	12	1	54	150	150	20
Visayas	2026	1	12	2	52	150	150	20
Visayas	2026	1	12	3	52	150	150	20
Visayas	2026	1	12	4	51	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	12	5	55	150	150	20
Visayas	2026	1	12	6	59	150	150	20
Visayas	2026	1	12	7	60	150	150	20
Visayas	2026	1	12	8	64	150	150	20
Visayas	2026	1	12	9	77	150	150	20
Visayas	2026	1	12	10	83	150	150	20
Visayas	2026	1	12	11	90	150	150	20
Visayas	2026	1	12	12	83	150	150	20
Visayas	2026	1	12	13	83	150	150	20
Visayas	2026	1	12	14	86	150	150	20
Visayas	2026	1	12	15	85	150	150	20
Visayas	2026	1	12	16	86	150	150	20
Visayas	2026	1	12	17	84	150	150	20
Visayas	2026	1	12	18	91	150	150	20
Visayas	2026	1	12	19	84	150	150	20
Visayas	2026	1	12	20	78	150	150	20
Visayas	2026	1	12	21	72	150	150	20
Visayas	2026	1	12	22	65	150	150	20
Visayas	2026	1	12	23	60	150	150	20
Visayas	2026	1	12	24	57	150	150	20
Visayas	2026	1	13	1	55	150	150	20
Visayas	2026	1	13	2	54	150	150	20
Visayas	2026	1	13	3	53	150	150	20
Visayas	2026	1	13	4	52	150	150	20
Visayas	2026	1	13	5	55	150	150	20
Visayas	2026	1	13	6	60	150	150	20
Visayas	2026	1	13	7	61	150	150	20
Visayas	2026	1	13	8	66	150	150	20
Visayas	2026	1	13	9	80	150	150	20
Visayas	2026	1	13	10	85	150	150	20
Visayas	2026	1	13	11	88	150	150	20
Visayas	2026	1	13	12	84	150	150	20
Visayas	2026	1	13	13	83	150	150	20
Visayas	2026	1	13	14	85	150	150	20
Visayas	2026	1	13	15	85	150	150	20
Visayas	2026	1	13	16	85	150	150	20
Visayas	2026	1	13	17	85	150	150	20
Visayas	2026	1	13	18	92	150	150	20
Visayas	2026	1	13	19	84	150	150	20
Visayas	2026	1	13	20	79	150	150	20
Visayas	2026	1	13	21	71	150	150	20
Visayas	2026	1	13	22	66	150	150	20
Visayas	2026	1	13	23	61	150	150	20
Visayas	2026	1	13	24	57	150	150	20
Visayas	2026	1	14	1	55	150	150	20
Visayas	2026	1	14	2	54	150	150	20
Visayas	2026	1	14	3	53	150	150	20
Visayas	2026	1	14	4	53	150	150	20
Visayas	2026	1	14	5	56	150	150	20
Visayas	2026	1	14	6	60	150	150	20
Visayas	2026	1	14	7	62	150	150	20
Visayas	2026	1	14	8	66	150	150	20
Visayas	2026	1	14	9	78	150	150	20
Visayas	2026	1	14	10	86	150	150	20
Visayas	2026	1	14	11	83	150	150	20
Visayas	2026	1	14	12	78	150	150	20
Visayas	2026	1	14	13	77	150	150	20
Visayas	2026	1	14	14	80	150	150	20
Visayas	2026	1	14	15	77	150	150	20
Visayas	2026	1	14	16	80	150	150	20
Visayas	2026	1	14	17	79	150	150	20
Visayas	2026	1	14	18	85	150	150	20
Visayas	2026	1	14	19	80	150	150	20
Visayas	2026	1	14	20	74	150	150	20
Visayas	2026	1	14	21	66	150	150	20
Visayas	2026	1	14	22	61	150	150	20
Visayas	2026	1	14	23	57	150	150	20
Visayas	2026	1	14	24	54	150	150	20
Visayas	2026	1	15	1	53	150	150	20
Visayas	2026	1	15	2	52	150	150	20
Visayas	2026	1	15	3	50	150	150	20
Visayas	2026	1	15	4	50	150	150	20
Visayas	2026	1	15	5	52	150	150	20
Visayas	2026	1	15	6	56	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	15	7	59	150	150	20
Visayas	2026	1	15	8	63	150	150	20
Visayas	2026	1	15	9	74	150	150	20
Visayas	2026	1	15	10	79	150	150	20
Visayas	2026	1	15	11	82	150	150	20
Visayas	2026	1	15	12	78	150	150	20
Visayas	2026	1	15	13	78	150	150	20
Visayas	2026	1	15	14	80	150	150	20
Visayas	2026	1	15	15	81	150	150	20
Visayas	2026	1	15	16	80	150	150	20
Visayas	2026	1	15	17	80	150	150	20
Visayas	2026	1	15	18	88	150	150	20
Visayas	2026	1	15	19	81	150	150	20
Visayas	2026	1	15	20	76	150	150	20
Visayas	2026	1	15	21	69	150	150	20
Visayas	2026	1	15	22	64	150	150	20
Visayas	2026	1	15	23	59	150	150	20
Visayas	2026	1	15	24	57	150	150	20
Visayas	2026	1	16	1	55	150	150	20
Visayas	2026	1	16	2	54	150	150	20
Visayas	2026	1	16	3	53	150	150	20
Visayas	2026	1	16	4	52	150	150	20
Visayas	2026	1	16	5	55	150	150	20
Visayas	2026	1	16	6	59	150	150	20
Visayas	2026	1	16	7	62	150	150	20
Visayas	2026	1	16	8	67	150	150	20
Visayas	2026	1	16	9	78	150	150	20
Visayas	2026	1	16	10	83	150	150	20
Visayas	2026	1	16	11	84	150	150	20
Visayas	2026	1	16	12	78	150	150	20
Visayas	2026	1	16	13	78	150	150	20
Visayas	2026	1	16	14	80	150	150	20
Visayas	2026	1	16	15	79	150	150	20
Visayas	2026	1	16	16	79	150	150	20
Visayas	2026	1	16	17	81	150	150	20
Visayas	2026	1	16	18	85	150	150	20
Visayas	2026	1	16	19	80	150	150	20
Visayas	2026	1	16	20	74	150	150	20
Visayas	2026	1	16	21	69	150	150	20
Visayas	2026	1	16	22	63	150	150	20
Visayas	2026	1	16	23	58	150	150	20
Visayas	2026	1	16	24	55	150	150	20
Visayas	2026	1	17	1	54	150	150	20
Visayas	2026	1	17	2	52	150	150	20
Visayas	2026	1	17	3	51	150	150	20
Visayas	2026	1	17	4	51	150	150	20
Visayas	2026	1	17	5	52	150	150	20
Visayas	2026	1	17	6	54	150	150	20
Visayas	2026	1	17	7	56	150	150	20
Visayas	2026	1	17	8	62	150	150	20
Visayas	2026	1	17	9	69	150	150	20
Visayas	2026	1	17	10	75	150	150	20
Visayas	2026	1	17	11	77	150	150	20
Visayas	2026	1	17	12	75	150	150	20
Visayas	2026	1	17	13	72	150	150	20
Visayas	2026	1	17	14	75	150	150	20
Visayas	2026	1	17	15	74	150	150	20
Visayas	2026	1	17	16	74	150	150	20
Visayas	2026	1	17	17	72	150	150	20
Visayas	2026	1	17	18	84	150	150	20
Visayas	2026	1	17	19	80	150	150	20
Visayas	2026	1	17	20	74	150	150	20
Visayas	2026	1	17	21	70	150	150	20
Visayas	2026	1	17	22	63	150	150	20
Visayas	2026	1	17	23	59	150	150	20
Visayas	2026	1	17	24	56	150	150	20
Visayas	2026	1	18	1	54	150	150	20
Visayas	2026	1	18	2	52	150	150	20
Visayas	2026	1	18	3	52	150	150	20
Visayas	2026	1	18	4	51	150	150	20
Visayas	2026	1	18	5	51	150	150	20
Visayas	2026	1	18	6	52	150	150	20
Visayas	2026	1	18	7	54	150	150	20
Visayas	2026	1	18	8	57	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	18	9	60	150	150	20
Visayas	2026	1	18	10	64	150	150	20
Visayas	2026	1	18	11	68	150	150	20
Visayas	2026	1	18	12	68	150	150	20
Visayas	2026	1	18	13	68	150	150	20
Visayas	2026	1	18	14	69	150	150	20
Visayas	2026	1	18	15	69	150	150	20
Visayas	2026	1	18	16	68	150	150	20
Visayas	2026	1	18	17	68	150	150	20
Visayas	2026	1	18	18	80	150	150	20
Visayas	2026	1	18	19	83	150	150	20
Visayas	2026	1	18	20	78	150	150	20
Visayas	2026	1	18	21	73	150	150	20
Visayas	2026	1	18	22	66	150	150	20
Visayas	2026	1	18	23	62	150	150	20
Visayas	2026	1	18	24	58	150	150	20
Visayas	2026	1	19	1	56	150	150	20
Visayas	2026	1	19	2	54	150	150	20
Visayas	2026	1	19	3	53	150	150	20
Visayas	2026	1	19	4	53	150	150	20
Visayas	2026	1	19	5	56	150	150	20
Visayas	2026	1	19	6	60	150	150	20
Visayas	2026	1	19	7	60	150	150	20
Visayas	2026	1	19	8	67	150	150	20
Visayas	2026	1	19	9	82	150	150	20
Visayas	2026	1	19	10	92	150	150	20
Visayas	2026	1	19	11	93	150	150	20
Visayas	2026	1	19	12	92	150	150	20
Visayas	2026	1	19	13	93	150	150	20
Visayas	2026	1	19	14	98	150	150	20
Visayas	2026	1	19	15	95	150	150	20
Visayas	2026	1	19	16	92	150	150	20
Visayas	2026	1	19	17	88	150	150	20
Visayas	2026	1	19	18	97	150	150	20
Visayas	2026	1	19	19	95	150	150	20
Visayas	2026	1	19	20	90	150	150	20
Visayas	2026	1	19	21	84	150	150	20
Visayas	2026	1	19	22	77	150	150	20
Visayas	2026	1	19	23	70	150	150	20
Visayas	2026	1	19	24	65	150	150	20
Visayas	2026	1	20	1	62	150	150	20
Visayas	2026	1	20	2	59	150	150	20
Visayas	2026	1	20	3	57	150	150	20
Visayas	2026	1	20	4	57	150	150	20
Visayas	2026	1	20	5	61	150	150	20
Visayas	2026	1	20	6	66	150	150	20
Visayas	2026	1	20	7	64	150	150	20
Visayas	2026	1	20	8	72	150	150	20
Visayas	2026	1	20	9	87	150	150	20
Visayas	2026	1	20	10	94	150	150	20
Visayas	2026	1	20	11	98	150	150	20
Visayas	2026	1	20	12	97	150	150	20
Visayas	2026	1	20	13	97	150	150	20
Visayas	2026	1	20	14	101	150	150	20
Visayas	2026	1	20	15	99	150	150	20
Visayas	2026	1	20	16	97	150	150	20
Visayas	2026	1	20	17	92	150	150	20
Visayas	2026	1	20	18	99	150	150	20
Visayas	2026	1	20	19	98	150	150	20
Visayas	2026	1	20	20	91	150	150	20
Visayas	2026	1	20	21	85	150	150	20
Visayas	2026	1	20	22	78	150	150	20
Visayas	2026	1	20	23	71	150	150	20
Visayas	2026	1	20	24	66	150	150	20
Visayas	2026	1	21	1	63	150	150	20
Visayas	2026	1	21	2	61	150	150	20
Visayas	2026	1	21	3	60	150	150	20
Visayas	2026	1	21	4	58	150	150	20
Visayas	2026	1	21	5	62	150	150	20
Visayas	2026	1	21	6	67	150	150	20
Visayas	2026	1	21	7	64	150	150	20
Visayas	2026	1	21	8	73	150	150	20
Visayas	2026	1	21	9	89	150	150	20
Visayas	2026	1	21	10	99	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	21	11	103	150	150	20
Visayas	2026	1	21	12	97	150	150	20
Visayas	2026	1	21	13	97	150	150	20
Visayas	2026	1	21	14	103	150	150	20
Visayas	2026	1	21	15	102	150	150	20
Visayas	2026	1	21	16	99	150	150	20
Visayas	2026	1	21	17	94	150	150	20
Visayas	2026	1	21	18	99	150	150	20
Visayas	2026	1	21	19	98	150	150	20
Visayas	2026	1	21	20	91	150	150	20
Visayas	2026	1	21	21	86	150	150	20
Visayas	2026	1	21	22	78	150	150	20
Visayas	2026	1	21	23	71	150	150	20
Visayas	2026	1	21	24	66	150	150	20
Visayas	2026	1	22	1	63	150	150	20
Visayas	2026	1	22	2	61	150	150	20
Visayas	2026	1	22	3	59	150	150	20
Visayas	2026	1	22	4	58	150	150	20
Visayas	2026	1	22	5	62	150	150	20
Visayas	2026	1	22	6	68	150	150	20
Visayas	2026	1	22	7	64	150	150	20
Visayas	2026	1	22	8	73	150	150	20
Visayas	2026	1	22	9	91	150	150	20
Visayas	2026	1	22	10	98	150	150	20
Visayas	2026	1	22	11	100	150	150	20
Visayas	2026	1	22	12	97	150	150	20
Visayas	2026	1	22	13	97	150	150	20
Visayas	2026	1	22	14	105	150	150	20
Visayas	2026	1	22	15	103	150	150	20
Visayas	2026	1	22	16	101	150	150	20
Visayas	2026	1	22	17	96	150	150	20
Visayas	2026	1	22	18	100	150	150	20
Visayas	2026	1	22	19	99	150	150	20
Visayas	2026	1	22	20	92	150	150	20
Visayas	2026	1	22	21	86	150	150	20
Visayas	2026	1	22	22	78	150	150	20
Visayas	2026	1	22	23	73	150	150	20
Visayas	2026	1	22	24	69	150	150	20
Visayas	2026	1	23	1	64	150	150	20
Visayas	2026	1	23	2	63	150	150	20
Visayas	2026	1	23	3	60	150	150	20
Visayas	2026	1	23	4	59	150	150	20
Visayas	2026	1	23	5	62	150	150	20
Visayas	2026	1	23	6	67	150	150	20
Visayas	2026	1	23	7	66	150	150	20
Visayas	2026	1	23	8	73	150	150	20
Visayas	2026	1	23	9	88	150	150	20
Visayas	2026	1	23	10	95	150	150	20
Visayas	2026	1	23	11	101	150	150	20
Visayas	2026	1	23	12	96	150	150	20
Visayas	2026	1	23	13	97	150	150	20
Visayas	2026	1	23	14	103	150	150	20
Visayas	2026	1	23	15	102	150	150	20
Visayas	2026	1	23	16	101	150	150	20
Visayas	2026	1	23	17	93	150	150	20
Visayas	2026	1	23	18	100	150	150	20
Visayas	2026	1	23	19	98	150	150	20
Visayas	2026	1	23	20	92	150	150	20
Visayas	2026	1	23	21	86	150	150	20
Visayas	2026	1	23	22	80	150	150	20
Visayas	2026	1	23	23	74	150	150	20
Visayas	2026	1	23	24	68	150	150	20
Visayas	2026	1	24	1	64	150	150	20
Visayas	2026	1	24	2	61	150	150	20
Visayas	2026	1	24	3	60	150	150	20
Visayas	2026	1	24	4	58	150	150	20
Visayas	2026	1	24	5	59	150	150	20
Visayas	2026	1	24	6	61	150	150	20
Visayas	2026	1	24	7	63	150	150	20
Visayas	2026	1	24	8	67	150	150	20
Visayas	2026	1	24	9	77	150	150	20
Visayas	2026	1	24	10	81	150	150	20
Visayas	2026	1	24	11	87	150	150	20
Visayas	2026	1	24	12	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	24	13	81	150	150	20
Visayas	2026	1	24	14	85	150	150	20
Visayas	2026	1	24	15	87	150	150	20
Visayas	2026	1	24	16	83	150	150	20
Visayas	2026	1	24	17	81	150	150	20
Visayas	2026	1	24	18	91	150	150	20
Visayas	2026	1	24	19	87	150	150	20
Visayas	2026	1	24	20	82	150	150	20
Visayas	2026	1	24	21	78	150	150	20
Visayas	2026	1	24	22	71	150	150	20
Visayas	2026	1	24	23	65	150	150	20
Visayas	2026	1	24	24	62	150	150	20
Visayas	2026	1	25	1	59	150	150	20
Visayas	2026	1	25	2	57	150	150	20
Visayas	2026	1	25	3	55	150	150	20
Visayas	2026	1	25	4	55	150	150	20
Visayas	2026	1	25	5	56	150	150	20
Visayas	2026	1	25	6	57	150	150	20
Visayas	2026	1	25	7	58	150	150	20
Visayas	2026	1	25	8	60	150	150	20
Visayas	2026	1	25	9	63	150	150	20
Visayas	2026	1	25	10	67	150	150	20
Visayas	2026	1	25	11	69	150	150	20
Visayas	2026	1	25	12	69	150	150	20
Visayas	2026	1	25	13	67	150	150	20
Visayas	2026	1	25	14	67	150	150	20
Visayas	2026	1	25	15	66	150	150	20
Visayas	2026	1	25	16	66	150	150	20
Visayas	2026	1	25	17	68	150	150	20
Visayas	2026	1	25	18	80	150	150	20
Visayas	2026	1	25	19	80	150	150	20
Visayas	2026	1	25	20	75	150	150	20
Visayas	2026	1	25	21	70	150	150	20
Visayas	2026	1	25	22	64	150	150	20
Visayas	2026	1	25	23	60	150	150	20
Visayas	2026	1	25	24	57	150	150	20
Visayas	2026	1	26	1	55	150	150	20
Visayas	2026	1	26	2	54	150	150	20
Visayas	2026	1	26	3	52	150	150	20
Visayas	2026	1	26	4	52	150	150	20
Visayas	2026	1	26	5	55	150	150	20
Visayas	2026	1	26	6	61	150	150	20
Visayas	2026	1	26	7	60	150	150	20
Visayas	2026	1	26	8	67	150	150	20
Visayas	2026	1	26	9	81	150	150	20
Visayas	2026	1	26	10	92	150	150	20
Visayas	2026	1	26	11	93	150	150	20
Visayas	2026	1	26	12	88	150	150	20
Visayas	2026	1	26	13	85	150	150	20
Visayas	2026	1	26	14	90	150	150	20
Visayas	2026	1	26	15	89	150	150	20
Visayas	2026	1	26	16	88	150	150	20
Visayas	2026	1	26	17	90	150	150	20
Visayas	2026	1	26	18	93	150	150	20
Visayas	2026	1	26	19	90	150	150	20
Visayas	2026	1	26	20	82	150	150	20
Visayas	2026	1	26	21	76	150	150	20
Visayas	2026	1	26	22	69	150	150	20
Visayas	2026	1	26	23	66	150	150	20
Visayas	2026	1	26	24	61	150	150	20
Visayas	2026	1	27	1	58	150	150	20
Visayas	2026	1	27	2	55	150	150	20
Visayas	2026	1	27	3	54	150	150	20
Visayas	2026	1	27	4	55	150	150	20
Visayas	2026	1	27	5	57	150	150	20
Visayas	2026	1	27	6	63	150	150	20
Visayas	2026	1	27	7	62	150	150	20
Visayas	2026	1	27	8	68	150	150	20
Visayas	2026	1	27	9	83	150	150	20
Visayas	2026	1	27	10	89	150	150	20
Visayas	2026	1	27	11	92	150	150	20
Visayas	2026	1	27	12	87	150	150	20
Visayas	2026	1	27	13	87	150	150	20
Visayas	2026	1	27	14	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	27	15	95	150	150	20
Visayas	2026	1	27	16	90	150	150	20
Visayas	2026	1	27	17	86	150	150	20
Visayas	2026	1	27	18	92	150	150	20
Visayas	2026	1	27	19	91	150	150	20
Visayas	2026	1	27	20	84	150	150	20
Visayas	2026	1	27	21	78	150	150	20
Visayas	2026	1	27	22	71	150	150	20
Visayas	2026	1	27	23	64	150	150	20
Visayas	2026	1	27	24	60	150	150	20
Visayas	2026	1	28	1	58	150	150	20
Visayas	2026	1	28	2	57	150	150	20
Visayas	2026	1	28	3	54	150	150	20
Visayas	2026	1	28	4	54	150	150	20
Visayas	2026	1	28	5	58	150	150	20
Visayas	2026	1	28	6	63	150	150	20
Visayas	2026	1	28	7	61	150	150	20
Visayas	2026	1	28	8	68	150	150	20
Visayas	2026	1	28	9	83	150	150	20
Visayas	2026	1	28	10	89	150	150	20
Visayas	2026	1	28	11	91	150	150	20
Visayas	2026	1	28	12	87	150	150	20
Visayas	2026	1	28	13	87	150	150	20
Visayas	2026	1	28	14	93	150	150	20
Visayas	2026	1	28	15	96	150	150	20
Visayas	2026	1	28	16	92	150	150	20
Visayas	2026	1	28	17	87	150	150	20
Visayas	2026	1	28	18	92	150	150	20
Visayas	2026	1	28	19	94	150	150	20
Visayas	2026	1	28	20	87	150	150	20
Visayas	2026	1	28	21	79	150	150	20
Visayas	2026	1	28	22	72	150	150	20
Visayas	2026	1	28	23	65	150	150	20
Visayas	2026	1	28	24	61	150	150	20
Visayas	2026	1	29	1	59	150	150	20
Visayas	2026	1	29	2	57	150	150	20
Visayas	2026	1	29	3	56	150	150	20
Visayas	2026	1	29	4	55	150	150	20
Visayas	2026	1	29	5	58	150	150	20
Visayas	2026	1	29	6	63	150	150	20
Visayas	2026	1	29	7	64	150	150	20
Visayas	2026	1	29	8	69	150	150	20
Visayas	2026	1	29	9	78	150	150	20
Visayas	2026	1	29	10	87	150	150	20
Visayas	2026	1	29	11	88	150	150	20
Visayas	2026	1	29	12	83	150	150	20
Visayas	2026	1	29	13	83	150	150	20
Visayas	2026	1	29	14	87	150	150	20
Visayas	2026	1	29	15	86	150	150	20
Visayas	2026	1	29	16	86	150	150	20
Visayas	2026	1	29	17	86	150	150	20
Visayas	2026	1	29	18	90	150	150	20
Visayas	2026	1	29	19	87	150	150	20
Visayas	2026	1	29	20	80	150	150	20
Visayas	2026	1	29	21	74	150	150	20
Visayas	2026	1	29	22	66	150	150	20
Visayas	2026	1	29	23	61	150	150	20
Visayas	2026	1	29	24	58	150	150	20
Visayas	2026	1	30	1	58	150	150	20
Visayas	2026	1	30	2	55	150	150	20
Visayas	2026	1	30	3	54	150	150	20
Visayas	2026	1	30	4	54	150	150	20
Visayas	2026	1	30	5	57	150	150	20
Visayas	2026	1	30	6	63	150	150	20
Visayas	2026	1	30	7	61	150	150	20
Visayas	2026	1	30	8	70	150	150	20
Visayas	2026	1	30	9	82	150	150	20
Visayas	2026	1	30	10	89	150	150	20
Visayas	2026	1	30	11	91	150	150	20
Visayas	2026	1	30	12	89	150	150	20
Visayas	2026	1	30	13	90	150	150	20
Visayas	2026	1	30	14	95	150	150	20
Visayas	2026	1	30	15	95	150	150	20
Visayas	2026	1	30	16	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	1	30	17	91	150	150	20
Visayas	2026	1	30	18	96	150	150	20
Visayas	2026	1	30	19	94	150	150	20
Visayas	2026	1	30	20	87	150	150	20
Visayas	2026	1	30	21	81	150	150	20
Visayas	2026	1	30	22	75	150	150	20
Visayas	2026	1	30	23	68	150	150	20
Visayas	2026	1	30	24	64	150	150	20
Visayas	2026	1	31	1	61	150	150	20
Visayas	2026	1	31	2	59	150	150	20
Visayas	2026	1	31	3	58	150	150	20
Visayas	2026	1	31	4	56	150	150	20
Visayas	2026	1	31	5	57	150	150	20
Visayas	2026	1	31	6	58	150	150	20
Visayas	2026	1	31	7	60	150	150	20
Visayas	2026	1	31	8	65	150	150	20
Visayas	2026	1	31	9	76	150	150	20
Visayas	2026	1	31	10	81	150	150	20
Visayas	2026	1	31	11	85	150	150	20
Visayas	2026	1	31	12	81	150	150	20
Visayas	2026	1	31	13	82	150	150	20
Visayas	2026	1	31	14	84	150	150	20
Visayas	2026	1	31	15	82	150	150	20
Visayas	2026	1	31	16	82	150	150	20
Visayas	2026	1	31	17	82	150	150	20
Visayas	2026	1	31	18	87	150	150	20
Visayas	2026	1	31	19	87	150	150	20
Visayas	2026	1	31	20	81	150	150	20
Visayas	2026	1	31	21	76	150	150	20
Visayas	2026	1	31	22	67	150	150	20
Visayas	2026	1	31	23	62	150	150	20
Visayas	2026	1	31	24	59	150	150	20
Visayas	2026	2	1	1	57	150	150	20
Visayas	2026	2	1	2	55	150	150	20
Visayas	2026	2	1	3	53	150	150	20
Visayas	2026	2	1	4	53	150	150	20
Visayas	2026	2	1	5	50	150	150	20
Visayas	2026	2	1	6	50	150	150	20
Visayas	2026	2	1	7	51	150	150	20
Visayas	2026	2	1	8	53	150	150	20
Visayas	2026	2	1	9	57	150	150	20
Visayas	2026	2	1	10	60	150	150	20
Visayas	2026	2	1	11	61	150	150	20
Visayas	2026	2	1	12	61	150	150	20
Visayas	2026	2	1	13	60	150	150	20
Visayas	2026	2	1	14	61	150	150	20
Visayas	2026	2	1	15	61	150	150	20
Visayas	2026	2	1	16	61	150	150	20
Visayas	2026	2	1	17	64	150	150	20
Visayas	2026	2	1	18	78	150	150	20
Visayas	2026	2	1	19	78	150	150	20
Visayas	2026	2	1	20	74	150	150	20
Visayas	2026	2	1	21	69	150	150	20
Visayas	2026	2	1	22	63	150	150	20
Visayas	2026	2	1	23	59	150	150	20
Visayas	2026	2	1	24	55	150	150	20
Visayas	2026	2	2	1	53	150	150	20
Visayas	2026	2	2	2	52	150	150	20
Visayas	2026	2	2	3	51	150	150	20
Visayas	2026	2	2	4	51	150	150	20
Visayas	2026	2	2	5	54	150	150	20
Visayas	2026	2	2	6	58	150	150	20
Visayas	2026	2	2	7	60	150	150	20
Visayas	2026	2	2	8	65	150	150	20
Visayas	2026	2	2	9	78	150	150	20
Visayas	2026	2	2	10	85	150	150	20
Visayas	2026	2	2	11	90	150	150	20
Visayas	2026	2	2	12	86	150	150	20
Visayas	2026	2	2	13	85	150	150	20
Visayas	2026	2	2	14	91	150	150	20
Visayas	2026	2	2	15	88	150	150	20
Visayas	2026	2	2	16	88	150	150	20
Visayas	2026	2	2	17	86	150	150	20
Visayas	2026	2	2	18	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	2	19	89	150	150	20
Visayas	2026	2	2	20	83	150	150	20
Visayas	2026	2	2	21	76	150	150	20
Visayas	2026	2	2	22	68	150	150	20
Visayas	2026	2	2	23	63	150	150	20
Visayas	2026	2	2	24	59	150	150	20
Visayas	2026	2	3	1	57	150	150	20
Visayas	2026	2	3	2	55	150	150	20
Visayas	2026	2	3	3	54	150	150	20
Visayas	2026	2	3	4	53	150	150	20
Visayas	2026	2	3	5	57	150	150	20
Visayas	2026	2	3	6	62	150	150	20
Visayas	2026	2	3	7	60	150	150	20
Visayas	2026	2	3	8	69	150	150	20
Visayas	2026	2	3	9	84	150	150	20
Visayas	2026	2	3	10	93	150	150	20
Visayas	2026	2	3	11	96	150	150	20
Visayas	2026	2	3	12	92	150	150	20
Visayas	2026	2	3	13	95	150	150	20
Visayas	2026	2	3	14	98	150	150	20
Visayas	2026	2	3	15	95	150	150	20
Visayas	2026	2	3	16	94	150	150	20
Visayas	2026	2	3	17	89	150	150	20
Visayas	2026	2	3	18	94	150	150	20
Visayas	2026	2	3	19	94	150	150	20
Visayas	2026	2	3	20	86	150	150	20
Visayas	2026	2	3	21	80	150	150	20
Visayas	2026	2	3	22	72	150	150	20
Visayas	2026	2	3	23	65	150	150	20
Visayas	2026	2	3	24	62	150	150	20
Visayas	2026	2	4	1	59	150	150	20
Visayas	2026	2	4	2	57	150	150	20
Visayas	2026	2	4	3	55	150	150	20
Visayas	2026	2	4	4	55	150	150	20
Visayas	2026	2	4	5	57	150	150	20
Visayas	2026	2	4	6	62	150	150	20
Visayas	2026	2	4	7	62	150	150	20
Visayas	2026	2	4	8	67	150	150	20
Visayas	2026	2	4	9	82	150	150	20
Visayas	2026	2	4	10	87	150	150	20
Visayas	2026	2	4	11	91	150	150	20
Visayas	2026	2	4	12	89	150	150	20
Visayas	2026	2	4	13	90	150	150	20
Visayas	2026	2	4	14	97	150	150	20
Visayas	2026	2	4	15	96	150	150	20
Visayas	2026	2	4	16	95	150	150	20
Visayas	2026	2	4	17	90	150	150	20
Visayas	2026	2	4	18	93	150	150	20
Visayas	2026	2	4	19	95	150	150	20
Visayas	2026	2	4	20	90	150	150	20
Visayas	2026	2	4	21	83	150	150	20
Visayas	2026	2	4	22	76	150	150	20
Visayas	2026	2	4	23	68	150	150	20
Visayas	2026	2	4	24	64	150	150	20
Visayas	2026	2	5	1	61	150	150	20
Visayas	2026	2	5	2	58	150	150	20
Visayas	2026	2	5	3	57	150	150	20
Visayas	2026	2	5	4	56	150	150	20
Visayas	2026	2	5	5	59	150	150	20
Visayas	2026	2	5	6	64	150	150	20
Visayas	2026	2	5	7	62	150	150	20
Visayas	2026	2	5	8	72	150	150	20
Visayas	2026	2	5	9	88	150	150	20
Visayas	2026	2	5	10	96	150	150	20
Visayas	2026	2	5	11	100	150	150	20
Visayas	2026	2	5	12	94	150	150	20
Visayas	2026	2	5	13	96	150	150	20
Visayas	2026	2	5	14	101	150	150	20
Visayas	2026	2	5	15	102	150	150	20
Visayas	2026	2	5	16	99	150	150	20
Visayas	2026	2	5	17	93	150	150	20
Visayas	2026	2	5	18	95	150	150	20
Visayas	2026	2	5	19	97	150	150	20
Visayas	2026	2	5	20	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	5	21	85	150	150	20
Visayas	2026	2	5	22	78	150	150	20
Visayas	2026	2	5	23	74	150	150	20
Visayas	2026	2	5	24	67	150	150	20
Visayas	2026	2	6	1	62	150	150	20
Visayas	2026	2	6	2	60	150	150	20
Visayas	2026	2	6	3	59	150	150	20
Visayas	2026	2	6	4	58	150	150	20
Visayas	2026	2	6	5	59	150	150	20
Visayas	2026	2	6	6	65	150	150	20
Visayas	2026	2	6	7	64	150	150	20
Visayas	2026	2	6	8	71	150	150	20
Visayas	2026	2	6	9	87	150	150	20
Visayas	2026	2	6	10	95	150	150	20
Visayas	2026	2	6	11	98	150	150	20
Visayas	2026	2	6	12	93	150	150	20
Visayas	2026	2	6	13	96	150	150	20
Visayas	2026	2	6	14	101	150	150	20
Visayas	2026	2	6	15	100	150	150	20
Visayas	2026	2	6	16	99	150	150	20
Visayas	2026	2	6	17	91	150	150	20
Visayas	2026	2	6	18	95	150	150	20
Visayas	2026	2	6	19	94	150	150	20
Visayas	2026	2	6	20	89	150	150	20
Visayas	2026	2	6	21	85	150	150	20
Visayas	2026	2	6	22	78	150	150	20
Visayas	2026	2	6	23	71	150	150	20
Visayas	2026	2	6	24	65	150	150	20
Visayas	2026	2	7	1	62	150	150	20
Visayas	2026	2	7	2	60	150	150	20
Visayas	2026	2	7	3	58	150	150	20
Visayas	2026	2	7	4	57	150	150	20
Visayas	2026	2	7	5	57	150	150	20
Visayas	2026	2	7	6	58	150	150	20
Visayas	2026	2	7	7	59	150	150	20
Visayas	2026	2	7	8	64	150	150	20
Visayas	2026	2	7	9	73	150	150	20
Visayas	2026	2	7	10	80	150	150	20
Visayas	2026	2	7	11	84	150	150	20
Visayas	2026	2	7	12	81	150	150	20
Visayas	2026	2	7	13	81	150	150	20
Visayas	2026	2	7	14	82	150	150	20
Visayas	2026	2	7	15	81	150	150	20
Visayas	2026	2	7	16	80	150	150	20
Visayas	2026	2	7	17	78	150	150	20
Visayas	2026	2	7	18	85	150	150	20
Visayas	2026	2	7	19	88	150	150	20
Visayas	2026	2	7	20	81	150	150	20
Visayas	2026	2	7	21	77	150	150	20
Visayas	2026	2	7	22	69	150	150	20
Visayas	2026	2	7	23	64	150	150	20
Visayas	2026	2	7	24	60	150	150	20
Visayas	2026	2	8	1	57	150	150	20
Visayas	2026	2	8	2	56	150	150	20
Visayas	2026	2	8	3	54	150	150	20
Visayas	2026	2	8	4	54	150	150	20
Visayas	2026	2	8	5	54	150	150	20
Visayas	2026	2	8	6	55	150	150	20
Visayas	2026	2	8	7	56	150	150	20
Visayas	2026	2	8	8	59	150	150	20
Visayas	2026	2	8	9	64	150	150	20
Visayas	2026	2	8	10	68	150	150	20
Visayas	2026	2	8	11	73	150	150	20
Visayas	2026	2	8	12	73	150	150	20
Visayas	2026	2	8	13	72	150	150	20
Visayas	2026	2	8	14	75	150	150	20
Visayas	2026	2	8	15	72	150	150	20
Visayas	2026	2	8	16	71	150	150	20
Visayas	2026	2	8	17	72	150	150	20
Visayas	2026	2	8	18	84	150	150	20
Visayas	2026	2	8	19	87	150	150	20
Visayas	2026	2	8	20	81	150	150	20
Visayas	2026	2	8	21	76	150	150	20
Visayas	2026	2	8	22	69	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	8	23	64	150	150	20
Visayas	2026	2	8	24	59	150	150	20
Visayas	2026	2	9	1	56	150	150	20
Visayas	2026	2	9	2	55	150	150	20
Visayas	2026	2	9	3	53	150	150	20
Visayas	2026	2	9	4	53	150	150	20
Visayas	2026	2	9	5	55	150	150	20
Visayas	2026	2	9	6	59	150	150	20
Visayas	2026	2	9	7	61	150	150	20
Visayas	2026	2	9	8	69	150	150	20
Visayas	2026	2	9	9	85	150	150	20
Visayas	2026	2	9	10	94	150	150	20
Visayas	2026	2	9	11	101	150	150	20
Visayas	2026	2	9	12	94	150	150	20
Visayas	2026	2	9	13	95	150	150	20
Visayas	2026	2	9	14	104	150	150	20
Visayas	2026	2	9	15	103	150	150	20
Visayas	2026	2	9	16	102	150	150	20
Visayas	2026	2	9	17	93	150	150	20
Visayas	2026	2	9	18	95	150	150	20
Visayas	2026	2	9	19	97	150	150	20
Visayas	2026	2	9	20	90	150	150	20
Visayas	2026	2	9	21	85	150	150	20
Visayas	2026	2	9	22	78	150	150	20
Visayas	2026	2	9	23	71	150	150	20
Visayas	2026	2	9	24	66	150	150	20
Visayas	2026	2	10	1	64	150	150	20
Visayas	2026	2	10	2	61	150	150	20
Visayas	2026	2	10	3	59	150	150	20
Visayas	2026	2	10	4	58	150	150	20
Visayas	2026	2	10	5	60	150	150	20
Visayas	2026	2	10	6	64	150	150	20
Visayas	2026	2	10	7	65	150	150	20
Visayas	2026	2	10	8	74	150	150	20
Visayas	2026	2	10	9	90	150	150	20
Visayas	2026	2	10	10	95	150	150	20
Visayas	2026	2	10	11	102	150	150	20
Visayas	2026	2	10	12	97	150	150	20
Visayas	2026	2	10	13	97	150	150	20
Visayas	2026	2	10	14	105	150	150	20
Visayas	2026	2	10	15	102	150	150	20
Visayas	2026	2	10	16	100	150	150	20
Visayas	2026	2	10	17	95	150	150	20
Visayas	2026	2	10	18	97	150	150	20
Visayas	2026	2	10	19	99	150	150	20
Visayas	2026	2	10	20	92	150	150	20
Visayas	2026	2	10	21	86	150	150	20
Visayas	2026	2	10	22	79	150	150	20
Visayas	2026	2	10	23	72	150	150	20
Visayas	2026	2	10	24	66	150	150	20
Visayas	2026	2	11	1	63	150	150	20
Visayas	2026	2	11	2	60	150	150	20
Visayas	2026	2	11	3	58	150	150	20
Visayas	2026	2	11	4	57	150	150	20
Visayas	2026	2	11	5	59	150	150	20
Visayas	2026	2	11	6	63	150	150	20
Visayas	2026	2	11	7	65	150	150	20
Visayas	2026	2	11	8	66	150	150	20
Visayas	2026	2	11	9	86	150	150	20
Visayas	2026	2	11	10	93	150	150	20
Visayas	2026	2	11	11	98	150	150	20
Visayas	2026	2	11	12	95	150	150	20
Visayas	2026	2	11	13	98	150	150	20
Visayas	2026	2	11	14	104	150	150	20
Visayas	2026	2	11	15	103	150	150	20
Visayas	2026	2	11	16	101	150	150	20
Visayas	2026	2	11	17	94	150	150	20
Visayas	2026	2	11	18	97	150	150	20
Visayas	2026	2	11	19	99	150	150	20
Visayas	2026	2	11	20	92	150	150	20
Visayas	2026	2	11	21	87	150	150	20
Visayas	2026	2	11	22	79	150	150	20
Visayas	2026	2	11	23	73	150	150	20
Visayas	2026	2	11	24	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	12	1	64	150	150	20
Visayas	2026	2	12	2	61	150	150	20
Visayas	2026	2	12	3	59	150	150	20
Visayas	2026	2	12	4	58	150	150	20
Visayas	2026	2	12	5	60	150	150	20
Visayas	2026	2	12	6	64	150	150	20
Visayas	2026	2	12	7	65	150	150	20
Visayas	2026	2	12	8	74	150	150	20
Visayas	2026	2	12	9	88	150	150	20
Visayas	2026	2	12	10	96	150	150	20
Visayas	2026	2	12	11	98	150	150	20
Visayas	2026	2	12	12	95	150	150	20
Visayas	2026	2	12	13	94	150	150	20
Visayas	2026	2	12	14	101	150	150	20
Visayas	2026	2	12	15	100	150	150	20
Visayas	2026	2	12	16	98	150	150	20
Visayas	2026	2	12	17	94	150	150	20
Visayas	2026	2	12	18	96	150	150	20
Visayas	2026	2	12	19	96	150	150	20
Visayas	2026	2	12	20	89	150	150	20
Visayas	2026	2	12	21	83	150	150	20
Visayas	2026	2	12	22	76	150	150	20
Visayas	2026	2	12	23	69	150	150	20
Visayas	2026	2	12	24	65	150	150	20
Visayas	2026	2	13	1	62	150	150	20
Visayas	2026	2	13	2	60	150	150	20
Visayas	2026	2	13	3	59	150	150	20
Visayas	2026	2	13	4	58	150	150	20
Visayas	2026	2	13	5	59	150	150	20
Visayas	2026	2	13	6	62	150	150	20
Visayas	2026	2	13	7	66	150	150	20
Visayas	2026	2	13	8	75	150	150	20
Visayas	2026	2	13	9	90	150	150	20
Visayas	2026	2	13	10	96	150	150	20
Visayas	2026	2	13	11	99	150	150	20
Visayas	2026	2	13	12	97	150	150	20
Visayas	2026	2	13	13	96	150	150	20
Visayas	2026	2	13	14	104	150	150	20
Visayas	2026	2	13	15	103	150	150	20
Visayas	2026	2	13	16	99	150	150	20
Visayas	2026	2	13	17	92	150	150	20
Visayas	2026	2	13	18	94	150	150	20
Visayas	2026	2	13	19	99	150	150	20
Visayas	2026	2	13	20	92	150	150	20
Visayas	2026	2	13	21	86	150	150	20
Visayas	2026	2	13	22	79	150	150	20
Visayas	2026	2	13	23	73	150	150	20
Visayas	2026	2	13	24	68	150	150	20
Visayas	2026	2	14	1	63	150	150	20
Visayas	2026	2	14	2	60	150	150	20
Visayas	2026	2	14	3	58	150	150	20
Visayas	2026	2	14	4	58	150	150	20
Visayas	2026	2	14	5	59	150	150	20
Visayas	2026	2	14	6	62	150	150	20
Visayas	2026	2	14	7	63	150	150	20
Visayas	2026	2	14	8	69	150	150	20
Visayas	2026	2	14	9	80	150	150	20
Visayas	2026	2	14	10	84	150	150	20
Visayas	2026	2	14	11	88	150	150	20
Visayas	2026	2	14	12	86	150	150	20
Visayas	2026	2	14	13	88	150	150	20
Visayas	2026	2	14	14	91	150	150	20
Visayas	2026	2	14	15	90	150	150	20
Visayas	2026	2	14	16	90	150	150	20
Visayas	2026	2	14	17	86	150	150	20
Visayas	2026	2	14	18	91	150	150	20
Visayas	2026	2	14	19	95	150	150	20
Visayas	2026	2	14	20	91	150	150	20
Visayas	2026	2	14	21	86	150	150	20
Visayas	2026	2	14	22	80	150	150	20
Visayas	2026	2	14	23	74	150	150	20
Visayas	2026	2	14	24	69	150	150	20
Visayas	2026	2	15	1	65	150	150	20
Visayas	2026	2	15	2	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	15	3	60	150	150	20
Visayas	2026	2	15	4	59	150	150	20
Visayas	2026	2	15	5	59	150	150	20
Visayas	2026	2	15	6	59	150	150	20
Visayas	2026	2	15	7	56	150	150	20
Visayas	2026	2	15	8	59	150	150	20
Visayas	2026	2	15	9	64	150	150	20
Visayas	2026	2	15	10	67	150	150	20
Visayas	2026	2	15	11	72	150	150	20
Visayas	2026	2	15	12	71	150	150	20
Visayas	2026	2	15	13	71	150	150	20
Visayas	2026	2	15	14	72	150	150	20
Visayas	2026	2	15	15	73	150	150	20
Visayas	2026	2	15	16	71	150	150	20
Visayas	2026	2	15	17	72	150	150	20
Visayas	2026	2	15	18	83	150	150	20
Visayas	2026	2	15	19	92	150	150	20
Visayas	2026	2	15	20	89	150	150	20
Visayas	2026	2	15	21	83	150	150	20
Visayas	2026	2	15	22	77	150	150	20
Visayas	2026	2	15	23	70	150	150	20
Visayas	2026	2	15	24	65	150	150	20
Visayas	2026	2	16	1	62	150	150	20
Visayas	2026	2	16	2	59	150	150	20
Visayas	2026	2	16	3	57	150	150	20
Visayas	2026	2	16	4	57	150	150	20
Visayas	2026	2	16	5	60	150	150	20
Visayas	2026	2	16	6	67	150	150	20
Visayas	2026	2	16	7	63	150	150	20
Visayas	2026	2	16	8	72	150	150	20
Visayas	2026	2	16	9	86	150	150	20
Visayas	2026	2	16	10	96	150	150	20
Visayas	2026	2	16	11	100	150	150	20
Visayas	2026	2	16	12	94	150	150	20
Visayas	2026	2	16	13	94	150	150	20
Visayas	2026	2	16	14	98	150	150	20
Visayas	2026	2	16	15	97	150	150	20
Visayas	2026	2	16	16	95	150	150	20
Visayas	2026	2	16	17	94	150	150	20
Visayas	2026	2	16	18	97	150	150	20
Visayas	2026	2	16	19	94	150	150	20
Visayas	2026	2	16	20	88	150	150	20
Visayas	2026	2	16	21	83	150	150	20
Visayas	2026	2	16	22	75	150	150	20
Visayas	2026	2	16	23	70	150	150	20
Visayas	2026	2	16	24	65	150	150	20
Visayas	2026	2	17	1	63	150	150	20
Visayas	2026	2	17	2	60	150	150	20
Visayas	2026	2	17	3	59	150	150	20
Visayas	2026	2	17	4	59	150	150	20
Visayas	2026	2	17	5	62	150	150	20
Visayas	2026	2	17	6	68	150	150	20
Visayas	2026	2	17	7	67	150	150	20
Visayas	2026	2	17	8	74	150	150	20
Visayas	2026	2	17	9	86	150	150	20
Visayas	2026	2	17	10	92	150	150	20
Visayas	2026	2	17	11	96	150	150	20
Visayas	2026	2	17	12	90	150	150	20
Visayas	2026	2	17	13	88	150	150	20
Visayas	2026	2	17	14	92	150	150	20
Visayas	2026	2	17	15	89	150	150	20
Visayas	2026	2	17	16	89	150	150	20
Visayas	2026	2	17	17	88	150	150	20
Visayas	2026	2	17	18	91	150	150	20
Visayas	2026	2	17	19	89	150	150	20
Visayas	2026	2	17	20	83	150	150	20
Visayas	2026	2	17	21	78	150	150	20
Visayas	2026	2	17	22	69	150	150	20
Visayas	2026	2	17	23	63	150	150	20
Visayas	2026	2	17	24	60	150	150	20
Visayas	2026	2	18	1	58	150	150	20
Visayas	2026	2	18	2	56	150	150	20
Visayas	2026	2	18	3	54	150	150	20
Visayas	2026	2	18	4	54	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	18	5	57	150	150	20
Visayas	2026	2	18	6	64	150	150	20
Visayas	2026	2	18	7	61	150	150	20
Visayas	2026	2	18	8	68	150	150	20
Visayas	2026	2	18	9	83	150	150	20
Visayas	2026	2	18	10	89	150	150	20
Visayas	2026	2	18	11	91	150	150	20
Visayas	2026	2	18	12	85	150	150	20
Visayas	2026	2	18	13	85	150	150	20
Visayas	2026	2	18	14	91	150	150	20
Visayas	2026	2	18	15	89	150	150	20
Visayas	2026	2	18	16	88	150	150	20
Visayas	2026	2	18	17	83	150	150	20
Visayas	2026	2	18	18	88	150	150	20
Visayas	2026	2	18	19	90	150	150	20
Visayas	2026	2	18	20	83	150	150	20
Visayas	2026	2	18	21	76	150	150	20
Visayas	2026	2	18	22	70	150	150	20
Visayas	2026	2	18	23	63	150	150	20
Visayas	2026	2	18	24	59	150	150	20
Visayas	2026	2	19	1	60	150	150	20
Visayas	2026	2	19	2	56	150	150	20
Visayas	2026	2	19	3	54	150	150	20
Visayas	2026	2	19	4	54	150	150	20
Visayas	2026	2	19	5	58	150	150	20
Visayas	2026	2	19	6	63	150	150	20
Visayas	2026	2	19	7	61	150	150	20
Visayas	2026	2	19	8	68	150	150	20
Visayas	2026	2	19	9	85	150	150	20
Visayas	2026	2	19	10	89	150	150	20
Visayas	2026	2	19	11	89	150	150	20
Visayas	2026	2	19	12	83	150	150	20
Visayas	2026	2	19	13	82	150	150	20
Visayas	2026	2	19	14	86	150	150	20
Visayas	2026	2	19	15	86	150	150	20
Visayas	2026	2	19	16	84	150	150	20
Visayas	2026	2	19	17	83	150	150	20
Visayas	2026	2	19	18	87	150	150	20
Visayas	2026	2	19	19	89	150	150	20
Visayas	2026	2	19	20	80	150	150	20
Visayas	2026	2	19	21	74	150	150	20
Visayas	2026	2	19	22	65	150	150	20
Visayas	2026	2	19	23	59	150	150	20
Visayas	2026	2	19	24	57	150	150	20
Visayas	2026	2	20	1	55	150	150	20
Visayas	2026	2	20	2	53	150	150	20
Visayas	2026	2	20	3	52	150	150	20
Visayas	2026	2	20	4	51	150	150	20
Visayas	2026	2	20	5	55	150	150	20
Visayas	2026	2	20	6	59	150	150	20
Visayas	2026	2	20	7	59	150	150	20
Visayas	2026	2	20	8	64	150	150	20
Visayas	2026	2	20	9	77	150	150	20
Visayas	2026	2	20	10	85	150	150	20
Visayas	2026	2	20	11	87	150	150	20
Visayas	2026	2	20	12	83	150	150	20
Visayas	2026	2	20	13	83	150	150	20
Visayas	2026	2	20	14	88	150	150	20
Visayas	2026	2	20	15	87	150	150	20
Visayas	2026	2	20	16	86	150	150	20
Visayas	2026	2	20	17	83	150	150	20
Visayas	2026	2	20	18	88	150	150	20
Visayas	2026	2	20	19	88	150	150	20
Visayas	2026	2	20	20	82	150	150	20
Visayas	2026	2	20	21	78	150	150	20
Visayas	2026	2	20	22	70	150	150	20
Visayas	2026	2	20	23	63	150	150	20
Visayas	2026	2	20	24	60	150	150	20
Visayas	2026	2	21	1	57	150	150	20
Visayas	2026	2	21	2	56	150	150	20
Visayas	2026	2	21	3	55	150	150	20
Visayas	2026	2	21	4	54	150	150	20
Visayas	2026	2	21	5	56	150	150	20
Visayas	2026	2	21	6	58	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	21	7	56	150	150	20
Visayas	2026	2	21	8	60	150	150	20
Visayas	2026	2	21	9	67	150	150	20
Visayas	2026	2	21	10	70	150	150	20
Visayas	2026	2	21	11	72	150	150	20
Visayas	2026	2	21	12	68	150	150	20
Visayas	2026	2	21	13	66	150	150	20
Visayas	2026	2	21	14	67	150	150	20
Visayas	2026	2	21	15	69	150	150	20
Visayas	2026	2	21	16	68	150	150	20
Visayas	2026	2	21	17	73	150	150	20
Visayas	2026	2	21	18	81	150	150	20
Visayas	2026	2	21	19	79	150	150	20
Visayas	2026	2	21	20	76	150	150	20
Visayas	2026	2	21	21	68	150	150	20
Visayas	2026	2	21	22	62	150	150	20
Visayas	2026	2	21	23	57	150	150	20
Visayas	2026	2	21	24	55	150	150	20
Visayas	2026	2	22	1	53	150	150	20
Visayas	2026	2	22	2	52	150	150	20
Visayas	2026	2	22	3	51	150	150	20
Visayas	2026	2	22	4	52	150	150	20
Visayas	2026	2	22	5	50	150	150	20
Visayas	2026	2	22	6	51	150	150	20
Visayas	2026	2	22	7	53	150	150	20
Visayas	2026	2	22	8	56	150	150	20
Visayas	2026	2	22	9	61	150	150	20
Visayas	2026	2	22	10	64	150	150	20
Visayas	2026	2	22	11	66	150	150	20
Visayas	2026	2	22	12	66	150	150	20
Visayas	2026	2	22	13	66	150	150	20
Visayas	2026	2	22	14	66	150	150	20
Visayas	2026	2	22	15	65	150	150	20
Visayas	2026	2	22	16	65	150	150	20
Visayas	2026	2	22	17	68	150	150	20
Visayas	2026	2	22	18	80	150	150	20
Visayas	2026	2	22	19	84	150	150	20
Visayas	2026	2	22	20	80	150	150	20
Visayas	2026	2	22	21	75	150	150	20
Visayas	2026	2	22	22	68	150	150	20
Visayas	2026	2	22	23	62	150	150	20
Visayas	2026	2	22	24	57	150	150	20
Visayas	2026	2	23	1	55	150	150	20
Visayas	2026	2	23	2	54	150	150	20
Visayas	2026	2	23	3	53	150	150	20
Visayas	2026	2	23	4	52	150	150	20
Visayas	2026	2	23	5	56	150	150	20
Visayas	2026	2	23	6	64	150	150	20
Visayas	2026	2	23	7	59	150	150	20
Visayas	2026	2	23	8	68	150	150	20
Visayas	2026	2	23	9	86	150	150	20
Visayas	2026	2	23	10	95	150	150	20
Visayas	2026	2	23	11	99	150	150	20
Visayas	2026	2	23	12	66	150	150	20
Visayas	2026	2	23	13	73	150	150	20
Visayas	2026	2	23	14	84	150	150	20
Visayas	2026	2	23	15	88	150	150	20
Visayas	2026	2	23	16	89	150	150	20
Visayas	2026	2	23	17	85	150	150	20
Visayas	2026	2	23	18	86	150	150	20
Visayas	2026	2	23	19	86	150	150	20
Visayas	2026	2	23	20	85	150	150	20
Visayas	2026	2	23	21	82	150	150	20
Visayas	2026	2	23	22	79	150	150	20
Visayas	2026	2	23	23	74	150	150	20
Visayas	2026	2	23	24	67	150	150	20
Visayas	2026	2	24	1	64	150	150	20
Visayas	2026	2	24	2	61	150	150	20
Visayas	2026	2	24	3	59	150	150	20
Visayas	2026	2	24	4	58	150	150	20
Visayas	2026	2	24	5	63	150	150	20
Visayas	2026	2	24	6	69	150	150	20
Visayas	2026	2	24	7	64	150	150	20
Visayas	2026	2	24	8	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	24	9	90	150	150	20
Visayas	2026	2	24	10	96	150	150	20
Visayas	2026	2	24	11	99	150	150	20
Visayas	2026	2	24	12	96	150	150	20
Visayas	2026	2	24	13	94	150	150	20
Visayas	2026	2	24	14	100	150	150	20
Visayas	2026	2	24	15	99	150	150	20
Visayas	2026	2	24	16	98	150	150	20
Visayas	2026	2	24	17	91	150	150	20
Visayas	2026	2	24	18	94	150	150	20
Visayas	2026	2	24	19	95	150	150	20
Visayas	2026	2	24	20	88	150	150	20
Visayas	2026	2	24	21	85	150	150	20
Visayas	2026	2	24	22	76	150	150	20
Visayas	2026	2	24	23	69	150	150	20
Visayas	2026	2	24	24	65	150	150	20
Visayas	2026	2	25	1	65	150	150	20
Visayas	2026	2	25	2	62	150	150	20
Visayas	2026	2	25	3	61	150	150	20
Visayas	2026	2	25	4	58	150	150	20
Visayas	2026	2	25	5	60	150	150	20
Visayas	2026	2	25	6	63	150	150	20
Visayas	2026	2	25	7	64	150	150	20
Visayas	2026	2	25	8	70	150	150	20
Visayas	2026	2	25	9	85	150	150	20
Visayas	2026	2	25	10	91	150	150	20
Visayas	2026	2	25	11	97	150	150	20
Visayas	2026	2	25	12	96	150	150	20
Visayas	2026	2	25	13	96	150	150	20
Visayas	2026	2	25	14	102	150	150	20
Visayas	2026	2	25	15	102	150	150	20
Visayas	2026	2	25	16	98	150	150	20
Visayas	2026	2	25	17	91	150	150	20
Visayas	2026	2	25	18	97	150	150	20
Visayas	2026	2	25	19	101	150	150	20
Visayas	2026	2	25	20	96	150	150	20
Visayas	2026	2	25	21	93	150	150	20
Visayas	2026	2	25	22	83	150	150	20
Visayas	2026	2	25	23	77	150	150	20
Visayas	2026	2	25	24	71	150	150	20
Visayas	2026	2	26	1	60	150	150	20
Visayas	2026	2	26	2	58	150	150	20
Visayas	2026	2	26	3	58	150	150	20
Visayas	2026	2	26	4	57	150	150	20
Visayas	2026	2	26	5	61	150	150	20
Visayas	2026	2	26	6	68	150	150	20
Visayas	2026	2	26	7	64	150	150	20
Visayas	2026	2	26	8	73	150	150	20
Visayas	2026	2	26	9	91	150	150	20
Visayas	2026	2	26	10	95	150	150	20
Visayas	2026	2	26	11	95	150	150	20
Visayas	2026	2	26	12	95	150	150	20
Visayas	2026	2	26	13	97	150	150	20
Visayas	2026	2	26	14	104	150	150	20
Visayas	2026	2	26	15	105	150	150	20
Visayas	2026	2	26	16	102	150	150	20
Visayas	2026	2	26	17	95	150	150	20
Visayas	2026	2	26	18	96	150	150	20
Visayas	2026	2	26	19	101	150	150	20
Visayas	2026	2	26	20	95	150	150	20
Visayas	2026	2	26	21	90	150	150	20
Visayas	2026	2	26	22	81	150	150	20
Visayas	2026	2	26	23	74	150	150	20
Visayas	2026	2	26	24	68	150	150	20
Visayas	2026	2	27	1	55	150	150	20
Visayas	2026	2	27	2	53	150	150	20
Visayas	2026	2	27	3	52	150	150	20
Visayas	2026	2	27	4	52	150	150	20
Visayas	2026	2	27	5	55	150	150	20
Visayas	2026	2	27	6	61	150	150	20
Visayas	2026	2	27	7	58	150	150	20
Visayas	2026	2	27	8	67	150	150	20
Visayas	2026	2	27	9	80	150	150	20
Visayas	2026	2	27	10	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	2	27	11	90	150	150	20
Visayas	2026	2	27	12	85	150	150	20
Visayas	2026	2	27	13	84	150	150	20
Visayas	2026	2	27	14	92	150	150	20
Visayas	2026	2	27	15	91	150	150	20
Visayas	2026	2	27	16	89	150	150	20
Visayas	2026	2	27	17	84	150	150	20
Visayas	2026	2	27	18	88	150	150	20
Visayas	2026	2	27	19	91	150	150	20
Visayas	2026	2	27	20	82	150	150	20
Visayas	2026	2	27	21	76	150	150	20
Visayas	2026	2	27	22	69	150	150	20
Visayas	2026	2	27	23	62	150	150	20
Visayas	2026	2	27	24	59	150	150	20
Visayas	2026	2	28	1	68	150	150	20
Visayas	2026	2	28	2	65	150	150	20
Visayas	2026	2	28	3	62	150	150	20
Visayas	2026	2	28	4	60	150	150	20
Visayas	2026	2	28	5	60	150	150	20
Visayas	2026	2	28	6	63	150	150	20
Visayas	2026	2	28	7	63	150	150	20
Visayas	2026	2	28	8	65	150	150	20
Visayas	2026	2	28	9	75	150	150	20
Visayas	2026	2	28	10	82	150	150	20
Visayas	2026	2	28	11	85	150	150	20
Visayas	2026	2	28	12	83	150	150	20
Visayas	2026	2	28	13	85	150	150	20
Visayas	2026	2	28	14	89	150	150	20
Visayas	2026	2	28	15	88	150	150	20
Visayas	2026	2	28	16	87	150	150	20
Visayas	2026	2	28	17	83	150	150	20
Visayas	2026	2	28	18	91	150	150	20
Visayas	2026	2	28	19	96	150	150	20
Visayas	2026	2	28	20	91	150	150	20
Visayas	2026	2	28	21	88	150	150	20
Visayas	2026	2	28	22	83	150	150	20
Visayas	2026	2	28	23	75	150	150	20
Visayas	2026	2	28	24	70	150	150	20
Visayas	2026	3	1	1	67	150	150	20
Visayas	2026	3	1	2	64	150	150	20
Visayas	2026	3	1	3	62	150	150	20
Visayas	2026	3	1	4	60	150	150	20
Visayas	2026	3	1	5	59	150	150	20
Visayas	2026	3	1	6	61	150	150	20
Visayas	2026	3	1	7	60	150	150	20
Visayas	2026	3	1	8	63	150	150	20
Visayas	2026	3	1	9	67	150	150	20
Visayas	2026	3	1	10	74	150	150	20
Visayas	2026	3	1	11	76	150	150	20
Visayas	2026	3	1	12	78	150	150	20
Visayas	2026	3	1	13	77	150	150	20
Visayas	2026	3	1	14	78	150	150	20
Visayas	2026	3	1	15	78	150	150	20
Visayas	2026	3	1	16	77	150	150	20
Visayas	2026	3	1	17	76	150	150	20
Visayas	2026	3	1	18	84	150	150	20
Visayas	2026	3	1	19	93	150	150	20
Visayas	2026	3	1	20	86	150	150	20
Visayas	2026	3	1	21	84	150	150	20
Visayas	2026	3	1	22	81	150	150	20
Visayas	2026	3	1	23	72	150	150	20
Visayas	2026	3	1	24	66	150	150	20
Visayas	2026	3	2	1	62	150	150	20
Visayas	2026	3	2	2	60	150	150	20
Visayas	2026	3	2	3	58	150	150	20
Visayas	2026	3	2	4	57	150	150	20
Visayas	2026	3	2	5	61	150	150	20
Visayas	2026	3	2	6	66	150	150	20
Visayas	2026	3	2	7	63	150	150	20
Visayas	2026	3	2	8	70	150	150	20
Visayas	2026	3	2	9	87	150	150	20
Visayas	2026	3	2	10	93	150	150	20
Visayas	2026	3	2	11	97	150	150	20
Visayas	2026	3	2	12	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	2	13	93	150	150	20
Visayas	2026	3	2	14	97	150	150	20
Visayas	2026	3	2	15	93	150	150	20
Visayas	2026	3	2	16	92	150	150	20
Visayas	2026	3	2	17	89	150	150	20
Visayas	2026	3	2	18	93	150	150	20
Visayas	2026	3	2	19	91	150	150	20
Visayas	2026	3	2	20	84	150	150	20
Visayas	2026	3	2	21	77	150	150	20
Visayas	2026	3	2	22	69	150	150	20
Visayas	2026	3	2	23	64	150	150	20
Visayas	2026	3	2	24	60	150	150	20
Visayas	2026	3	3	1	58	150	150	20
Visayas	2026	3	3	2	56	150	150	20
Visayas	2026	3	3	3	55	150	150	20
Visayas	2026	3	3	4	55	150	150	20
Visayas	2026	3	3	5	58	150	150	20
Visayas	2026	3	3	6	63	150	150	20
Visayas	2026	3	3	7	61	150	150	20
Visayas	2026	3	3	8	69	150	150	20
Visayas	2026	3	3	9	84	150	150	20
Visayas	2026	3	3	10	90	150	150	20
Visayas	2026	3	3	11	95	150	150	20
Visayas	2026	3	3	12	90	150	150	20
Visayas	2026	3	3	13	92	150	150	20
Visayas	2026	3	3	14	97	150	150	20
Visayas	2026	3	3	15	97	150	150	20
Visayas	2026	3	3	16	96	150	150	20
Visayas	2026	3	3	17	91	150	150	20
Visayas	2026	3	3	18	93	150	150	20
Visayas	2026	3	3	19	96	150	150	20
Visayas	2026	3	3	20	88	150	150	20
Visayas	2026	3	3	21	81	150	150	20
Visayas	2026	3	3	22	73	150	150	20
Visayas	2026	3	3	23	68	150	150	20
Visayas	2026	3	3	24	63	150	150	20
Visayas	2026	3	4	1	61	150	150	20
Visayas	2026	3	4	2	59	150	150	20
Visayas	2026	3	4	3	57	150	150	20
Visayas	2026	3	4	4	56	150	150	20
Visayas	2026	3	4	5	59	150	150	20
Visayas	2026	3	4	6	68	150	150	20
Visayas	2026	3	4	7	62	150	150	20
Visayas	2026	3	4	8	73	150	150	20
Visayas	2026	3	4	9	88	150	150	20
Visayas	2026	3	4	10	97	150	150	20
Visayas	2026	3	4	11	101	150	150	20
Visayas	2026	3	4	12	95	150	150	20
Visayas	2026	3	4	13	94	150	150	20
Visayas	2026	3	4	14	103	150	150	20
Visayas	2026	3	4	15	98	150	150	20
Visayas	2026	3	4	16	96	150	150	20
Visayas	2026	3	4	17	90	150	150	20
Visayas	2026	3	4	18	93	150	150	20
Visayas	2026	3	4	19	96	150	150	20
Visayas	2026	3	4	20	88	150	150	20
Visayas	2026	3	4	21	82	150	150	20
Visayas	2026	3	4	22	74	150	150	20
Visayas	2026	3	4	23	61	150	150	20
Visayas	2026	3	4	24	59	150	150	20
Visayas	2026	3	5	1	57	150	150	20
Visayas	2026	3	5	2	55	150	150	20
Visayas	2026	3	5	3	54	150	150	20
Visayas	2026	3	5	4	54	150	150	20
Visayas	2026	3	5	5	57	150	150	20
Visayas	2026	3	5	6	62	150	150	20
Visayas	2026	3	5	7	60	150	150	20
Visayas	2026	3	5	8	68	150	150	20
Visayas	2026	3	5	9	81	150	150	20
Visayas	2026	3	5	10	87	150	150	20
Visayas	2026	3	5	11	92	150	150	20
Visayas	2026	3	5	12	89	150	150	20
Visayas	2026	3	5	13	89	150	150	20
Visayas	2026	3	5	14	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	5	15	93	150	150	20
Visayas	2026	3	5	16	91	150	150	20
Visayas	2026	3	5	17	84	150	150	20
Visayas	2026	3	5	18	87	150	150	20
Visayas	2026	3	5	19	90	150	150	20
Visayas	2026	3	5	20	84	150	150	20
Visayas	2026	3	5	21	77	150	150	20
Visayas	2026	3	5	22	67	150	150	20
Visayas	2026	3	5	23	61	150	150	20
Visayas	2026	3	5	24	57	150	150	20
Visayas	2026	3	6	1	55	150	150	20
Visayas	2026	3	6	2	53	150	150	20
Visayas	2026	3	6	3	52	150	150	20
Visayas	2026	3	6	4	52	150	150	20
Visayas	2026	3	6	5	55	150	150	20
Visayas	2026	3	6	6	61	150	150	20
Visayas	2026	3	6	7	58	150	150	20
Visayas	2026	3	6	8	67	150	150	20
Visayas	2026	3	6	9	80	150	150	20
Visayas	2026	3	6	10	85	150	150	20
Visayas	2026	3	6	11	90	150	150	20
Visayas	2026	3	6	12	85	150	150	20
Visayas	2026	3	6	13	84	150	150	20
Visayas	2026	3	6	14	92	150	150	20
Visayas	2026	3	6	15	91	150	150	20
Visayas	2026	3	6	16	89	150	150	20
Visayas	2026	3	6	17	84	150	150	20
Visayas	2026	3	6	18	88	150	150	20
Visayas	2026	3	6	19	91	150	150	20
Visayas	2026	3	6	20	82	150	150	20
Visayas	2026	3	6	21	76	150	150	20
Visayas	2026	3	6	22	69	150	150	20
Visayas	2026	3	6	23	62	150	150	20
Visayas	2026	3	6	24	59	150	150	20
Visayas	2026	3	7	1	56	150	150	20
Visayas	2026	3	7	2	54	150	150	20
Visayas	2026	3	7	3	53	150	150	20
Visayas	2026	3	7	4	52	150	150	20
Visayas	2026	3	7	5	55	150	150	20
Visayas	2026	3	7	6	56	150	150	20
Visayas	2026	3	7	7	58	150	150	20
Visayas	2026	3	7	8	63	150	150	20
Visayas	2026	3	7	9	72	150	150	20
Visayas	2026	3	7	10	78	150	150	20
Visayas	2026	3	7	11	81	150	150	20
Visayas	2026	3	7	12	79	150	150	20
Visayas	2026	3	7	13	79	150	150	20
Visayas	2026	3	7	14	83	150	150	20
Visayas	2026	3	7	15	80	150	150	20
Visayas	2026	3	7	16	79	150	150	20
Visayas	2026	3	7	17	77	150	150	20
Visayas	2026	3	7	18	82	150	150	20
Visayas	2026	3	7	19	89	150	150	20
Visayas	2026	3	7	20	82	150	150	20
Visayas	2026	3	7	21	76	150	150	20
Visayas	2026	3	7	22	69	150	150	20
Visayas	2026	3	7	23	63	150	150	20
Visayas	2026	3	7	24	60	150	150	20
Visayas	2026	3	8	1	57	150	150	20
Visayas	2026	3	8	2	56	150	150	20
Visayas	2026	3	8	3	54	150	150	20
Visayas	2026	3	8	4	53	150	150	20
Visayas	2026	3	8	5	53	150	150	20
Visayas	2026	3	8	6	55	150	150	20
Visayas	2026	3	8	7	55	150	150	20
Visayas	2026	3	8	8	59	150	150	20
Visayas	2026	3	8	9	61	150	150	20
Visayas	2026	3	8	10	65	150	150	20
Visayas	2026	3	8	11	68	150	150	20
Visayas	2026	3	8	12	67	150	150	20
Visayas	2026	3	8	13	67	150	150	20
Visayas	2026	3	8	14	67	150	150	20
Visayas	2026	3	8	15	68	150	150	20
Visayas	2026	3	8	16	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	8	17	66	150	150	20
Visayas	2026	3	8	18	76	150	150	20
Visayas	2026	3	8	19	83	150	150	20
Visayas	2026	3	8	20	76	150	150	20
Visayas	2026	3	8	21	70	150	150	20
Visayas	2026	3	8	22	64	150	150	20
Visayas	2026	3	8	23	60	150	150	20
Visayas	2026	3	8	24	56	150	150	20
Visayas	2026	3	9	1	54	150	150	20
Visayas	2026	3	9	2	52	150	150	20
Visayas	2026	3	9	3	51	150	150	20
Visayas	2026	3	9	4	51	150	150	20
Visayas	2026	3	9	5	55	150	150	20
Visayas	2026	3	9	6	62	150	150	20
Visayas	2026	3	9	7	60	150	150	20
Visayas	2026	3	9	8	67	150	150	20
Visayas	2026	3	9	9	83	150	150	20
Visayas	2026	3	9	10	90	150	150	20
Visayas	2026	3	9	11	93	150	150	20
Visayas	2026	3	9	12	91	150	150	20
Visayas	2026	3	9	13	90	150	150	20
Visayas	2026	3	9	14	95	150	150	20
Visayas	2026	3	9	15	96	150	150	20
Visayas	2026	3	9	16	92	150	150	20
Visayas	2026	3	9	17	86	150	150	20
Visayas	2026	3	9	18	91	150	150	20
Visayas	2026	3	9	19	93	150	150	20
Visayas	2026	3	9	20	86	150	150	20
Visayas	2026	3	9	21	81	150	150	20
Visayas	2026	3	9	22	74	150	150	20
Visayas	2026	3	9	23	66	150	150	20
Visayas	2026	3	9	24	62	150	150	20
Visayas	2026	3	10	1	60	150	150	20
Visayas	2026	3	10	2	58	150	150	20
Visayas	2026	3	10	3	56	150	150	20
Visayas	2026	3	10	4	56	150	150	20
Visayas	2026	3	10	5	60	150	150	20
Visayas	2026	3	10	6	67	150	150	20
Visayas	2026	3	10	7	62	150	150	20
Visayas	2026	3	10	8	72	150	150	20
Visayas	2026	3	10	9	88	150	150	20
Visayas	2026	3	10	10	93	150	150	20
Visayas	2026	3	10	11	98	150	150	20
Visayas	2026	3	10	12	95	150	150	20
Visayas	2026	3	10	13	96	150	150	20
Visayas	2026	3	10	14	101	150	150	20
Visayas	2026	3	10	15	102	150	150	20
Visayas	2026	3	10	16	97	150	150	20
Visayas	2026	3	10	17	91	150	150	20
Visayas	2026	3	10	18	95	150	150	20
Visayas	2026	3	10	19	98	150	150	20
Visayas	2026	3	10	20	91	150	150	20
Visayas	2026	3	10	21	85	150	150	20
Visayas	2026	3	10	22	78	150	150	20
Visayas	2026	3	10	23	69	150	150	20
Visayas	2026	3	10	24	64	150	150	20
Visayas	2026	3	11	1	62	150	150	20
Visayas	2026	3	11	2	60	150	150	20
Visayas	2026	3	11	3	57	150	150	20
Visayas	2026	3	11	4	58	150	150	20
Visayas	2026	3	11	5	61	150	150	20
Visayas	2026	3	11	6	69	150	150	20
Visayas	2026	3	11	7	63	150	150	20
Visayas	2026	3	11	8	73	150	150	20
Visayas	2026	3	11	9	88	150	150	20
Visayas	2026	3	11	10	96	150	150	20
Visayas	2026	3	11	11	99	150	150	20
Visayas	2026	3	11	12	96	150	150	20
Visayas	2026	3	11	13	100	150	150	20
Visayas	2026	3	11	14	106	150	150	20
Visayas	2026	3	11	15	103	150	150	20
Visayas	2026	3	11	16	101	150	150	20
Visayas	2026	3	11	17	93	150	150	20
Visayas	2026	3	11	18	97	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	11	19	99	150	150	20
Visayas	2026	3	11	20	95	150	150	20
Visayas	2026	3	11	21	87	150	150	20
Visayas	2026	3	11	22	79	150	150	20
Visayas	2026	3	11	23	73	150	150	20
Visayas	2026	3	11	24	67	150	150	20
Visayas	2026	3	12	1	65	150	150	20
Visayas	2026	3	12	2	61	150	150	20
Visayas	2026	3	12	3	60	150	150	20
Visayas	2026	3	12	4	59	150	150	20
Visayas	2026	3	12	5	62	150	150	20
Visayas	2026	3	12	6	69	150	150	20
Visayas	2026	3	12	7	63	150	150	20
Visayas	2026	3	12	8	75	150	150	20
Visayas	2026	3	12	9	92	150	150	20
Visayas	2026	3	12	10	98	150	150	20
Visayas	2026	3	12	11	104	150	150	20
Visayas	2026	3	12	12	100	150	150	20
Visayas	2026	3	12	13	99	150	150	20
Visayas	2026	3	12	14	106	150	150	20
Visayas	2026	3	12	15	106	150	150	20
Visayas	2026	3	12	16	102	150	150	20
Visayas	2026	3	12	17	94	150	150	20
Visayas	2026	3	12	18	95	150	150	20
Visayas	2026	3	12	19	100	150	150	20
Visayas	2026	3	12	20	93	150	150	20
Visayas	2026	3	12	21	87	150	150	20
Visayas	2026	3	12	22	78	150	150	20
Visayas	2026	3	12	23	71	150	150	20
Visayas	2026	3	12	24	65	150	150	20
Visayas	2026	3	13	1	62	150	150	20
Visayas	2026	3	13	2	60	150	150	20
Visayas	2026	3	13	3	58	150	150	20
Visayas	2026	3	13	4	57	150	150	20
Visayas	2026	3	13	5	60	150	150	20
Visayas	2026	3	13	6	67	150	150	20
Visayas	2026	3	13	7	62	150	150	20
Visayas	2026	3	13	8	72	150	150	20
Visayas	2026	3	13	9	88	150	150	20
Visayas	2026	3	13	10	95	150	150	20
Visayas	2026	3	13	11	101	150	150	20
Visayas	2026	3	13	12	98	150	150	20
Visayas	2026	3	13	13	98	150	150	20
Visayas	2026	3	13	14	104	150	150	20
Visayas	2026	3	13	15	102	150	150	20
Visayas	2026	3	13	16	98	150	150	20
Visayas	2026	3	13	17	91	150	150	20
Visayas	2026	3	13	18	91	150	150	20
Visayas	2026	3	13	19	96	150	150	20
Visayas	2026	3	13	20	89	150	150	20
Visayas	2026	3	13	21	84	150	150	20
Visayas	2026	3	13	22	78	150	150	20
Visayas	2026	3	13	23	72	150	150	20
Visayas	2026	3	13	24	65	150	150	20
Visayas	2026	3	14	1	63	150	150	20
Visayas	2026	3	14	2	60	150	150	20
Visayas	2026	3	14	3	58	150	150	20
Visayas	2026	3	14	4	57	150	150	20
Visayas	2026	3	14	5	57	150	150	20
Visayas	2026	3	14	6	60	150	150	20
Visayas	2026	3	14	7	61	150	150	20
Visayas	2026	3	14	8	66	150	150	20
Visayas	2026	3	14	9	75	150	150	20
Visayas	2026	3	14	10	81	150	150	20
Visayas	2026	3	14	11	84	150	150	20
Visayas	2026	3	14	12	82	150	150	20
Visayas	2026	3	14	13	85	150	150	20
Visayas	2026	3	14	14	89	150	150	20
Visayas	2026	3	14	15	87	150	150	20
Visayas	2026	3	14	16	83	150	150	20
Visayas	2026	3	14	17	79	150	150	20
Visayas	2026	3	14	18	86	150	150	20
Visayas	2026	3	14	19	90	150	150	20
Visayas	2026	3	14	20	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	14	21	80	150	150	20
Visayas	2026	3	14	22	72	150	150	20
Visayas	2026	3	14	23	66	150	150	20
Visayas	2026	3	14	24	62	150	150	20
Visayas	2026	3	15	1	59	150	150	20
Visayas	2026	3	15	2	57	150	150	20
Visayas	2026	3	15	3	55	150	150	20
Visayas	2026	3	15	4	54	150	150	20
Visayas	2026	3	15	5	54	150	150	20
Visayas	2026	3	15	6	55	150	150	20
Visayas	2026	3	15	7	56	150	150	20
Visayas	2026	3	15	8	58	150	150	20
Visayas	2026	3	15	9	62	150	150	20
Visayas	2026	3	15	10	69	150	150	20
Visayas	2026	3	15	11	71	150	150	20
Visayas	2026	3	15	12	73	150	150	20
Visayas	2026	3	15	13	71	150	150	20
Visayas	2026	3	15	14	73	150	150	20
Visayas	2026	3	15	15	74	150	150	20
Visayas	2026	3	15	16	72	150	150	20
Visayas	2026	3	15	17	72	150	150	20
Visayas	2026	3	15	18	79	150	150	20
Visayas	2026	3	15	19	90	150	150	20
Visayas	2026	3	15	20	83	150	150	20
Visayas	2026	3	15	21	79	150	150	20
Visayas	2026	3	15	22	72	150	150	20
Visayas	2026	3	15	23	65	150	150	20
Visayas	2026	3	15	24	60	150	150	20
Visayas	2026	3	16	1	57	150	150	20
Visayas	2026	3	16	2	54	150	150	20
Visayas	2026	3	16	3	51	150	150	20
Visayas	2026	3	16	4	52	150	150	20
Visayas	2026	3	16	5	57	150	150	20
Visayas	2026	3	16	6	62	150	150	20
Visayas	2026	3	16	7	59	150	150	20
Visayas	2026	3	16	8	68	150	150	20
Visayas	2026	3	16	9	86	150	150	20
Visayas	2026	3	16	10	95	150	150	20
Visayas	2026	3	16	11	98	150	150	20
Visayas	2026	3	16	12	96	150	150	20
Visayas	2026	3	16	13	97	150	150	20
Visayas	2026	3	16	14	105	150	150	20
Visayas	2026	3	16	15	105	150	150	20
Visayas	2026	3	16	16	101	150	150	20
Visayas	2026	3	16	17	93	150	150	20
Visayas	2026	3	16	18	94	150	150	20
Visayas	2026	3	16	19	99	150	150	20
Visayas	2026	3	16	20	92	150	150	20
Visayas	2026	3	16	21	87	150	150	20
Visayas	2026	3	16	22	78	150	150	20
Visayas	2026	3	16	23	71	150	150	20
Visayas	2026	3	16	24	65	150	150	20
Visayas	2026	3	17	1	62	150	150	20
Visayas	2026	3	17	2	61	150	150	20
Visayas	2026	3	17	3	58	150	150	20
Visayas	2026	3	17	4	58	150	150	20
Visayas	2026	3	17	5	61	150	150	20
Visayas	2026	3	17	6	69	150	150	20
Visayas	2026	3	17	7	64	150	150	20
Visayas	2026	3	17	8	74	150	150	20
Visayas	2026	3	17	9	89	150	150	20
Visayas	2026	3	17	10	97	150	150	20
Visayas	2026	3	17	11	99	150	150	20
Visayas	2026	3	17	12	95	150	150	20
Visayas	2026	3	17	13	97	150	150	20
Visayas	2026	3	17	14	104	150	150	20
Visayas	2026	3	17	15	103	150	150	20
Visayas	2026	3	17	16	100	150	150	20
Visayas	2026	3	17	17	93	150	150	20
Visayas	2026	3	17	18	98	150	150	20
Visayas	2026	3	17	19	100	150	150	20
Visayas	2026	3	17	20	94	150	150	20
Visayas	2026	3	17	21	87	150	150	20
Visayas	2026	3	17	22	79	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	17	23	72	150	150	20
Visayas	2026	3	17	24	67	150	150	20
Visayas	2026	3	18	1	64	150	150	20
Visayas	2026	3	18	2	61	150	150	20
Visayas	2026	3	18	3	60	150	150	20
Visayas	2026	3	18	4	59	150	150	20
Visayas	2026	3	18	5	63	150	150	20
Visayas	2026	3	18	6	70	150	150	20
Visayas	2026	3	18	7	63	150	150	20
Visayas	2026	3	18	8	76	150	150	20
Visayas	2026	3	18	9	92	150	150	20
Visayas	2026	3	18	10	100	150	150	20
Visayas	2026	3	18	11	104	150	150	20
Visayas	2026	3	18	12	100	150	150	20
Visayas	2026	3	18	13	101	150	150	20
Visayas	2026	3	18	14	107	150	150	20
Visayas	2026	3	18	15	105	150	150	20
Visayas	2026	3	18	16	100	150	150	20
Visayas	2026	3	18	17	93	150	150	20
Visayas	2026	3	18	18	97	150	150	20
Visayas	2026	3	18	19	100	150	150	20
Visayas	2026	3	18	20	93	150	150	20
Visayas	2026	3	18	21	87	150	150	20
Visayas	2026	3	18	22	80	150	150	20
Visayas	2026	3	18	23	72	150	150	20
Visayas	2026	3	18	24	66	150	150	20
Visayas	2026	3	19	1	64	150	150	20
Visayas	2026	3	19	2	60	150	150	20
Visayas	2026	3	19	3	58	150	150	20
Visayas	2026	3	19	4	58	150	150	20
Visayas	2026	3	19	5	61	150	150	20
Visayas	2026	3	19	6	66	150	150	20
Visayas	2026	3	19	7	62	150	150	20
Visayas	2026	3	19	8	72	150	150	20
Visayas	2026	3	19	9	89	150	150	20
Visayas	2026	3	19	10	97	150	150	20
Visayas	2026	3	19	11	102	150	150	20
Visayas	2026	3	19	12	98	150	150	20
Visayas	2026	3	19	13	99	150	150	20
Visayas	2026	3	19	14	105	150	150	20
Visayas	2026	3	19	15	107	150	150	20
Visayas	2026	3	19	16	103	150	150	20
Visayas	2026	3	19	17	94	150	150	20
Visayas	2026	3	19	18	98	150	150	20
Visayas	2026	3	19	19	102	150	150	20
Visayas	2026	3	19	20	95	150	150	20
Visayas	2026	3	19	21	92	150	150	20
Visayas	2026	3	19	22	83	150	150	20
Visayas	2026	3	19	23	75	150	150	20
Visayas	2026	3	19	24	70	150	150	20
Visayas	2026	3	20	1	66	150	150	20
Visayas	2026	3	20	2	63	150	150	20
Visayas	2026	3	20	3	61	150	150	20
Visayas	2026	3	20	4	61	150	150	20
Visayas	2026	3	20	5	64	150	150	20
Visayas	2026	3	20	6	69	150	150	20
Visayas	2026	3	20	7	66	150	150	20
Visayas	2026	3	20	8	78	150	150	20
Visayas	2026	3	20	9	93	150	150	20
Visayas	2026	3	20	10	100	150	150	20
Visayas	2026	3	20	11	106	150	150	20
Visayas	2026	3	20	12	103	150	150	20
Visayas	2026	3	20	13	103	150	150	20
Visayas	2026	3	20	14	110	150	150	20
Visayas	2026	3	20	15	109	150	150	20
Visayas	2026	3	20	16	105	150	150	20
Visayas	2026	3	20	17	98	150	150	20
Visayas	2026	3	20	18	99	150	150	20
Visayas	2026	3	20	19	104	150	150	20
Visayas	2026	3	20	20	98	150	150	20
Visayas	2026	3	20	21	92	150	150	20
Visayas	2026	3	20	22	84	150	150	20
Visayas	2026	3	20	23	76	150	150	20
Visayas	2026	3	20	24	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	21	1	66	150	150	20
Visayas	2026	3	21	2	64	150	150	20
Visayas	2026	3	21	3	61	150	150	20
Visayas	2026	3	21	4	61	150	150	20
Visayas	2026	3	21	5	61	150	150	20
Visayas	2026	3	21	6	63	150	150	20
Visayas	2026	3	21	7	62	150	150	20
Visayas	2026	3	21	8	69	150	150	20
Visayas	2026	3	21	9	81	150	150	20
Visayas	2026	3	21	10	86	150	150	20
Visayas	2026	3	21	11	89	150	150	20
Visayas	2026	3	21	12	87	150	150	20
Visayas	2026	3	21	13	86	150	150	20
Visayas	2026	3	21	14	91	150	150	20
Visayas	2026	3	21	15	90	150	150	20
Visayas	2026	3	21	16	88	150	150	20
Visayas	2026	3	21	17	84	150	150	20
Visayas	2026	3	21	18	90	150	150	20
Visayas	2026	3	21	19	95	150	150	20
Visayas	2026	3	21	20	90	150	150	20
Visayas	2026	3	21	21	85	150	150	20
Visayas	2026	3	21	22	80	150	150	20
Visayas	2026	3	21	23	73	150	150	20
Visayas	2026	3	21	24	67	150	150	20
Visayas	2026	3	22	1	64	150	150	20
Visayas	2026	3	22	2	61	150	150	20
Visayas	2026	3	22	3	61	150	150	20
Visayas	2026	3	22	4	58	150	150	20
Visayas	2026	3	22	5	58	150	150	20
Visayas	2026	3	22	6	59	150	150	20
Visayas	2026	3	22	7	55	150	150	20
Visayas	2026	3	22	8	57	150	150	20
Visayas	2026	3	22	9	61	150	150	20
Visayas	2026	3	22	10	66	150	150	20
Visayas	2026	3	22	11	71	150	150	20
Visayas	2026	3	22	12	70	150	150	20
Visayas	2026	3	22	13	70	150	150	20
Visayas	2026	3	22	14	71	150	150	20
Visayas	2026	3	22	15	72	150	150	20
Visayas	2026	3	22	16	71	150	150	20
Visayas	2026	3	22	17	70	150	150	20
Visayas	2026	3	22	18	79	150	150	20
Visayas	2026	3	22	19	88	150	150	20
Visayas	2026	3	22	20	86	150	150	20
Visayas	2026	3	22	21	82	150	150	20
Visayas	2026	3	22	22	75	150	150	20
Visayas	2026	3	22	23	70	150	150	20
Visayas	2026	3	22	24	63	150	150	20
Visayas	2026	3	23	1	61	150	150	20
Visayas	2026	3	23	2	59	150	150	20
Visayas	2026	3	23	3	57	150	150	20
Visayas	2026	3	23	4	56	150	150	20
Visayas	2026	3	23	5	60	150	150	20
Visayas	2026	3	23	6	67	150	150	20
Visayas	2026	3	23	7	62	150	150	20
Visayas	2026	3	23	8	74	150	150	20
Visayas	2026	3	23	9	89	150	150	20
Visayas	2026	3	23	10	100	150	150	20
Visayas	2026	3	23	11	103	150	150	20
Visayas	2026	3	23	12	100	150	150	20
Visayas	2026	3	23	13	101	150	150	20
Visayas	2026	3	23	14	109	150	150	20
Visayas	2026	3	23	15	109	150	150	20
Visayas	2026	3	23	16	105	150	150	20
Visayas	2026	3	23	17	99	150	150	20
Visayas	2026	3	23	18	97	150	150	20
Visayas	2026	3	23	19	103	150	150	20
Visayas	2026	3	23	20	96	150	150	20
Visayas	2026	3	23	21	91	150	150	20
Visayas	2026	3	23	22	82	150	150	20
Visayas	2026	3	23	23	74	150	150	20
Visayas	2026	3	23	24	67	150	150	20
Visayas	2026	3	24	1	63	150	150	20
Visayas	2026	3	24	2	61	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	24	3	59	150	150	20
Visayas	2026	3	24	4	58	150	150	20
Visayas	2026	3	24	5	61	150	150	20
Visayas	2026	3	24	6	70	150	150	20
Visayas	2026	3	24	7	64	150	150	20
Visayas	2026	3	24	8	74	150	150	20
Visayas	2026	3	24	9	90	150	150	20
Visayas	2026	3	24	10	98	150	150	20
Visayas	2026	3	24	11	103	150	150	20
Visayas	2026	3	24	12	101	150	150	20
Visayas	2026	3	24	13	100	150	150	20
Visayas	2026	3	24	14	111	150	150	20
Visayas	2026	3	24	15	110	150	150	20
Visayas	2026	3	24	16	107	150	150	20
Visayas	2026	3	24	17	99	150	150	20
Visayas	2026	3	24	18	98	150	150	20
Visayas	2026	3	24	19	104	150	150	20
Visayas	2026	3	24	20	96	150	150	20
Visayas	2026	3	24	21	91	150	150	20
Visayas	2026	3	24	22	83	150	150	20
Visayas	2026	3	24	23	75	150	150	20
Visayas	2026	3	24	24	70	150	150	20
Visayas	2026	3	25	1	65	150	150	20
Visayas	2026	3	25	2	63	150	150	20
Visayas	2026	3	25	3	60	150	150	20
Visayas	2026	3	25	4	60	150	150	20
Visayas	2026	3	25	5	63	150	150	20
Visayas	2026	3	25	6	71	150	150	20
Visayas	2026	3	25	7	65	150	150	20
Visayas	2026	3	25	8	77	150	150	20
Visayas	2026	3	25	9	95	150	150	20
Visayas	2026	3	25	10	104	150	150	20
Visayas	2026	3	25	11	110	150	150	20
Visayas	2026	3	25	12	105	150	150	20
Visayas	2026	3	25	13	107	150	150	20
Visayas	2026	3	25	14	116	150	150	20
Visayas	2026	3	25	15	115	150	150	20
Visayas	2026	3	25	16	112	150	150	20
Visayas	2026	3	25	17	102	150	150	20
Visayas	2026	3	25	18	102	150	150	20
Visayas	2026	3	25	19	108	150	150	20
Visayas	2026	3	25	20	101	150	150	20
Visayas	2026	3	25	21	96	150	150	20
Visayas	2026	3	25	22	89	150	150	20
Visayas	2026	3	25	23	81	150	150	20
Visayas	2026	3	25	24	76	150	150	20
Visayas	2026	3	26	1	70	150	150	20
Visayas	2026	3	26	2	67	150	150	20
Visayas	2026	3	26	3	64	150	150	20
Visayas	2026	3	26	4	63	150	150	20
Visayas	2026	3	26	5	65	150	150	20
Visayas	2026	3	26	6	72	150	150	20
Visayas	2026	3	26	7	66	150	150	20
Visayas	2026	3	26	8	81	150	150	20
Visayas	2026	3	26	9	99	150	150	20
Visayas	2026	3	26	10	107	150	150	20
Visayas	2026	3	26	11	111	150	150	20
Visayas	2026	3	26	12	107	150	150	20
Visayas	2026	3	26	13	110	150	150	20
Visayas	2026	3	26	14	119	150	150	20
Visayas	2026	3	26	15	115	150	150	20
Visayas	2026	3	26	16	113	150	150	20
Visayas	2026	3	26	17	105	150	150	20
Visayas	2026	3	26	18	103	150	150	20
Visayas	2026	3	26	19	110	150	150	20
Visayas	2026	3	26	20	105	150	150	20
Visayas	2026	3	26	21	100	150	150	20
Visayas	2026	3	26	22	92	150	150	20
Visayas	2026	3	26	23	85	150	150	20
Visayas	2026	3	26	24	78	150	150	20
Visayas	2026	3	27	1	74	150	150	20
Visayas	2026	3	27	2	70	150	150	20
Visayas	2026	3	27	3	67	150	150	20
Visayas	2026	3	27	4	66	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	27	5	70	150	150	20
Visayas	2026	3	27	6	76	150	150	20
Visayas	2026	3	27	7	70	150	150	20
Visayas	2026	3	27	8	83	150	150	20
Visayas	2026	3	27	9	101	150	150	20
Visayas	2026	3	27	10	110	150	150	20
Visayas	2026	3	27	11	116	150	150	20
Visayas	2026	3	27	12	112	150	150	20
Visayas	2026	3	27	13	114	150	150	20
Visayas	2026	3	27	14	122	150	150	20
Visayas	2026	3	27	15	120	150	150	20
Visayas	2026	3	27	16	116	150	150	20
Visayas	2026	3	27	17	105	150	150	20
Visayas	2026	3	27	18	105	150	150	20
Visayas	2026	3	27	19	110	150	150	20
Visayas	2026	3	27	20	107	150	150	20
Visayas	2026	3	27	21	103	150	150	20
Visayas	2026	3	27	22	96	150	150	20
Visayas	2026	3	27	23	89	150	150	20
Visayas	2026	3	27	24	83	150	150	20
Visayas	2026	3	28	1	77	150	150	20
Visayas	2026	3	28	2	74	150	150	20
Visayas	2026	3	28	3	72	150	150	20
Visayas	2026	3	28	4	70	150	150	20
Visayas	2026	3	28	5	69	150	150	20
Visayas	2026	3	28	6	71	150	150	20
Visayas	2026	3	28	7	65	150	150	20
Visayas	2026	3	28	8	74	150	150	20
Visayas	2026	3	28	9	87	150	150	20
Visayas	2026	3	28	10	93	150	150	20
Visayas	2026	3	28	11	99	150	150	20
Visayas	2026	3	28	12	99	150	150	20
Visayas	2026	3	28	13	99	150	150	20
Visayas	2026	3	28	14	103	150	150	20
Visayas	2026	3	28	15	102	150	150	20
Visayas	2026	3	28	16	98	150	150	20
Visayas	2026	3	28	17	91	150	150	20
Visayas	2026	3	28	18	94	150	150	20
Visayas	2026	3	28	19	105	150	150	20
Visayas	2026	3	28	20	101	150	150	20
Visayas	2026	3	28	21	96	150	150	20
Visayas	2026	3	28	22	93	150	150	20
Visayas	2026	3	28	23	87	150	150	20
Visayas	2026	3	28	24	81	150	150	20
Visayas	2026	3	29	1	77	150	150	20
Visayas	2026	3	29	2	73	150	150	20
Visayas	2026	3	29	3	69	150	150	20
Visayas	2026	3	29	4	67	150	150	20
Visayas	2026	3	29	5	67	150	150	20
Visayas	2026	3	29	6	66	150	150	20
Visayas	2026	3	29	7	67	150	150	20
Visayas	2026	3	29	8	70	150	150	20
Visayas	2026	3	29	9	77	150	150	20
Visayas	2026	3	29	10	81	150	150	20
Visayas	2026	3	29	11	84	150	150	20
Visayas	2026	3	29	12	86	150	150	20
Visayas	2026	3	29	13	88	150	150	20
Visayas	2026	3	29	14	91	150	150	20
Visayas	2026	3	29	15	90	150	150	20
Visayas	2026	3	29	16	87	150	150	20
Visayas	2026	3	29	17	85	150	150	20
Visayas	2026	3	29	18	92	150	150	20
Visayas	2026	3	29	19	99	150	150	20
Visayas	2026	3	29	20	97	150	150	20
Visayas	2026	3	29	21	94	150	150	20
Visayas	2026	3	29	22	89	150	150	20
Visayas	2026	3	29	23	83	150	150	20
Visayas	2026	3	29	24	77	150	150	20
Visayas	2026	3	30	1	72	150	150	20
Visayas	2026	3	30	2	68	150	150	20
Visayas	2026	3	30	3	64	150	150	20
Visayas	2026	3	30	4	64	150	150	20
Visayas	2026	3	30	5	68	150	150	20
Visayas	2026	3	30	6	74	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	3	30	7	67	150	150	20
Visayas	2026	3	30	8	80	150	150	20
Visayas	2026	3	30	9	99	150	150	20
Visayas	2026	3	30	10	110	150	150	20
Visayas	2026	3	30	11	113	150	150	20
Visayas	2026	3	30	12	110	150	150	20
Visayas	2026	3	30	13	112	150	150	20
Visayas	2026	3	30	14	120	150	150	20
Visayas	2026	3	30	15	119	150	150	20
Visayas	2026	3	30	16	116	150	150	20
Visayas	2026	3	30	17	107	150	150	20
Visayas	2026	3	30	18	106	150	150	20
Visayas	2026	3	30	19	112	150	150	20
Visayas	2026	3	30	20	106	150	150	20
Visayas	2026	3	30	21	101	150	150	20
Visayas	2026	3	30	22	93	150	150	20
Visayas	2026	3	30	23	87	150	150	20
Visayas	2026	3	30	24	81	150	150	20
Visayas	2026	3	31	1	75	150	150	20
Visayas	2026	3	31	2	72	150	150	20
Visayas	2026	3	31	3	69	150	150	20
Visayas	2026	3	31	4	67	150	150	20
Visayas	2026	3	31	5	71	150	150	20
Visayas	2026	3	31	6	75	150	150	20
Visayas	2026	3	31	7	71	150	150	20
Visayas	2026	3	31	8	84	150	150	20
Visayas	2026	3	31	9	104	150	150	20
Visayas	2026	3	31	10	110	150	150	20
Visayas	2026	3	31	11	115	150	150	20
Visayas	2026	3	31	12	111	150	150	20
Visayas	2026	3	31	13	113	150	150	20
Visayas	2026	3	31	14	121	150	150	20
Visayas	2026	3	31	15	123	150	150	20
Visayas	2026	3	31	16	119	150	150	20
Visayas	2026	3	31	17	108	150	150	20
Visayas	2026	3	31	18	109	150	150	20
Visayas	2026	3	31	19	113	150	150	20
Visayas	2026	3	31	20	108	150	150	20
Visayas	2026	3	31	21	102	150	150	20
Visayas	2026	3	31	22	95	150	150	20
Visayas	2026	3	31	23	88	150	150	20
Visayas	2026	3	31	24	84	150	150	20
Visayas	2026	4	1	1	78	150	150	20
Visayas	2026	4	1	2	74	150	150	20
Visayas	2026	4	1	3	71	150	150	20
Visayas	2026	4	1	4	68	150	150	20
Visayas	2026	4	1	5	72	150	150	20
Visayas	2026	4	1	6	78	150	150	20
Visayas	2026	4	1	7	70	150	150	20
Visayas	2026	4	1	8	84	150	150	20
Visayas	2026	4	1	9	99	150	150	20
Visayas	2026	4	1	10	109	150	150	20
Visayas	2026	4	1	11	112	150	150	20
Visayas	2026	4	1	12	109	150	150	20
Visayas	2026	4	1	13	111	150	150	20
Visayas	2026	4	1	14	118	150	150	20
Visayas	2026	4	1	15	116	150	150	20
Visayas	2026	4	1	16	112	150	150	20
Visayas	2026	4	1	17	107	150	150	20
Visayas	2026	4	1	18	107	150	150	20
Visayas	2026	4	1	19	111	150	150	20
Visayas	2026	4	1	20	105	150	150	20
Visayas	2026	4	1	21	101	150	150	20
Visayas	2026	4	1	22	93	150	150	20
Visayas	2026	4	1	23	87	150	150	20
Visayas	2026	4	1	24	80	150	150	20
Visayas	2026	4	2	1	62	150	150	20
Visayas	2026	4	2	2	60	150	150	20
Visayas	2026	4	2	3	57	150	150	20
Visayas	2026	4	2	4	56	150	150	20
Visayas	2026	4	2	5	55	150	150	20
Visayas	2026	4	2	6	54	150	150	20
Visayas	2026	4	2	7	55	150	150	20
Visayas	2026	4	2	8	56	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	2	9	61	150	150	20
Visayas	2026	4	2	10	63	150	150	20
Visayas	2026	4	2	11	67	150	150	20
Visayas	2026	4	2	12	67	150	150	20
Visayas	2026	4	2	13	68	150	150	20
Visayas	2026	4	2	14	71	150	150	20
Visayas	2026	4	2	15	71	150	150	20
Visayas	2026	4	2	16	68	150	150	20
Visayas	2026	4	2	17	66	150	150	20
Visayas	2026	4	2	18	73	150	150	20
Visayas	2026	4	2	19	79	150	150	20
Visayas	2026	4	2	20	76	150	150	20
Visayas	2026	4	2	21	75	150	150	20
Visayas	2026	4	2	22	71	150	150	20
Visayas	2026	4	2	23	67	150	150	20
Visayas	2026	4	2	24	63	150	150	20
Visayas	2026	4	3	1	60	150	150	20
Visayas	2026	4	3	2	58	150	150	20
Visayas	2026	4	3	3	56	150	150	20
Visayas	2026	4	3	4	54	150	150	20
Visayas	2026	4	3	5	54	150	150	20
Visayas	2026	4	3	6	54	150	150	20
Visayas	2026	4	3	7	53	150	150	20
Visayas	2026	4	3	8	54	150	150	20
Visayas	2026	4	3	9	55	150	150	20
Visayas	2026	4	3	10	57	150	150	20
Visayas	2026	4	3	11	58	150	150	20
Visayas	2026	4	3	12	59	150	150	20
Visayas	2026	4	3	13	60	150	150	20
Visayas	2026	4	3	14	60	150	150	20
Visayas	2026	4	3	15	60	150	150	20
Visayas	2026	4	3	16	58	150	150	20
Visayas	2026	4	3	17	57	150	150	20
Visayas	2026	4	3	18	63	150	150	20
Visayas	2026	4	3	19	73	150	150	20
Visayas	2026	4	3	20	72	150	150	20
Visayas	2026	4	3	21	73	150	150	20
Visayas	2026	4	3	22	71	150	150	20
Visayas	2026	4	3	23	65	150	150	20
Visayas	2026	4	3	24	61	150	150	20
Visayas	2026	4	4	1	77	150	150	20
Visayas	2026	4	4	2	75	150	150	20
Visayas	2026	4	4	3	71	150	150	20
Visayas	2026	4	4	4	69	150	150	20
Visayas	2026	4	4	5	68	150	150	20
Visayas	2026	4	4	6	70	150	150	20
Visayas	2026	4	4	7	66	150	150	20
Visayas	2026	4	4	8	76	150	150	20
Visayas	2026	4	4	9	89	150	150	20
Visayas	2026	4	4	10	95	150	150	20
Visayas	2026	4	4	11	101	150	150	20
Visayas	2026	4	4	12	97	150	150	20
Visayas	2026	4	4	13	99	150	150	20
Visayas	2026	4	4	14	105	150	150	20
Visayas	2026	4	4	15	104	150	150	20
Visayas	2026	4	4	16	99	150	150	20
Visayas	2026	4	4	17	90	150	150	20
Visayas	2026	4	4	18	95	150	150	20
Visayas	2026	4	4	19	105	150	150	20
Visayas	2026	4	4	20	102	150	150	20
Visayas	2026	4	4	21	98	150	150	20
Visayas	2026	4	4	22	91	150	150	20
Visayas	2026	4	4	23	84	150	150	20
Visayas	2026	4	4	24	79	150	150	20
Visayas	2026	4	5	1	74	150	150	20
Visayas	2026	4	5	2	70	150	150	20
Visayas	2026	4	5	3	67	150	150	20
Visayas	2026	4	5	4	64	150	150	20
Visayas	2026	4	5	5	64	150	150	20
Visayas	2026	4	5	6	64	150	150	20
Visayas	2026	4	5	7	63	150	150	20
Visayas	2026	4	5	8	68	150	150	20
Visayas	2026	4	5	9	76	150	150	20
Visayas	2026	4	5	10	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	5	11	87	150	150	20
Visayas	2026	4	5	12	87	150	150	20
Visayas	2026	4	5	13	87	150	150	20
Visayas	2026	4	5	14	91	150	150	20
Visayas	2026	4	5	15	89	150	150	20
Visayas	2026	4	5	16	86	150	150	20
Visayas	2026	4	5	17	84	150	150	20
Visayas	2026	4	5	18	92	150	150	20
Visayas	2026	4	5	19	100	150	150	20
Visayas	2026	4	5	20	97	150	150	20
Visayas	2026	4	5	21	94	150	150	20
Visayas	2026	4	5	22	88	150	150	20
Visayas	2026	4	5	23	82	150	150	20
Visayas	2026	4	5	24	75	150	150	20
Visayas	2026	4	6	1	71	150	150	20
Visayas	2026	4	6	2	65	150	150	20
Visayas	2026	4	6	3	63	150	150	20
Visayas	2026	4	6	4	63	150	150	20
Visayas	2026	4	6	5	66	150	150	20
Visayas	2026	4	6	6	71	150	150	20
Visayas	2026	4	6	7	66	150	150	20
Visayas	2026	4	6	8	80	150	150	20
Visayas	2026	4	6	9	98	150	150	20
Visayas	2026	4	6	10	109	150	150	20
Visayas	2026	4	6	11	112	150	150	20
Visayas	2026	4	6	12	111	150	150	20
Visayas	2026	4	6	13	112	150	150	20
Visayas	2026	4	6	14	121	150	150	20
Visayas	2026	4	6	15	118	150	150	20
Visayas	2026	4	6	16	114	150	150	20
Visayas	2026	4	6	17	105	150	150	20
Visayas	2026	4	6	18	103	150	150	20
Visayas	2026	4	6	19	109	150	150	20
Visayas	2026	4	6	20	103	150	150	20
Visayas	2026	4	6	21	99	150	150	20
Visayas	2026	4	6	22	92	150	150	20
Visayas	2026	4	6	23	85	150	150	20
Visayas	2026	4	6	24	79	150	150	20
Visayas	2026	4	7	1	75	150	150	20
Visayas	2026	4	7	2	71	150	150	20
Visayas	2026	4	7	3	68	150	150	20
Visayas	2026	4	7	4	66	150	150	20
Visayas	2026	4	7	5	70	150	150	20
Visayas	2026	4	7	6	73	150	150	20
Visayas	2026	4	7	7	71	150	150	20
Visayas	2026	4	7	8	84	150	150	20
Visayas	2026	4	7	9	101	150	150	20
Visayas	2026	4	7	10	110	150	150	20
Visayas	2026	4	7	11	115	150	150	20
Visayas	2026	4	7	12	111	150	150	20
Visayas	2026	4	7	13	111	150	150	20
Visayas	2026	4	7	14	118	150	150	20
Visayas	2026	4	7	15	121	150	150	20
Visayas	2026	4	7	16	113	150	150	20
Visayas	2026	4	7	17	101	150	150	20
Visayas	2026	4	7	18	104	150	150	20
Visayas	2026	4	7	19	107	150	150	20
Visayas	2026	4	7	20	102	150	150	20
Visayas	2026	4	7	21	96	150	150	20
Visayas	2026	4	7	22	89	150	150	20
Visayas	2026	4	7	23	83	150	150	20
Visayas	2026	4	7	24	77	150	150	20
Visayas	2026	4	8	1	72	150	150	20
Visayas	2026	4	8	2	69	150	150	20
Visayas	2026	4	8	3	65	150	150	20
Visayas	2026	4	8	4	64	150	150	20
Visayas	2026	4	8	5	65	150	150	20
Visayas	2026	4	8	6	68	150	150	20
Visayas	2026	4	8	7	66	150	150	20
Visayas	2026	4	8	8	78	150	150	20
Visayas	2026	4	8	9	93	150	150	20
Visayas	2026	4	8	10	100	150	150	20
Visayas	2026	4	8	11	106	150	150	20
Visayas	2026	4	8	12	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	8	13	99	150	150	20
Visayas	2026	4	8	14	103	150	150	20
Visayas	2026	4	8	15	102	150	150	20
Visayas	2026	4	8	16	96	150	150	20
Visayas	2026	4	8	17	90	150	150	20
Visayas	2026	4	8	18	91	150	150	20
Visayas	2026	4	8	19	96	150	150	20
Visayas	2026	4	8	20	90	150	150	20
Visayas	2026	4	8	21	84	150	150	20
Visayas	2026	4	8	22	78	150	150	20
Visayas	2026	4	8	23	71	150	150	20
Visayas	2026	4	8	24	66	150	150	20
Visayas	2026	4	9	1	60	150	150	20
Visayas	2026	4	9	2	58	150	150	20
Visayas	2026	4	9	3	56	150	150	20
Visayas	2026	4	9	4	55	150	150	20
Visayas	2026	4	9	5	56	150	150	20
Visayas	2026	4	9	6	57	150	150	20
Visayas	2026	4	9	7	57	150	150	20
Visayas	2026	4	9	8	64	150	150	20
Visayas	2026	4	9	9	73	150	150	20
Visayas	2026	4	9	10	77	150	150	20
Visayas	2026	4	9	11	84	150	150	20
Visayas	2026	4	9	12	83	150	150	20
Visayas	2026	4	9	13	85	150	150	20
Visayas	2026	4	9	14	87	150	150	20
Visayas	2026	4	9	15	87	150	150	20
Visayas	2026	4	9	16	84	150	150	20
Visayas	2026	4	9	17	83	150	150	20
Visayas	2026	4	9	18	91	150	150	20
Visayas	2026	4	9	19	95	150	150	20
Visayas	2026	4	9	20	92	150	150	20
Visayas	2026	4	9	21	88	150	150	20
Visayas	2026	4	9	22	81	150	150	20
Visayas	2026	4	9	23	75	150	150	20
Visayas	2026	4	9	24	70	150	150	20
Visayas	2026	4	10	1	74	150	150	20
Visayas	2026	4	10	2	70	150	150	20
Visayas	2026	4	10	3	67	150	150	20
Visayas	2026	4	10	4	64	150	150	20
Visayas	2026	4	10	5	68	150	150	20
Visayas	2026	4	10	6	74	150	150	20
Visayas	2026	4	10	7	68	150	150	20
Visayas	2026	4	10	8	83	150	150	20
Visayas	2026	4	10	9	104	150	150	20
Visayas	2026	4	10	10	114	150	150	20
Visayas	2026	4	10	11	118	150	150	20
Visayas	2026	4	10	12	116	150	150	20
Visayas	2026	4	10	13	117	150	150	20
Visayas	2026	4	10	14	122	150	150	20
Visayas	2026	4	10	15	120	150	150	20
Visayas	2026	4	10	16	116	150	150	20
Visayas	2026	4	10	17	108	150	150	20
Visayas	2026	4	10	18	107	150	150	20
Visayas	2026	4	10	19	112	150	150	20
Visayas	2026	4	10	20	106	150	150	20
Visayas	2026	4	10	21	103	150	150	20
Visayas	2026	4	10	22	93	150	150	20
Visayas	2026	4	10	23	86	150	150	20
Visayas	2026	4	10	24	80	150	150	20
Visayas	2026	4	11	1	59	150	150	20
Visayas	2026	4	11	2	56	150	150	20
Visayas	2026	4	11	3	54	150	150	20
Visayas	2026	4	11	4	53	150	150	20
Visayas	2026	4	11	5	52	150	150	20
Visayas	2026	4	11	6	54	150	150	20
Visayas	2026	4	11	7	55	150	150	20
Visayas	2026	4	11	8	59	150	150	20
Visayas	2026	4	11	9	67	150	150	20
Visayas	2026	4	11	10	70	150	150	20
Visayas	2026	4	11	11	76	150	150	20
Visayas	2026	4	11	12	74	150	150	20
Visayas	2026	4	11	13	77	150	150	20
Visayas	2026	4	11	14	79	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	11	15	77	150	150	20
Visayas	2026	4	11	16	76	150	150	20
Visayas	2026	4	11	17	75	150	150	20
Visayas	2026	4	11	18	82	150	150	20
Visayas	2026	4	11	19	86	150	150	20
Visayas	2026	4	11	20	82	150	150	20
Visayas	2026	4	11	21	79	150	150	20
Visayas	2026	4	11	22	73	150	150	20
Visayas	2026	4	11	23	68	150	150	20
Visayas	2026	4	11	24	65	150	150	20
Visayas	2026	4	12	1	61	150	150	20
Visayas	2026	4	12	2	59	150	150	20
Visayas	2026	4	12	3	57	150	150	20
Visayas	2026	4	12	4	55	150	150	20
Visayas	2026	4	12	5	55	150	150	20
Visayas	2026	4	12	6	57	150	150	20
Visayas	2026	4	12	7	56	150	150	20
Visayas	2026	4	12	8	58	150	150	20
Visayas	2026	4	12	9	64	150	150	20
Visayas	2026	4	12	10	69	150	150	20
Visayas	2026	4	12	11	70	150	150	20
Visayas	2026	4	12	12	69	150	150	20
Visayas	2026	4	12	13	69	150	150	20
Visayas	2026	4	12	14	71	150	150	20
Visayas	2026	4	12	15	73	150	150	20
Visayas	2026	4	12	16	72	150	150	20
Visayas	2026	4	12	17	72	150	150	20
Visayas	2026	4	12	18	79	150	150	20
Visayas	2026	4	12	19	86	150	150	20
Visayas	2026	4	12	20	82	150	150	20
Visayas	2026	4	12	21	79	150	150	20
Visayas	2026	4	12	22	74	150	150	20
Visayas	2026	4	12	23	69	150	150	20
Visayas	2026	4	12	24	64	150	150	20
Visayas	2026	4	13	1	76	150	150	20
Visayas	2026	4	13	2	72	150	150	20
Visayas	2026	4	13	3	70	150	150	20
Visayas	2026	4	13	4	69	150	150	20
Visayas	2026	4	13	5	72	150	150	20
Visayas	2026	4	13	6	76	150	150	20
Visayas	2026	4	13	7	72	150	150	20
Visayas	2026	4	13	8	87	150	150	20
Visayas	2026	4	13	9	109	150	150	20
Visayas	2026	4	13	10	116	150	150	20
Visayas	2026	4	13	11	121	150	150	20
Visayas	2026	4	13	12	122	150	150	20
Visayas	2026	4	13	13	123	150	150	20
Visayas	2026	4	13	14	128	150	150	20
Visayas	2026	4	13	15	128	150	150	20
Visayas	2026	4	13	16	125	150	150	20
Visayas	2026	4	13	17	117	150	150	20
Visayas	2026	4	13	18	115	150	150	20
Visayas	2026	4	13	19	121	150	150	20
Visayas	2026	4	13	20	115	150	150	20
Visayas	2026	4	13	21	111	150	150	20
Visayas	2026	4	13	22	103	150	150	20
Visayas	2026	4	13	23	96	150	150	20
Visayas	2026	4	13	24	89	150	150	20
Visayas	2026	4	14	1	66	150	150	20
Visayas	2026	4	14	2	65	150	150	20
Visayas	2026	4	14	3	62	150	150	20
Visayas	2026	4	14	4	61	150	150	20
Visayas	2026	4	14	5	65	150	150	20
Visayas	2026	4	14	6	70	150	150	20
Visayas	2026	4	14	7	64	150	150	20
Visayas	2026	4	14	8	78	150	150	20
Visayas	2026	4	14	9	93	150	150	20
Visayas	2026	4	14	10	103	150	150	20
Visayas	2026	4	14	11	105	150	150	20
Visayas	2026	4	14	12	100	150	150	20
Visayas	2026	4	14	13	100	150	150	20
Visayas	2026	4	14	14	106	150	150	20
Visayas	2026	4	14	15	105	150	150	20
Visayas	2026	4	14	16	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	14	17	94	150	150	20
Visayas	2026	4	14	18	98	150	150	20
Visayas	2026	4	14	19	98	150	150	20
Visayas	2026	4	14	20	93	150	150	20
Visayas	2026	4	14	21	89	150	150	20
Visayas	2026	4	14	22	79	150	150	20
Visayas	2026	4	14	23	71	150	150	20
Visayas	2026	4	14	24	66	150	150	20
Visayas	2026	4	15	1	62	150	150	20
Visayas	2026	4	15	2	60	150	150	20
Visayas	2026	4	15	3	58	150	150	20
Visayas	2026	4	15	4	57	150	150	20
Visayas	2026	4	15	5	61	150	150	20
Visayas	2026	4	15	6	68	150	150	20
Visayas	2026	4	15	7	62	150	150	20
Visayas	2026	4	15	8	77	150	150	20
Visayas	2026	4	15	9	94	150	150	20
Visayas	2026	4	15	10	102	150	150	20
Visayas	2026	4	15	11	108	150	150	20
Visayas	2026	4	15	12	103	150	150	20
Visayas	2026	4	15	13	105	150	150	20
Visayas	2026	4	15	14	113	150	150	20
Visayas	2026	4	15	15	113	150	150	20
Visayas	2026	4	15	16	113	150	150	20
Visayas	2026	4	15	17	105	150	150	20
Visayas	2026	4	15	18	106	150	150	20
Visayas	2026	4	15	19	108	150	150	20
Visayas	2026	4	15	20	101	150	150	20
Visayas	2026	4	15	21	97	150	150	20
Visayas	2026	4	15	22	90	150	150	20
Visayas	2026	4	15	23	82	150	150	20
Visayas	2026	4	15	24	75	150	150	20
Visayas	2026	4	16	1	69	150	150	20
Visayas	2026	4	16	2	66	150	150	20
Visayas	2026	4	16	3	63	150	150	20
Visayas	2026	4	16	4	61	150	150	20
Visayas	2026	4	16	5	65	150	150	20
Visayas	2026	4	16	6	70	150	150	20
Visayas	2026	4	16	7	65	150	150	20
Visayas	2026	4	16	8	79	150	150	20
Visayas	2026	4	16	9	100	150	150	20
Visayas	2026	4	16	10	107	150	150	20
Visayas	2026	4	16	11	113	150	150	20
Visayas	2026	4	16	12	110	150	150	20
Visayas	2026	4	16	13	109	150	150	20
Visayas	2026	4	16	14	117	150	150	20
Visayas	2026	4	16	15	119	150	150	20
Visayas	2026	4	16	16	115	150	150	20
Visayas	2026	4	16	17	106	150	150	20
Visayas	2026	4	16	18	107	150	150	20
Visayas	2026	4	16	19	111	150	150	20
Visayas	2026	4	16	20	105	150	150	20
Visayas	2026	4	16	21	101	150	150	20
Visayas	2026	4	16	22	92	150	150	20
Visayas	2026	4	16	23	86	150	150	20
Visayas	2026	4	16	24	78	150	150	20
Visayas	2026	4	17	1	74	150	150	20
Visayas	2026	4	17	2	70	150	150	20
Visayas	2026	4	17	3	67	150	150	20
Visayas	2026	4	17	4	64	150	150	20
Visayas	2026	4	17	5	68	150	150	20
Visayas	2026	4	17	6	74	150	150	20
Visayas	2026	4	17	7	68	150	150	20
Visayas	2026	4	17	8	83	150	150	20
Visayas	2026	4	17	9	104	150	150	20
Visayas	2026	4	17	10	115	150	150	20
Visayas	2026	4	17	11	118	150	150	20
Visayas	2026	4	17	12	116	150	150	20
Visayas	2026	4	17	13	117	150	150	20
Visayas	2026	4	17	14	122	150	150	20
Visayas	2026	4	17	15	120	150	150	20
Visayas	2026	4	17	16	116	150	150	20
Visayas	2026	4	17	17	108	150	150	20
Visayas	2026	4	17	18	107	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	17	19	112	150	150	20
Visayas	2026	4	17	20	106	150	150	20
Visayas	2026	4	17	21	103	150	150	20
Visayas	2026	4	17	22	93	150	150	20
Visayas	2026	4	17	23	86	150	150	20
Visayas	2026	4	17	24	80	150	150	20
Visayas	2026	4	18	1	76	150	150	20
Visayas	2026	4	18	2	73	150	150	20
Visayas	2026	4	18	3	69	150	150	20
Visayas	2026	4	18	4	67	150	150	20
Visayas	2026	4	18	5	67	150	150	20
Visayas	2026	4	18	6	69	150	150	20
Visayas	2026	4	18	7	65	150	150	20
Visayas	2026	4	18	8	77	150	150	20
Visayas	2026	4	18	9	93	150	150	20
Visayas	2026	4	18	10	100	150	150	20
Visayas	2026	4	18	11	107	150	150	20
Visayas	2026	4	18	12	105	150	150	20
Visayas	2026	4	18	13	106	150	150	20
Visayas	2026	4	18	14	111	150	150	20
Visayas	2026	4	18	15	109	150	150	20
Visayas	2026	4	18	16	106	150	150	20
Visayas	2026	4	18	17	99	150	150	20
Visayas	2026	4	18	18	99	150	150	20
Visayas	2026	4	18	19	110	150	150	20
Visayas	2026	4	18	20	106	150	150	20
Visayas	2026	4	18	21	100	150	150	20
Visayas	2026	4	18	22	96	150	150	20
Visayas	2026	4	18	23	89	150	150	20
Visayas	2026	4	18	24	84	150	150	20
Visayas	2026	4	19	1	81	150	150	20
Visayas	2026	4	19	2	75	150	150	20
Visayas	2026	4	19	3	72	150	150	20
Visayas	2026	4	19	4	65	150	150	20
Visayas	2026	4	19	5	66	150	150	20
Visayas	2026	4	19	6	66	150	150	20
Visayas	2026	4	19	7	64	150	150	20
Visayas	2026	4	19	8	69	150	150	20
Visayas	2026	4	19	9	77	150	150	20
Visayas	2026	4	19	10	84	150	150	20
Visayas	2026	4	19	11	89	150	150	20
Visayas	2026	4	19	12	89	150	150	20
Visayas	2026	4	19	13	92	150	150	20
Visayas	2026	4	19	14	94	150	150	20
Visayas	2026	4	19	15	93	150	150	20
Visayas	2026	4	19	16	89	150	150	20
Visayas	2026	4	19	17	87	150	150	20
Visayas	2026	4	19	18	94	150	150	20
Visayas	2026	4	19	19	105	150	150	20
Visayas	2026	4	19	20	103	150	150	20
Visayas	2026	4	19	21	100	150	150	20
Visayas	2026	4	19	22	95	150	150	20
Visayas	2026	4	19	23	87	150	150	20
Visayas	2026	4	19	24	82	150	150	20
Visayas	2026	4	20	1	76	150	150	20
Visayas	2026	4	20	2	72	150	150	20
Visayas	2026	4	20	3	70	150	150	20
Visayas	2026	4	20	4	69	150	150	20
Visayas	2026	4	20	5	72	150	150	20
Visayas	2026	4	20	6	76	150	150	20
Visayas	2026	4	20	7	72	150	150	20
Visayas	2026	4	20	8	87	150	150	20
Visayas	2026	4	20	9	109	150	150	20
Visayas	2026	4	20	10	116	150	150	20
Visayas	2026	4	20	11	121	150	150	20
Visayas	2026	4	20	12	122	150	150	20
Visayas	2026	4	20	13	123	150	150	20
Visayas	2026	4	20	14	128	150	150	20
Visayas	2026	4	20	15	128	150	150	20
Visayas	2026	4	20	16	125	150	150	20
Visayas	2026	4	20	17	117	150	150	20
Visayas	2026	4	20	18	115	150	150	20
Visayas	2026	4	20	19	121	150	150	20
Visayas	2026	4	20	20	115	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	20	21	111	150	150	20
Visayas	2026	4	20	22	103	150	150	20
Visayas	2026	4	20	23	96	150	150	20
Visayas	2026	4	20	24	89	150	150	20
Visayas	2026	4	21	1	84	150	150	20
Visayas	2026	4	21	2	81	150	150	20
Visayas	2026	4	21	3	77	150	150	20
Visayas	2026	4	21	4	76	150	150	20
Visayas	2026	4	21	5	79	150	150	20
Visayas	2026	4	21	6	81	150	150	20
Visayas	2026	4	21	7	77	150	150	20
Visayas	2026	4	21	8	91	150	150	20
Visayas	2026	4	21	9	110	150	150	20
Visayas	2026	4	21	10	117	150	150	20
Visayas	2026	4	21	11	123	150	150	20
Visayas	2026	4	21	12	121	150	150	20
Visayas	2026	4	21	13	122	150	150	20
Visayas	2026	4	21	14	128	150	150	20
Visayas	2026	4	21	15	126	150	150	20
Visayas	2026	4	21	16	124	150	150	20
Visayas	2026	4	21	17	113	150	150	20
Visayas	2026	4	21	18	114	150	150	20
Visayas	2026	4	21	19	118	150	150	20
Visayas	2026	4	21	20	113	150	150	20
Visayas	2026	4	21	21	110	150	150	20
Visayas	2026	4	21	22	102	150	150	20
Visayas	2026	4	21	23	95	150	150	20
Visayas	2026	4	21	24	88	150	150	20
Visayas	2026	4	22	1	83	150	150	20
Visayas	2026	4	22	2	79	150	150	20
Visayas	2026	4	22	3	75	150	150	20
Visayas	2026	4	22	4	74	150	150	20
Visayas	2026	4	22	5	76	150	150	20
Visayas	2026	4	22	6	78	150	150	20
Visayas	2026	4	22	7	74	150	150	20
Visayas	2026	4	22	8	90	150	150	20
Visayas	2026	4	22	9	109	150	150	20
Visayas	2026	4	22	10	116	150	150	20
Visayas	2026	4	22	11	119	150	150	20
Visayas	2026	4	22	12	118	150	150	20
Visayas	2026	4	22	13	121	150	150	20
Visayas	2026	4	22	14	127	150	150	20
Visayas	2026	4	22	15	127	150	150	20
Visayas	2026	4	22	16	124	150	150	20
Visayas	2026	4	22	17	113	150	150	20
Visayas	2026	4	22	18	113	150	150	20
Visayas	2026	4	22	19	119	150	150	20
Visayas	2026	4	22	20	115	150	150	20
Visayas	2026	4	22	21	112	150	150	20
Visayas	2026	4	22	22	104	150	150	20
Visayas	2026	4	22	23	96	150	150	20
Visayas	2026	4	22	24	90	150	150	20
Visayas	2026	4	23	1	86	150	150	20
Visayas	2026	4	23	2	81	150	150	20
Visayas	2026	4	23	3	77	150	150	20
Visayas	2026	4	23	4	75	150	150	20
Visayas	2026	4	23	5	77	150	150	20
Visayas	2026	4	23	6	78	150	150	20
Visayas	2026	4	23	7	75	150	150	20
Visayas	2026	4	23	8	91	150	150	20
Visayas	2026	4	23	9	110	150	150	20
Visayas	2026	4	23	10	119	150	150	20
Visayas	2026	4	23	11	123	150	150	20
Visayas	2026	4	23	12	118	150	150	20
Visayas	2026	4	23	13	120	150	150	20
Visayas	2026	4	23	14	127	150	150	20
Visayas	2026	4	23	15	126	150	150	20
Visayas	2026	4	23	16	121	150	150	20
Visayas	2026	4	23	17	111	150	150	20
Visayas	2026	4	23	18	111	150	150	20
Visayas	2026	4	23	19	119	150	150	20
Visayas	2026	4	23	20	110	150	150	20
Visayas	2026	4	23	21	111	150	150	20
Visayas	2026	4	23	22	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	23	23	97	150	150	20
Visayas	2026	4	23	24	90	150	150	20
Visayas	2026	4	24	1	86	150	150	20
Visayas	2026	4	24	2	83	150	150	20
Visayas	2026	4	24	3	79	150	150	20
Visayas	2026	4	24	4	76	150	150	20
Visayas	2026	4	24	5	75	150	150	20
Visayas	2026	4	24	6	76	150	150	20
Visayas	2026	4	24	7	76	150	150	20
Visayas	2026	4	24	8	86	150	150	20
Visayas	2026	4	24	9	98	150	150	20
Visayas	2026	4	24	10	107	150	150	20
Visayas	2026	4	24	11	112	150	150	20
Visayas	2026	4	24	12	107	150	150	20
Visayas	2026	4	24	13	112	150	150	20
Visayas	2026	4	24	14	114	150	150	20
Visayas	2026	4	24	15	112	150	150	20
Visayas	2026	4	24	16	105	150	150	20
Visayas	2026	4	24	17	101	150	150	20
Visayas	2026	4	24	18	105	150	150	20
Visayas	2026	4	24	19	110	150	150	20
Visayas	2026	4	24	20	108	150	150	20
Visayas	2026	4	24	21	106	150	150	20
Visayas	2026	4	24	22	99	150	150	20
Visayas	2026	4	24	23	92	150	150	20
Visayas	2026	4	24	24	85	150	150	20
Visayas	2026	4	25	1	82	150	150	20
Visayas	2026	4	25	2	78	150	150	20
Visayas	2026	4	25	3	73	150	150	20
Visayas	2026	4	25	4	70	150	150	20
Visayas	2026	4	25	5	70	150	150	20
Visayas	2026	4	25	6	69	150	150	20
Visayas	2026	4	25	7	65	150	150	20
Visayas	2026	4	25	8	74	150	150	20
Visayas	2026	4	25	9	86	150	150	20
Visayas	2026	4	25	10	95	150	150	20
Visayas	2026	4	25	11	100	150	150	20
Visayas	2026	4	25	12	98	150	150	20
Visayas	2026	4	25	13	97	150	150	20
Visayas	2026	4	25	14	103	150	150	20
Visayas	2026	4	25	15	102	150	150	20
Visayas	2026	4	25	16	99	150	150	20
Visayas	2026	4	25	17	92	150	150	20
Visayas	2026	4	25	18	102	150	150	20
Visayas	2026	4	25	19	111	150	150	20
Visayas	2026	4	25	20	105	150	150	20
Visayas	2026	4	25	21	103	150	150	20
Visayas	2026	4	25	22	96	150	150	20
Visayas	2026	4	25	23	92	150	150	20
Visayas	2026	4	25	24	86	150	150	20
Visayas	2026	4	26	1	82	150	150	20
Visayas	2026	4	26	2	79	150	150	20
Visayas	2026	4	26	3	75	150	150	20
Visayas	2026	4	26	4	69	150	150	20
Visayas	2026	4	26	5	71	150	150	20
Visayas	2026	4	26	6	69	150	150	20
Visayas	2026	4	26	7	66	150	150	20
Visayas	2026	4	26	8	71	150	150	20
Visayas	2026	4	26	9	80	150	150	20
Visayas	2026	4	26	10	87	150	150	20
Visayas	2026	4	26	11	92	150	150	20
Visayas	2026	4	26	12	91	150	150	20
Visayas	2026	4	26	13	92	150	150	20
Visayas	2026	4	26	14	94	150	150	20
Visayas	2026	4	26	15	93	150	150	20
Visayas	2026	4	26	16	90	150	150	20
Visayas	2026	4	26	17	85	150	150	20
Visayas	2026	4	26	18	97	150	150	20
Visayas	2026	4	26	19	105	150	150	20
Visayas	2026	4	26	20	106	150	150	20
Visayas	2026	4	26	21	105	150	150	20
Visayas	2026	4	26	22	99	150	150	20
Visayas	2026	4	26	23	94	150	150	20
Visayas	2026	4	26	24	88	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	27	1	82	150	150	20
Visayas	2026	4	27	2	77	150	150	20
Visayas	2026	4	27	3	73	150	150	20
Visayas	2026	4	27	4	71	150	150	20
Visayas	2026	4	27	5	74	150	150	20
Visayas	2026	4	27	6	76	150	150	20
Visayas	2026	4	27	7	74	150	150	20
Visayas	2026	4	27	8	90	150	150	20
Visayas	2026	4	27	9	110	150	150	20
Visayas	2026	4	27	10	119	150	150	20
Visayas	2026	4	27	11	124	150	150	20
Visayas	2026	4	27	12	122	150	150	20
Visayas	2026	4	27	13	123	150	150	20
Visayas	2026	4	27	14	127	150	150	20
Visayas	2026	4	27	15	126	150	150	20
Visayas	2026	4	27	16	123	150	150	20
Visayas	2026	4	27	17	111	150	150	20
Visayas	2026	4	27	18	112	150	150	20
Visayas	2026	4	27	19	118	150	150	20
Visayas	2026	4	27	20	112	150	150	20
Visayas	2026	4	27	21	109	150	150	20
Visayas	2026	4	27	22	104	150	150	20
Visayas	2026	4	27	23	96	150	150	20
Visayas	2026	4	27	24	90	150	150	20
Visayas	2026	4	28	1	84	150	150	20
Visayas	2026	4	28	2	80	150	150	20
Visayas	2026	4	28	3	76	150	150	20
Visayas	2026	4	28	4	74	150	150	20
Visayas	2026	4	28	5	75	150	150	20
Visayas	2026	4	28	6	77	150	150	20
Visayas	2026	4	28	7	74	150	150	20
Visayas	2026	4	28	8	90	150	150	20
Visayas	2026	4	28	9	109	150	150	20
Visayas	2026	4	28	10	117	150	150	20
Visayas	2026	4	28	11	119	150	150	20
Visayas	2026	4	28	12	117	150	150	20
Visayas	2026	4	28	13	117	150	150	20
Visayas	2026	4	28	14	121	150	150	20
Visayas	2026	4	28	15	119	150	150	20
Visayas	2026	4	28	16	115	150	150	20
Visayas	2026	4	28	17	107	150	150	20
Visayas	2026	4	28	18	109	150	150	20
Visayas	2026	4	28	19	116	150	150	20
Visayas	2026	4	28	20	110	150	150	20
Visayas	2026	4	28	21	106	150	150	20
Visayas	2026	4	28	22	98	150	150	20
Visayas	2026	4	28	23	92	150	150	20
Visayas	2026	4	28	24	85	150	150	20
Visayas	2026	4	29	1	81	150	150	20
Visayas	2026	4	29	2	77	150	150	20
Visayas	2026	4	29	3	73	150	150	20
Visayas	2026	4	29	4	71	150	150	20
Visayas	2026	4	29	5	74	150	150	20
Visayas	2026	4	29	6	76	150	150	20
Visayas	2026	4	29	7	73	150	150	20
Visayas	2026	4	29	8	90	150	150	20
Visayas	2026	4	29	9	109	150	150	20
Visayas	2026	4	29	10	118	150	150	20
Visayas	2026	4	29	11	123	150	150	20
Visayas	2026	4	29	12	120	150	150	20
Visayas	2026	4	29	13	123	150	150	20
Visayas	2026	4	29	14	130	150	150	20
Visayas	2026	4	29	15	126	150	150	20
Visayas	2026	4	29	16	121	150	150	20
Visayas	2026	4	29	17	113	150	150	20
Visayas	2026	4	29	18	112	150	150	20
Visayas	2026	4	29	19	117	150	150	20
Visayas	2026	4	29	20	113	150	150	20
Visayas	2026	4	29	21	109	150	150	20
Visayas	2026	4	29	22	103	150	150	20
Visayas	2026	4	29	23	96	150	150	20
Visayas	2026	4	29	24	89	150	150	20
Visayas	2026	4	30	1	84	150	150	20
Visayas	2026	4	30	2	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	4	30	3	78	150	150	20
Visayas	2026	4	30	4	76	150	150	20
Visayas	2026	4	30	5	78	150	150	20
Visayas	2026	4	30	6	79	150	150	20
Visayas	2026	4	30	7	76	150	150	20
Visayas	2026	4	30	8	91	150	150	20
Visayas	2026	4	30	9	111	150	150	20
Visayas	2026	4	30	10	120	150	150	20
Visayas	2026	4	30	11	124	150	150	20
Visayas	2026	4	30	12	121	150	150	20
Visayas	2026	4	30	13	123	150	150	20
Visayas	2026	4	30	14	83	150	150	20
Visayas	2026	4	30	15	94	150	150	20
Visayas	2026	4	30	16	99	150	150	20
Visayas	2026	4	30	17	82	150	150	20
Visayas	2026	4	30	18	89	150	150	20
Visayas	2026	4	30	19	96	150	150	20
Visayas	2026	4	30	20	99	150	150	20
Visayas	2026	4	30	21	101	150	150	20
Visayas	2026	4	30	22	101	150	150	20
Visayas	2026	4	30	23	97	150	150	20
Visayas	2026	4	30	24	92	150	150	20
Visayas	2026	5	1	1	75	150	150	20
Visayas	2026	5	1	2	72	150	150	20
Visayas	2026	5	1	3	68	150	150	20
Visayas	2026	5	1	4	66	150	150	20
Visayas	2026	5	1	5	66	150	150	20
Visayas	2026	5	1	6	66	150	150	20
Visayas	2026	5	1	7	66	150	150	20
Visayas	2026	5	1	8	74	150	150	20
Visayas	2026	5	1	9	84	150	150	20
Visayas	2026	5	1	10	91	150	150	20
Visayas	2026	5	1	11	96	150	150	20
Visayas	2026	5	1	12	97	150	150	20
Visayas	2026	5	1	13	99	150	150	20
Visayas	2026	5	1	14	103	150	150	20
Visayas	2026	5	1	15	103	150	150	20
Visayas	2026	5	1	16	101	150	150	20
Visayas	2026	5	1	17	96	150	150	20
Visayas	2026	5	1	18	100	150	150	20
Visayas	2026	5	1	19	109	150	150	20
Visayas	2026	5	1	20	107	150	150	20
Visayas	2026	5	1	21	104	150	150	20
Visayas	2026	5	1	22	100	150	150	20
Visayas	2026	5	1	23	93	150	150	20
Visayas	2026	5	1	24	87	150	150	20
Visayas	2026	5	2	1	80	150	150	20
Visayas	2026	5	2	2	78	150	150	20
Visayas	2026	5	2	3	62	150	150	20
Visayas	2026	5	2	4	61	150	150	20
Visayas	2026	5	2	5	61	150	150	20
Visayas	2026	5	2	6	62	150	150	20
Visayas	2026	5	2	7	65	150	150	20
Visayas	2026	5	2	8	79	150	150	20
Visayas	2026	5	2	9	71	150	150	20
Visayas	2026	5	2	10	85	150	150	20
Visayas	2026	5	2	11	89	150	150	20
Visayas	2026	5	2	12	88	150	150	20
Visayas	2026	5	2	13	91	150	150	20
Visayas	2026	5	2	14	95	150	150	20
Visayas	2026	5	2	15	99	150	150	20
Visayas	2026	5	2	16	99	150	150	20
Visayas	2026	5	2	17	92	150	150	20
Visayas	2026	5	2	18	97	150	150	20
Visayas	2026	5	2	19	99	150	150	20
Visayas	2026	5	2	20	98	150	150	20
Visayas	2026	5	2	21	93	150	150	20
Visayas	2026	5	2	22	88	150	150	20
Visayas	2026	5	2	23	82	150	150	20
Visayas	2026	5	2	24	78	150	150	20
Visayas	2026	5	3	1	74	150	150	20
Visayas	2026	5	3	2	73	150	150	20
Visayas	2026	5	3	3	71	150	150	20
Visayas	2026	5	3	4	69	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	3	5	68	150	150	20
Visayas	2026	5	3	6	67	150	150	20
Visayas	2026	5	3	7	65	150	150	20
Visayas	2026	5	3	8	70	150	150	20
Visayas	2026	5	3	9	79	150	150	20
Visayas	2026	5	3	10	86	150	150	20
Visayas	2026	5	3	11	89	150	150	20
Visayas	2026	5	3	12	89	150	150	20
Visayas	2026	5	3	13	88	150	150	20
Visayas	2026	5	3	14	90	150	150	20
Visayas	2026	5	3	15	87	150	150	20
Visayas	2026	5	3	16	83	150	150	20
Visayas	2026	5	3	17	86	150	150	20
Visayas	2026	5	3	18	95	150	150	20
Visayas	2026	5	3	19	98	150	150	20
Visayas	2026	5	3	20	96	150	150	20
Visayas	2026	5	3	21	94	150	150	20
Visayas	2026	5	3	22	90	150	150	20
Visayas	2026	5	3	23	85	150	150	20
Visayas	2026	5	3	24	78	150	150	20
Visayas	2026	5	4	1	77	150	150	20
Visayas	2026	5	4	2	74	150	150	20
Visayas	2026	5	4	3	70	150	150	20
Visayas	2026	5	4	4	69	150	150	20
Visayas	2026	5	4	5	71	150	150	20
Visayas	2026	5	4	6	73	150	150	20
Visayas	2026	5	4	7	72	150	150	20
Visayas	2026	5	4	8	90	150	150	20
Visayas	2026	5	4	9	108	150	150	20
Visayas	2026	5	4	10	117	150	150	20
Visayas	2026	5	4	11	122	150	150	20
Visayas	2026	5	4	12	121	150	150	20
Visayas	2026	5	4	13	125	150	150	20
Visayas	2026	5	4	14	128	150	150	20
Visayas	2026	5	4	15	126	150	150	20
Visayas	2026	5	4	16	122	150	150	20
Visayas	2026	5	4	17	113	150	150	20
Visayas	2026	5	4	18	112	150	150	20
Visayas	2026	5	4	19	117	150	150	20
Visayas	2026	5	4	20	113	150	150	20
Visayas	2026	5	4	21	110	150	150	20
Visayas	2026	5	4	22	102	150	150	20
Visayas	2026	5	4	23	95	150	150	20
Visayas	2026	5	4	24	88	150	150	20
Visayas	2026	5	5	1	83	150	150	20
Visayas	2026	5	5	2	79	150	150	20
Visayas	2026	5	5	3	75	150	150	20
Visayas	2026	5	5	4	72	150	150	20
Visayas	2026	5	5	5	74	150	150	20
Visayas	2026	5	5	6	76	150	150	20
Visayas	2026	5	5	7	74	150	150	20
Visayas	2026	5	5	8	90	150	150	20
Visayas	2026	5	5	9	109	150	150	20
Visayas	2026	5	5	10	117	150	150	20
Visayas	2026	5	5	11	120	150	150	20
Visayas	2026	5	5	12	118	150	150	20
Visayas	2026	5	5	13	119	150	150	20
Visayas	2026	5	5	14	124	150	150	20
Visayas	2026	5	5	15	119	150	150	20
Visayas	2026	5	5	16	118	150	150	20
Visayas	2026	5	5	17	110	150	150	20
Visayas	2026	5	5	18	111	150	150	20
Visayas	2026	5	5	19	113	150	150	20
Visayas	2026	5	5	20	105	150	150	20
Visayas	2026	5	5	21	103	150	150	20
Visayas	2026	5	5	22	96	150	150	20
Visayas	2026	5	5	23	89	150	150	20
Visayas	2026	5	5	24	83	150	150	20
Visayas	2026	5	6	1	78	150	150	20
Visayas	2026	5	6	2	72	150	150	20
Visayas	2026	5	6	3	70	150	150	20
Visayas	2026	5	6	4	68	150	150	20
Visayas	2026	5	6	5	72	150	150	20
Visayas	2026	5	6	6	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	6	7	73	150	150	20
Visayas	2026	5	6	8	84	150	150	20
Visayas	2026	5	6	9	100	150	150	20
Visayas	2026	5	6	10	105	150	150	20
Visayas	2026	5	6	11	107	150	150	20
Visayas	2026	5	6	12	102	150	150	20
Visayas	2026	5	6	13	101	150	150	20
Visayas	2026	5	6	14	105	150	150	20
Visayas	2026	5	6	15	104	150	150	20
Visayas	2026	5	6	16	102	150	150	20
Visayas	2026	5	6	17	99	150	150	20
Visayas	2026	5	6	18	102	150	150	20
Visayas	2026	5	6	19	99	150	150	20
Visayas	2026	5	6	20	93	150	150	20
Visayas	2026	5	6	21	86	150	150	20
Visayas	2026	5	6	22	79	150	150	20
Visayas	2026	5	6	23	74	150	150	20
Visayas	2026	5	6	24	70	150	150	20
Visayas	2026	5	7	1	67	150	150	20
Visayas	2026	5	7	2	64	150	150	20
Visayas	2026	5	7	3	62	150	150	20
Visayas	2026	5	7	4	62	150	150	20
Visayas	2026	5	7	5	64	150	150	20
Visayas	2026	5	7	6	69	150	150	20
Visayas	2026	5	7	7	67	150	150	20
Visayas	2026	5	7	8	82	150	150	20
Visayas	2026	5	7	9	98	150	150	20
Visayas	2026	5	7	10	108	150	150	20
Visayas	2026	5	7	11	112	150	150	20
Visayas	2026	5	7	12	110	150	150	20
Visayas	2026	5	7	13	111	150	150	20
Visayas	2026	5	7	14	118	150	150	20
Visayas	2026	5	7	15	115	150	150	20
Visayas	2026	5	7	16	109	150	150	20
Visayas	2026	5	7	17	104	150	150	20
Visayas	2026	5	7	18	107	150	150	20
Visayas	2026	5	7	19	106	150	150	20
Visayas	2026	5	7	20	101	150	150	20
Visayas	2026	5	7	21	96	150	150	20
Visayas	2026	5	7	22	89	150	150	20
Visayas	2026	5	7	23	82	150	150	20
Visayas	2026	5	7	24	77	150	150	20
Visayas	2026	5	8	1	70	150	150	20
Visayas	2026	5	8	2	69	150	150	20
Visayas	2026	5	8	3	65	150	150	20
Visayas	2026	5	8	4	65	150	150	20
Visayas	2026	5	8	5	68	150	150	20
Visayas	2026	5	8	6	71	150	150	20
Visayas	2026	5	8	7	71	150	150	20
Visayas	2026	5	8	8	86	150	150	20
Visayas	2026	5	8	9	102	150	150	20
Visayas	2026	5	8	10	112	150	150	20
Visayas	2026	5	8	11	120	150	150	20
Visayas	2026	5	8	12	117	150	150	20
Visayas	2026	5	8	13	109	150	150	20
Visayas	2026	5	8	14	123	150	150	20
Visayas	2026	5	8	15	122	150	150	20
Visayas	2026	5	8	16	118	150	150	20
Visayas	2026	5	8	17	107	150	150	20
Visayas	2026	5	8	18	111	150	150	20
Visayas	2026	5	8	19	108	150	150	20
Visayas	2026	5	8	20	104	150	150	20
Visayas	2026	5	8	21	101	150	150	20
Visayas	2026	5	8	22	94	150	150	20
Visayas	2026	5	8	23	87	150	150	20
Visayas	2026	5	8	24	82	150	150	20
Visayas	2026	5	9	1	77	150	150	20
Visayas	2026	5	9	2	74	150	150	20
Visayas	2026	5	9	3	71	150	150	20
Visayas	2026	5	9	4	68	150	150	20
Visayas	2026	5	9	5	68	150	150	20
Visayas	2026	5	9	6	68	150	150	20
Visayas	2026	5	9	7	66	150	150	20
Visayas	2026	5	9	8	80	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	9	9	91	150	150	20
Visayas	2026	5	9	10	100	150	150	20
Visayas	2026	5	9	11	105	150	150	20
Visayas	2026	5	9	12	103	150	150	20
Visayas	2026	5	9	13	106	150	150	20
Visayas	2026	5	9	14	109	150	150	20
Visayas	2026	5	9	15	105	150	150	20
Visayas	2026	5	9	16	103	150	150	20
Visayas	2026	5	9	17	95	150	150	20
Visayas	2026	5	9	18	103	150	150	20
Visayas	2026	5	9	19	107	150	150	20
Visayas	2026	5	9	20	102	150	150	20
Visayas	2026	5	9	21	99	150	150	20
Visayas	2026	5	9	22	93	150	150	20
Visayas	2026	5	9	23	86	150	150	20
Visayas	2026	5	9	24	81	150	150	20
Visayas	2026	5	10	1	75	150	150	20
Visayas	2026	5	10	2	72	150	150	20
Visayas	2026	5	10	3	68	150	150	20
Visayas	2026	5	10	4	66	150	150	20
Visayas	2026	5	10	5	65	150	150	20
Visayas	2026	5	10	6	64	150	150	20
Visayas	2026	5	10	7	63	150	150	20
Visayas	2026	5	10	8	68	150	150	20
Visayas	2026	5	10	9	76	150	150	20
Visayas	2026	5	10	10	83	150	150	20
Visayas	2026	5	10	11	88	150	150	20
Visayas	2026	5	10	12	87	150	150	20
Visayas	2026	5	10	13	89	150	150	20
Visayas	2026	5	10	14	92	150	150	20
Visayas	2026	5	10	15	93	150	150	20
Visayas	2026	5	10	16	90	150	150	20
Visayas	2026	5	10	17	88	150	150	20
Visayas	2026	5	10	18	93	150	150	20
Visayas	2026	5	10	19	103	150	150	20
Visayas	2026	5	10	20	106	150	150	20
Visayas	2026	5	10	21	101	150	150	20
Visayas	2026	5	10	22	96	150	150	20
Visayas	2026	5	10	23	89	150	150	20
Visayas	2026	5	10	24	83	150	150	20
Visayas	2026	5	11	1	77	150	150	20
Visayas	2026	5	11	2	74	150	150	20
Visayas	2026	5	11	3	70	150	150	20
Visayas	2026	5	11	4	69	150	150	20
Visayas	2026	5	11	5	71	150	150	20
Visayas	2026	5	11	6	73	150	150	20
Visayas	2026	5	11	7	72	150	150	20
Visayas	2026	5	11	8	90	150	150	20
Visayas	2026	5	11	9	108	150	150	20
Visayas	2026	5	11	10	117	150	150	20
Visayas	2026	5	11	11	122	150	150	20
Visayas	2026	5	11	12	121	150	150	20
Visayas	2026	5	11	13	125	150	150	20
Visayas	2026	5	11	14	128	150	150	20
Visayas	2026	5	11	15	126	150	150	20
Visayas	2026	5	11	16	122	150	150	20
Visayas	2026	5	11	17	113	150	150	20
Visayas	2026	5	11	18	112	150	150	20
Visayas	2026	5	11	19	117	150	150	20
Visayas	2026	5	11	20	113	150	150	20
Visayas	2026	5	11	21	110	150	150	20
Visayas	2026	5	11	22	102	150	150	20
Visayas	2026	5	11	23	95	150	150	20
Visayas	2026	5	11	24	88	150	150	20
Visayas	2026	5	12	1	83	150	150	20
Visayas	2026	5	12	2	79	150	150	20
Visayas	2026	5	12	3	75	150	150	20
Visayas	2026	5	12	4	73	150	150	20
Visayas	2026	5	12	5	76	150	150	20
Visayas	2026	5	12	6	74	150	150	20
Visayas	2026	5	12	7	74	150	150	20
Visayas	2026	5	12	8	92	150	150	20
Visayas	2026	5	12	9	113	150	150	20
Visayas	2026	5	12	10	120	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	12	11	125	150	150	20
Visayas	2026	5	12	12	122	150	150	20
Visayas	2026	5	12	13	125	150	150	20
Visayas	2026	5	12	14	129	150	150	20
Visayas	2026	5	12	15	129	150	150	20
Visayas	2026	5	12	16	127	150	150	20
Visayas	2026	5	12	17	115	150	150	20
Visayas	2026	5	12	18	114	150	150	20
Visayas	2026	5	12	19	120	150	150	20
Visayas	2026	5	12	20	116	150	150	20
Visayas	2026	5	12	21	111	150	150	20
Visayas	2026	5	12	22	104	150	150	20
Visayas	2026	5	12	23	96	150	150	20
Visayas	2026	5	12	24	89	150	150	20
Visayas	2026	5	13	1	83	150	150	20
Visayas	2026	5	13	2	80	150	150	20
Visayas	2026	5	13	3	75	150	150	20
Visayas	2026	5	13	4	73	150	150	20
Visayas	2026	5	13	5	77	150	150	20
Visayas	2026	5	13	6	77	150	150	20
Visayas	2026	5	13	7	75	150	150	20
Visayas	2026	5	13	8	92	150	150	20
Visayas	2026	5	13	9	112	150	150	20
Visayas	2026	5	13	10	120	150	150	20
Visayas	2026	5	13	11	125	150	150	20
Visayas	2026	5	13	12	123	150	150	20
Visayas	2026	5	13	13	125	150	150	20
Visayas	2026	5	13	14	131	150	150	20
Visayas	2026	5	13	15	131	150	150	20
Visayas	2026	5	13	16	127	150	150	20
Visayas	2026	5	13	17	117	150	150	20
Visayas	2026	5	13	18	115	150	150	20
Visayas	2026	5	13	19	121	150	150	20
Visayas	2026	5	13	20	117	150	150	20
Visayas	2026	5	13	21	113	150	150	20
Visayas	2026	5	13	22	105	150	150	20
Visayas	2026	5	13	23	98	150	150	20
Visayas	2026	5	13	24	91	150	150	20
Visayas	2026	5	14	1	85	150	150	20
Visayas	2026	5	14	2	81	150	150	20
Visayas	2026	5	14	3	78	150	150	20
Visayas	2026	5	14	4	75	150	150	20
Visayas	2026	5	14	5	78	150	150	20
Visayas	2026	5	14	6	77	150	150	20
Visayas	2026	5	14	7	77	150	150	20
Visayas	2026	5	14	8	95	150	150	20
Visayas	2026	5	14	9	114	150	150	20
Visayas	2026	5	14	10	123	150	150	20
Visayas	2026	5	14	11	127	150	150	20
Visayas	2026	5	14	12	125	150	150	20
Visayas	2026	5	14	13	127	150	150	20
Visayas	2026	5	14	14	127	150	150	20
Visayas	2026	5	14	15	128	150	150	20
Visayas	2026	5	14	16	127	150	150	20
Visayas	2026	5	14	17	118	150	150	20
Visayas	2026	5	14	18	117	150	150	20
Visayas	2026	5	14	19	122	150	150	20
Visayas	2026	5	14	20	119	150	150	20
Visayas	2026	5	14	21	115	150	150	20
Visayas	2026	5	14	22	106	150	150	20
Visayas	2026	5	14	23	99	150	150	20
Visayas	2026	5	14	24	92	150	150	20
Visayas	2026	5	15	1	88	150	150	20
Visayas	2026	5	15	2	83	150	150	20
Visayas	2026	5	15	3	80	150	150	20
Visayas	2026	5	15	4	78	150	150	20
Visayas	2026	5	15	5	80	150	150	20
Visayas	2026	5	15	6	80	150	150	20
Visayas	2026	5	15	7	78	150	150	20
Visayas	2026	5	15	8	94	150	150	20
Visayas	2026	5	15	9	112	150	150	20
Visayas	2026	5	15	10	121	150	150	20
Visayas	2026	5	15	11	124	150	150	20
Visayas	2026	5	15	12	122	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	15	13	125	150	150	20
Visayas	2026	5	15	14	130	150	150	20
Visayas	2026	5	15	15	129	150	150	20
Visayas	2026	5	15	16	126	150	150	20
Visayas	2026	5	15	17	116	150	150	20
Visayas	2026	5	15	18	116	150	150	20
Visayas	2026	5	15	19	120	150	150	20
Visayas	2026	5	15	20	114	150	150	20
Visayas	2026	5	15	21	108	150	150	20
Visayas	2026	5	15	22	101	150	150	20
Visayas	2026	5	15	23	94	150	150	20
Visayas	2026	5	15	24	88	150	150	20
Visayas	2026	5	16	1	84	150	150	20
Visayas	2026	5	16	2	82	150	150	20
Visayas	2026	5	16	3	79	150	150	20
Visayas	2026	5	16	4	76	150	150	20
Visayas	2026	5	16	5	76	150	150	20
Visayas	2026	5	16	6	73	150	150	20
Visayas	2026	5	16	7	73	150	150	20
Visayas	2026	5	16	8	83	150	150	20
Visayas	2026	5	16	9	95	150	150	20
Visayas	2026	5	16	10	103	150	150	20
Visayas	2026	5	16	11	108	150	150	20
Visayas	2026	5	16	12	107	150	150	20
Visayas	2026	5	16	13	109	150	150	20
Visayas	2026	5	16	14	116	150	150	20
Visayas	2026	5	16	15	112	150	150	20
Visayas	2026	5	16	16	108	150	150	20
Visayas	2026	5	16	17	102	150	150	20
Visayas	2026	5	16	18	106	150	150	20
Visayas	2026	5	16	19	113	150	150	20
Visayas	2026	5	16	20	109	150	150	20
Visayas	2026	5	16	21	107	150	150	20
Visayas	2026	5	16	22	101	150	150	20
Visayas	2026	5	16	23	94	150	150	20
Visayas	2026	5	16	24	88	150	150	20
Visayas	2026	5	17	1	82	150	150	20
Visayas	2026	5	17	2	78	150	150	20
Visayas	2026	5	17	3	75	150	150	20
Visayas	2026	5	17	4	72	150	150	20
Visayas	2026	5	17	5	70	150	150	20
Visayas	2026	5	17	6	67	150	150	20
Visayas	2026	5	17	7	68	150	150	20
Visayas	2026	5	17	8	74	150	150	20
Visayas	2026	5	17	9	82	150	150	20
Visayas	2026	5	17	10	89	150	150	20
Visayas	2026	5	17	11	90	150	150	20
Visayas	2026	5	17	12	93	150	150	20
Visayas	2026	5	17	13	95	150	150	20
Visayas	2026	5	17	14	97	150	150	20
Visayas	2026	5	17	15	95	150	150	20
Visayas	2026	5	17	16	94	150	150	20
Visayas	2026	5	17	17	92	150	150	20
Visayas	2026	5	17	18	99	150	150	20
Visayas	2026	5	17	19	106	150	150	20
Visayas	2026	5	17	20	104	150	150	20
Visayas	2026	5	17	21	103	150	150	20
Visayas	2026	5	17	22	99	150	150	20
Visayas	2026	5	17	23	93	150	150	20
Visayas	2026	5	17	24	87	150	150	20
Visayas	2026	5	18	1	81	150	150	20
Visayas	2026	5	18	2	77	150	150	20
Visayas	2026	5	18	3	73	150	150	20
Visayas	2026	5	18	4	72	150	150	20
Visayas	2026	5	18	5	74	150	150	20
Visayas	2026	5	18	6	75	150	150	20
Visayas	2026	5	18	7	75	150	150	20
Visayas	2026	5	18	8	91	150	150	20
Visayas	2026	5	18	9	111	150	150	20
Visayas	2026	5	18	10	121	150	150	20
Visayas	2026	5	18	11	125	150	150	20
Visayas	2026	5	18	12	122	150	150	20
Visayas	2026	5	18	13	124	150	150	20
Visayas	2026	5	18	14	127	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	18	15	125	150	150	20
Visayas	2026	5	18	16	122	150	150	20
Visayas	2026	5	18	17	112	150	150	20
Visayas	2026	5	18	18	109	150	150	20
Visayas	2026	5	18	19	113	150	150	20
Visayas	2026	5	18	20	108	150	150	20
Visayas	2026	5	18	21	105	150	150	20
Visayas	2026	5	18	22	98	150	150	20
Visayas	2026	5	18	23	91	150	150	20
Visayas	2026	5	18	24	85	150	150	20
Visayas	2026	5	19	1	81	150	150	20
Visayas	2026	5	19	2	77	150	150	20
Visayas	2026	5	19	3	74	150	150	20
Visayas	2026	5	19	4	72	150	150	20
Visayas	2026	5	19	5	75	150	150	20
Visayas	2026	5	19	6	75	150	150	20
Visayas	2026	5	19	7	74	150	150	20
Visayas	2026	5	19	8	91	150	150	20
Visayas	2026	5	19	9	110	150	150	20
Visayas	2026	5	19	10	120	150	150	20
Visayas	2026	5	19	11	127	150	150	20
Visayas	2026	5	19	12	124	150	150	20
Visayas	2026	5	19	13	124	150	150	20
Visayas	2026	5	19	14	129	150	150	20
Visayas	2026	5	19	15	127	150	150	20
Visayas	2026	5	19	16	122	150	150	20
Visayas	2026	5	19	17	116	150	150	20
Visayas	2026	5	19	18	116	150	150	20
Visayas	2026	5	19	19	120	150	150	20
Visayas	2026	5	19	20	115	150	150	20
Visayas	2026	5	19	21	112	150	150	20
Visayas	2026	5	19	22	104	150	150	20
Visayas	2026	5	19	23	98	150	150	20
Visayas	2026	5	19	24	89	150	150	20
Visayas	2026	5	20	1	85	150	150	20
Visayas	2026	5	20	2	81	150	150	20
Visayas	2026	5	20	3	77	150	150	20
Visayas	2026	5	20	4	75	150	150	20
Visayas	2026	5	20	5	77	150	150	20
Visayas	2026	5	20	6	76	150	150	20
Visayas	2026	5	20	7	75	150	150	20
Visayas	2026	5	20	8	94	150	150	20
Visayas	2026	5	20	9	114	150	150	20
Visayas	2026	5	20	10	123	150	150	20
Visayas	2026	5	20	11	128	150	150	20
Visayas	2026	5	20	12	125	150	150	20
Visayas	2026	5	20	13	128	150	150	20
Visayas	2026	5	20	14	134	150	150	20
Visayas	2026	5	20	15	132	150	150	20
Visayas	2026	5	20	16	129	150	150	20
Visayas	2026	5	20	17	119	150	150	20
Visayas	2026	5	20	18	118	150	150	20
Visayas	2026	5	20	19	123	150	150	20
Visayas	2026	5	20	20	118	150	150	20
Visayas	2026	5	20	21	114	150	150	20
Visayas	2026	5	20	22	107	150	150	20
Visayas	2026	5	20	23	98	150	150	20
Visayas	2026	5	20	24	91	150	150	20
Visayas	2026	5	21	1	85	150	150	20
Visayas	2026	5	21	2	81	150	150	20
Visayas	2026	5	21	3	78	150	150	20
Visayas	2026	5	21	4	76	150	150	20
Visayas	2026	5	21	5	79	150	150	20
Visayas	2026	5	21	6	78	150	150	20
Visayas	2026	5	21	7	76	150	150	20
Visayas	2026	5	21	8	95	150	150	20
Visayas	2026	5	21	9	114	150	150	20
Visayas	2026	5	21	10	123	150	150	20
Visayas	2026	5	21	11	128	150	150	20
Visayas	2026	5	21	12	125	150	150	20
Visayas	2026	5	21	13	127	150	150	20
Visayas	2026	5	21	14	130	150	150	20
Visayas	2026	5	21	15	130	150	150	20
Visayas	2026	5	21	16	125	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	21	17	116	150	150	20
Visayas	2026	5	21	18	115	150	150	20
Visayas	2026	5	21	19	120	150	150	20
Visayas	2026	5	21	20	114	150	150	20
Visayas	2026	5	21	21	111	150	150	20
Visayas	2026	5	21	22	104	150	150	20
Visayas	2026	5	21	23	96	150	150	20
Visayas	2026	5	21	24	91	150	150	20
Visayas	2026	5	22	1	84	150	150	20
Visayas	2026	5	22	2	80	150	150	20
Visayas	2026	5	22	3	77	150	150	20
Visayas	2026	5	22	4	75	150	150	20
Visayas	2026	5	22	5	77	150	150	20
Visayas	2026	5	22	6	77	150	150	20
Visayas	2026	5	22	7	77	150	150	20
Visayas	2026	5	22	8	92	150	150	20
Visayas	2026	5	22	9	109	150	150	20
Visayas	2026	5	22	10	118	150	150	20
Visayas	2026	5	22	11	124	150	150	20
Visayas	2026	5	22	12	120	150	150	20
Visayas	2026	5	22	13	123	150	150	20
Visayas	2026	5	22	14	128	150	150	20
Visayas	2026	5	22	15	126	150	150	20
Visayas	2026	5	22	16	115	150	150	20
Visayas	2026	5	22	17	106	150	150	20
Visayas	2026	5	22	18	105	150	150	20
Visayas	2026	5	22	19	107	150	150	20
Visayas	2026	5	22	20	102	150	150	20
Visayas	2026	5	22	21	99	150	150	20
Visayas	2026	5	22	22	92	150	150	20
Visayas	2026	5	22	23	86	150	150	20
Visayas	2026	5	22	24	81	150	150	20
Visayas	2026	5	23	1	77	150	150	20
Visayas	2026	5	23	2	74	150	150	20
Visayas	2026	5	23	3	71	150	150	20
Visayas	2026	5	23	4	69	150	150	20
Visayas	2026	5	23	5	69	150	150	20
Visayas	2026	5	23	6	69	150	150	20
Visayas	2026	5	23	7	67	150	150	20
Visayas	2026	5	23	8	76	150	150	20
Visayas	2026	5	23	9	90	150	150	20
Visayas	2026	5	23	10	98	150	150	20
Visayas	2026	5	23	11	104	150	150	20
Visayas	2026	5	23	12	101	150	150	20
Visayas	2026	5	23	13	102	150	150	20
Visayas	2026	5	23	14	105	150	150	20
Visayas	2026	5	23	15	105	150	150	20
Visayas	2026	5	23	16	100	150	150	20
Visayas	2026	5	23	17	97	150	150	20
Visayas	2026	5	23	18	99	150	150	20
Visayas	2026	5	23	19	104	150	150	20
Visayas	2026	5	23	20	101	150	150	20
Visayas	2026	5	23	21	97	150	150	20
Visayas	2026	5	23	22	90	150	150	20
Visayas	2026	5	23	23	85	150	150	20
Visayas	2026	5	23	24	80	150	150	20
Visayas	2026	5	24	1	76	150	150	20
Visayas	2026	5	24	2	71	150	150	20
Visayas	2026	5	24	3	68	150	150	20
Visayas	2026	5	24	4	66	150	150	20
Visayas	2026	5	24	5	66	150	150	20
Visayas	2026	5	24	6	64	150	150	20
Visayas	2026	5	24	7	64	150	150	20
Visayas	2026	5	24	8	69	150	150	20
Visayas	2026	5	24	9	76	150	150	20
Visayas	2026	5	24	10	83	150	150	20
Visayas	2026	5	24	11	86	150	150	20
Visayas	2026	5	24	12	83	150	150	20
Visayas	2026	5	24	13	84	150	150	20
Visayas	2026	5	24	14	84	150	150	20
Visayas	2026	5	24	15	85	150	150	20
Visayas	2026	5	24	16	85	150	150	20
Visayas	2026	5	24	17	85	150	150	20
Visayas	2026	5	24	18	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	24	19	100	150	150	20
Visayas	2026	5	24	20	96	150	150	20
Visayas	2026	5	24	21	95	150	150	20
Visayas	2026	5	24	22	89	150	150	20
Visayas	2026	5	24	23	82	150	150	20
Visayas	2026	5	24	24	77	150	150	20
Visayas	2026	5	25	1	72	150	150	20
Visayas	2026	5	25	2	68	150	150	20
Visayas	2026	5	25	3	65	150	150	20
Visayas	2026	5	25	4	64	150	150	20
Visayas	2026	5	25	5	68	150	150	20
Visayas	2026	5	25	6	70	150	150	20
Visayas	2026	5	25	7	70	150	150	20
Visayas	2026	5	25	8	87	150	150	20
Visayas	2026	5	25	9	106	150	150	20
Visayas	2026	5	25	10	117	150	150	20
Visayas	2026	5	25	11	121	150	150	20
Visayas	2026	5	25	12	119	150	150	20
Visayas	2026	5	25	13	119	150	150	20
Visayas	2026	5	25	14	126	150	150	20
Visayas	2026	5	25	15	125	150	150	20
Visayas	2026	5	25	16	122	150	150	20
Visayas	2026	5	25	17	111	150	150	20
Visayas	2026	5	25	18	110	150	150	20
Visayas	2026	5	25	19	115	150	150	20
Visayas	2026	5	25	20	109	150	150	20
Visayas	2026	5	25	21	106	150	150	20
Visayas	2026	5	25	22	98	150	150	20
Visayas	2026	5	25	23	91	150	150	20
Visayas	2026	5	25	24	85	150	150	20
Visayas	2026	5	26	1	80	150	150	20
Visayas	2026	5	26	2	77	150	150	20
Visayas	2026	5	26	3	72	150	150	20
Visayas	2026	5	26	4	71	150	150	20
Visayas	2026	5	26	5	74	150	150	20
Visayas	2026	5	26	6	74	150	150	20
Visayas	2026	5	26	7	72	150	150	20
Visayas	2026	5	26	8	90	150	150	20
Visayas	2026	5	26	9	111	150	150	20
Visayas	2026	5	26	10	119	150	150	20
Visayas	2026	5	26	11	124	150	150	20
Visayas	2026	5	26	12	121	150	150	20
Visayas	2026	5	26	13	126	150	150	20
Visayas	2026	5	26	14	130	150	150	20
Visayas	2026	5	26	15	129	150	150	20
Visayas	2026	5	26	16	124	150	150	20
Visayas	2026	5	26	17	117	150	150	20
Visayas	2026	5	26	18	115	150	150	20
Visayas	2026	5	26	19	120	150	150	20
Visayas	2026	5	26	20	115	150	150	20
Visayas	2026	5	26	21	111	150	150	20
Visayas	2026	5	26	22	104	150	150	20
Visayas	2026	5	26	23	96	150	150	20
Visayas	2026	5	26	24	90	150	150	20
Visayas	2026	5	27	1	84	150	150	20
Visayas	2026	5	27	2	80	150	150	20
Visayas	2026	5	27	3	77	150	150	20
Visayas	2026	5	27	4	75	150	150	20
Visayas	2026	5	27	5	78	150	150	20
Visayas	2026	5	27	6	77	150	150	20
Visayas	2026	5	27	7	77	150	150	20
Visayas	2026	5	27	8	95	150	150	20
Visayas	2026	5	27	9	114	150	150	20
Visayas	2026	5	27	10	123	150	150	20
Visayas	2026	5	27	11	126	150	150	20
Visayas	2026	5	27	12	123	150	150	20
Visayas	2026	5	27	13	125	150	150	20
Visayas	2026	5	27	14	130	150	150	20
Visayas	2026	5	27	15	128	150	150	20
Visayas	2026	5	27	16	123	150	150	20
Visayas	2026	5	27	17	115	150	150	20
Visayas	2026	5	27	18	116	150	150	20
Visayas	2026	5	27	19	121	150	150	20
Visayas	2026	5	27	20	117	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	27	21	112	150	150	20
Visayas	2026	5	27	22	104	150	150	20
Visayas	2026	5	27	23	96	150	150	20
Visayas	2026	5	27	24	90	150	150	20
Visayas	2026	5	28	1	85	150	150	20
Visayas	2026	5	28	2	81	150	150	20
Visayas	2026	5	28	3	78	150	150	20
Visayas	2026	5	28	4	76	150	150	20
Visayas	2026	5	28	5	78	150	150	20
Visayas	2026	5	28	6	79	150	150	20
Visayas	2026	5	28	7	78	150	150	20
Visayas	2026	5	28	8	93	150	150	20
Visayas	2026	5	28	9	112	150	150	20
Visayas	2026	5	28	10	120	150	150	20
Visayas	2026	5	28	11	121	150	150	20
Visayas	2026	5	28	12	114	150	150	20
Visayas	2026	5	28	13	116	150	150	20
Visayas	2026	5	28	14	125	150	150	20
Visayas	2026	5	28	15	124	150	150	20
Visayas	2026	5	28	16	121	150	150	20
Visayas	2026	5	28	17	112	150	150	20
Visayas	2026	5	28	18	112	150	150	20
Visayas	2026	5	28	19	116	150	150	20
Visayas	2026	5	28	20	111	150	150	20
Visayas	2026	5	28	21	107	150	150	20
Visayas	2026	5	28	22	99	150	150	20
Visayas	2026	5	28	23	92	150	150	20
Visayas	2026	5	28	24	85	150	150	20
Visayas	2026	5	29	1	81	150	150	20
Visayas	2026	5	29	2	77	150	150	20
Visayas	2026	5	29	3	74	150	150	20
Visayas	2026	5	29	4	71	150	150	20
Visayas	2026	5	29	5	73	150	150	20
Visayas	2026	5	29	6	74	150	150	20
Visayas	2026	5	29	7	74	150	150	20
Visayas	2026	5	29	8	90	150	150	20
Visayas	2026	5	29	9	110	150	150	20
Visayas	2026	5	29	10	118	150	150	20
Visayas	2026	5	29	11	120	150	150	20
Visayas	2026	5	29	12	118	150	150	20
Visayas	2026	5	29	13	120	150	150	20
Visayas	2026	5	29	14	123	150	150	20
Visayas	2026	5	29	15	121	150	150	20
Visayas	2026	5	29	16	117	150	150	20
Visayas	2026	5	29	17	108	150	150	20
Visayas	2026	5	29	18	109	150	150	20
Visayas	2026	5	29	19	111	150	150	20
Visayas	2026	5	29	20	106	150	150	20
Visayas	2026	5	29	21	101	150	150	20
Visayas	2026	5	29	22	94	150	150	20
Visayas	2026	5	29	23	87	150	150	20
Visayas	2026	5	29	24	83	150	150	20
Visayas	2026	5	30	1	79	150	150	20
Visayas	2026	5	30	2	75	150	150	20
Visayas	2026	5	30	3	72	150	150	20
Visayas	2026	5	30	4	70	150	150	20
Visayas	2026	5	30	5	69	150	150	20
Visayas	2026	5	30	6	68	150	150	20
Visayas	2026	5	30	7	68	150	150	20
Visayas	2026	5	30	8	77	150	150	20
Visayas	2026	5	30	9	89	150	150	20
Visayas	2026	5	30	10	96	150	150	20
Visayas	2026	5	30	11	99	150	150	20
Visayas	2026	5	30	12	95	150	150	20
Visayas	2026	5	30	13	96	150	150	20
Visayas	2026	5	30	14	100	150	150	20
Visayas	2026	5	30	15	98	150	150	20
Visayas	2026	5	30	16	96	150	150	20
Visayas	2026	5	30	17	93	150	150	20
Visayas	2026	5	30	18	97	150	150	20
Visayas	2026	5	30	19	102	150	150	20
Visayas	2026	5	30	20	95	150	150	20
Visayas	2026	5	30	21	95	150	150	20
Visayas	2026	5	30	22	88	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	5	30	23	83	150	150	20
Visayas	2026	5	30	24	78	150	150	20
Visayas	2026	5	31	1	74	150	150	20
Visayas	2026	5	31	2	70	150	150	20
Visayas	2026	5	31	3	67	150	150	20
Visayas	2026	5	31	4	65	150	150	20
Visayas	2026	5	31	5	65	150	150	20
Visayas	2026	5	31	6	64	150	150	20
Visayas	2026	5	31	7	63	150	150	20
Visayas	2026	5	31	8	68	150	150	20
Visayas	2026	5	31	9	76	150	150	20
Visayas	2026	5	31	10	81	150	150	20
Visayas	2026	5	31	11	84	150	150	20
Visayas	2026	5	31	12	83	150	150	20
Visayas	2026	5	31	13	78	150	150	20
Visayas	2026	5	31	14	81	150	150	20
Visayas	2026	5	31	15	82	150	150	20
Visayas	2026	5	31	16	80	150	150	20
Visayas	2026	5	31	17	82	150	150	20
Visayas	2026	5	31	18	90	150	150	20
Visayas	2026	5	31	19	98	150	150	20
Visayas	2026	5	31	20	96	150	150	20
Visayas	2026	5	31	21	95	150	150	20
Visayas	2026	5	31	22	89	150	150	20
Visayas	2026	5	31	23	84	150	150	20
Visayas	2026	5	31	24	78	150	150	20
Visayas	2026	6	1	1	75	150	150	20
Visayas	2026	6	1	2	71	150	150	20
Visayas	2026	6	1	3	68	150	150	20
Visayas	2026	6	1	4	67	150	150	20
Visayas	2026	6	1	5	70	150	150	20
Visayas	2026	6	1	6	73	150	150	20
Visayas	2026	6	1	7	70	150	150	20
Visayas	2026	6	1	8	86	150	150	20
Visayas	2026	6	1	9	102	150	150	20
Visayas	2026	6	1	10	112	150	150	20
Visayas	2026	6	1	11	114	150	150	20
Visayas	2026	6	1	12	110	150	150	20
Visayas	2026	6	1	13	112	150	150	20
Visayas	2026	6	1	14	119	150	150	20
Visayas	2026	6	1	15	118	150	150	20
Visayas	2026	6	1	16	115	150	150	20
Visayas	2026	6	1	17	109	150	150	20
Visayas	2026	6	1	18	108	150	150	20
Visayas	2026	6	1	19	113	150	150	20
Visayas	2026	6	1	20	110	150	150	20
Visayas	2026	6	1	21	106	150	150	20
Visayas	2026	6	1	22	99	150	150	20
Visayas	2026	6	1	23	93	150	150	20
Visayas	2026	6	1	24	86	150	150	20
Visayas	2026	6	2	1	82	150	150	20
Visayas	2026	6	2	2	79	150	150	20
Visayas	2026	6	2	3	76	150	150	20
Visayas	2026	6	2	4	74	150	150	20
Visayas	2026	6	2	5	76	150	150	20
Visayas	2026	6	2	6	78	150	150	20
Visayas	2026	6	2	7	76	150	150	20
Visayas	2026	6	2	8	90	150	150	20
Visayas	2026	6	2	9	106	150	150	20
Visayas	2026	6	2	10	113	150	150	20
Visayas	2026	6	2	11	116	150	150	20
Visayas	2026	6	2	12	114	150	150	20
Visayas	2026	6	2	13	113	150	150	20
Visayas	2026	6	2	14	119	150	150	20
Visayas	2026	6	2	15	118	150	150	20
Visayas	2026	6	2	16	114	150	150	20
Visayas	2026	6	2	17	107	150	150	20
Visayas	2026	6	2	18	109	150	150	20
Visayas	2026	6	2	19	111	150	150	20
Visayas	2026	6	2	20	106	150	150	20
Visayas	2026	6	2	21	102	150	150	20
Visayas	2026	6	2	22	95	150	150	20
Visayas	2026	6	2	23	88	150	150	20
Visayas	2026	6	2	24	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	3	1	79	150	150	20
Visayas	2026	6	3	2	75	150	150	20
Visayas	2026	6	3	3	72	150	150	20
Visayas	2026	6	3	4	70	150	150	20
Visayas	2026	6	3	5	73	150	150	20
Visayas	2026	6	3	6	74	150	150	20
Visayas	2026	6	3	7	75	150	150	20
Visayas	2026	6	3	8	87	150	150	20
Visayas	2026	6	3	9	102	150	150	20
Visayas	2026	6	3	10	105	150	150	20
Visayas	2026	6	3	11	112	150	150	20
Visayas	2026	6	3	12	108	150	150	20
Visayas	2026	6	3	13	109	150	150	20
Visayas	2026	6	3	14	113	150	150	20
Visayas	2026	6	3	15	113	150	150	20
Visayas	2026	6	3	16	111	150	150	20
Visayas	2026	6	3	17	103	150	150	20
Visayas	2026	6	3	18	94	150	150	20
Visayas	2026	6	3	19	100	150	150	20
Visayas	2026	6	3	20	96	150	150	20
Visayas	2026	6	3	21	93	150	150	20
Visayas	2026	6	3	22	85	150	150	20
Visayas	2026	6	3	23	79	150	150	20
Visayas	2026	6	3	24	76	150	150	20
Visayas	2026	6	4	1	71	150	150	20
Visayas	2026	6	4	2	69	150	150	20
Visayas	2026	6	4	3	66	150	150	20
Visayas	2026	6	4	4	64	150	150	20
Visayas	2026	6	4	5	67	150	150	20
Visayas	2026	6	4	6	71	150	150	20
Visayas	2026	6	4	7	70	150	150	20
Visayas	2026	6	4	8	83	150	150	20
Visayas	2026	6	4	9	97	150	150	20
Visayas	2026	6	4	10	105	150	150	20
Visayas	2026	6	4	11	110	150	150	20
Visayas	2026	6	4	12	100	150	150	20
Visayas	2026	6	4	13	95	150	150	20
Visayas	2026	6	4	14	98	150	150	20
Visayas	2026	6	4	15	95	150	150	20
Visayas	2026	6	4	16	95	150	150	20
Visayas	2026	6	4	17	93	150	150	20
Visayas	2026	6	4	18	92	150	150	20
Visayas	2026	6	4	19	98	150	150	20
Visayas	2026	6	4	20	94	150	150	20
Visayas	2026	6	4	21	88	150	150	20
Visayas	2026	6	4	22	81	150	150	20
Visayas	2026	6	4	23	75	150	150	20
Visayas	2026	6	4	24	70	150	150	20
Visayas	2026	6	5	1	68	150	150	20
Visayas	2026	6	5	2	69	150	150	20
Visayas	2026	6	5	3	68	150	150	20
Visayas	2026	6	5	4	62	150	150	20
Visayas	2026	6	5	5	63	150	150	20
Visayas	2026	6	5	6	65	150	150	20
Visayas	2026	6	5	7	65	150	150	20
Visayas	2026	6	5	8	79	150	150	20
Visayas	2026	6	5	9	98	150	150	20
Visayas	2026	6	5	10	107	150	150	20
Visayas	2026	6	5	11	114	150	150	20
Visayas	2026	6	5	12	111	150	150	20
Visayas	2026	6	5	13	109	150	150	20
Visayas	2026	6	5	14	115	150	150	20
Visayas	2026	6	5	15	110	150	150	20
Visayas	2026	6	5	16	101	150	150	20
Visayas	2026	6	5	17	98	150	150	20
Visayas	2026	6	5	18	99	150	150	20
Visayas	2026	6	5	19	102	150	150	20
Visayas	2026	6	5	20	96	150	150	20
Visayas	2026	6	5	21	92	150	150	20
Visayas	2026	6	5	22	84	150	150	20
Visayas	2026	6	5	23	78	150	150	20
Visayas	2026	6	5	24	72	150	150	20
Visayas	2026	6	6	1	68	150	150	20
Visayas	2026	6	6	2	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	6	3	62	150	150	20
Visayas	2026	6	6	4	61	150	150	20
Visayas	2026	6	6	5	62	150	150	20
Visayas	2026	6	6	6	63	150	150	20
Visayas	2026	6	6	7	65	150	150	20
Visayas	2026	6	6	8	76	150	150	20
Visayas	2026	6	6	9	88	150	150	20
Visayas	2026	6	6	10	97	150	150	20
Visayas	2026	6	6	11	102	150	150	20
Visayas	2026	6	6	12	100	150	150	20
Visayas	2026	6	6	13	101	150	150	20
Visayas	2026	6	6	14	104	150	150	20
Visayas	2026	6	6	15	102	150	150	20
Visayas	2026	6	6	16	97	150	150	20
Visayas	2026	6	6	17	94	150	150	20
Visayas	2026	6	6	18	96	150	150	20
Visayas	2026	6	6	19	102	150	150	20
Visayas	2026	6	6	20	98	150	150	20
Visayas	2026	6	6	21	96	150	150	20
Visayas	2026	6	6	22	89	150	150	20
Visayas	2026	6	6	23	82	150	150	20
Visayas	2026	6	6	24	77	150	150	20
Visayas	2026	6	7	1	72	150	150	20
Visayas	2026	6	7	2	69	150	150	20
Visayas	2026	6	7	3	65	150	150	20
Visayas	2026	6	7	4	63	150	150	20
Visayas	2026	6	7	5	63	150	150	20
Visayas	2026	6	7	6	60	150	150	20
Visayas	2026	6	7	7	57	150	150	20
Visayas	2026	6	7	8	60	150	150	20
Visayas	2026	6	7	9	65	150	150	20
Visayas	2026	6	7	10	72	150	150	20
Visayas	2026	6	7	11	77	150	150	20
Visayas	2026	6	7	12	79	150	150	20
Visayas	2026	6	7	13	79	150	150	20
Visayas	2026	6	7	14	81	150	150	20
Visayas	2026	6	7	15	80	150	150	20
Visayas	2026	6	7	16	79	150	150	20
Visayas	2026	6	7	17	79	150	150	20
Visayas	2026	6	7	18	85	150	150	20
Visayas	2026	6	7	19	90	150	150	20
Visayas	2026	6	7	20	90	150	150	20
Visayas	2026	6	7	21	86	150	150	20
Visayas	2026	6	7	22	80	150	150	20
Visayas	2026	6	7	23	73	150	150	20
Visayas	2026	6	7	24	68	150	150	20
Visayas	2026	6	8	1	64	150	150	20
Visayas	2026	6	8	2	61	150	150	20
Visayas	2026	6	8	3	59	150	150	20
Visayas	2026	6	8	4	58	150	150	20
Visayas	2026	6	8	5	61	150	150	20
Visayas	2026	6	8	6	64	150	150	20
Visayas	2026	6	8	7	62	150	150	20
Visayas	2026	6	8	8	76	150	150	20
Visayas	2026	6	8	9	95	150	150	20
Visayas	2026	6	8	10	104	150	150	20
Visayas	2026	6	8	11	110	150	150	20
Visayas	2026	6	8	12	106	150	150	20
Visayas	2026	6	8	13	108	150	150	20
Visayas	2026	6	8	14	115	150	150	20
Visayas	2026	6	8	15	114	150	150	20
Visayas	2026	6	8	16	111	150	150	20
Visayas	2026	6	8	17	103	150	150	20
Visayas	2026	6	8	18	101	150	150	20
Visayas	2026	6	8	19	107	150	150	20
Visayas	2026	6	8	20	102	150	150	20
Visayas	2026	6	8	21	97	150	150	20
Visayas	2026	6	8	22	90	150	150	20
Visayas	2026	6	8	23	83	150	150	20
Visayas	2026	6	8	24	78	150	150	20
Visayas	2026	6	9	1	73	150	150	20
Visayas	2026	6	9	2	70	150	150	20
Visayas	2026	6	9	3	67	150	150	20
Visayas	2026	6	9	4	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	9	5	68	150	150	20
Visayas	2026	6	9	6	71	150	150	20
Visayas	2026	6	9	7	68	150	150	20
Visayas	2026	6	9	8	83	150	150	20
Visayas	2026	6	9	9	104	150	150	20
Visayas	2026	6	9	10	110	150	150	20
Visayas	2026	6	9	11	116	150	150	20
Visayas	2026	6	9	12	114	150	150	20
Visayas	2026	6	9	13	112	150	150	20
Visayas	2026	6	9	14	118	150	150	20
Visayas	2026	6	9	15	117	150	150	20
Visayas	2026	6	9	16	115	150	150	20
Visayas	2026	6	9	17	107	150	150	20
Visayas	2026	6	9	18	103	150	150	20
Visayas	2026	6	9	19	110	150	150	20
Visayas	2026	6	9	20	104	150	150	20
Visayas	2026	6	9	21	100	150	150	20
Visayas	2026	6	9	22	92	150	150	20
Visayas	2026	6	9	23	85	150	150	20
Visayas	2026	6	9	24	80	150	150	20
Visayas	2026	6	10	1	75	150	150	20
Visayas	2026	6	10	2	71	150	150	20
Visayas	2026	6	10	3	68	150	150	20
Visayas	2026	6	10	4	66	150	150	20
Visayas	2026	6	10	5	69	150	150	20
Visayas	2026	6	10	6	71	150	150	20
Visayas	2026	6	10	7	69	150	150	20
Visayas	2026	6	10	8	85	150	150	20
Visayas	2026	6	10	9	104	150	150	20
Visayas	2026	6	10	10	113	150	150	20
Visayas	2026	6	10	11	119	150	150	20
Visayas	2026	6	10	12	114	150	150	20
Visayas	2026	6	10	13	116	150	150	20
Visayas	2026	6	10	14	120	150	150	20
Visayas	2026	6	10	15	117	150	150	20
Visayas	2026	6	10	16	113	150	150	20
Visayas	2026	6	10	17	104	150	150	20
Visayas	2026	6	10	18	103	150	150	20
Visayas	2026	6	10	19	110	150	150	20
Visayas	2026	6	10	20	105	150	150	20
Visayas	2026	6	10	21	101	150	150	20
Visayas	2026	6	10	22	93	150	150	20
Visayas	2026	6	10	23	87	150	150	20
Visayas	2026	6	10	24	80	150	150	20
Visayas	2026	6	11	1	76	150	150	20
Visayas	2026	6	11	2	72	150	150	20
Visayas	2026	6	11	3	70	150	150	20
Visayas	2026	6	11	4	68	150	150	20
Visayas	2026	6	11	5	70	150	150	20
Visayas	2026	6	11	6	72	150	150	20
Visayas	2026	6	11	7	70	150	150	20
Visayas	2026	6	11	8	86	150	150	20
Visayas	2026	6	11	9	105	150	150	20
Visayas	2026	6	11	10	113	150	150	20
Visayas	2026	6	11	11	117	150	150	20
Visayas	2026	6	11	12	113	150	150	20
Visayas	2026	6	11	13	112	150	150	20
Visayas	2026	6	11	14	122	150	150	20
Visayas	2026	6	11	15	121	150	150	20
Visayas	2026	6	11	16	117	150	150	20
Visayas	2026	6	11	17	109	150	150	20
Visayas	2026	6	11	18	106	150	150	20
Visayas	2026	6	11	19	113	150	150	20
Visayas	2026	6	11	20	108	150	150	20
Visayas	2026	6	11	21	105	150	150	20
Visayas	2026	6	11	22	97	150	150	20
Visayas	2026	6	11	23	91	150	150	20
Visayas	2026	6	11	24	83	150	150	20
Visayas	2026	6	12	1	73	150	150	20
Visayas	2026	6	12	2	69	150	150	20
Visayas	2026	6	12	3	67	150	150	20
Visayas	2026	6	12	4	65	150	150	20
Visayas	2026	6	12	5	65	150	150	20
Visayas	2026	6	12	6	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	12	7	66	150	150	20
Visayas	2026	6	12	8	74	150	150	20
Visayas	2026	6	12	9	83	150	150	20
Visayas	2026	6	12	10	93	150	150	20
Visayas	2026	6	12	11	97	150	150	20
Visayas	2026	6	12	12	97	150	150	20
Visayas	2026	6	12	13	99	150	150	20
Visayas	2026	6	12	14	99	150	150	20
Visayas	2026	6	12	15	103	150	150	20
Visayas	2026	6	12	16	97	150	150	20
Visayas	2026	6	12	17	94	150	150	20
Visayas	2026	6	12	18	98	150	150	20
Visayas	2026	6	12	19	109	150	150	20
Visayas	2026	6	12	20	105	150	150	20
Visayas	2026	6	12	21	102	150	150	20
Visayas	2026	6	12	22	96	150	150	20
Visayas	2026	6	12	23	89	150	150	20
Visayas	2026	6	12	24	82	150	150	20
Visayas	2026	6	13	1	79	150	150	20
Visayas	2026	6	13	2	75	150	150	20
Visayas	2026	6	13	3	72	150	150	20
Visayas	2026	6	13	4	70	150	150	20
Visayas	2026	6	13	5	70	150	150	20
Visayas	2026	6	13	6	69	150	150	20
Visayas	2026	6	13	7	66	150	150	20
Visayas	2026	6	13	8	76	150	150	20
Visayas	2026	6	13	9	88	150	150	20
Visayas	2026	6	13	10	95	150	150	20
Visayas	2026	6	13	11	99	150	150	20
Visayas	2026	6	13	12	95	150	150	20
Visayas	2026	6	13	13	94	150	150	20
Visayas	2026	6	13	14	98	150	150	20
Visayas	2026	6	13	15	96	150	150	20
Visayas	2026	6	13	16	92	150	150	20
Visayas	2026	6	13	17	88	150	150	20
Visayas	2026	6	13	18	92	150	150	20
Visayas	2026	6	13	19	100	150	150	20
Visayas	2026	6	13	20	96	150	150	20
Visayas	2026	6	13	21	94	150	150	20
Visayas	2026	6	13	22	87	150	150	20
Visayas	2026	6	13	23	82	150	150	20
Visayas	2026	6	13	24	77	150	150	20
Visayas	2026	6	14	1	73	150	150	20
Visayas	2026	6	14	2	69	150	150	20
Visayas	2026	6	14	3	66	150	150	20
Visayas	2026	6	14	4	64	150	150	20
Visayas	2026	6	14	5	64	150	150	20
Visayas	2026	6	14	6	62	150	150	20
Visayas	2026	6	14	7	59	150	150	20
Visayas	2026	6	14	8	62	150	150	20
Visayas	2026	6	14	9	70	150	150	20
Visayas	2026	6	14	10	76	150	150	20
Visayas	2026	6	14	11	80	150	150	20
Visayas	2026	6	14	12	80	150	150	20
Visayas	2026	6	14	13	83	150	150	20
Visayas	2026	6	14	14	86	150	150	20
Visayas	2026	6	14	15	86	150	150	20
Visayas	2026	6	14	16	84	150	150	20
Visayas	2026	6	14	17	82	150	150	20
Visayas	2026	6	14	18	91	150	150	20
Visayas	2026	6	14	19	100	150	150	20
Visayas	2026	6	14	20	96	150	150	20
Visayas	2026	6	14	21	94	150	150	20
Visayas	2026	6	14	22	89	150	150	20
Visayas	2026	6	14	23	83	150	150	20
Visayas	2026	6	14	24	78	150	150	20
Visayas	2026	6	15	1	74	150	150	20
Visayas	2026	6	15	2	71	150	150	20
Visayas	2026	6	15	3	68	150	150	20
Visayas	2026	6	15	4	66	150	150	20
Visayas	2026	6	15	5	70	150	150	20
Visayas	2026	6	15	6	72	150	150	20
Visayas	2026	6	15	7	71	150	150	20
Visayas	2026	6	15	8	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	15	9	105	150	150	20
Visayas	2026	6	15	10	113	150	150	20
Visayas	2026	6	15	11	120	150	150	20
Visayas	2026	6	15	12	116	150	150	20
Visayas	2026	6	15	13	118	150	150	20
Visayas	2026	6	15	14	126	150	150	20
Visayas	2026	6	15	15	118	150	150	20
Visayas	2026	6	15	16	114	150	150	20
Visayas	2026	6	15	17	108	150	150	20
Visayas	2026	6	15	18	106	150	150	20
Visayas	2026	6	15	19	112	150	150	20
Visayas	2026	6	15	20	107	150	150	20
Visayas	2026	6	15	21	104	150	150	20
Visayas	2026	6	15	22	95	150	150	20
Visayas	2026	6	15	23	88	150	150	20
Visayas	2026	6	15	24	82	150	150	20
Visayas	2026	6	16	1	77	150	150	20
Visayas	2026	6	16	2	73	150	150	20
Visayas	2026	6	16	3	70	150	150	20
Visayas	2026	6	16	4	68	150	150	20
Visayas	2026	6	16	5	71	150	150	20
Visayas	2026	6	16	6	73	150	150	20
Visayas	2026	6	16	7	72	150	150	20
Visayas	2026	6	16	8	90	150	150	20
Visayas	2026	6	16	9	110	150	150	20
Visayas	2026	6	16	10	118	150	150	20
Visayas	2026	6	16	11	124	150	150	20
Visayas	2026	6	16	12	120	150	150	20
Visayas	2026	6	16	13	122	150	150	20
Visayas	2026	6	16	14	128	150	150	20
Visayas	2026	6	16	15	128	150	150	20
Visayas	2026	6	16	16	126	150	150	20
Visayas	2026	6	16	17	118	150	150	20
Visayas	2026	6	16	18	112	150	150	20
Visayas	2026	6	16	19	120	150	150	20
Visayas	2026	6	16	20	115	150	150	20
Visayas	2026	6	16	21	112	150	150	20
Visayas	2026	6	16	22	104	150	150	20
Visayas	2026	6	16	23	96	150	150	20
Visayas	2026	6	16	24	89	150	150	20
Visayas	2026	6	17	1	84	150	150	20
Visayas	2026	6	17	2	81	150	150	20
Visayas	2026	6	17	3	77	150	150	20
Visayas	2026	6	17	4	74	150	150	20
Visayas	2026	6	17	5	77	150	150	20
Visayas	2026	6	17	6	78	150	150	20
Visayas	2026	6	17	7	76	150	150	20
Visayas	2026	6	17	8	94	150	150	20
Visayas	2026	6	17	9	113	150	150	20
Visayas	2026	6	17	10	121	150	150	20
Visayas	2026	6	17	11	126	150	150	20
Visayas	2026	6	17	12	124	150	150	20
Visayas	2026	6	17	13	125	150	150	20
Visayas	2026	6	17	14	129	150	150	20
Visayas	2026	6	17	15	127	150	150	20
Visayas	2026	6	17	16	124	150	150	20
Visayas	2026	6	17	17	105	150	150	20
Visayas	2026	6	17	18	109	150	150	20
Visayas	2026	6	17	19	113	150	150	20
Visayas	2026	6	17	20	108	150	150	20
Visayas	2026	6	17	21	101	150	150	20
Visayas	2026	6	17	22	94	150	150	20
Visayas	2026	6	17	23	87	150	150	20
Visayas	2026	6	17	24	81	150	150	20
Visayas	2026	6	18	1	74	150	150	20
Visayas	2026	6	18	2	70	150	150	20
Visayas	2026	6	18	3	67	150	150	20
Visayas	2026	6	18	4	65	150	150	20
Visayas	2026	6	18	5	69	150	150	20
Visayas	2026	6	18	6	72	150	150	20
Visayas	2026	6	18	7	69	150	150	20
Visayas	2026	6	18	8	81	150	150	20
Visayas	2026	6	18	9	98	150	150	20
Visayas	2026	6	18	10	108	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	18	11	110	150	150	20
Visayas	2026	6	18	12	109	150	150	20
Visayas	2026	6	18	13	108	150	150	20
Visayas	2026	6	18	14	115	150	150	20
Visayas	2026	6	18	15	113	150	150	20
Visayas	2026	6	18	16	110	150	150	20
Visayas	2026	6	18	17	103	150	150	20
Visayas	2026	6	18	18	103	150	150	20
Visayas	2026	6	18	19	110	150	150	20
Visayas	2026	6	18	20	105	150	150	20
Visayas	2026	6	18	21	103	150	150	20
Visayas	2026	6	18	22	95	150	150	20
Visayas	2026	6	18	23	88	150	150	20
Visayas	2026	6	18	24	82	150	150	20
Visayas	2026	6	19	1	77	150	150	20
Visayas	2026	6	19	2	74	150	150	20
Visayas	2026	6	19	3	70	150	150	20
Visayas	2026	6	19	4	69	150	150	20
Visayas	2026	6	19	5	71	150	150	20
Visayas	2026	6	19	6	74	150	150	20
Visayas	2026	6	19	7	72	150	150	20
Visayas	2026	6	19	8	86	150	150	20
Visayas	2026	6	19	9	104	150	150	20
Visayas	2026	6	19	10	114	150	150	20
Visayas	2026	6	19	11	118	150	150	20
Visayas	2026	6	19	12	117	150	150	20
Visayas	2026	6	19	13	118	150	150	20
Visayas	2026	6	19	14	124	150	150	20
Visayas	2026	6	19	15	122	150	150	20
Visayas	2026	6	19	16	115	150	150	20
Visayas	2026	6	19	17	108	150	150	20
Visayas	2026	6	19	18	107	150	150	20
Visayas	2026	6	19	19	113	150	150	20
Visayas	2026	6	19	20	110	150	150	20
Visayas	2026	6	19	21	105	150	150	20
Visayas	2026	6	19	22	98	150	150	20
Visayas	2026	6	19	23	90	150	150	20
Visayas	2026	6	19	24	85	150	150	20
Visayas	2026	6	20	1	79	150	150	20
Visayas	2026	6	20	2	75	150	150	20
Visayas	2026	6	20	3	72	150	150	20
Visayas	2026	6	20	4	70	150	150	20
Visayas	2026	6	20	5	69	150	150	20
Visayas	2026	6	20	6	68	150	150	20
Visayas	2026	6	20	7	67	150	150	20
Visayas	2026	6	20	8	77	150	150	20
Visayas	2026	6	20	9	92	150	150	20
Visayas	2026	6	20	10	99	150	150	20
Visayas	2026	6	20	11	105	150	150	20
Visayas	2026	6	20	12	103	150	150	20
Visayas	2026	6	20	13	102	150	150	20
Visayas	2026	6	20	14	109	150	150	20
Visayas	2026	6	20	15	109	150	150	20
Visayas	2026	6	20	16	105	150	150	20
Visayas	2026	6	20	17	101	150	150	20
Visayas	2026	6	20	18	103	150	150	20
Visayas	2026	6	20	19	111	150	150	20
Visayas	2026	6	20	20	108	150	150	20
Visayas	2026	6	20	21	105	150	150	20
Visayas	2026	6	20	22	98	150	150	20
Visayas	2026	6	20	23	92	150	150	20
Visayas	2026	6	20	24	86	150	150	20
Visayas	2026	6	21	1	81	150	150	20
Visayas	2026	6	21	2	77	150	150	20
Visayas	2026	6	21	3	74	150	150	20
Visayas	2026	6	21	4	71	150	150	20
Visayas	2026	6	21	5	70	150	150	20
Visayas	2026	6	21	6	65	150	150	20
Visayas	2026	6	21	7	63	150	150	20
Visayas	2026	6	21	8	67	150	150	20
Visayas	2026	6	21	9	76	150	150	20
Visayas	2026	6	21	10	80	150	150	20
Visayas	2026	6	21	11	86	150	150	20
Visayas	2026	6	21	12	86	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	21	13	87	150	150	20
Visayas	2026	6	21	14	89	150	150	20
Visayas	2026	6	21	15	88	150	150	20
Visayas	2026	6	21	16	86	150	150	20
Visayas	2026	6	21	17	85	150	150	20
Visayas	2026	6	21	18	90	150	150	20
Visayas	2026	6	21	19	101	150	150	20
Visayas	2026	6	21	20	97	150	150	20
Visayas	2026	6	21	21	96	150	150	20
Visayas	2026	6	21	22	90	150	150	20
Visayas	2026	6	21	23	84	150	150	20
Visayas	2026	6	21	24	78	150	150	20
Visayas	2026	6	22	1	74	150	150	20
Visayas	2026	6	22	2	71	150	150	20
Visayas	2026	6	22	3	68	150	150	20
Visayas	2026	6	22	4	66	150	150	20
Visayas	2026	6	22	5	70	150	150	20
Visayas	2026	6	22	6	72	150	150	20
Visayas	2026	6	22	7	71	150	150	20
Visayas	2026	6	22	8	87	150	150	20
Visayas	2026	6	22	9	105	150	150	20
Visayas	2026	6	22	10	113	150	150	20
Visayas	2026	6	22	11	120	150	150	20
Visayas	2026	6	22	12	116	150	150	20
Visayas	2026	6	22	13	118	150	150	20
Visayas	2026	6	22	14	126	150	150	20
Visayas	2026	6	22	15	118	150	150	20
Visayas	2026	6	22	16	114	150	150	20
Visayas	2026	6	22	17	108	150	150	20
Visayas	2026	6	22	18	106	150	150	20
Visayas	2026	6	22	19	112	150	150	20
Visayas	2026	6	22	20	107	150	150	20
Visayas	2026	6	22	21	104	150	150	20
Visayas	2026	6	22	22	95	150	150	20
Visayas	2026	6	22	23	88	150	150	20
Visayas	2026	6	22	24	82	150	150	20
Visayas	2026	6	23	1	79	150	150	20
Visayas	2026	6	23	2	75	150	150	20
Visayas	2026	6	23	3	71	150	150	20
Visayas	2026	6	23	4	70	150	150	20
Visayas	2026	6	23	5	72	150	150	20
Visayas	2026	6	23	6	75	150	150	20
Visayas	2026	6	23	7	73	150	150	20
Visayas	2026	6	23	8	86	150	150	20
Visayas	2026	6	23	9	102	150	150	20
Visayas	2026	6	23	10	113	150	150	20
Visayas	2026	6	23	11	118	150	150	20
Visayas	2026	6	23	12	116	150	150	20
Visayas	2026	6	23	13	117	150	150	20
Visayas	2026	6	23	14	123	150	150	20
Visayas	2026	6	23	15	121	150	150	20
Visayas	2026	6	23	16	118	150	150	20
Visayas	2026	6	23	17	109	150	150	20
Visayas	2026	6	23	18	107	150	150	20
Visayas	2026	6	23	19	113	150	150	20
Visayas	2026	6	23	20	108	150	150	20
Visayas	2026	6	23	21	102	150	150	20
Visayas	2026	6	23	22	96	150	150	20
Visayas	2026	6	23	23	88	150	150	20
Visayas	2026	6	23	24	81	150	150	20
Visayas	2026	6	24	1	77	150	150	20
Visayas	2026	6	24	2	74	150	150	20
Visayas	2026	6	24	3	71	150	150	20
Visayas	2026	6	24	4	70	150	150	20
Visayas	2026	6	24	5	72	150	150	20
Visayas	2026	6	24	6	75	150	150	20
Visayas	2026	6	24	7	73	150	150	20
Visayas	2026	6	24	8	88	150	150	20
Visayas	2026	6	24	9	106	150	150	20
Visayas	2026	6	24	10	115	150	150	20
Visayas	2026	6	24	11	119	150	150	20
Visayas	2026	6	24	12	116	150	150	20
Visayas	2026	6	24	13	117	150	150	20
Visayas	2026	6	24	14	123	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	24	15	122	150	150	20
Visayas	2026	6	24	16	120	150	150	20
Visayas	2026	6	24	17	111	150	150	20
Visayas	2026	6	24	18	108	150	150	20
Visayas	2026	6	24	19	115	150	150	20
Visayas	2026	6	24	20	109	150	150	20
Visayas	2026	6	24	21	104	150	150	20
Visayas	2026	6	24	22	97	150	150	20
Visayas	2026	6	24	23	89	150	150	20
Visayas	2026	6	24	24	82	150	150	20
Visayas	2026	6	25	1	78	150	150	20
Visayas	2026	6	25	2	75	150	150	20
Visayas	2026	6	25	3	70	150	150	20
Visayas	2026	6	25	4	69	150	150	20
Visayas	2026	6	25	5	70	150	150	20
Visayas	2026	6	25	6	74	150	150	20
Visayas	2026	6	25	7	72	150	150	20
Visayas	2026	6	25	8	84	150	150	20
Visayas	2026	6	25	9	98	150	150	20
Visayas	2026	6	25	10	105	150	150	20
Visayas	2026	6	25	11	108	150	150	20
Visayas	2026	6	25	12	104	150	150	20
Visayas	2026	6	25	13	103	150	150	20
Visayas	2026	6	25	14	108	150	150	20
Visayas	2026	6	25	15	110	150	150	20
Visayas	2026	6	25	16	106	150	150	20
Visayas	2026	6	25	17	100	150	150	20
Visayas	2026	6	25	18	101	150	150	20
Visayas	2026	6	25	19	105	150	150	20
Visayas	2026	6	25	20	100	150	150	20
Visayas	2026	6	25	21	96	150	150	20
Visayas	2026	6	25	22	88	150	150	20
Visayas	2026	6	25	23	82	150	150	20
Visayas	2026	6	25	24	77	150	150	20
Visayas	2026	6	26	1	74	150	150	20
Visayas	2026	6	26	2	71	150	150	20
Visayas	2026	6	26	3	67	150	150	20
Visayas	2026	6	26	4	65	150	150	20
Visayas	2026	6	26	5	68	150	150	20
Visayas	2026	6	26	6	72	150	150	20
Visayas	2026	6	26	7	70	150	150	20
Visayas	2026	6	26	8	84	150	150	20
Visayas	2026	6	26	9	100	150	150	20
Visayas	2026	6	26	10	110	150	150	20
Visayas	2026	6	26	11	117	150	150	20
Visayas	2026	6	26	12	114	150	150	20
Visayas	2026	6	26	13	116	150	150	20
Visayas	2026	6	26	14	122	150	150	20
Visayas	2026	6	26	15	119	150	150	20
Visayas	2026	6	26	16	114	150	150	20
Visayas	2026	6	26	17	105	150	150	20
Visayas	2026	6	26	18	104	150	150	20
Visayas	2026	6	26	19	111	150	150	20
Visayas	2026	6	26	20	105	150	150	20
Visayas	2026	6	26	21	103	150	150	20
Visayas	2026	6	26	22	95	150	150	20
Visayas	2026	6	26	23	87	150	150	20
Visayas	2026	6	26	24	82	150	150	20
Visayas	2026	6	27	1	78	150	150	20
Visayas	2026	6	27	2	74	150	150	20
Visayas	2026	6	27	3	70	150	150	20
Visayas	2026	6	27	4	67	150	150	20
Visayas	2026	6	27	5	67	150	150	20
Visayas	2026	6	27	6	67	150	150	20
Visayas	2026	6	27	7	68	150	150	20
Visayas	2026	6	27	8	78	150	150	20
Visayas	2026	6	27	9	90	150	150	20
Visayas	2026	6	27	10	98	150	150	20
Visayas	2026	6	27	11	101	150	150	20
Visayas	2026	6	27	12	97	150	150	20
Visayas	2026	6	27	13	94	150	150	20
Visayas	2026	6	27	14	96	150	150	20
Visayas	2026	6	27	15	94	150	150	20
Visayas	2026	6	27	16	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	27	17	90	150	150	20
Visayas	2026	6	27	18	92	150	150	20
Visayas	2026	6	27	19	101	150	150	20
Visayas	2026	6	27	20	97	150	150	20
Visayas	2026	6	27	21	94	150	150	20
Visayas	2026	6	27	22	86	150	150	20
Visayas	2026	6	27	23	80	150	150	20
Visayas	2026	6	27	24	75	150	150	20
Visayas	2026	6	28	1	71	150	150	20
Visayas	2026	6	28	2	67	150	150	20
Visayas	2026	6	28	3	65	150	150	20
Visayas	2026	6	28	4	62	150	150	20
Visayas	2026	6	28	5	62	150	150	20
Visayas	2026	6	28	6	61	150	150	20
Visayas	2026	6	28	7	60	150	150	20
Visayas	2026	6	28	8	64	150	150	20
Visayas	2026	6	28	9	72	150	150	20
Visayas	2026	6	28	10	76	150	150	20
Visayas	2026	6	28	11	80	150	150	20
Visayas	2026	6	28	12	81	150	150	20
Visayas	2026	6	28	13	81	150	150	20
Visayas	2026	6	28	14	82	150	150	20
Visayas	2026	6	28	15	79	150	150	20
Visayas	2026	6	28	16	78	150	150	20
Visayas	2026	6	28	17	78	150	150	20
Visayas	2026	6	28	18	85	150	150	20
Visayas	2026	6	28	19	93	150	150	20
Visayas	2026	6	28	20	90	150	150	20
Visayas	2026	6	28	21	88	150	150	20
Visayas	2026	6	28	22	82	150	150	20
Visayas	2026	6	28	23	75	150	150	20
Visayas	2026	6	28	24	70	150	150	20
Visayas	2026	6	29	1	65	150	150	20
Visayas	2026	6	29	2	62	150	150	20
Visayas	2026	6	29	3	60	150	150	20
Visayas	2026	6	29	4	59	150	150	20
Visayas	2026	6	29	5	62	150	150	20
Visayas	2026	6	29	6	66	150	150	20
Visayas	2026	6	29	7	66	150	150	20
Visayas	2026	6	29	8	80	150	150	20
Visayas	2026	6	29	9	99	150	150	20
Visayas	2026	6	29	10	110	150	150	20
Visayas	2026	6	29	11	112	150	150	20
Visayas	2026	6	29	12	110	150	150	20
Visayas	2026	6	29	13	109	150	150	20
Visayas	2026	6	29	14	117	150	150	20
Visayas	2026	6	29	15	117	150	150	20
Visayas	2026	6	29	16	111	150	150	20
Visayas	2026	6	29	17	104	150	150	20
Visayas	2026	6	29	18	99	150	150	20
Visayas	2026	6	29	19	107	150	150	20
Visayas	2026	6	29	20	102	150	150	20
Visayas	2026	6	29	21	98	150	150	20
Visayas	2026	6	29	22	91	150	150	20
Visayas	2026	6	29	23	84	150	150	20
Visayas	2026	6	29	24	78	150	150	20
Visayas	2026	6	30	1	74	150	150	20
Visayas	2026	6	30	2	70	150	150	20
Visayas	2026	6	30	3	67	150	150	20
Visayas	2026	6	30	4	66	150	150	20
Visayas	2026	6	30	5	68	150	150	20
Visayas	2026	6	30	6	71	150	150	20
Visayas	2026	6	30	7	71	150	150	20
Visayas	2026	6	30	8	87	150	150	20
Visayas	2026	6	30	9	106	150	150	20
Visayas	2026	6	30	10	111	150	150	20
Visayas	2026	6	30	11	118	150	150	20
Visayas	2026	6	30	12	113	150	150	20
Visayas	2026	6	30	13	114	150	150	20
Visayas	2026	6	30	14	119	150	150	20
Visayas	2026	6	30	15	118	150	150	20
Visayas	2026	6	30	16	113	150	150	20
Visayas	2026	6	30	17	109	150	150	20
Visayas	2026	6	30	18	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	6	30	19	109	150	150	20
Visayas	2026	6	30	20	105	150	150	20
Visayas	2026	6	30	21	99	150	150	20
Visayas	2026	6	30	22	92	150	150	20
Visayas	2026	6	30	23	85	150	150	20
Visayas	2026	6	30	24	80	150	150	20
Visayas	2026	7	1	1	73	150	150	20
Visayas	2026	7	1	2	70	150	150	20
Visayas	2026	7	1	3	67	150	150	20
Visayas	2026	7	1	4	65	150	150	20
Visayas	2026	7	1	5	65	150	150	20
Visayas	2026	7	1	6	64	150	150	20
Visayas	2026	7	1	7	66	150	150	20
Visayas	2026	7	1	8	74	150	150	20
Visayas	2026	7	1	9	84	150	150	20
Visayas	2026	7	1	10	91	150	150	20
Visayas	2026	7	1	11	96	150	150	20
Visayas	2026	7	1	12	96	150	150	20
Visayas	2026	7	1	13	98	150	150	20
Visayas	2026	7	1	14	102	150	150	20
Visayas	2026	7	1	15	102	150	150	20
Visayas	2026	7	1	16	98	150	150	20
Visayas	2026	7	1	17	95	150	150	20
Visayas	2026	7	1	18	99	150	150	20
Visayas	2026	7	1	19	107	150	150	20
Visayas	2026	7	1	20	103	150	150	20
Visayas	2026	7	1	21	99	150	150	20
Visayas	2026	7	1	22	92	150	150	20
Visayas	2026	7	1	23	85	150	150	20
Visayas	2026	7	1	24	80	150	150	20
Visayas	2026	7	2	1	75	150	150	20
Visayas	2026	7	2	2	71	150	150	20
Visayas	2026	7	2	3	68	150	150	20
Visayas	2026	7	2	4	66	150	150	20
Visayas	2026	7	2	5	69	150	150	20
Visayas	2026	7	2	6	72	150	150	20
Visayas	2026	7	2	7	71	150	150	20
Visayas	2026	7	2	8	84	150	150	20
Visayas	2026	7	2	9	103	150	150	20
Visayas	2026	7	2	10	111	150	150	20
Visayas	2026	7	2	11	116	150	150	20
Visayas	2026	7	2	12	113	150	150	20
Visayas	2026	7	2	13	113	150	150	20
Visayas	2026	7	2	14	118	150	150	20
Visayas	2026	7	2	15	116	150	150	20
Visayas	2026	7	2	16	114	150	150	20
Visayas	2026	7	2	17	106	150	150	20
Visayas	2026	7	2	18	103	150	150	20
Visayas	2026	7	2	19	105	150	150	20
Visayas	2026	7	2	20	102	150	150	20
Visayas	2026	7	2	21	97	150	150	20
Visayas	2026	7	2	22	90	150	150	20
Visayas	2026	7	2	23	83	150	150	20
Visayas	2026	7	2	24	78	150	150	20
Visayas	2026	7	3	1	74	150	150	20
Visayas	2026	7	3	2	70	150	150	20
Visayas	2026	7	3	3	68	150	150	20
Visayas	2026	7	3	4	66	150	150	20
Visayas	2026	7	3	5	68	150	150	20
Visayas	2026	7	3	6	70	150	150	20
Visayas	2026	7	3	7	70	150	150	20
Visayas	2026	7	3	8	84	150	150	20
Visayas	2026	7	3	9	102	150	150	20
Visayas	2026	7	3	10	110	150	150	20
Visayas	2026	7	3	11	113	150	150	20
Visayas	2026	7	3	12	110	150	150	20
Visayas	2026	7	3	13	113	150	150	20
Visayas	2026	7	3	14	118	150	150	20
Visayas	2026	7	3	15	117	150	150	20
Visayas	2026	7	3	16	113	150	150	20
Visayas	2026	7	3	17	104	150	150	20
Visayas	2026	7	3	18	104	150	150	20
Visayas	2026	7	3	19	110	150	150	20
Visayas	2026	7	3	20	106	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	3	21	102	150	150	20
Visayas	2026	7	3	22	94	150	150	20
Visayas	2026	7	3	23	87	150	150	20
Visayas	2026	7	3	24	81	150	150	20
Visayas	2026	7	4	1	76	150	150	20
Visayas	2026	7	4	2	72	150	150	20
Visayas	2026	7	4	3	68	150	150	20
Visayas	2026	7	4	4	66	150	150	20
Visayas	2026	7	4	5	66	150	150	20
Visayas	2026	7	4	6	66	150	150	20
Visayas	2026	7	4	7	67	150	150	20
Visayas	2026	7	4	8	78	150	150	20
Visayas	2026	7	4	9	92	150	150	20
Visayas	2026	7	4	10	101	150	150	20
Visayas	2026	7	4	11	107	150	150	20
Visayas	2026	7	4	12	104	150	150	20
Visayas	2026	7	4	13	104	150	150	20
Visayas	2026	7	4	14	109	150	150	20
Visayas	2026	7	4	15	109	150	150	20
Visayas	2026	7	4	16	105	150	150	20
Visayas	2026	7	4	17	100	150	150	20
Visayas	2026	7	4	18	98	150	150	20
Visayas	2026	7	4	19	109	150	150	20
Visayas	2026	7	4	20	105	150	150	20
Visayas	2026	7	4	21	103	150	150	20
Visayas	2026	7	4	22	96	150	150	20
Visayas	2026	7	4	23	88	150	150	20
Visayas	2026	7	4	24	84	150	150	20
Visayas	2026	7	5	1	79	150	150	20
Visayas	2026	7	5	2	75	150	150	20
Visayas	2026	7	5	3	71	150	150	20
Visayas	2026	7	5	4	68	150	150	20
Visayas	2026	7	5	5	66	150	150	20
Visayas	2026	7	5	6	62	150	150	20
Visayas	2026	7	5	7	62	150	150	20
Visayas	2026	7	5	8	66	150	150	20
Visayas	2026	7	5	9	73	150	150	20
Visayas	2026	7	5	10	80	150	150	20
Visayas	2026	7	5	11	84	150	150	20
Visayas	2026	7	5	12	83	150	150	20
Visayas	2026	7	5	13	84	150	150	20
Visayas	2026	7	5	14	87	150	150	20
Visayas	2026	7	5	15	86	150	150	20
Visayas	2026	7	5	16	86	150	150	20
Visayas	2026	7	5	17	82	150	150	20
Visayas	2026	7	5	18	90	150	150	20
Visayas	2026	7	5	19	100	150	150	20
Visayas	2026	7	5	20	97	150	150	20
Visayas	2026	7	5	21	95	150	150	20
Visayas	2026	7	5	22	90	150	150	20
Visayas	2026	7	5	23	83	150	150	20
Visayas	2026	7	5	24	78	150	150	20
Visayas	2026	7	6	1	75	150	150	20
Visayas	2026	7	6	2	71	150	150	20
Visayas	2026	7	6	3	67	150	150	20
Visayas	2026	7	6	4	65	150	150	20
Visayas	2026	7	6	5	67	150	150	20
Visayas	2026	7	6	6	71	150	150	20
Visayas	2026	7	6	7	70	150	150	20
Visayas	2026	7	6	8	85	150	150	20
Visayas	2026	7	6	9	103	150	150	20
Visayas	2026	7	6	10	113	150	150	20
Visayas	2026	7	6	11	115	150	150	20
Visayas	2026	7	6	12	115	150	150	20
Visayas	2026	7	6	13	113	150	150	20
Visayas	2026	7	6	14	120	150	150	20
Visayas	2026	7	6	15	118	150	150	20
Visayas	2026	7	6	16	114	150	150	20
Visayas	2026	7	6	17	107	150	150	20
Visayas	2026	7	6	18	104	150	150	20
Visayas	2026	7	6	19	110	150	150	20
Visayas	2026	7	6	20	105	150	150	20
Visayas	2026	7	6	21	101	150	150	20
Visayas	2026	7	6	22	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	6	23	87	150	150	20
Visayas	2026	7	6	24	81	150	150	20
Visayas	2026	7	7	1	77	150	150	20
Visayas	2026	7	7	2	73	150	150	20
Visayas	2026	7	7	3	69	150	150	20
Visayas	2026	7	7	4	67	150	150	20
Visayas	2026	7	7	5	69	150	150	20
Visayas	2026	7	7	6	72	150	150	20
Visayas	2026	7	7	7	72	150	150	20
Visayas	2026	7	7	8	87	150	150	20
Visayas	2026	7	7	9	106	150	150	20
Visayas	2026	7	7	10	115	150	150	20
Visayas	2026	7	7	11	121	150	150	20
Visayas	2026	7	7	12	120	150	150	20
Visayas	2026	7	7	13	120	150	150	20
Visayas	2026	7	7	14	126	150	150	20
Visayas	2026	7	7	15	125	150	150	20
Visayas	2026	7	7	16	123	150	150	20
Visayas	2026	7	7	17	113	150	150	20
Visayas	2026	7	7	18	108	150	150	20
Visayas	2026	7	7	19	115	150	150	20
Visayas	2026	7	7	20	110	150	150	20
Visayas	2026	7	7	21	106	150	150	20
Visayas	2026	7	7	22	98	150	150	20
Visayas	2026	7	7	23	91	150	150	20
Visayas	2026	7	7	24	85	150	150	20
Visayas	2026	7	8	1	81	150	150	20
Visayas	2026	7	8	2	75	150	150	20
Visayas	2026	7	8	3	71	150	150	20
Visayas	2026	7	8	4	67	150	150	20
Visayas	2026	7	8	5	68	150	150	20
Visayas	2026	7	8	6	70	150	150	20
Visayas	2026	7	8	7	70	150	150	20
Visayas	2026	7	8	8	83	150	150	20
Visayas	2026	7	8	9	99	150	150	20
Visayas	2026	7	8	10	107	150	150	20
Visayas	2026	7	8	11	113	150	150	20
Visayas	2026	7	8	12	109	150	150	20
Visayas	2026	7	8	13	109	150	150	20
Visayas	2026	7	8	14	117	150	150	20
Visayas	2026	7	8	15	115	150	150	20
Visayas	2026	7	8	16	113	150	150	20
Visayas	2026	7	8	17	106	150	150	20
Visayas	2026	7	8	18	102	150	150	20
Visayas	2026	7	8	19	110	150	150	20
Visayas	2026	7	8	20	105	150	150	20
Visayas	2026	7	8	21	101	150	150	20
Visayas	2026	7	8	22	94	150	150	20
Visayas	2026	7	8	23	87	150	150	20
Visayas	2026	7	8	24	79	150	150	20
Visayas	2026	7	9	1	75	150	150	20
Visayas	2026	7	9	2	74	150	150	20
Visayas	2026	7	9	3	71	150	150	20
Visayas	2026	7	9	4	69	150	150	20
Visayas	2026	7	9	5	70	150	150	20
Visayas	2026	7	9	6	73	150	150	20
Visayas	2026	7	9	7	74	150	150	20
Visayas	2026	7	9	8	87	150	150	20
Visayas	2026	7	9	9	106	150	150	20
Visayas	2026	7	9	10	114	150	150	20
Visayas	2026	7	9	11	121	150	150	20
Visayas	2026	7	9	12	118	150	150	20
Visayas	2026	7	9	13	120	150	150	20
Visayas	2026	7	9	14	126	150	150	20
Visayas	2026	7	9	15	124	150	150	20
Visayas	2026	7	9	16	121	150	150	20
Visayas	2026	7	9	17	112	150	150	20
Visayas	2026	7	9	18	108	150	150	20
Visayas	2026	7	9	19	114	150	150	20
Visayas	2026	7	9	20	111	150	150	20
Visayas	2026	7	9	21	107	150	150	20
Visayas	2026	7	9	22	99	150	150	20
Visayas	2026	7	9	23	92	150	150	20
Visayas	2026	7	9	24	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	10	1	81	150	150	20
Visayas	2026	7	10	2	78	150	150	20
Visayas	2026	7	10	3	74	150	150	20
Visayas	2026	7	10	4	71	150	150	20
Visayas	2026	7	10	5	73	150	150	20
Visayas	2026	7	10	6	75	150	150	20
Visayas	2026	7	10	7	76	150	150	20
Visayas	2026	7	10	8	89	150	150	20
Visayas	2026	7	10	9	107	150	150	20
Visayas	2026	7	10	10	116	150	150	20
Visayas	2026	7	10	11	123	150	150	20
Visayas	2026	7	10	12	120	150	150	20
Visayas	2026	7	10	13	120	150	150	20
Visayas	2026	7	10	14	125	150	150	20
Visayas	2026	7	10	15	125	150	150	20
Visayas	2026	7	10	16	121	150	150	20
Visayas	2026	7	10	17	110	150	150	20
Visayas	2026	7	10	18	106	150	150	20
Visayas	2026	7	10	19	112	150	150	20
Visayas	2026	7	10	20	108	150	150	20
Visayas	2026	7	10	21	103	150	150	20
Visayas	2026	7	10	22	96	150	150	20
Visayas	2026	7	10	23	89	150	150	20
Visayas	2026	7	10	24	84	150	150	20
Visayas	2026	7	11	1	80	150	150	20
Visayas	2026	7	11	2	76	150	150	20
Visayas	2026	7	11	3	73	150	150	20
Visayas	2026	7	11	4	70	150	150	20
Visayas	2026	7	11	5	70	150	150	20
Visayas	2026	7	11	6	67	150	150	20
Visayas	2026	7	11	7	68	150	150	20
Visayas	2026	7	11	8	79	150	150	20
Visayas	2026	7	11	9	91	150	150	20
Visayas	2026	7	11	10	97	150	150	20
Visayas	2026	7	11	11	103	150	150	20
Visayas	2026	7	11	12	101	150	150	20
Visayas	2026	7	11	13	102	150	150	20
Visayas	2026	7	11	14	109	150	150	20
Visayas	2026	7	11	15	109	150	150	20
Visayas	2026	7	11	16	104	150	150	20
Visayas	2026	7	11	17	100	150	150	20
Visayas	2026	7	11	18	100	150	150	20
Visayas	2026	7	11	19	111	150	150	20
Visayas	2026	7	11	20	108	150	150	20
Visayas	2026	7	11	21	106	150	150	20
Visayas	2026	7	11	22	99	150	150	20
Visayas	2026	7	11	23	92	150	150	20
Visayas	2026	7	11	24	86	150	150	20
Visayas	2026	7	12	1	81	150	150	20
Visayas	2026	7	12	2	77	150	150	20
Visayas	2026	7	12	3	74	150	150	20
Visayas	2026	7	12	4	69	150	150	20
Visayas	2026	7	12	5	69	150	150	20
Visayas	2026	7	12	6	67	150	150	20
Visayas	2026	7	12	7	67	150	150	20
Visayas	2026	7	12	8	71	150	150	20
Visayas	2026	7	12	9	78	150	150	20
Visayas	2026	7	12	10	82	150	150	20
Visayas	2026	7	12	11	86	150	150	20
Visayas	2026	7	12	12	84	150	150	20
Visayas	2026	7	12	13	84	150	150	20
Visayas	2026	7	12	14	85	150	150	20
Visayas	2026	7	12	15	82	150	150	20
Visayas	2026	7	12	16	84	150	150	20
Visayas	2026	7	12	17	84	150	150	20
Visayas	2026	7	12	18	89	150	150	20
Visayas	2026	7	12	19	98	150	150	20
Visayas	2026	7	12	20	94	150	150	20
Visayas	2026	7	12	21	92	150	150	20
Visayas	2026	7	12	22	85	150	150	20
Visayas	2026	7	12	23	80	150	150	20
Visayas	2026	7	12	24	75	150	150	20
Visayas	2026	7	13	1	69	150	150	20
Visayas	2026	7	13	2	67	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	13	3	64	150	150	20
Visayas	2026	7	13	4	63	150	150	20
Visayas	2026	7	13	5	65	150	150	20
Visayas	2026	7	13	6	68	150	150	20
Visayas	2026	7	13	7	70	150	150	20
Visayas	2026	7	13	8	84	150	150	20
Visayas	2026	7	13	9	103	150	150	20
Visayas	2026	7	13	10	114	150	150	20
Visayas	2026	7	13	11	120	150	150	20
Visayas	2026	7	13	12	118	150	150	20
Visayas	2026	7	13	13	116	150	150	20
Visayas	2026	7	13	14	121	150	150	20
Visayas	2026	7	13	15	118	150	150	20
Visayas	2026	7	13	16	114	150	150	20
Visayas	2026	7	13	17	109	150	150	20
Visayas	2026	7	13	18	105	150	150	20
Visayas	2026	7	13	19	111	150	150	20
Visayas	2026	7	13	20	106	150	150	20
Visayas	2026	7	13	21	101	150	150	20
Visayas	2026	7	13	22	92	150	150	20
Visayas	2026	7	13	23	86	150	150	20
Visayas	2026	7	13	24	80	150	150	20
Visayas	2026	7	14	1	76	150	150	20
Visayas	2026	7	14	2	71	150	150	20
Visayas	2026	7	14	3	69	150	150	20
Visayas	2026	7	14	4	66	150	150	20
Visayas	2026	7	14	5	69	150	150	20
Visayas	2026	7	14	6	71	150	150	20
Visayas	2026	7	14	7	72	150	150	20
Visayas	2026	7	14	8	88	150	150	20
Visayas	2026	7	14	9	104	150	150	20
Visayas	2026	7	14	10	113	150	150	20
Visayas	2026	7	14	11	117	150	150	20
Visayas	2026	7	14	12	116	150	150	20
Visayas	2026	7	14	13	113	150	150	20
Visayas	2026	7	14	14	118	150	150	20
Visayas	2026	7	14	15	115	150	150	20
Visayas	2026	7	14	16	113	150	150	20
Visayas	2026	7	14	17	107	150	150	20
Visayas	2026	7	14	18	104	150	150	20
Visayas	2026	7	14	19	112	150	150	20
Visayas	2026	7	14	20	107	150	150	20
Visayas	2026	7	14	21	102	150	150	20
Visayas	2026	7	14	22	95	150	150	20
Visayas	2026	7	14	23	88	150	150	20
Visayas	2026	7	14	24	83	150	150	20
Visayas	2026	7	15	1	78	150	150	20
Visayas	2026	7	15	2	74	150	150	20
Visayas	2026	7	15	3	71	150	150	20
Visayas	2026	7	15	4	69	150	150	20
Visayas	2026	7	15	5	71	150	150	20
Visayas	2026	7	15	6	71	150	150	20
Visayas	2026	7	15	7	71	150	150	20
Visayas	2026	7	15	8	85	150	150	20
Visayas	2026	7	15	9	104	150	150	20
Visayas	2026	7	15	10	111	150	150	20
Visayas	2026	7	15	11	116	150	150	20
Visayas	2026	7	15	12	114	150	150	20
Visayas	2026	7	15	13	113	150	150	20
Visayas	2026	7	15	14	118	150	150	20
Visayas	2026	7	15	15	114	150	150	20
Visayas	2026	7	15	16	108	150	150	20
Visayas	2026	7	15	17	101	150	150	20
Visayas	2026	7	15	18	102	150	150	20
Visayas	2026	7	15	19	106	150	150	20
Visayas	2026	7	15	20	101	150	150	20
Visayas	2026	7	15	21	98	150	150	20
Visayas	2026	7	15	22	92	150	150	20
Visayas	2026	7	15	23	85	150	150	20
Visayas	2026	7	15	24	79	150	150	20
Visayas	2026	7	16	1	75	150	150	20
Visayas	2026	7	16	2	71	150	150	20
Visayas	2026	7	16	3	68	150	150	20
Visayas	2026	7	16	4	66	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	16	5	66	150	150	20
Visayas	2026	7	16	6	68	150	150	20
Visayas	2026	7	16	7	71	150	150	20
Visayas	2026	7	16	8	83	150	150	20
Visayas	2026	7	16	9	101	150	150	20
Visayas	2026	7	16	10	107	150	150	20
Visayas	2026	7	16	11	108	150	150	20
Visayas	2026	7	16	12	102	150	150	20
Visayas	2026	7	16	13	102	150	150	20
Visayas	2026	7	16	14	110	150	150	20
Visayas	2026	7	16	15	108	150	150	20
Visayas	2026	7	16	16	105	150	150	20
Visayas	2026	7	16	17	99	150	150	20
Visayas	2026	7	16	18	99	150	150	20
Visayas	2026	7	16	19	100	150	150	20
Visayas	2026	7	16	20	94	150	150	20
Visayas	2026	7	16	21	89	150	150	20
Visayas	2026	7	16	22	83	150	150	20
Visayas	2026	7	16	23	77	150	150	20
Visayas	2026	7	16	24	73	150	150	20
Visayas	2026	7	17	1	68	150	150	20
Visayas	2026	7	17	2	64	150	150	20
Visayas	2026	7	17	3	62	150	150	20
Visayas	2026	7	17	4	60	150	150	20
Visayas	2026	7	17	5	62	150	150	20
Visayas	2026	7	17	6	66	150	150	20
Visayas	2026	7	17	7	69	150	150	20
Visayas	2026	7	17	8	80	150	150	20
Visayas	2026	7	17	9	96	150	150	20
Visayas	2026	7	17	10	105	150	150	20
Visayas	2026	7	17	11	107	150	150	20
Visayas	2026	7	17	12	103	150	150	20
Visayas	2026	7	17	13	100	150	150	20
Visayas	2026	7	17	14	107	150	150	20
Visayas	2026	7	17	15	107	150	150	20
Visayas	2026	7	17	16	104	150	150	20
Visayas	2026	7	17	17	98	150	150	20
Visayas	2026	7	17	18	97	150	150	20
Visayas	2026	7	17	19	100	150	150	20
Visayas	2026	7	17	20	97	150	150	20
Visayas	2026	7	17	21	91	150	150	20
Visayas	2026	7	17	22	83	150	150	20
Visayas	2026	7	17	23	76	150	150	20
Visayas	2026	7	17	24	72	150	150	20
Visayas	2026	7	18	1	67	150	150	20
Visayas	2026	7	18	2	64	150	150	20
Visayas	2026	7	18	3	62	150	150	20
Visayas	2026	7	18	4	61	150	150	20
Visayas	2026	7	18	5	62	150	150	20
Visayas	2026	7	18	6	62	150	150	20
Visayas	2026	7	18	7	61	150	150	20
Visayas	2026	7	18	8	66	150	150	20
Visayas	2026	7	18	9	81	150	150	20
Visayas	2026	7	18	10	88	150	150	20
Visayas	2026	7	18	11	90	150	150	20
Visayas	2026	7	18	12	85	150	150	20
Visayas	2026	7	18	13	87	150	150	20
Visayas	2026	7	18	14	92	150	150	20
Visayas	2026	7	18	15	90	150	150	20
Visayas	2026	7	18	16	89	150	150	20
Visayas	2026	7	18	17	88	150	150	20
Visayas	2026	7	18	18	89	150	150	20
Visayas	2026	7	18	19	96	150	150	20
Visayas	2026	7	18	20	91	150	150	20
Visayas	2026	7	18	21	88	150	150	20
Visayas	2026	7	18	22	82	150	150	20
Visayas	2026	7	18	23	76	150	150	20
Visayas	2026	7	18	24	70	150	150	20
Visayas	2026	7	19	1	67	150	150	20
Visayas	2026	7	19	2	64	150	150	20
Visayas	2026	7	19	3	62	150	150	20
Visayas	2026	7	19	4	60	150	150	20
Visayas	2026	7	19	5	59	150	150	20
Visayas	2026	7	19	6	59	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	19	7	58	150	150	20
Visayas	2026	7	19	8	62	150	150	20
Visayas	2026	7	19	9	70	150	150	20
Visayas	2026	7	19	10	74	150	150	20
Visayas	2026	7	19	11	79	150	150	20
Visayas	2026	7	19	12	77	150	150	20
Visayas	2026	7	19	13	79	150	150	20
Visayas	2026	7	19	14	79	150	150	20
Visayas	2026	7	19	15	80	150	150	20
Visayas	2026	7	19	16	79	150	150	20
Visayas	2026	7	19	17	79	150	150	20
Visayas	2026	7	19	18	82	150	150	20
Visayas	2026	7	19	19	92	150	150	20
Visayas	2026	7	19	20	90	150	150	20
Visayas	2026	7	19	21	87	150	150	20
Visayas	2026	7	19	22	80	150	150	20
Visayas	2026	7	19	23	73	150	150	20
Visayas	2026	7	19	24	69	150	150	20
Visayas	2026	7	20	1	65	150	150	20
Visayas	2026	7	20	2	62	150	150	20
Visayas	2026	7	20	3	59	150	150	20
Visayas	2026	7	20	4	58	150	150	20
Visayas	2026	7	20	5	59	150	150	20
Visayas	2026	7	20	6	62	150	150	20
Visayas	2026	7	20	7	65	150	150	20
Visayas	2026	7	20	8	79	150	150	20
Visayas	2026	7	20	9	95	150	150	20
Visayas	2026	7	20	10	103	150	150	20
Visayas	2026	7	20	11	110	150	150	20
Visayas	2026	7	20	12	106	150	150	20
Visayas	2026	7	20	13	111	150	150	20
Visayas	2026	7	20	14	112	150	150	20
Visayas	2026	7	20	15	109	150	150	20
Visayas	2026	7	20	16	105	150	150	20
Visayas	2026	7	20	17	96	150	150	20
Visayas	2026	7	20	18	97	150	150	20
Visayas	2026	7	20	19	104	150	150	20
Visayas	2026	7	20	20	98	150	150	20
Visayas	2026	7	20	21	93	150	150	20
Visayas	2026	7	20	22	87	150	150	20
Visayas	2026	7	20	23	80	150	150	20
Visayas	2026	7	20	24	74	150	150	20
Visayas	2026	7	21	1	70	150	150	20
Visayas	2026	7	21	2	66	150	150	20
Visayas	2026	7	21	3	64	150	150	20
Visayas	2026	7	21	4	62	150	150	20
Visayas	2026	7	21	5	63	150	150	20
Visayas	2026	7	21	6	66	150	150	20
Visayas	2026	7	21	7	68	150	150	20
Visayas	2026	7	21	8	81	150	150	20
Visayas	2026	7	21	9	99	150	150	20
Visayas	2026	7	21	10	108	150	150	20
Visayas	2026	7	21	11	113	150	150	20
Visayas	2026	7	21	12	114	150	150	20
Visayas	2026	7	21	13	110	150	150	20
Visayas	2026	7	21	14	119	150	150	20
Visayas	2026	7	21	15	119	150	150	20
Visayas	2026	7	21	16	112	150	150	20
Visayas	2026	7	21	17	104	150	150	20
Visayas	2026	7	21	18	101	150	150	20
Visayas	2026	7	21	19	105	150	150	20
Visayas	2026	7	21	20	100	150	150	20
Visayas	2026	7	21	21	96	150	150	20
Visayas	2026	7	21	22	88	150	150	20
Visayas	2026	7	21	23	83	150	150	20
Visayas	2026	7	21	24	76	150	150	20
Visayas	2026	7	22	1	72	150	150	20
Visayas	2026	7	22	2	67	150	150	20
Visayas	2026	7	22	3	65	150	150	20
Visayas	2026	7	22	4	63	150	150	20
Visayas	2026	7	22	5	64	150	150	20
Visayas	2026	7	22	6	67	150	150	20
Visayas	2026	7	22	7	69	150	150	20
Visayas	2026	7	22	8	80	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	22	9	95	150	150	20
Visayas	2026	7	22	10	102	150	150	20
Visayas	2026	7	22	11	104	150	150	20
Visayas	2026	7	22	12	101	150	150	20
Visayas	2026	7	22	13	100	150	150	20
Visayas	2026	7	22	14	105	150	150	20
Visayas	2026	7	22	15	104	150	150	20
Visayas	2026	7	22	16	103	150	150	20
Visayas	2026	7	22	17	98	150	150	20
Visayas	2026	7	22	18	97	150	150	20
Visayas	2026	7	22	19	101	150	150	20
Visayas	2026	7	22	20	94	150	150	20
Visayas	2026	7	22	21	91	150	150	20
Visayas	2026	7	22	22	83	150	150	20
Visayas	2026	7	22	23	77	150	150	20
Visayas	2026	7	22	24	72	150	150	20
Visayas	2026	7	23	1	66	150	150	20
Visayas	2026	7	23	2	63	150	150	20
Visayas	2026	7	23	3	62	150	150	20
Visayas	2026	7	23	4	60	150	150	20
Visayas	2026	7	23	5	62	150	150	20
Visayas	2026	7	23	6	65	150	150	20
Visayas	2026	7	23	7	67	150	150	20
Visayas	2026	7	23	8	82	150	150	20
Visayas	2026	7	23	9	98	150	150	20
Visayas	2026	7	23	10	107	150	150	20
Visayas	2026	7	23	11	111	150	150	20
Visayas	2026	7	23	12	108	150	150	20
Visayas	2026	7	23	13	107	150	150	20
Visayas	2026	7	23	14	114	150	150	20
Visayas	2026	7	23	15	112	150	150	20
Visayas	2026	7	23	16	108	150	150	20
Visayas	2026	7	23	17	101	150	150	20
Visayas	2026	7	23	18	100	150	150	20
Visayas	2026	7	23	19	102	150	150	20
Visayas	2026	7	23	20	97	150	150	20
Visayas	2026	7	23	21	94	150	150	20
Visayas	2026	7	23	22	86	150	150	20
Visayas	2026	7	23	23	80	150	150	20
Visayas	2026	7	23	24	74	150	150	20
Visayas	2026	7	24	1	70	150	150	20
Visayas	2026	7	24	2	67	150	150	20
Visayas	2026	7	24	3	64	150	150	20
Visayas	2026	7	24	4	63	150	150	20
Visayas	2026	7	24	5	62	150	150	20
Visayas	2026	7	24	6	65	150	150	20
Visayas	2026	7	24	7	68	150	150	20
Visayas	2026	7	24	8	81	150	150	20
Visayas	2026	7	24	9	96	150	150	20
Visayas	2026	7	24	10	107	150	150	20
Visayas	2026	7	24	11	114	150	150	20
Visayas	2026	7	24	12	111	150	150	20
Visayas	2026	7	24	13	112	150	150	20
Visayas	2026	7	24	14	117	150	150	20
Visayas	2026	7	24	15	116	150	150	20
Visayas	2026	7	24	16	112	150	150	20
Visayas	2026	7	24	17	104	150	150	20
Visayas	2026	7	24	18	103	150	150	20
Visayas	2026	7	24	19	106	150	150	20
Visayas	2026	7	24	20	100	150	150	20
Visayas	2026	7	24	21	96	150	150	20
Visayas	2026	7	24	22	89	150	150	20
Visayas	2026	7	24	23	82	150	150	20
Visayas	2026	7	24	24	76	150	150	20
Visayas	2026	7	25	1	72	150	150	20
Visayas	2026	7	25	2	69	150	150	20
Visayas	2026	7	25	3	66	150	150	20
Visayas	2026	7	25	4	65	150	150	20
Visayas	2026	7	25	5	65	150	150	20
Visayas	2026	7	25	6	65	150	150	20
Visayas	2026	7	25	7	65	150	150	20
Visayas	2026	7	25	8	74	150	150	20
Visayas	2026	7	25	9	84	150	150	20
Visayas	2026	7	25	10	88	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	25	11	93	150	150	20
Visayas	2026	7	25	12	90	150	150	20
Visayas	2026	7	25	13	91	150	150	20
Visayas	2026	7	25	14	96	150	150	20
Visayas	2026	7	25	15	96	150	150	20
Visayas	2026	7	25	16	93	150	150	20
Visayas	2026	7	25	17	90	150	150	20
Visayas	2026	7	25	18	93	150	150	20
Visayas	2026	7	25	19	102	150	150	20
Visayas	2026	7	25	20	94	150	150	20
Visayas	2026	7	25	21	92	150	150	20
Visayas	2026	7	25	22	85	150	150	20
Visayas	2026	7	25	23	81	150	150	20
Visayas	2026	7	25	24	75	150	150	20
Visayas	2026	7	26	1	71	150	150	20
Visayas	2026	7	26	2	67	150	150	20
Visayas	2026	7	26	3	65	150	150	20
Visayas	2026	7	26	4	63	150	150	20
Visayas	2026	7	26	5	63	150	150	20
Visayas	2026	7	26	6	63	150	150	20
Visayas	2026	7	26	7	61	150	150	20
Visayas	2026	7	26	8	63	150	150	20
Visayas	2026	7	26	9	71	150	150	20
Visayas	2026	7	26	10	77	150	150	20
Visayas	2026	7	26	11	78	150	150	20
Visayas	2026	7	26	12	76	150	150	20
Visayas	2026	7	26	13	75	150	150	20
Visayas	2026	7	26	14	75	150	150	20
Visayas	2026	7	26	15	75	150	150	20
Visayas	2026	7	26	16	75	150	150	20
Visayas	2026	7	26	17	78	150	150	20
Visayas	2026	7	26	18	85	150	150	20
Visayas	2026	7	26	19	92	150	150	20
Visayas	2026	7	26	20	88	150	150	20
Visayas	2026	7	26	21	84	150	150	20
Visayas	2026	7	26	22	79	150	150	20
Visayas	2026	7	26	23	72	150	150	20
Visayas	2026	7	26	24	66	150	150	20
Visayas	2026	7	27	1	63	150	150	20
Visayas	2026	7	27	2	60	150	150	20
Visayas	2026	7	27	3	59	150	150	20
Visayas	2026	7	27	4	57	150	150	20
Visayas	2026	7	27	5	59	150	150	20
Visayas	2026	7	27	6	62	150	150	20
Visayas	2026	7	27	7	65	150	150	20
Visayas	2026	7	27	8	78	150	150	20
Visayas	2026	7	27	9	94	150	150	20
Visayas	2026	7	27	10	102	150	150	20
Visayas	2026	7	27	11	103	150	150	20
Visayas	2026	7	27	12	99	150	150	20
Visayas	2026	7	27	13	95	150	150	20
Visayas	2026	7	27	14	101	150	150	20
Visayas	2026	7	27	15	103	150	150	20
Visayas	2026	7	27	16	102	150	150	20
Visayas	2026	7	27	17	97	150	150	20
Visayas	2026	7	27	18	94	150	150	20
Visayas	2026	7	27	19	94	150	150	20
Visayas	2026	7	27	20	91	150	150	20
Visayas	2026	7	27	21	84	150	150	20
Visayas	2026	7	27	22	78	150	150	20
Visayas	2026	7	27	23	73	150	150	20
Visayas	2026	7	27	24	69	150	150	20
Visayas	2026	7	28	1	66	150	150	20
Visayas	2026	7	28	2	62	150	150	20
Visayas	2026	7	28	3	60	150	150	20
Visayas	2026	7	28	4	60	150	150	20
Visayas	2026	7	28	5	61	150	150	20
Visayas	2026	7	28	6	64	150	150	20
Visayas	2026	7	28	7	66	150	150	20
Visayas	2026	7	28	8	78	150	150	20
Visayas	2026	7	28	9	92	150	150	20
Visayas	2026	7	28	10	98	150	150	20
Visayas	2026	7	28	11	94	150	150	20
Visayas	2026	7	28	12	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	28	13	92	150	150	20
Visayas	2026	7	28	14	96	150	150	20
Visayas	2026	7	28	15	95	150	150	20
Visayas	2026	7	28	16	95	150	150	20
Visayas	2026	7	28	17	91	150	150	20
Visayas	2026	7	28	18	89	150	150	20
Visayas	2026	7	28	19	92	150	150	20
Visayas	2026	7	28	20	88	150	150	20
Visayas	2026	7	28	21	83	150	150	20
Visayas	2026	7	28	22	76	150	150	20
Visayas	2026	7	28	23	71	150	150	20
Visayas	2026	7	28	24	66	150	150	20
Visayas	2026	7	29	1	64	150	150	20
Visayas	2026	7	29	2	62	150	150	20
Visayas	2026	7	29	3	60	150	150	20
Visayas	2026	7	29	4	59	150	150	20
Visayas	2026	7	29	5	60	150	150	20
Visayas	2026	7	29	6	62	150	150	20
Visayas	2026	7	29	7	65	150	150	20
Visayas	2026	7	29	8	77	150	150	20
Visayas	2026	7	29	9	92	150	150	20
Visayas	2026	7	29	10	99	150	150	20
Visayas	2026	7	29	11	104	150	150	20
Visayas	2026	7	29	12	99	150	150	20
Visayas	2026	7	29	13	99	150	150	20
Visayas	2026	7	29	14	103	150	150	20
Visayas	2026	7	29	15	105	150	150	20
Visayas	2026	7	29	16	99	150	150	20
Visayas	2026	7	29	17	81	150	150	20
Visayas	2026	7	29	18	88	150	150	20
Visayas	2026	7	29	19	95	150	150	20
Visayas	2026	7	29	20	90	150	150	20
Visayas	2026	7	29	21	87	150	150	20
Visayas	2026	7	29	22	81	150	150	20
Visayas	2026	7	29	23	76	150	150	20
Visayas	2026	7	29	24	70	150	150	20
Visayas	2026	7	30	1	67	150	150	20
Visayas	2026	7	30	2	63	150	150	20
Visayas	2026	7	30	3	62	150	150	20
Visayas	2026	7	30	4	62	150	150	20
Visayas	2026	7	30	5	61	150	150	20
Visayas	2026	7	30	6	65	150	150	20
Visayas	2026	7	30	7	65	150	150	20
Visayas	2026	7	30	8	79	150	150	20
Visayas	2026	7	30	9	95	150	150	20
Visayas	2026	7	30	10	103	150	150	20
Visayas	2026	7	30	11	111	150	150	20
Visayas	2026	7	30	12	104	150	150	20
Visayas	2026	7	30	13	106	150	150	20
Visayas	2026	7	30	14	114	150	150	20
Visayas	2026	7	30	15	114	150	150	20
Visayas	2026	7	30	16	110	150	150	20
Visayas	2026	7	30	17	101	150	150	20
Visayas	2026	7	30	18	100	150	150	20
Visayas	2026	7	30	19	105	150	150	20
Visayas	2026	7	30	20	98	150	150	20
Visayas	2026	7	30	21	94	150	150	20
Visayas	2026	7	30	22	86	150	150	20
Visayas	2026	7	30	23	81	150	150	20
Visayas	2026	7	30	24	76	150	150	20
Visayas	2026	7	31	1	71	150	150	20
Visayas	2026	7	31	2	67	150	150	20
Visayas	2026	7	31	3	64	150	150	20
Visayas	2026	7	31	4	63	150	150	20
Visayas	2026	7	31	5	63	150	150	20
Visayas	2026	7	31	6	66	150	150	20
Visayas	2026	7	31	7	67	150	150	20
Visayas	2026	7	31	8	80	150	150	20
Visayas	2026	7	31	9	96	150	150	20
Visayas	2026	7	31	10	103	150	150	20
Visayas	2026	7	31	11	109	150	150	20
Visayas	2026	7	31	12	107	150	150	20
Visayas	2026	7	31	13	104	150	150	20
Visayas	2026	7	31	14	110	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	7	31	15	111	150	150	20
Visayas	2026	7	31	16	105	150	150	20
Visayas	2026	7	31	17	101	150	150	20
Visayas	2026	7	31	18	100	150	150	20
Visayas	2026	7	31	19	104	150	150	20
Visayas	2026	7	31	20	100	150	150	20
Visayas	2026	7	31	21	97	150	150	20
Visayas	2026	7	31	22	90	150	150	20
Visayas	2026	7	31	23	84	150	150	20
Visayas	2026	7	31	24	78	150	150	20
Visayas	2026	8	1	1	74	150	150	20
Visayas	2026	8	1	2	72	150	150	20
Visayas	2026	8	1	3	66	150	150	20
Visayas	2026	8	1	4	63	150	150	20
Visayas	2026	8	1	5	64	150	150	20
Visayas	2026	8	1	6	66	150	150	20
Visayas	2026	8	1	7	64	150	150	20
Visayas	2026	8	1	8	74	150	150	20
Visayas	2026	8	1	9	84	150	150	20
Visayas	2026	8	1	10	89	150	150	20
Visayas	2026	8	1	11	93	150	150	20
Visayas	2026	8	1	12	91	150	150	20
Visayas	2026	8	1	13	89	150	150	20
Visayas	2026	8	1	14	93	150	150	20
Visayas	2026	8	1	15	92	150	150	20
Visayas	2026	8	1	16	89	150	150	20
Visayas	2026	8	1	17	88	150	150	20
Visayas	2026	8	1	18	93	150	150	20
Visayas	2026	8	1	19	97	150	150	20
Visayas	2026	8	1	20	93	150	150	20
Visayas	2026	8	1	21	89	150	150	20
Visayas	2026	8	1	22	84	150	150	20
Visayas	2026	8	1	23	80	150	150	20
Visayas	2026	8	1	24	75	150	150	20
Visayas	2026	8	2	1	69	150	150	20
Visayas	2026	8	2	2	66	150	150	20
Visayas	2026	8	2	3	64	150	150	20
Visayas	2026	8	2	4	63	150	150	20
Visayas	2026	8	2	5	61	150	150	20
Visayas	2026	8	2	6	62	150	150	20
Visayas	2026	8	2	7	59	150	150	20
Visayas	2026	8	2	8	63	150	150	20
Visayas	2026	8	2	9	70	150	150	20
Visayas	2026	8	2	10	76	150	150	20
Visayas	2026	8	2	11	80	150	150	20
Visayas	2026	8	2	12	80	150	150	20
Visayas	2026	8	2	13	80	150	150	20
Visayas	2026	8	2	14	82	150	150	20
Visayas	2026	8	2	15	82	150	150	20
Visayas	2026	8	2	16	82	150	150	20
Visayas	2026	8	2	17	83	150	150	20
Visayas	2026	8	2	18	90	150	150	20
Visayas	2026	8	2	19	98	150	150	20
Visayas	2026	8	2	20	95	150	150	20
Visayas	2026	8	2	21	92	150	150	20
Visayas	2026	8	2	22	87	150	150	20
Visayas	2026	8	2	23	78	150	150	20
Visayas	2026	8	2	24	74	150	150	20
Visayas	2026	8	3	1	70	150	150	20
Visayas	2026	8	3	2	67	150	150	20
Visayas	2026	8	3	3	64	150	150	20
Visayas	2026	8	3	4	62	150	150	20
Visayas	2026	8	3	5	63	150	150	20
Visayas	2026	8	3	6	66	150	150	20
Visayas	2026	8	3	7	69	150	150	20
Visayas	2026	8	3	8	84	150	150	20
Visayas	2026	8	3	9	102	150	150	20
Visayas	2026	8	3	10	112	150	150	20
Visayas	2026	8	3	11	118	150	150	20
Visayas	2026	8	3	12	117	150	150	20
Visayas	2026	8	3	13	119	150	150	20
Visayas	2026	8	3	14	124	150	150	20
Visayas	2026	8	3	15	126	150	150	20
Visayas	2026	8	3	16	121	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	3	17	111	150	150	20
Visayas	2026	8	3	18	105	150	150	20
Visayas	2026	8	3	19	115	150	150	20
Visayas	2026	8	3	20	109	150	150	20
Visayas	2026	8	3	21	105	150	150	20
Visayas	2026	8	3	22	97	150	150	20
Visayas	2026	8	3	23	91	150	150	20
Visayas	2026	8	3	24	84	150	150	20
Visayas	2026	8	4	1	79	150	150	20
Visayas	2026	8	4	2	74	150	150	20
Visayas	2026	8	4	3	71	150	150	20
Visayas	2026	8	4	4	69	150	150	20
Visayas	2026	8	4	5	70	150	150	20
Visayas	2026	8	4	6	72	150	150	20
Visayas	2026	8	4	7	73	150	150	20
Visayas	2026	8	4	8	88	150	150	20
Visayas	2026	8	4	9	107	150	150	20
Visayas	2026	8	4	10	114	150	150	20
Visayas	2026	8	4	11	119	150	150	20
Visayas	2026	8	4	12	114	150	150	20
Visayas	2026	8	4	13	118	150	150	20
Visayas	2026	8	4	14	125	150	150	20
Visayas	2026	8	4	15	123	150	150	20
Visayas	2026	8	4	16	122	150	150	20
Visayas	2026	8	4	17	112	150	150	20
Visayas	2026	8	4	18	108	150	150	20
Visayas	2026	8	4	19	115	150	150	20
Visayas	2026	8	4	20	110	150	150	20
Visayas	2026	8	4	21	106	150	150	20
Visayas	2026	8	4	22	98	150	150	20
Visayas	2026	8	4	23	92	150	150	20
Visayas	2026	8	4	24	86	150	150	20
Visayas	2026	8	5	1	82	150	150	20
Visayas	2026	8	5	2	76	150	150	20
Visayas	2026	8	5	3	73	150	150	20
Visayas	2026	8	5	4	71	150	150	20
Visayas	2026	8	5	5	71	150	150	20
Visayas	2026	8	5	6	74	150	150	20
Visayas	2026	8	5	7	75	150	150	20
Visayas	2026	8	5	8	89	150	150	20
Visayas	2026	8	5	9	107	150	150	20
Visayas	2026	8	5	10	116	150	150	20
Visayas	2026	8	5	11	121	150	150	20
Visayas	2026	8	5	12	119	150	150	20
Visayas	2026	8	5	13	117	150	150	20
Visayas	2026	8	5	14	124	150	150	20
Visayas	2026	8	5	15	124	150	150	20
Visayas	2026	8	5	16	123	150	150	20
Visayas	2026	8	5	17	112	150	150	20
Visayas	2026	8	5	18	107	150	150	20
Visayas	2026	8	5	19	117	150	150	20
Visayas	2026	8	5	20	111	150	150	20
Visayas	2026	8	5	21	107	150	150	20
Visayas	2026	8	5	22	100	150	150	20
Visayas	2026	8	5	23	93	150	150	20
Visayas	2026	8	5	24	87	150	150	20
Visayas	2026	8	6	1	82	150	150	20
Visayas	2026	8	6	2	78	150	150	20
Visayas	2026	8	6	3	75	150	150	20
Visayas	2026	8	6	4	73	150	150	20
Visayas	2026	8	6	5	73	150	150	20
Visayas	2026	8	6	6	75	150	150	20
Visayas	2026	8	6	7	75	150	150	20
Visayas	2026	8	6	8	90	150	150	20
Visayas	2026	8	6	9	109	150	150	20
Visayas	2026	8	6	10	116	150	150	20
Visayas	2026	8	6	11	122	150	150	20
Visayas	2026	8	6	12	119	150	150	20
Visayas	2026	8	6	13	118	150	150	20
Visayas	2026	8	6	14	125	150	150	20
Visayas	2026	8	6	15	125	150	150	20
Visayas	2026	8	6	16	123	150	150	20
Visayas	2026	8	6	17	111	150	150	20
Visayas	2026	8	6	18	109	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	6	19	116	150	150	20
Visayas	2026	8	6	20	111	150	150	20
Visayas	2026	8	6	21	108	150	150	20
Visayas	2026	8	6	22	100	150	150	20
Visayas	2026	8	6	23	93	150	150	20
Visayas	2026	8	6	24	87	150	150	20
Visayas	2026	8	7	1	82	150	150	20
Visayas	2026	8	7	2	78	150	150	20
Visayas	2026	8	7	3	75	150	150	20
Visayas	2026	8	7	4	73	150	150	20
Visayas	2026	8	7	5	73	150	150	20
Visayas	2026	8	7	6	74	150	150	20
Visayas	2026	8	7	7	75	150	150	20
Visayas	2026	8	7	8	91	150	150	20
Visayas	2026	8	7	9	108	150	150	20
Visayas	2026	8	7	10	117	150	150	20
Visayas	2026	8	7	11	122	150	150	20
Visayas	2026	8	7	12	122	150	150	20
Visayas	2026	8	7	13	122	150	150	20
Visayas	2026	8	7	14	128	150	150	20
Visayas	2026	8	7	15	127	150	150	20
Visayas	2026	8	7	16	125	150	150	20
Visayas	2026	8	7	17	114	150	150	20
Visayas	2026	8	7	18	108	150	150	20
Visayas	2026	8	7	19	117	150	150	20
Visayas	2026	8	7	20	111	150	150	20
Visayas	2026	8	7	21	109	150	150	20
Visayas	2026	8	7	22	101	150	150	20
Visayas	2026	8	7	23	95	150	150	20
Visayas	2026	8	7	24	87	150	150	20
Visayas	2026	8	8	1	83	150	150	20
Visayas	2026	8	8	2	79	150	150	20
Visayas	2026	8	8	3	74	150	150	20
Visayas	2026	8	8	4	72	150	150	20
Visayas	2026	8	8	5	68	150	150	20
Visayas	2026	8	8	6	69	150	150	20
Visayas	2026	8	8	7	69	150	150	20
Visayas	2026	8	8	8	78	150	150	20
Visayas	2026	8	8	9	89	150	150	20
Visayas	2026	8	8	10	97	150	150	20
Visayas	2026	8	8	11	101	150	150	20
Visayas	2026	8	8	12	101	150	150	20
Visayas	2026	8	8	13	101	150	150	20
Visayas	2026	8	8	14	108	150	150	20
Visayas	2026	8	8	15	107	150	150	20
Visayas	2026	8	8	16	106	150	150	20
Visayas	2026	8	8	17	100	150	150	20
Visayas	2026	8	8	18	100	150	150	20
Visayas	2026	8	8	19	110	150	150	20
Visayas	2026	8	8	20	105	150	150	20
Visayas	2026	8	8	21	102	150	150	20
Visayas	2026	8	8	22	98	150	150	20
Visayas	2026	8	8	23	92	150	150	20
Visayas	2026	8	8	24	86	150	150	20
Visayas	2026	8	9	1	81	150	150	20
Visayas	2026	8	9	2	77	150	150	20
Visayas	2026	8	9	3	73	150	150	20
Visayas	2026	8	9	4	70	150	150	20
Visayas	2026	8	9	5	69	150	150	20
Visayas	2026	8	9	6	67	150	150	20
Visayas	2026	8	9	7	66	150	150	20
Visayas	2026	8	9	8	73	150	150	20
Visayas	2026	8	9	9	79	150	150	20
Visayas	2026	8	9	10	86	150	150	20
Visayas	2026	8	9	11	89	150	150	20
Visayas	2026	8	9	12	89	150	150	20
Visayas	2026	8	9	13	90	150	150	20
Visayas	2026	8	9	14	96	150	150	20
Visayas	2026	8	9	15	94	150	150	20
Visayas	2026	8	9	16	92	150	150	20
Visayas	2026	8	9	17	92	150	150	20
Visayas	2026	8	9	18	93	150	150	20
Visayas	2026	8	9	19	106	150	150	20
Visayas	2026	8	9	20	103	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	9	21	101	150	150	20
Visayas	2026	8	9	22	98	150	150	20
Visayas	2026	8	9	23	91	150	150	20
Visayas	2026	8	9	24	84	150	150	20
Visayas	2026	8	10	1	80	150	150	20
Visayas	2026	8	10	2	76	150	150	20
Visayas	2026	8	10	3	72	150	150	20
Visayas	2026	8	10	4	69	150	150	20
Visayas	2026	8	10	5	70	150	150	20
Visayas	2026	8	10	6	72	150	150	20
Visayas	2026	8	10	7	74	150	150	20
Visayas	2026	8	10	8	89	150	150	20
Visayas	2026	8	10	9	109	150	150	20
Visayas	2026	8	10	10	119	150	150	20
Visayas	2026	8	10	11	124	150	150	20
Visayas	2026	8	10	12	120	150	150	20
Visayas	2026	8	10	13	122	150	150	20
Visayas	2026	8	10	14	129	150	150	20
Visayas	2026	8	10	15	129	150	150	20
Visayas	2026	8	10	16	127	150	150	20
Visayas	2026	8	10	17	119	150	150	20
Visayas	2026	8	10	18	111	150	150	20
Visayas	2026	8	10	19	120	150	150	20
Visayas	2026	8	10	20	115	150	150	20
Visayas	2026	8	10	21	113	150	150	20
Visayas	2026	8	10	22	103	150	150	20
Visayas	2026	8	10	23	98	150	150	20
Visayas	2026	8	10	24	92	150	150	20
Visayas	2026	8	11	1	86	150	150	20
Visayas	2026	8	11	2	82	150	150	20
Visayas	2026	8	11	3	78	150	150	20
Visayas	2026	8	11	4	76	150	150	20
Visayas	2026	8	11	5	77	150	150	20
Visayas	2026	8	11	6	78	150	150	20
Visayas	2026	8	11	7	79	150	150	20
Visayas	2026	8	11	8	95	150	150	20
Visayas	2026	8	11	9	115	150	150	20
Visayas	2026	8	11	10	123	150	150	20
Visayas	2026	8	11	11	127	150	150	20
Visayas	2026	8	11	12	124	150	150	20
Visayas	2026	8	11	13	126	150	150	20
Visayas	2026	8	11	14	131	150	150	20
Visayas	2026	8	11	15	130	150	150	20
Visayas	2026	8	11	16	129	150	150	20
Visayas	2026	8	11	17	118	150	150	20
Visayas	2026	8	11	18	111	150	150	20
Visayas	2026	8	11	19	121	150	150	20
Visayas	2026	8	11	20	116	150	150	20
Visayas	2026	8	11	21	111	150	150	20
Visayas	2026	8	11	22	105	150	150	20
Visayas	2026	8	11	23	99	150	150	20
Visayas	2026	8	11	24	92	150	150	20
Visayas	2026	8	12	1	87	150	150	20
Visayas	2026	8	12	2	82	150	150	20
Visayas	2026	8	12	3	80	150	150	20
Visayas	2026	8	12	4	78	150	150	20
Visayas	2026	8	12	5	78	150	150	20
Visayas	2026	8	12	6	79	150	150	20
Visayas	2026	8	12	7	81	150	150	20
Visayas	2026	8	12	8	97	150	150	20
Visayas	2026	8	12	9	116	150	150	20
Visayas	2026	8	12	10	123	150	150	20
Visayas	2026	8	12	11	127	150	150	20
Visayas	2026	8	12	12	123	150	150	20
Visayas	2026	8	12	13	124	150	150	20
Visayas	2026	8	12	14	130	150	150	20
Visayas	2026	8	12	15	129	150	150	20
Visayas	2026	8	12	16	127	150	150	20
Visayas	2026	8	12	17	117	150	150	20
Visayas	2026	8	12	18	112	150	150	20
Visayas	2026	8	12	19	120	150	150	20
Visayas	2026	8	12	20	116	150	150	20
Visayas	2026	8	12	21	111	150	150	20
Visayas	2026	8	12	22	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	12	23	97	150	150	20
Visayas	2026	8	12	24	91	150	150	20
Visayas	2026	8	13	1	86	150	150	20
Visayas	2026	8	13	2	82	150	150	20
Visayas	2026	8	13	3	79	150	150	20
Visayas	2026	8	13	4	76	150	150	20
Visayas	2026	8	13	5	76	150	150	20
Visayas	2026	8	13	6	78	150	150	20
Visayas	2026	8	13	7	79	150	150	20
Visayas	2026	8	13	8	94	150	150	20
Visayas	2026	8	13	9	113	150	150	20
Visayas	2026	8	13	10	122	150	150	20
Visayas	2026	8	13	11	126	150	150	20
Visayas	2026	8	13	12	121	150	150	20
Visayas	2026	8	13	13	121	150	150	20
Visayas	2026	8	13	14	123	150	150	20
Visayas	2026	8	13	15	123	150	150	20
Visayas	2026	8	13	16	121	150	150	20
Visayas	2026	8	13	17	113	150	150	20
Visayas	2026	8	13	18	112	150	150	20
Visayas	2026	8	13	19	118	150	150	20
Visayas	2026	8	13	20	113	150	150	20
Visayas	2026	8	13	21	109	150	150	20
Visayas	2026	8	13	22	101	150	150	20
Visayas	2026	8	13	23	95	150	150	20
Visayas	2026	8	13	24	89	150	150	20
Visayas	2026	8	14	1	83	150	150	20
Visayas	2026	8	14	2	80	150	150	20
Visayas	2026	8	14	3	77	150	150	20
Visayas	2026	8	14	4	75	150	150	20
Visayas	2026	8	14	5	76	150	150	20
Visayas	2026	8	14	6	76	150	150	20
Visayas	2026	8	14	7	77	150	150	20
Visayas	2026	8	14	8	91	150	150	20
Visayas	2026	8	14	9	110	150	150	20
Visayas	2026	8	14	10	119	150	150	20
Visayas	2026	8	14	11	122	150	150	20
Visayas	2026	8	14	12	119	150	150	20
Visayas	2026	8	14	13	120	150	150	20
Visayas	2026	8	14	14	125	150	150	20
Visayas	2026	8	14	15	123	150	150	20
Visayas	2026	8	14	16	121	150	150	20
Visayas	2026	8	14	17	112	150	150	20
Visayas	2026	8	14	18	108	150	150	20
Visayas	2026	8	14	19	111	150	150	20
Visayas	2026	8	14	20	107	150	150	20
Visayas	2026	8	14	21	104	150	150	20
Visayas	2026	8	14	22	99	150	150	20
Visayas	2026	8	14	23	92	150	150	20
Visayas	2026	8	14	24	87	150	150	20
Visayas	2026	8	15	1	82	150	150	20
Visayas	2026	8	15	2	78	150	150	20
Visayas	2026	8	15	3	74	150	150	20
Visayas	2026	8	15	4	72	150	150	20
Visayas	2026	8	15	5	71	150	150	20
Visayas	2026	8	15	6	71	150	150	20
Visayas	2026	8	15	7	69	150	150	20
Visayas	2026	8	15	8	78	150	150	20
Visayas	2026	8	15	9	92	150	150	20
Visayas	2026	8	15	10	98	150	150	20
Visayas	2026	8	15	11	102	150	150	20
Visayas	2026	8	15	12	99	150	150	20
Visayas	2026	8	15	13	101	150	150	20
Visayas	2026	8	15	14	100	150	150	20
Visayas	2026	8	15	15	97	150	150	20
Visayas	2026	8	15	16	94	150	150	20
Visayas	2026	8	15	17	94	150	150	20
Visayas	2026	8	15	18	98	150	150	20
Visayas	2026	8	15	19	104	150	150	20
Visayas	2026	8	15	20	101	150	150	20
Visayas	2026	8	15	21	99	150	150	20
Visayas	2026	8	15	22	92	150	150	20
Visayas	2026	8	15	23	87	150	150	20
Visayas	2026	8	15	24	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	16	1	77	150	150	20
Visayas	2026	8	16	2	73	150	150	20
Visayas	2026	8	16	3	70	150	150	20
Visayas	2026	8	16	4	68	150	150	20
Visayas	2026	8	16	5	67	150	150	20
Visayas	2026	8	16	6	64	150	150	20
Visayas	2026	8	16	7	63	150	150	20
Visayas	2026	8	16	8	67	150	150	20
Visayas	2026	8	16	9	76	150	150	20
Visayas	2026	8	16	10	82	150	150	20
Visayas	2026	8	16	11	87	150	150	20
Visayas	2026	8	16	12	88	150	150	20
Visayas	2026	8	16	13	87	150	150	20
Visayas	2026	8	16	14	91	150	150	20
Visayas	2026	8	16	15	88	150	150	20
Visayas	2026	8	16	16	85	150	150	20
Visayas	2026	8	16	17	85	150	150	20
Visayas	2026	8	16	18	92	150	150	20
Visayas	2026	8	16	19	98	150	150	20
Visayas	2026	8	16	20	94	150	150	20
Visayas	2026	8	16	21	92	150	150	20
Visayas	2026	8	16	22	86	150	150	20
Visayas	2026	8	16	23	81	150	150	20
Visayas	2026	8	16	24	76	150	150	20
Visayas	2026	8	17	1	71	150	150	20
Visayas	2026	8	17	2	68	150	150	20
Visayas	2026	8	17	3	65	150	150	20
Visayas	2026	8	17	4	64	150	150	20
Visayas	2026	8	17	5	65	150	150	20
Visayas	2026	8	17	6	68	150	150	20
Visayas	2026	8	17	7	69	150	150	20
Visayas	2026	8	17	8	84	150	150	20
Visayas	2026	8	17	9	103	150	150	20
Visayas	2026	8	17	10	113	150	150	20
Visayas	2026	8	17	11	118	150	150	20
Visayas	2026	8	17	12	115	150	150	20
Visayas	2026	8	17	13	115	150	150	20
Visayas	2026	8	17	14	121	150	150	20
Visayas	2026	8	17	15	118	150	150	20
Visayas	2026	8	17	16	115	150	150	20
Visayas	2026	8	17	17	106	150	150	20
Visayas	2026	8	17	18	98	150	150	20
Visayas	2026	8	17	19	107	150	150	20
Visayas	2026	8	17	20	104	150	150	20
Visayas	2026	8	17	21	100	150	150	20
Visayas	2026	8	17	22	93	150	150	20
Visayas	2026	8	17	23	86	150	150	20
Visayas	2026	8	17	24	80	150	150	20
Visayas	2026	8	18	1	76	150	150	20
Visayas	2026	8	18	2	73	150	150	20
Visayas	2026	8	18	3	69	150	150	20
Visayas	2026	8	18	4	67	150	150	20
Visayas	2026	8	18	5	69	150	150	20
Visayas	2026	8	18	6	72	150	150	20
Visayas	2026	8	18	7	72	150	150	20
Visayas	2026	8	18	8	86	150	150	20
Visayas	2026	8	18	9	106	150	150	20
Visayas	2026	8	18	10	115	150	150	20
Visayas	2026	8	18	11	121	150	150	20
Visayas	2026	8	18	12	118	150	150	20
Visayas	2026	8	18	13	116	150	150	20
Visayas	2026	8	18	14	121	150	150	20
Visayas	2026	8	18	15	120	150	150	20
Visayas	2026	8	18	16	116	150	150	20
Visayas	2026	8	18	17	106	150	150	20
Visayas	2026	8	18	18	104	150	150	20
Visayas	2026	8	18	19	109	150	150	20
Visayas	2026	8	18	20	104	150	150	20
Visayas	2026	8	18	21	99	150	150	20
Visayas	2026	8	18	22	92	150	150	20
Visayas	2026	8	18	23	86	150	150	20
Visayas	2026	8	18	24	81	150	150	20
Visayas	2026	8	19	1	77	150	150	20
Visayas	2026	8	19	2	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	19	3	69	150	150	20
Visayas	2026	8	19	4	67	150	150	20
Visayas	2026	8	19	5	69	150	150	20
Visayas	2026	8	19	6	72	150	150	20
Visayas	2026	8	19	7	72	150	150	20
Visayas	2026	8	19	8	88	150	150	20
Visayas	2026	8	19	9	105	150	150	20
Visayas	2026	8	19	10	113	150	150	20
Visayas	2026	8	19	11	117	150	150	20
Visayas	2026	8	19	12	116	150	150	20
Visayas	2026	8	19	13	117	150	150	20
Visayas	2026	8	19	14	120	150	150	20
Visayas	2026	8	19	15	116	150	150	20
Visayas	2026	8	19	16	113	150	150	20
Visayas	2026	8	19	17	106	150	150	20
Visayas	2026	8	19	18	104	150	150	20
Visayas	2026	8	19	19	108	150	150	20
Visayas	2026	8	19	20	102	150	150	20
Visayas	2026	8	19	21	98	150	150	20
Visayas	2026	8	19	22	90	150	150	20
Visayas	2026	8	19	23	84	150	150	20
Visayas	2026	8	19	24	78	150	150	20
Visayas	2026	8	20	1	74	150	150	20
Visayas	2026	8	20	2	70	150	150	20
Visayas	2026	8	20	3	68	150	150	20
Visayas	2026	8	20	4	67	150	150	20
Visayas	2026	8	20	5	68	150	150	20
Visayas	2026	8	20	6	71	150	150	20
Visayas	2026	8	20	7	71	150	150	20
Visayas	2026	8	20	8	85	150	150	20
Visayas	2026	8	20	9	104	150	150	20
Visayas	2026	8	20	10	111	150	150	20
Visayas	2026	8	20	11	119	150	150	20
Visayas	2026	8	20	12	113	150	150	20
Visayas	2026	8	20	13	113	150	150	20
Visayas	2026	8	20	14	120	150	150	20
Visayas	2026	8	20	15	119	150	150	20
Visayas	2026	8	20	16	114	150	150	20
Visayas	2026	8	20	17	106	150	150	20
Visayas	2026	8	20	18	102	150	150	20
Visayas	2026	8	20	19	110	150	150	20
Visayas	2026	8	20	20	104	150	150	20
Visayas	2026	8	20	21	102	150	150	20
Visayas	2026	8	20	22	93	150	150	20
Visayas	2026	8	20	23	86	150	150	20
Visayas	2026	8	20	24	80	150	150	20
Visayas	2026	8	21	1	72	150	150	20
Visayas	2026	8	21	2	68	150	150	20
Visayas	2026	8	21	3	65	150	150	20
Visayas	2026	8	21	4	64	150	150	20
Visayas	2026	8	21	5	64	150	150	20
Visayas	2026	8	21	6	64	150	150	20
Visayas	2026	8	21	7	64	150	150	20
Visayas	2026	8	21	8	72	150	150	20
Visayas	2026	8	21	9	85	150	150	20
Visayas	2026	8	21	10	91	150	150	20
Visayas	2026	8	21	11	96	150	150	20
Visayas	2026	8	21	12	94	150	150	20
Visayas	2026	8	21	13	96	150	150	20
Visayas	2026	8	21	14	96	150	150	20
Visayas	2026	8	21	15	100	150	150	20
Visayas	2026	8	21	16	97	150	150	20
Visayas	2026	8	21	17	94	150	150	20
Visayas	2026	8	21	18	95	150	150	20
Visayas	2026	8	21	19	97	150	150	20
Visayas	2026	8	21	20	94	150	150	20
Visayas	2026	8	21	21	91	150	150	20
Visayas	2026	8	21	22	88	150	150	20
Visayas	2026	8	21	23	81	150	150	20
Visayas	2026	8	21	24	77	150	150	20
Visayas	2026	8	22	1	80	150	150	20
Visayas	2026	8	22	2	77	150	150	20
Visayas	2026	8	22	3	71	150	150	20
Visayas	2026	8	22	4	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	22	5	67	150	150	20
Visayas	2026	8	22	6	67	150	150	20
Visayas	2026	8	22	7	65	150	150	20
Visayas	2026	8	22	8	73	150	150	20
Visayas	2026	8	22	9	87	150	150	20
Visayas	2026	8	22	10	95	150	150	20
Visayas	2026	8	22	11	99	150	150	20
Visayas	2026	8	22	12	97	150	150	20
Visayas	2026	8	22	13	99	150	150	20
Visayas	2026	8	22	14	103	150	150	20
Visayas	2026	8	22	15	102	150	150	20
Visayas	2026	8	22	16	94	150	150	20
Visayas	2026	8	22	17	91	150	150	20
Visayas	2026	8	22	18	97	150	150	20
Visayas	2026	8	22	19	104	150	150	20
Visayas	2026	8	22	20	100	150	150	20
Visayas	2026	8	22	21	95	150	150	20
Visayas	2026	8	22	22	88	150	150	20
Visayas	2026	8	22	23	82	150	150	20
Visayas	2026	8	22	24	75	150	150	20
Visayas	2026	8	23	1	73	150	150	20
Visayas	2026	8	23	2	70	150	150	20
Visayas	2026	8	23	3	66	150	150	20
Visayas	2026	8	23	4	63	150	150	20
Visayas	2026	8	23	5	63	150	150	20
Visayas	2026	8	23	6	63	150	150	20
Visayas	2026	8	23	7	61	150	150	20
Visayas	2026	8	23	8	66	150	150	20
Visayas	2026	8	23	9	73	150	150	20
Visayas	2026	8	23	10	79	150	150	20
Visayas	2026	8	23	11	84	150	150	20
Visayas	2026	8	23	12	85	150	150	20
Visayas	2026	8	23	13	85	150	150	20
Visayas	2026	8	23	14	88	150	150	20
Visayas	2026	8	23	15	88	150	150	20
Visayas	2026	8	23	16	83	150	150	20
Visayas	2026	8	23	17	83	150	150	20
Visayas	2026	8	23	18	88	150	150	20
Visayas	2026	8	23	19	99	150	150	20
Visayas	2026	8	23	20	95	150	150	20
Visayas	2026	8	23	21	94	150	150	20
Visayas	2026	8	23	22	88	150	150	20
Visayas	2026	8	23	23	83	150	150	20
Visayas	2026	8	23	24	77	150	150	20
Visayas	2026	8	24	1	71	150	150	20
Visayas	2026	8	24	2	68	150	150	20
Visayas	2026	8	24	3	65	150	150	20
Visayas	2026	8	24	4	64	150	150	20
Visayas	2026	8	24	5	65	150	150	20
Visayas	2026	8	24	6	68	150	150	20
Visayas	2026	8	24	7	69	150	150	20
Visayas	2026	8	24	8	84	150	150	20
Visayas	2026	8	24	9	103	150	150	20
Visayas	2026	8	24	10	113	150	150	20
Visayas	2026	8	24	11	118	150	150	20
Visayas	2026	8	24	12	115	150	150	20
Visayas	2026	8	24	13	115	150	150	20
Visayas	2026	8	24	14	121	150	150	20
Visayas	2026	8	24	15	118	150	150	20
Visayas	2026	8	24	16	115	150	150	20
Visayas	2026	8	24	17	106	150	150	20
Visayas	2026	8	24	18	98	150	150	20
Visayas	2026	8	24	19	107	150	150	20
Visayas	2026	8	24	20	104	150	150	20
Visayas	2026	8	24	21	100	150	150	20
Visayas	2026	8	24	22	93	150	150	20
Visayas	2026	8	24	23	86	150	150	20
Visayas	2026	8	24	24	80	150	150	20
Visayas	2026	8	25	1	72	150	150	20
Visayas	2026	8	25	2	68	150	150	20
Visayas	2026	8	25	3	65	150	150	20
Visayas	2026	8	25	4	64	150	150	20
Visayas	2026	8	25	5	66	150	150	20
Visayas	2026	8	25	6	70	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	25	7	70	150	150	20
Visayas	2026	8	25	8	86	150	150	20
Visayas	2026	8	25	9	105	150	150	20
Visayas	2026	8	25	10	112	150	150	20
Visayas	2026	8	25	11	116	150	150	20
Visayas	2026	8	25	12	115	150	150	20
Visayas	2026	8	25	13	117	150	150	20
Visayas	2026	8	25	14	123	150	150	20
Visayas	2026	8	25	15	120	150	150	20
Visayas	2026	8	25	16	117	150	150	20
Visayas	2026	8	25	17	104	150	150	20
Visayas	2026	8	25	18	97	150	150	20
Visayas	2026	8	25	19	101	150	150	20
Visayas	2026	8	25	20	98	150	150	20
Visayas	2026	8	25	21	96	150	150	20
Visayas	2026	8	25	22	90	150	150	20
Visayas	2026	8	25	23	84	150	150	20
Visayas	2026	8	25	24	79	150	150	20
Visayas	2026	8	26	1	74	150	150	20
Visayas	2026	8	26	2	70	150	150	20
Visayas	2026	8	26	3	66	150	150	20
Visayas	2026	8	26	4	65	150	150	20
Visayas	2026	8	26	5	66	150	150	20
Visayas	2026	8	26	6	68	150	150	20
Visayas	2026	8	26	7	70	150	150	20
Visayas	2026	8	26	8	85	150	150	20
Visayas	2026	8	26	9	103	150	150	20
Visayas	2026	8	26	10	111	150	150	20
Visayas	2026	8	26	11	114	150	150	20
Visayas	2026	8	26	12	111	150	150	20
Visayas	2026	8	26	13	109	150	150	20
Visayas	2026	8	26	14	113	150	150	20
Visayas	2026	8	26	15	116	150	150	20
Visayas	2026	8	26	16	112	150	150	20
Visayas	2026	8	26	17	104	150	150	20
Visayas	2026	8	26	18	106	150	150	20
Visayas	2026	8	26	19	110	150	150	20
Visayas	2026	8	26	20	106	150	150	20
Visayas	2026	8	26	21	99	150	150	20
Visayas	2026	8	26	22	92	150	150	20
Visayas	2026	8	26	23	86	150	150	20
Visayas	2026	8	26	24	80	150	150	20
Visayas	2026	8	27	1	77	150	150	20
Visayas	2026	8	27	2	73	150	150	20
Visayas	2026	8	27	3	70	150	150	20
Visayas	2026	8	27	4	66	150	150	20
Visayas	2026	8	27	5	69	150	150	20
Visayas	2026	8	27	6	73	150	150	20
Visayas	2026	8	27	7	71	150	150	20
Visayas	2026	8	27	8	90	150	150	20
Visayas	2026	8	27	9	107	150	150	20
Visayas	2026	8	27	10	115	150	150	20
Visayas	2026	8	27	11	120	150	150	20
Visayas	2026	8	27	12	117	150	150	20
Visayas	2026	8	27	13	119	150	150	20
Visayas	2026	8	27	14	124	150	150	20
Visayas	2026	8	27	15	122	150	150	20
Visayas	2026	8	27	16	121	150	150	20
Visayas	2026	8	27	17	109	150	150	20
Visayas	2026	8	27	18	108	150	150	20
Visayas	2026	8	27	19	114	150	150	20
Visayas	2026	8	27	20	109	150	150	20
Visayas	2026	8	27	21	106	150	150	20
Visayas	2026	8	27	22	98	150	150	20
Visayas	2026	8	27	23	91	150	150	20
Visayas	2026	8	27	24	85	150	150	20
Visayas	2026	8	28	1	79	150	150	20
Visayas	2026	8	28	2	76	150	150	20
Visayas	2026	8	28	3	71	150	150	20
Visayas	2026	8	28	4	70	150	150	20
Visayas	2026	8	28	5	71	150	150	20
Visayas	2026	8	28	6	73	150	150	20
Visayas	2026	8	28	7	73	150	150	20
Visayas	2026	8	28	8	89	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	28	9	107	150	150	20
Visayas	2026	8	28	10	114	150	150	20
Visayas	2026	8	28	11	120	150	150	20
Visayas	2026	8	28	12	119	150	150	20
Visayas	2026	8	28	13	119	150	150	20
Visayas	2026	8	28	14	127	150	150	20
Visayas	2026	8	28	15	123	150	150	20
Visayas	2026	8	28	16	120	150	150	20
Visayas	2026	8	28	17	114	150	150	20
Visayas	2026	8	28	18	111	150	150	20
Visayas	2026	8	28	19	117	150	150	20
Visayas	2026	8	28	20	111	150	150	20
Visayas	2026	8	28	21	108	150	150	20
Visayas	2026	8	28	22	102	150	150	20
Visayas	2026	8	28	23	93	150	150	20
Visayas	2026	8	28	24	88	150	150	20
Visayas	2026	8	29	1	82	150	150	20
Visayas	2026	8	29	2	80	150	150	20
Visayas	2026	8	29	3	75	150	150	20
Visayas	2026	8	29	4	72	150	150	20
Visayas	2026	8	29	5	72	150	150	20
Visayas	2026	8	29	6	72	150	150	20
Visayas	2026	8	29	7	72	150	150	20
Visayas	2026	8	29	8	81	150	150	20
Visayas	2026	8	29	9	94	150	150	20
Visayas	2026	8	29	10	101	150	150	20
Visayas	2026	8	29	11	106	150	150	20
Visayas	2026	8	29	12	101	150	150	20
Visayas	2026	8	29	13	102	150	150	20
Visayas	2026	8	29	14	108	150	150	20
Visayas	2026	8	29	15	108	150	150	20
Visayas	2026	8	29	16	105	150	150	20
Visayas	2026	8	29	17	100	150	150	20
Visayas	2026	8	29	18	104	150	150	20
Visayas	2026	8	29	19	108	150	150	20
Visayas	2026	8	29	20	103	150	150	20
Visayas	2026	8	29	21	101	150	150	20
Visayas	2026	8	29	22	95	150	150	20
Visayas	2026	8	29	23	89	150	150	20
Visayas	2026	8	29	24	82	150	150	20
Visayas	2026	8	30	1	77	150	150	20
Visayas	2026	8	30	2	73	150	150	20
Visayas	2026	8	30	3	69	150	150	20
Visayas	2026	8	30	4	68	150	150	20
Visayas	2026	8	30	5	66	150	150	20
Visayas	2026	8	30	6	65	150	150	20
Visayas	2026	8	30	7	65	150	150	20
Visayas	2026	8	30	8	69	150	150	20
Visayas	2026	8	30	9	76	150	150	20
Visayas	2026	8	30	10	80	150	150	20
Visayas	2026	8	30	11	86	150	150	20
Visayas	2026	8	30	12	83	150	150	20
Visayas	2026	8	30	13	80	150	150	20
Visayas	2026	8	30	14	83	150	150	20
Visayas	2026	8	30	15	79	150	150	20
Visayas	2026	8	30	16	83	150	150	20
Visayas	2026	8	30	17	86	150	150	20
Visayas	2026	8	30	18	94	150	150	20
Visayas	2026	8	30	19	94	150	150	20
Visayas	2026	8	30	20	88	150	150	20
Visayas	2026	8	30	21	86	150	150	20
Visayas	2026	8	30	22	82	150	150	20
Visayas	2026	8	30	23	75	150	150	20
Visayas	2026	8	30	24	71	150	150	20
Visayas	2026	8	31	1	65	150	150	20
Visayas	2026	8	31	2	64	150	150	20
Visayas	2026	8	31	3	61	150	150	20
Visayas	2026	8	31	4	57	150	150	20
Visayas	2026	8	31	5	59	150	150	20
Visayas	2026	8	31	6	61	150	150	20
Visayas	2026	8	31	7	60	150	150	20
Visayas	2026	8	31	8	67	150	150	20
Visayas	2026	8	31	9	74	150	150	20
Visayas	2026	8	31	10	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	8	31	11	79	150	150	20
Visayas	2026	8	31	12	77	150	150	20
Visayas	2026	8	31	13	79	150	150	20
Visayas	2026	8	31	14	78	150	150	20
Visayas	2026	8	31	15	82	150	150	20
Visayas	2026	8	31	16	81	150	150	20
Visayas	2026	8	31	17	80	150	150	20
Visayas	2026	8	31	18	90	150	150	20
Visayas	2026	8	31	19	93	150	150	20
Visayas	2026	8	31	20	88	150	150	20
Visayas	2026	8	31	21	82	150	150	20
Visayas	2026	8	31	22	77	150	150	20
Visayas	2026	8	31	23	69	150	150	20
Visayas	2026	8	31	24	65	150	150	20
Visayas	2026	9	1	1	62	150	150	20
Visayas	2026	9	1	2	60	150	150	20
Visayas	2026	9	1	3	58	150	150	20
Visayas	2026	9	1	4	57	150	150	20
Visayas	2026	9	1	5	61	150	150	20
Visayas	2026	9	1	6	65	150	150	20
Visayas	2026	9	1	7	63	150	150	20
Visayas	2026	9	1	8	77	150	150	20
Visayas	2026	9	1	9	92	150	150	20
Visayas	2026	9	1	10	98	150	150	20
Visayas	2026	9	1	11	98	150	150	20
Visayas	2026	9	1	12	97	150	150	20
Visayas	2026	9	1	13	97	150	150	20
Visayas	2026	9	1	14	103	150	150	20
Visayas	2026	9	1	15	100	150	150	20
Visayas	2026	9	1	16	98	150	150	20
Visayas	2026	9	1	17	94	150	150	20
Visayas	2026	9	1	18	100	150	150	20
Visayas	2026	9	1	19	100	150	150	20
Visayas	2026	9	1	20	94	150	150	20
Visayas	2026	9	1	21	90	150	150	20
Visayas	2026	9	1	22	81	150	150	20
Visayas	2026	9	1	23	75	150	150	20
Visayas	2026	9	1	24	70	150	150	20
Visayas	2026	9	2	1	66	150	150	20
Visayas	2026	9	2	2	63	150	150	20
Visayas	2026	9	2	3	62	150	150	20
Visayas	2026	9	2	4	62	150	150	20
Visayas	2026	9	2	5	65	150	150	20
Visayas	2026	9	2	6	69	150	150	20
Visayas	2026	9	2	7	66	150	150	20
Visayas	2026	9	2	8	82	150	150	20
Visayas	2026	9	2	9	97	150	150	20
Visayas	2026	9	2	10	108	150	150	20
Visayas	2026	9	2	11	110	150	150	20
Visayas	2026	9	2	12	105	150	150	20
Visayas	2026	9	2	13	108	150	150	20
Visayas	2026	9	2	14	112	150	150	20
Visayas	2026	9	2	15	114	150	150	20
Visayas	2026	9	2	16	113	150	150	20
Visayas	2026	9	2	17	104	150	150	20
Visayas	2026	9	2	18	104	150	150	20
Visayas	2026	9	2	19	108	150	150	20
Visayas	2026	9	2	20	103	150	150	20
Visayas	2026	9	2	21	99	150	150	20
Visayas	2026	9	2	22	90	150	150	20
Visayas	2026	9	2	23	83	150	150	20
Visayas	2026	9	2	24	77	150	150	20
Visayas	2026	9	3	1	72	150	150	20
Visayas	2026	9	3	2	69	150	150	20
Visayas	2026	9	3	3	66	150	150	20
Visayas	2026	9	3	4	65	150	150	20
Visayas	2026	9	3	5	69	150	150	20
Visayas	2026	9	3	6	73	150	150	20
Visayas	2026	9	3	7	68	150	150	20
Visayas	2026	9	3	8	82	150	150	20
Visayas	2026	9	3	9	103	150	150	20
Visayas	2026	9	3	10	108	150	150	20
Visayas	2026	9	3	11	114	150	150	20
Visayas	2026	9	3	12	108	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	3	13	114	150	150	20
Visayas	2026	9	3	14	122	150	150	20
Visayas	2026	9	3	15	118	150	150	20
Visayas	2026	9	3	16	118	150	150	20
Visayas	2026	9	3	17	109	150	150	20
Visayas	2026	9	3	18	111	150	150	20
Visayas	2026	9	3	19	112	150	150	20
Visayas	2026	9	3	20	108	150	150	20
Visayas	2026	9	3	21	106	150	150	20
Visayas	2026	9	3	22	99	150	150	20
Visayas	2026	9	3	23	91	150	150	20
Visayas	2026	9	3	24	84	150	150	20
Visayas	2026	9	4	1	79	150	150	20
Visayas	2026	9	4	2	76	150	150	20
Visayas	2026	9	4	3	74	150	150	20
Visayas	2026	9	4	4	73	150	150	20
Visayas	2026	9	4	5	74	150	150	20
Visayas	2026	9	4	6	76	150	150	20
Visayas	2026	9	4	7	72	150	150	20
Visayas	2026	9	4	8	88	150	150	20
Visayas	2026	9	4	9	107	150	150	20
Visayas	2026	9	4	10	116	150	150	20
Visayas	2026	9	4	11	121	150	150	20
Visayas	2026	9	4	12	117	150	150	20
Visayas	2026	9	4	13	119	150	150	20
Visayas	2026	9	4	14	126	150	150	20
Visayas	2026	9	4	15	125	150	150	20
Visayas	2026	9	4	16	120	150	150	20
Visayas	2026	9	4	17	111	150	150	20
Visayas	2026	9	4	18	108	150	150	20
Visayas	2026	9	4	19	114	150	150	20
Visayas	2026	9	4	20	108	150	150	20
Visayas	2026	9	4	21	105	150	150	20
Visayas	2026	9	4	22	99	150	150	20
Visayas	2026	9	4	23	92	150	150	20
Visayas	2026	9	4	24	85	150	150	20
Visayas	2026	9	5	1	81	150	150	20
Visayas	2026	9	5	2	78	150	150	20
Visayas	2026	9	5	3	74	150	150	20
Visayas	2026	9	5	4	72	150	150	20
Visayas	2026	9	5	5	72	150	150	20
Visayas	2026	9	5	6	72	150	150	20
Visayas	2026	9	5	7	71	150	150	20
Visayas	2026	9	5	8	80	150	150	20
Visayas	2026	9	5	9	94	150	150	20
Visayas	2026	9	5	10	102	150	150	20
Visayas	2026	9	5	11	104	150	150	20
Visayas	2026	9	5	12	102	150	150	20
Visayas	2026	9	5	13	104	150	150	20
Visayas	2026	9	5	14	106	150	150	20
Visayas	2026	9	5	15	108	150	150	20
Visayas	2026	9	5	16	104	150	150	20
Visayas	2026	9	5	17	99	150	150	20
Visayas	2026	9	5	18	106	150	150	20
Visayas	2026	9	5	19	109	150	150	20
Visayas	2026	9	5	20	104	150	150	20
Visayas	2026	9	5	21	103	150	150	20
Visayas	2026	9	5	22	98	150	150	20
Visayas	2026	9	5	23	90	150	150	20
Visayas	2026	9	5	24	85	150	150	20
Visayas	2026	9	6	1	80	150	150	20
Visayas	2026	9	6	2	76	150	150	20
Visayas	2026	9	6	3	73	150	150	20
Visayas	2026	9	6	4	70	150	150	20
Visayas	2026	9	6	5	71	150	150	20
Visayas	2026	9	6	6	69	150	150	20
Visayas	2026	9	6	7	66	150	150	20
Visayas	2026	9	6	8	72	150	150	20
Visayas	2026	9	6	9	77	150	150	20
Visayas	2026	9	6	10	87	150	150	20
Visayas	2026	9	6	11	87	150	150	20
Visayas	2026	9	6	12	89	150	150	20
Visayas	2026	9	6	13	90	150	150	20
Visayas	2026	9	6	14	92	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	6	15	94	150	150	20
Visayas	2026	9	6	16	92	150	150	20
Visayas	2026	9	6	17	91	150	150	20
Visayas	2026	9	6	18	95	150	150	20
Visayas	2026	9	6	19	103	150	150	20
Visayas	2026	9	6	20	102	150	150	20
Visayas	2026	9	6	21	102	150	150	20
Visayas	2026	9	6	22	95	150	150	20
Visayas	2026	9	6	23	88	150	150	20
Visayas	2026	9	6	24	80	150	150	20
Visayas	2026	9	7	1	78	150	150	20
Visayas	2026	9	7	2	73	150	150	20
Visayas	2026	9	7	3	70	150	150	20
Visayas	2026	9	7	4	69	150	150	20
Visayas	2026	9	7	5	74	150	150	20
Visayas	2026	9	7	6	78	150	150	20
Visayas	2026	9	7	7	67	150	150	20
Visayas	2026	9	7	8	84	150	150	20
Visayas	2026	9	7	9	105	150	150	20
Visayas	2026	9	7	10	116	150	150	20
Visayas	2026	9	7	11	121	150	150	20
Visayas	2026	9	7	12	115	150	150	20
Visayas	2026	9	7	13	117	150	150	20
Visayas	2026	9	7	14	124	150	150	20
Visayas	2026	9	7	15	124	150	150	20
Visayas	2026	9	7	16	120	150	150	20
Visayas	2026	9	7	17	111	150	150	20
Visayas	2026	9	7	18	115	150	150	20
Visayas	2026	9	7	19	115	150	150	20
Visayas	2026	9	7	20	112	150	150	20
Visayas	2026	9	7	21	109	150	150	20
Visayas	2026	9	7	22	101	150	150	20
Visayas	2026	9	7	23	94	150	150	20
Visayas	2026	9	7	24	86	150	150	20
Visayas	2026	9	8	1	81	150	150	20
Visayas	2026	9	8	2	76	150	150	20
Visayas	2026	9	8	3	74	150	150	20
Visayas	2026	9	8	4	72	150	150	20
Visayas	2026	9	8	5	76	150	150	20
Visayas	2026	9	8	6	80	150	150	20
Visayas	2026	9	8	7	73	150	150	20
Visayas	2026	9	8	8	89	150	150	20
Visayas	2026	9	8	9	108	150	150	20
Visayas	2026	9	8	10	116	150	150	20
Visayas	2026	9	8	11	122	150	150	20
Visayas	2026	9	8	12	119	150	150	20
Visayas	2026	9	8	13	123	150	150	20
Visayas	2026	9	8	14	127	150	150	20
Visayas	2026	9	8	15	126	150	150	20
Visayas	2026	9	8	16	122	150	150	20
Visayas	2026	9	8	17	114	150	150	20
Visayas	2026	9	8	18	117	150	150	20
Visayas	2026	9	8	19	119	150	150	20
Visayas	2026	9	8	20	114	150	150	20
Visayas	2026	9	8	21	109	150	150	20
Visayas	2026	9	8	22	102	150	150	20
Visayas	2026	9	8	23	93	150	150	20
Visayas	2026	9	8	24	86	150	150	20
Visayas	2026	9	9	1	82	150	150	20
Visayas	2026	9	9	2	78	150	150	20
Visayas	2026	9	9	3	74	150	150	20
Visayas	2026	9	9	4	72	150	150	20
Visayas	2026	9	9	5	76	150	150	20
Visayas	2026	9	9	6	79	150	150	20
Visayas	2026	9	9	7	72	150	150	20
Visayas	2026	9	9	8	88	150	150	20
Visayas	2026	9	9	9	109	150	150	20
Visayas	2026	9	9	10	119	150	150	20
Visayas	2026	9	9	11	125	150	150	20
Visayas	2026	9	9	12	122	150	150	20
Visayas	2026	9	9	13	123	150	150	20
Visayas	2026	9	9	14	129	150	150	20
Visayas	2026	9	9	15	128	150	150	20
Visayas	2026	9	9	16	124	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	9	17	115	150	150	20
Visayas	2026	9	9	18	118	150	150	20
Visayas	2026	9	9	19	119	150	150	20
Visayas	2026	9	9	20	116	150	150	20
Visayas	2026	9	9	21	112	150	150	20
Visayas	2026	9	9	22	103	150	150	20
Visayas	2026	9	9	23	95	150	150	20
Visayas	2026	9	9	24	87	150	150	20
Visayas	2026	9	10	1	83	150	150	20
Visayas	2026	9	10	2	78	150	150	20
Visayas	2026	9	10	3	74	150	150	20
Visayas	2026	9	10	4	72	150	150	20
Visayas	2026	9	10	5	76	150	150	20
Visayas	2026	9	10	6	79	150	150	20
Visayas	2026	9	10	7	72	150	150	20
Visayas	2026	9	10	8	89	150	150	20
Visayas	2026	9	10	9	107	150	150	20
Visayas	2026	9	10	10	116	150	150	20
Visayas	2026	9	10	11	118	150	150	20
Visayas	2026	9	10	12	117	150	150	20
Visayas	2026	9	10	13	120	150	150	20
Visayas	2026	9	10	14	126	150	150	20
Visayas	2026	9	10	15	127	150	150	20
Visayas	2026	9	10	16	123	150	150	20
Visayas	2026	9	10	17	110	150	150	20
Visayas	2026	9	10	18	116	150	150	20
Visayas	2026	9	10	19	119	150	150	20
Visayas	2026	9	10	20	115	150	150	20
Visayas	2026	9	10	21	111	150	150	20
Visayas	2026	9	10	22	102	150	150	20
Visayas	2026	9	10	23	94	150	150	20
Visayas	2026	9	10	24	87	150	150	20
Visayas	2026	9	11	1	84	150	150	20
Visayas	2026	9	11	2	80	150	150	20
Visayas	2026	9	11	3	75	150	150	20
Visayas	2026	9	11	4	73	150	150	20
Visayas	2026	9	11	5	76	150	150	20
Visayas	2026	9	11	6	78	150	150	20
Visayas	2026	9	11	7	73	150	150	20
Visayas	2026	9	11	8	90	150	150	20
Visayas	2026	9	11	9	106	150	150	20
Visayas	2026	9	11	10	117	150	150	20
Visayas	2026	9	11	11	121	150	150	20
Visayas	2026	9	11	12	118	150	150	20
Visayas	2026	9	11	13	117	150	150	20
Visayas	2026	9	11	14	121	150	150	20
Visayas	2026	9	11	15	119	150	150	20
Visayas	2026	9	11	16	115	150	150	20
Visayas	2026	9	11	17	106	150	150	20
Visayas	2026	9	11	18	109	150	150	20
Visayas	2026	9	11	19	110	150	150	20
Visayas	2026	9	11	20	105	150	150	20
Visayas	2026	9	11	21	100	150	150	20
Visayas	2026	9	11	22	94	150	150	20
Visayas	2026	9	11	23	87	150	150	20
Visayas	2026	9	11	24	81	150	150	20
Visayas	2026	9	12	1	78	150	150	20
Visayas	2026	9	12	2	73	150	150	20
Visayas	2026	9	12	3	70	150	150	20
Visayas	2026	9	12	4	67	150	150	20
Visayas	2026	9	12	5	67	150	150	20
Visayas	2026	9	12	6	67	150	150	20
Visayas	2026	9	12	7	67	150	150	20
Visayas	2026	9	12	8	78	150	150	20
Visayas	2026	9	12	9	85	150	150	20
Visayas	2026	9	12	10	94	150	150	20
Visayas	2026	9	12	11	98	150	150	20
Visayas	2026	9	12	12	101	150	150	20
Visayas	2026	9	12	13	104	150	150	20
Visayas	2026	9	12	14	103	150	150	20
Visayas	2026	9	12	15	106	150	150	20
Visayas	2026	9	12	16	101	150	150	20
Visayas	2026	9	12	17	97	150	150	20
Visayas	2026	9	12	18	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	12	19	107	150	150	20
Visayas	2026	9	12	20	103	150	150	20
Visayas	2026	9	12	21	101	150	150	20
Visayas	2026	9	12	22	94	150	150	20
Visayas	2026	9	12	23	88	150	150	20
Visayas	2026	9	12	24	82	150	150	20
Visayas	2026	9	13	1	78	150	150	20
Visayas	2026	9	13	2	74	150	150	20
Visayas	2026	9	13	3	70	150	150	20
Visayas	2026	9	13	4	65	150	150	20
Visayas	2026	9	13	5	64	150	150	20
Visayas	2026	9	13	6	62	150	150	20
Visayas	2026	9	13	7	62	150	150	20
Visayas	2026	9	13	8	65	150	150	20
Visayas	2026	9	13	9	72	150	150	20
Visayas	2026	9	13	10	80	150	150	20
Visayas	2026	9	13	11	86	150	150	20
Visayas	2026	9	13	12	85	150	150	20
Visayas	2026	9	13	13	87	150	150	20
Visayas	2026	9	13	14	89	150	150	20
Visayas	2026	9	13	15	90	150	150	20
Visayas	2026	9	13	16	87	150	150	20
Visayas	2026	9	13	17	88	150	150	20
Visayas	2026	9	13	18	97	150	150	20
Visayas	2026	9	13	19	102	150	150	20
Visayas	2026	9	13	20	101	150	150	20
Visayas	2026	9	13	21	97	150	150	20
Visayas	2026	9	13	22	91	150	150	20
Visayas	2026	9	13	23	84	150	150	20
Visayas	2026	9	13	24	77	150	150	20
Visayas	2026	9	14	1	70	150	150	20
Visayas	2026	9	14	2	67	150	150	20
Visayas	2026	9	14	3	64	150	150	20
Visayas	2026	9	14	4	63	150	150	20
Visayas	2026	9	14	5	68	150	150	20
Visayas	2026	9	14	6	71	150	150	20
Visayas	2026	9	14	7	67	150	150	20
Visayas	2026	9	14	8	83	150	150	20
Visayas	2026	9	14	9	104	150	150	20
Visayas	2026	9	14	10	113	150	150	20
Visayas	2026	9	14	11	118	150	150	20
Visayas	2026	9	14	12	117	150	150	20
Visayas	2026	9	14	13	118	150	150	20
Visayas	2026	9	14	14	125	150	150	20
Visayas	2026	9	14	15	122	150	150	20
Visayas	2026	9	14	16	115	150	150	20
Visayas	2026	9	14	17	105	150	150	20
Visayas	2026	9	14	18	110	150	150	20
Visayas	2026	9	14	19	111	150	150	20
Visayas	2026	9	14	20	107	150	150	20
Visayas	2026	9	14	21	102	150	150	20
Visayas	2026	9	14	22	94	150	150	20
Visayas	2026	9	14	23	87	150	150	20
Visayas	2026	9	14	24	80	150	150	20
Visayas	2026	9	15	1	76	150	150	20
Visayas	2026	9	15	2	72	150	150	20
Visayas	2026	9	15	3	69	150	150	20
Visayas	2026	9	15	4	68	150	150	20
Visayas	2026	9	15	5	73	150	150	20
Visayas	2026	9	15	6	77	150	150	20
Visayas	2026	9	15	7	71	150	150	20
Visayas	2026	9	15	8	86	150	150	20
Visayas	2026	9	15	9	104	150	150	20
Visayas	2026	9	15	10	114	150	150	20
Visayas	2026	9	15	11	119	150	150	20
Visayas	2026	9	15	12	114	150	150	20
Visayas	2026	9	15	13	115	150	150	20
Visayas	2026	9	15	14	122	150	150	20
Visayas	2026	9	15	15	121	150	150	20
Visayas	2026	9	15	16	112	150	150	20
Visayas	2026	9	15	17	105	150	150	20
Visayas	2026	9	15	18	109	150	150	20
Visayas	2026	9	15	19	106	150	150	20
Visayas	2026	9	15	20	102	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	15	21	98	150	150	20
Visayas	2026	9	15	22	89	150	150	20
Visayas	2026	9	15	23	82	150	150	20
Visayas	2026	9	15	24	77	150	150	20
Visayas	2026	9	16	1	74	150	150	20
Visayas	2026	9	16	2	70	150	150	20
Visayas	2026	9	16	3	66	150	150	20
Visayas	2026	9	16	4	66	150	150	20
Visayas	2026	9	16	5	70	150	150	20
Visayas	2026	9	16	6	75	150	150	20
Visayas	2026	9	16	7	68	150	150	20
Visayas	2026	9	16	8	86	150	150	20
Visayas	2026	9	16	9	104	150	150	20
Visayas	2026	9	16	10	112	150	150	20
Visayas	2026	9	16	11	117	150	150	20
Visayas	2026	9	16	12	111	150	150	20
Visayas	2026	9	16	13	110	150	150	20
Visayas	2026	9	16	14	110	150	150	20
Visayas	2026	9	16	15	109	150	150	20
Visayas	2026	9	16	16	107	150	150	20
Visayas	2026	9	16	17	101	150	150	20
Visayas	2026	9	16	18	107	150	150	20
Visayas	2026	9	16	19	105	150	150	20
Visayas	2026	9	16	20	100	150	150	20
Visayas	2026	9	16	21	95	150	150	20
Visayas	2026	9	16	22	87	150	150	20
Visayas	2026	9	16	23	81	150	150	20
Visayas	2026	9	16	24	75	150	150	20
Visayas	2026	9	17	1	72	150	150	20
Visayas	2026	9	17	2	67	150	150	20
Visayas	2026	9	17	3	62	150	150	20
Visayas	2026	9	17	4	61	150	150	20
Visayas	2026	9	17	5	66	150	150	20
Visayas	2026	9	17	6	71	150	150	20
Visayas	2026	9	17	7	64	150	150	20
Visayas	2026	9	17	8	80	150	150	20
Visayas	2026	9	17	9	98	150	150	20
Visayas	2026	9	17	10	108	150	150	20
Visayas	2026	9	17	11	112	150	150	20
Visayas	2026	9	17	12	109	150	150	20
Visayas	2026	9	17	13	108	150	150	20
Visayas	2026	9	17	14	117	150	150	20
Visayas	2026	9	17	15	115	150	150	20
Visayas	2026	9	17	16	111	150	150	20
Visayas	2026	9	17	17	104	150	150	20
Visayas	2026	9	17	18	109	150	150	20
Visayas	2026	9	17	19	108	150	150	20
Visayas	2026	9	17	20	104	150	150	20
Visayas	2026	9	17	21	99	150	150	20
Visayas	2026	9	17	22	90	150	150	20
Visayas	2026	9	17	23	83	150	150	20
Visayas	2026	9	17	24	76	150	150	20
Visayas	2026	9	18	1	72	150	150	20
Visayas	2026	9	18	2	69	150	150	20
Visayas	2026	9	18	3	66	150	150	20
Visayas	2026	9	18	4	64	150	150	20
Visayas	2026	9	18	5	68	150	150	20
Visayas	2026	9	18	6	72	150	150	20
Visayas	2026	9	18	7	67	150	150	20
Visayas	2026	9	18	8	82	150	150	20
Visayas	2026	9	18	9	100	150	150	20
Visayas	2026	9	18	10	108	150	150	20
Visayas	2026	9	18	11	113	150	150	20
Visayas	2026	9	18	12	110	150	150	20
Visayas	2026	9	18	13	113	150	150	20
Visayas	2026	9	18	14	119	150	150	20
Visayas	2026	9	18	15	117	150	150	20
Visayas	2026	9	18	16	114	150	150	20
Visayas	2026	9	18	17	106	150	150	20
Visayas	2026	9	18	18	110	150	150	20
Visayas	2026	9	18	19	109	150	150	20
Visayas	2026	9	18	20	103	150	150	20
Visayas	2026	9	18	21	98	150	150	20
Visayas	2026	9	18	22	90	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	18	23	84	150	150	20
Visayas	2026	9	18	24	78	150	150	20
Visayas	2026	9	19	1	75	150	150	20
Visayas	2026	9	19	2	71	150	150	20
Visayas	2026	9	19	3	67	150	150	20
Visayas	2026	9	19	4	65	150	150	20
Visayas	2026	9	19	5	65	150	150	20
Visayas	2026	9	19	6	64	150	150	20
Visayas	2026	9	19	7	61	150	150	20
Visayas	2026	9	19	8	71	150	150	20
Visayas	2026	9	19	9	83	150	150	20
Visayas	2026	9	19	10	91	150	150	20
Visayas	2026	9	19	11	96	150	150	20
Visayas	2026	9	19	12	94	150	150	20
Visayas	2026	9	19	13	96	150	150	20
Visayas	2026	9	19	14	100	150	150	20
Visayas	2026	9	19	15	99	150	150	20
Visayas	2026	9	19	16	96	150	150	20
Visayas	2026	9	19	17	93	150	150	20
Visayas	2026	9	19	18	103	150	150	20
Visayas	2026	9	19	19	105	150	150	20
Visayas	2026	9	19	20	100	150	150	20
Visayas	2026	9	19	21	93	150	150	20
Visayas	2026	9	19	22	88	150	150	20
Visayas	2026	9	19	23	82	150	150	20
Visayas	2026	9	19	24	77	150	150	20
Visayas	2026	9	20	1	72	150	150	20
Visayas	2026	9	20	2	69	150	150	20
Visayas	2026	9	20	3	66	150	150	20
Visayas	2026	9	20	4	64	150	150	20
Visayas	2026	9	20	5	64	150	150	20
Visayas	2026	9	20	6	62	150	150	20
Visayas	2026	9	20	7	60	150	150	20
Visayas	2026	9	20	8	64	150	150	20
Visayas	2026	9	20	9	73	150	150	20
Visayas	2026	9	20	10	79	150	150	20
Visayas	2026	9	20	11	83	150	150	20
Visayas	2026	9	20	12	86	150	150	20
Visayas	2026	9	20	13	87	150	150	20
Visayas	2026	9	20	14	89	150	150	20
Visayas	2026	9	20	15	90	150	150	20
Visayas	2026	9	20	16	86	150	150	20
Visayas	2026	9	20	17	89	150	150	20
Visayas	2026	9	20	18	102	150	150	20
Visayas	2026	9	20	19	103	150	150	20
Visayas	2026	9	20	20	100	150	150	20
Visayas	2026	9	20	21	97	150	150	20
Visayas	2026	9	20	22	91	150	150	20
Visayas	2026	9	20	23	84	150	150	20
Visayas	2026	9	20	24	77	150	150	20
Visayas	2026	9	21	1	71	150	150	20
Visayas	2026	9	21	2	67	150	150	20
Visayas	2026	9	21	3	63	150	150	20
Visayas	2026	9	21	4	63	150	150	20
Visayas	2026	9	21	5	68	150	150	20
Visayas	2026	9	21	6	73	150	150	20
Visayas	2026	9	21	7	67	150	150	20
Visayas	2026	9	21	8	85	150	150	20
Visayas	2026	9	21	9	106	150	150	20
Visayas	2026	9	21	10	116	150	150	20
Visayas	2026	9	21	11	120	150	150	20
Visayas	2026	9	21	12	115	150	150	20
Visayas	2026	9	21	13	118	150	150	20
Visayas	2026	9	21	14	125	150	150	20
Visayas	2026	9	21	15	124	150	150	20
Visayas	2026	9	21	16	119	150	150	20
Visayas	2026	9	21	17	112	150	150	20
Visayas	2026	9	21	18	117	150	150	20
Visayas	2026	9	21	19	116	150	150	20
Visayas	2026	9	21	20	113	150	150	20
Visayas	2026	9	21	21	108	150	150	20
Visayas	2026	9	21	22	97	150	150	20
Visayas	2026	9	21	23	88	150	150	20
Visayas	2026	9	21	24	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	22	1	77	150	150	20
Visayas	2026	9	22	2	72	150	150	20
Visayas	2026	9	22	3	69	150	150	20
Visayas	2026	9	22	4	66	150	150	20
Visayas	2026	9	22	5	71	150	150	20
Visayas	2026	9	22	6	74	150	150	20
Visayas	2026	9	22	7	69	150	150	20
Visayas	2026	9	22	8	86	150	150	20
Visayas	2026	9	22	9	106	150	150	20
Visayas	2026	9	22	10	117	150	150	20
Visayas	2026	9	22	11	120	150	150	20
Visayas	2026	9	22	12	117	150	150	20
Visayas	2026	9	22	13	119	150	150	20
Visayas	2026	9	22	14	126	150	150	20
Visayas	2026	9	22	15	124	150	150	20
Visayas	2026	9	22	16	120	150	150	20
Visayas	2026	9	22	17	112	150	150	20
Visayas	2026	9	22	18	118	150	150	20
Visayas	2026	9	22	19	115	150	150	20
Visayas	2026	9	22	20	112	150	150	20
Visayas	2026	9	22	21	106	150	150	20
Visayas	2026	9	22	22	97	150	150	20
Visayas	2026	9	22	23	89	150	150	20
Visayas	2026	9	22	24	82	150	150	20
Visayas	2026	9	23	1	77	150	150	20
Visayas	2026	9	23	2	74	150	150	20
Visayas	2026	9	23	3	70	150	150	20
Visayas	2026	9	23	4	69	150	150	20
Visayas	2026	9	23	5	73	150	150	20
Visayas	2026	9	23	6	76	150	150	20
Visayas	2026	9	23	7	72	150	150	20
Visayas	2026	9	23	8	88	150	150	20
Visayas	2026	9	23	9	106	150	150	20
Visayas	2026	9	23	10	116	150	150	20
Visayas	2026	9	23	11	122	150	150	20
Visayas	2026	9	23	12	119	150	150	20
Visayas	2026	9	23	13	121	150	150	20
Visayas	2026	9	23	14	123	150	150	20
Visayas	2026	9	23	15	124	150	150	20
Visayas	2026	9	23	16	121	150	150	20
Visayas	2026	9	23	17	112	150	150	20
Visayas	2026	9	23	18	117	150	150	20
Visayas	2026	9	23	19	114	150	150	20
Visayas	2026	9	23	20	110	150	150	20
Visayas	2026	9	23	21	100	150	150	20
Visayas	2026	9	23	22	91	150	150	20
Visayas	2026	9	23	23	86	150	150	20
Visayas	2026	9	23	24	81	150	150	20
Visayas	2026	9	24	1	77	150	150	20
Visayas	2026	9	24	2	73	150	150	20
Visayas	2026	9	24	3	69	150	150	20
Visayas	2026	9	24	4	68	150	150	20
Visayas	2026	9	24	5	72	150	150	20
Visayas	2026	9	24	6	77	150	150	20
Visayas	2026	9	24	7	71	150	150	20
Visayas	2026	9	24	8	83	150	150	20
Visayas	2026	9	24	9	101	150	150	20
Visayas	2026	9	24	10	107	150	150	20
Visayas	2026	9	24	11	110	150	150	20
Visayas	2026	9	24	12	107	150	150	20
Visayas	2026	9	24	13	109	150	150	20
Visayas	2026	9	24	14	114	150	150	20
Visayas	2026	9	24	15	115	150	150	20
Visayas	2026	9	24	16	112	150	150	20
Visayas	2026	9	24	17	107	150	150	20
Visayas	2026	9	24	18	115	150	150	20
Visayas	2026	9	24	19	111	150	150	20
Visayas	2026	9	24	20	107	150	150	20
Visayas	2026	9	24	21	101	150	150	20
Visayas	2026	9	24	22	93	150	150	20
Visayas	2026	9	24	23	86	150	150	20
Visayas	2026	9	24	24	79	150	150	20
Visayas	2026	9	25	1	75	150	150	20
Visayas	2026	9	25	2	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	25	3	67	150	150	20
Visayas	2026	9	25	4	66	150	150	20
Visayas	2026	9	25	5	69	150	150	20
Visayas	2026	9	25	6	73	150	150	20
Visayas	2026	9	25	7	69	150	150	20
Visayas	2026	9	25	8	80	150	150	20
Visayas	2026	9	25	9	96	150	150	20
Visayas	2026	9	25	10	104	150	150	20
Visayas	2026	9	25	11	110	150	150	20
Visayas	2026	9	25	12	107	150	150	20
Visayas	2026	9	25	13	106	150	150	20
Visayas	2026	9	25	14	112	150	150	20
Visayas	2026	9	25	15	111	150	150	20
Visayas	2026	9	25	16	108	150	150	20
Visayas	2026	9	25	17	102	150	150	20
Visayas	2026	9	25	18	108	150	150	20
Visayas	2026	9	25	19	104	150	150	20
Visayas	2026	9	25	20	98	150	150	20
Visayas	2026	9	25	21	93	150	150	20
Visayas	2026	9	25	22	86	150	150	20
Visayas	2026	9	25	23	79	150	150	20
Visayas	2026	9	25	24	74	150	150	20
Visayas	2026	9	26	1	69	150	150	20
Visayas	2026	9	26	2	66	150	150	20
Visayas	2026	9	26	3	63	150	150	20
Visayas	2026	9	26	4	63	150	150	20
Visayas	2026	9	26	5	63	150	150	20
Visayas	2026	9	26	6	64	150	150	20
Visayas	2026	9	26	7	63	150	150	20
Visayas	2026	9	26	8	75	150	150	20
Visayas	2026	9	26	9	87	150	150	20
Visayas	2026	9	26	10	94	150	150	20
Visayas	2026	9	26	11	96	150	150	20
Visayas	2026	9	26	12	95	150	150	20
Visayas	2026	9	26	13	94	150	150	20
Visayas	2026	9	26	14	96	150	150	20
Visayas	2026	9	26	15	94	150	150	20
Visayas	2026	9	26	16	92	150	150	20
Visayas	2026	9	26	17	91	150	150	20
Visayas	2026	9	26	18	100	150	150	20
Visayas	2026	9	26	19	99	150	150	20
Visayas	2026	9	26	20	93	150	150	20
Visayas	2026	9	26	21	88	150	150	20
Visayas	2026	9	26	22	82	150	150	20
Visayas	2026	9	26	23	76	150	150	20
Visayas	2026	9	26	24	70	150	150	20
Visayas	2026	9	27	1	68	150	150	20
Visayas	2026	9	27	2	65	150	150	20
Visayas	2026	9	27	3	63	150	150	20
Visayas	2026	9	27	4	61	150	150	20
Visayas	2026	9	27	5	61	150	150	20
Visayas	2026	9	27	6	62	150	150	20
Visayas	2026	9	27	7	61	150	150	20
Visayas	2026	9	27	8	65	150	150	20
Visayas	2026	9	27	9	71	150	150	20
Visayas	2026	9	27	10	78	150	150	20
Visayas	2026	9	27	11	82	150	150	20
Visayas	2026	9	27	12	81	150	150	20
Visayas	2026	9	27	13	83	150	150	20
Visayas	2026	9	27	14	84	150	150	20
Visayas	2026	9	27	15	84	150	150	20
Visayas	2026	9	27	16	82	150	150	20
Visayas	2026	9	27	17	84	150	150	20
Visayas	2026	9	27	18	99	150	150	20
Visayas	2026	9	27	19	97	150	150	20
Visayas	2026	9	27	20	95	150	150	20
Visayas	2026	9	27	21	91	150	150	20
Visayas	2026	9	27	22	84	150	150	20
Visayas	2026	9	27	23	77	150	150	20
Visayas	2026	9	27	24	72	150	150	20
Visayas	2026	9	28	1	68	150	150	20
Visayas	2026	9	28	2	65	150	150	20
Visayas	2026	9	28	3	62	150	150	20
Visayas	2026	9	28	4	62	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	9	28	5	67	150	150	20
Visayas	2026	9	28	6	71	150	150	20
Visayas	2026	9	28	7	66	150	150	20
Visayas	2026	9	28	8	84	150	150	20
Visayas	2026	9	28	9	102	150	150	20
Visayas	2026	9	28	10	113	150	150	20
Visayas	2026	9	28	11	116	150	150	20
Visayas	2026	9	28	12	112	150	150	20
Visayas	2026	9	28	13	115	150	150	20
Visayas	2026	9	28	14	120	150	150	20
Visayas	2026	9	28	15	115	150	150	20
Visayas	2026	9	28	16	110	150	150	20
Visayas	2026	9	28	17	105	150	150	20
Visayas	2026	9	28	18	112	150	150	20
Visayas	2026	9	28	19	108	150	150	20
Visayas	2026	9	28	20	103	150	150	20
Visayas	2026	9	28	21	97	150	150	20
Visayas	2026	9	28	22	90	150	150	20
Visayas	2026	9	28	23	83	150	150	20
Visayas	2026	9	28	24	77	150	150	20
Visayas	2026	9	29	1	73	150	150	20
Visayas	2026	9	29	2	68	150	150	20
Visayas	2026	9	29	3	66	150	150	20
Visayas	2026	9	29	4	65	150	150	20
Visayas	2026	9	29	5	70	150	150	20
Visayas	2026	9	29	6	74	150	150	20
Visayas	2026	9	29	7	69	150	150	20
Visayas	2026	9	29	8	85	150	150	20
Visayas	2026	9	29	9	103	150	150	20
Visayas	2026	9	29	10	114	150	150	20
Visayas	2026	9	29	11	119	150	150	20
Visayas	2026	9	29	12	114	150	150	20
Visayas	2026	9	29	13	106	150	150	20
Visayas	2026	9	29	14	122	150	150	20
Visayas	2026	9	29	15	122	150	150	20
Visayas	2026	9	29	16	118	150	150	20
Visayas	2026	9	29	17	109	150	150	20
Visayas	2026	9	29	18	116	150	150	20
Visayas	2026	9	29	19	113	150	150	20
Visayas	2026	9	29	20	107	150	150	20
Visayas	2026	9	29	21	100	150	150	20
Visayas	2026	9	29	22	93	150	150	20
Visayas	2026	9	29	23	86	150	150	20
Visayas	2026	9	29	24	80	150	150	20
Visayas	2026	9	30	1	76	150	150	20
Visayas	2026	9	30	2	73	150	150	20
Visayas	2026	9	30	3	69	150	150	20
Visayas	2026	9	30	4	67	150	150	20
Visayas	2026	9	30	5	72	150	150	20
Visayas	2026	9	30	6	76	150	150	20
Visayas	2026	9	30	7	71	150	150	20
Visayas	2026	9	30	8	84	150	150	20
Visayas	2026	9	30	9	103	150	150	20
Visayas	2026	9	30	10	113	150	150	20
Visayas	2026	9	30	11	117	150	150	20
Visayas	2026	9	30	12	113	150	150	20
Visayas	2026	9	30	13	114	150	150	20
Visayas	2026	9	30	14	122	150	150	20
Visayas	2026	9	30	15	119	150	150	20
Visayas	2026	9	30	16	115	150	150	20
Visayas	2026	9	30	17	106	150	150	20
Visayas	2026	9	30	18	114	150	150	20
Visayas	2026	9	30	19	111	150	150	20
Visayas	2026	9	30	20	106	150	150	20
Visayas	2026	9	30	21	101	150	150	20
Visayas	2026	9	30	22	92	150	150	20
Visayas	2026	9	30	23	85	150	150	20
Visayas	2026	9	30	24	79	150	150	20
Visayas	2026	10	1	1	75	150	150	20
Visayas	2026	10	1	2	70	150	150	20
Visayas	2026	10	1	3	68	150	150	20
Visayas	2026	10	1	4	67	150	150	20
Visayas	2026	10	1	5	71	150	150	20
Visayas	2026	10	1	6	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	1	7	70	150	150	20
Visayas	2026	10	1	8	85	150	150	20
Visayas	2026	10	1	9	103	150	150	20
Visayas	2026	10	1	10	112	150	150	20
Visayas	2026	10	1	11	117	150	150	20
Visayas	2026	10	1	12	115	150	150	20
Visayas	2026	10	1	13	115	150	150	20
Visayas	2026	10	1	14	118	150	150	20
Visayas	2026	10	1	15	117	150	150	20
Visayas	2026	10	1	16	111	150	150	20
Visayas	2026	10	1	17	107	150	150	20
Visayas	2026	10	1	18	114	150	150	20
Visayas	2026	10	1	19	109	150	150	20
Visayas	2026	10	1	20	105	150	150	20
Visayas	2026	10	1	21	99	150	150	20
Visayas	2026	10	1	22	91	150	150	20
Visayas	2026	10	1	23	84	150	150	20
Visayas	2026	10	1	24	79	150	150	20
Visayas	2026	10	2	1	73	150	150	20
Visayas	2026	10	2	2	70	150	150	20
Visayas	2026	10	2	3	68	150	150	20
Visayas	2026	10	2	4	66	150	150	20
Visayas	2026	10	2	5	71	150	150	20
Visayas	2026	10	2	6	75	150	150	20
Visayas	2026	10	2	7	71	150	150	20
Visayas	2026	10	2	8	85	150	150	20
Visayas	2026	10	2	9	103	150	150	20
Visayas	2026	10	2	10	113	150	150	20
Visayas	2026	10	2	11	118	150	150	20
Visayas	2026	10	2	12	113	150	150	20
Visayas	2026	10	2	13	116	150	150	20
Visayas	2026	10	2	14	119	150	150	20
Visayas	2026	10	2	15	114	150	150	20
Visayas	2026	10	2	16	110	150	150	20
Visayas	2026	10	2	17	107	150	150	20
Visayas	2026	10	2	18	114	150	150	20
Visayas	2026	10	2	19	109	150	150	20
Visayas	2026	10	2	20	104	150	150	20
Visayas	2026	10	2	21	99	150	150	20
Visayas	2026	10	2	22	92	150	150	20
Visayas	2026	10	2	23	85	150	150	20
Visayas	2026	10	2	24	79	150	150	20
Visayas	2026	10	3	1	75	150	150	20
Visayas	2026	10	3	2	71	150	150	20
Visayas	2026	10	3	3	68	150	150	20
Visayas	2026	10	3	4	67	150	150	20
Visayas	2026	10	3	5	67	150	150	20
Visayas	2026	10	3	6	68	150	150	20
Visayas	2026	10	3	7	67	150	150	20
Visayas	2026	10	3	8	76	150	150	20
Visayas	2026	10	3	9	88	150	150	20
Visayas	2026	10	3	10	96	150	150	20
Visayas	2026	10	3	11	103	150	150	20
Visayas	2026	10	3	12	100	150	150	20
Visayas	2026	10	3	13	100	150	150	20
Visayas	2026	10	3	14	104	150	150	20
Visayas	2026	10	3	15	102	150	150	20
Visayas	2026	10	3	16	100	150	150	20
Visayas	2026	10	3	17	98	150	150	20
Visayas	2026	10	3	18	110	150	150	20
Visayas	2026	10	3	19	106	150	150	20
Visayas	2026	10	3	20	102	150	150	20
Visayas	2026	10	3	21	98	150	150	20
Visayas	2026	10	3	22	91	150	150	20
Visayas	2026	10	3	23	85	150	150	20
Visayas	2026	10	3	24	80	150	150	20
Visayas	2026	10	4	1	75	150	150	20
Visayas	2026	10	4	2	72	150	150	20
Visayas	2026	10	4	3	67	150	150	20
Visayas	2026	10	4	4	66	150	150	20
Visayas	2026	10	4	5	62	150	150	20
Visayas	2026	10	4	6	61	150	150	20
Visayas	2026	10	4	7	61	150	150	20
Visayas	2026	10	4	8	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	4	9	71	150	150	20
Visayas	2026	10	4	10	76	150	150	20
Visayas	2026	10	4	11	79	150	150	20
Visayas	2026	10	4	12	79	150	150	20
Visayas	2026	10	4	13	82	150	150	20
Visayas	2026	10	4	14	83	150	150	20
Visayas	2026	10	4	15	84	150	150	20
Visayas	2026	10	4	16	80	150	150	20
Visayas	2026	10	4	17	81	150	150	20
Visayas	2026	10	4	18	97	150	150	20
Visayas	2026	10	4	19	97	150	150	20
Visayas	2026	10	4	20	99	150	150	20
Visayas	2026	10	4	21	95	150	150	20
Visayas	2026	10	4	22	89	150	150	20
Visayas	2026	10	4	23	82	150	150	20
Visayas	2026	10	4	24	77	150	150	20
Visayas	2026	10	5	1	73	150	150	20
Visayas	2026	10	5	2	68	150	150	20
Visayas	2026	10	5	3	66	150	150	20
Visayas	2026	10	5	4	64	150	150	20
Visayas	2026	10	5	5	67	150	150	20
Visayas	2026	10	5	6	72	150	150	20
Visayas	2026	10	5	7	68	150	150	20
Visayas	2026	10	5	8	81	150	150	20
Visayas	2026	10	5	9	101	150	150	20
Visayas	2026	10	5	10	110	150	150	20
Visayas	2026	10	5	11	114	150	150	20
Visayas	2026	10	5	12	112	150	150	20
Visayas	2026	10	5	13	113	150	150	20
Visayas	2026	10	5	14	121	150	150	20
Visayas	2026	10	5	15	120	150	150	20
Visayas	2026	10	5	16	118	150	150	20
Visayas	2026	10	5	17	110	150	150	20
Visayas	2026	10	5	18	118	150	150	20
Visayas	2026	10	5	19	112	150	150	20
Visayas	2026	10	5	20	108	150	150	20
Visayas	2026	10	5	21	104	150	150	20
Visayas	2026	10	5	22	96	150	150	20
Visayas	2026	10	5	23	89	150	150	20
Visayas	2026	10	5	24	82	150	150	20
Visayas	2026	10	6	1	79	150	150	20
Visayas	2026	10	6	2	75	150	150	20
Visayas	2026	10	6	3	72	150	150	20
Visayas	2026	10	6	4	71	150	150	20
Visayas	2026	10	6	5	75	150	150	20
Visayas	2026	10	6	6	79	150	150	20
Visayas	2026	10	6	7	73	150	150	20
Visayas	2026	10	6	8	88	150	150	20
Visayas	2026	10	6	9	107	150	150	20
Visayas	2026	10	6	10	116	150	150	20
Visayas	2026	10	6	11	123	150	150	20
Visayas	2026	10	6	12	120	150	150	20
Visayas	2026	10	6	13	122	150	150	20
Visayas	2026	10	6	14	127	150	150	20
Visayas	2026	10	6	15	126	150	150	20
Visayas	2026	10	6	16	123	150	150	20
Visayas	2026	10	6	17	115	150	150	20
Visayas	2026	10	6	18	122	150	150	20
Visayas	2026	10	6	19	116	150	150	20
Visayas	2026	10	6	20	112	150	150	20
Visayas	2026	10	6	21	107	150	150	20
Visayas	2026	10	6	22	98	150	150	20
Visayas	2026	10	6	23	90	150	150	20
Visayas	2026	10	6	24	84	150	150	20
Visayas	2026	10	7	1	79	150	150	20
Visayas	2026	10	7	2	76	150	150	20
Visayas	2026	10	7	3	73	150	150	20
Visayas	2026	10	7	4	71	150	150	20
Visayas	2026	10	7	5	75	150	150	20
Visayas	2026	10	7	6	78	150	150	20
Visayas	2026	10	7	7	73	150	150	20
Visayas	2026	10	7	8	92	150	150	20
Visayas	2026	10	7	9	110	150	150	20
Visayas	2026	10	7	10	118	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	7	11	123	150	150	20
Visayas	2026	10	7	12	121	150	150	20
Visayas	2026	10	7	13	122	150	150	20
Visayas	2026	10	7	14	128	150	150	20
Visayas	2026	10	7	15	126	150	150	20
Visayas	2026	10	7	16	124	150	150	20
Visayas	2026	10	7	17	116	150	150	20
Visayas	2026	10	7	18	124	150	150	20
Visayas	2026	10	7	19	120	150	150	20
Visayas	2026	10	7	20	115	150	150	20
Visayas	2026	10	7	21	109	150	150	20
Visayas	2026	10	7	22	100	150	150	20
Visayas	2026	10	7	23	93	150	150	20
Visayas	2026	10	7	24	86	150	150	20
Visayas	2026	10	8	1	81	150	150	20
Visayas	2026	10	8	2	76	150	150	20
Visayas	2026	10	8	3	74	150	150	20
Visayas	2026	10	8	4	72	150	150	20
Visayas	2026	10	8	5	74	150	150	20
Visayas	2026	10	8	6	76	150	150	20
Visayas	2026	10	8	7	77	150	150	20
Visayas	2026	10	8	8	92	150	150	20
Visayas	2026	10	8	9	109	150	150	20
Visayas	2026	10	8	10	120	150	150	20
Visayas	2026	10	8	11	125	150	150	20
Visayas	2026	10	8	12	122	150	150	20
Visayas	2026	10	8	13	124	150	150	20
Visayas	2026	10	8	14	130	150	150	20
Visayas	2026	10	8	15	129	150	150	20
Visayas	2026	10	8	16	126	150	150	20
Visayas	2026	10	8	17	117	150	150	20
Visayas	2026	10	8	18	124	150	150	20
Visayas	2026	10	8	19	119	150	150	20
Visayas	2026	10	8	20	115	150	150	20
Visayas	2026	10	8	21	109	150	150	20
Visayas	2026	10	8	22	101	150	150	20
Visayas	2026	10	8	23	93	150	150	20
Visayas	2026	10	8	24	87	150	150	20
Visayas	2026	10	9	1	81	150	150	20
Visayas	2026	10	9	2	78	150	150	20
Visayas	2026	10	9	3	75	150	150	20
Visayas	2026	10	9	4	73	150	150	20
Visayas	2026	10	9	5	75	150	150	20
Visayas	2026	10	9	6	77	150	150	20
Visayas	2026	10	9	7	75	150	150	20
Visayas	2026	10	9	8	92	150	150	20
Visayas	2026	10	9	9	110	150	150	20
Visayas	2026	10	9	10	121	150	150	20
Visayas	2026	10	9	11	126	150	150	20
Visayas	2026	10	9	12	123	150	150	20
Visayas	2026	10	9	13	124	150	150	20
Visayas	2026	10	9	14	130	150	150	20
Visayas	2026	10	9	15	127	150	150	20
Visayas	2026	10	9	16	123	150	150	20
Visayas	2026	10	9	17	116	150	150	20
Visayas	2026	10	9	18	121	150	150	20
Visayas	2026	10	9	19	119	150	150	20
Visayas	2026	10	9	20	113	150	150	20
Visayas	2026	10	9	21	108	150	150	20
Visayas	2026	10	9	22	100	150	150	20
Visayas	2026	10	9	23	93	150	150	20
Visayas	2026	10	9	24	86	150	150	20
Visayas	2026	10	10	1	81	150	150	20
Visayas	2026	10	10	2	77	150	150	20
Visayas	2026	10	10	3	73	150	150	20
Visayas	2026	10	10	4	72	150	150	20
Visayas	2026	10	10	5	71	150	150	20
Visayas	2026	10	10	6	69	150	150	20
Visayas	2026	10	10	7	69	150	150	20
Visayas	2026	10	10	8	79	150	150	20
Visayas	2026	10	10	9	96	150	150	20
Visayas	2026	10	10	10	107	150	150	20
Visayas	2026	10	10	11	109	150	150	20
Visayas	2026	10	10	12	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	10	13	108	150	150	20
Visayas	2026	10	10	14	111	150	150	20
Visayas	2026	10	10	15	107	150	150	20
Visayas	2026	10	10	16	105	150	150	20
Visayas	2026	10	10	17	102	150	150	20
Visayas	2026	10	10	18	114	150	150	20
Visayas	2026	10	10	19	110	150	150	20
Visayas	2026	10	10	20	106	150	150	20
Visayas	2026	10	10	21	102	150	150	20
Visayas	2026	10	10	22	95	150	150	20
Visayas	2026	10	10	23	88	150	150	20
Visayas	2026	10	10	24	82	150	150	20
Visayas	2026	10	11	1	77	150	150	20
Visayas	2026	10	11	2	74	150	150	20
Visayas	2026	10	11	3	70	150	150	20
Visayas	2026	10	11	4	67	150	150	20
Visayas	2026	10	11	5	66	150	150	20
Visayas	2026	10	11	6	65	150	150	20
Visayas	2026	10	11	7	62	150	150	20
Visayas	2026	10	11	8	70	150	150	20
Visayas	2026	10	11	9	81	150	150	20
Visayas	2026	10	11	10	89	150	150	20
Visayas	2026	10	11	11	92	150	150	20
Visayas	2026	10	11	12	93	150	150	20
Visayas	2026	10	11	13	93	150	150	20
Visayas	2026	10	11	14	96	150	150	20
Visayas	2026	10	11	15	97	150	150	20
Visayas	2026	10	11	16	94	150	150	20
Visayas	2026	10	11	17	95	150	150	20
Visayas	2026	10	11	18	110	150	150	20
Visayas	2026	10	11	19	106	150	150	20
Visayas	2026	10	11	20	105	150	150	20
Visayas	2026	10	11	21	102	150	150	20
Visayas	2026	10	11	22	94	150	150	20
Visayas	2026	10	11	23	88	150	150	20
Visayas	2026	10	11	24	80	150	150	20
Visayas	2026	10	12	1	75	150	150	20
Visayas	2026	10	12	2	71	150	150	20
Visayas	2026	10	12	3	68	150	150	20
Visayas	2026	10	12	4	67	150	150	20
Visayas	2026	10	12	5	72	150	150	20
Visayas	2026	10	12	6	76	150	150	20
Visayas	2026	10	12	7	71	150	150	20
Visayas	2026	10	12	8	87	150	150	20
Visayas	2026	10	12	9	108	150	150	20
Visayas	2026	10	12	10	118	150	150	20
Visayas	2026	10	12	11	122	150	150	20
Visayas	2026	10	12	12	119	150	150	20
Visayas	2026	10	12	13	121	150	150	20
Visayas	2026	10	12	14	124	150	150	20
Visayas	2026	10	12	15	125	150	150	20
Visayas	2026	10	12	16	122	150	150	20
Visayas	2026	10	12	17	115	150	150	20
Visayas	2026	10	12	18	123	150	150	20
Visayas	2026	10	12	19	118	150	150	20
Visayas	2026	10	12	20	114	150	150	20
Visayas	2026	10	12	21	108	150	150	20
Visayas	2026	10	12	22	96	150	150	20
Visayas	2026	10	12	23	89	150	150	20
Visayas	2026	10	12	24	80	150	150	20
Visayas	2026	10	13	1	77	150	150	20
Visayas	2026	10	13	2	74	150	150	20
Visayas	2026	10	13	3	72	150	150	20
Visayas	2026	10	13	4	70	150	150	20
Visayas	2026	10	13	5	74	150	150	20
Visayas	2026	10	13	6	77	150	150	20
Visayas	2026	10	13	7	73	150	150	20
Visayas	2026	10	13	8	90	150	150	20
Visayas	2026	10	13	9	109	150	150	20
Visayas	2026	10	13	10	116	150	150	20
Visayas	2026	10	13	11	115	150	150	20
Visayas	2026	10	13	12	111	150	150	20
Visayas	2026	10	13	13	108	150	150	20
Visayas	2026	10	13	14	109	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	13	15	106	150	150	20
Visayas	2026	10	13	16	107	150	150	20
Visayas	2026	10	13	17	105	150	150	20
Visayas	2026	10	13	18	110	150	150	20
Visayas	2026	10	13	19	103	150	150	20
Visayas	2026	10	13	20	98	150	150	20
Visayas	2026	10	13	21	91	150	150	20
Visayas	2026	10	13	22	82	150	150	20
Visayas	2026	10	13	23	77	150	150	20
Visayas	2026	10	13	24	71	150	150	20
Visayas	2026	10	14	1	67	150	150	20
Visayas	2026	10	14	2	64	150	150	20
Visayas	2026	10	14	3	62	150	150	20
Visayas	2026	10	14	4	61	150	150	20
Visayas	2026	10	14	5	66	150	150	20
Visayas	2026	10	14	6	73	150	150	20
Visayas	2026	10	14	7	67	150	150	20
Visayas	2026	10	14	8	81	150	150	20
Visayas	2026	10	14	9	99	150	150	20
Visayas	2026	10	14	10	109	150	150	20
Visayas	2026	10	14	11	113	150	150	20
Visayas	2026	10	14	12	110	150	150	20
Visayas	2026	10	14	13	107	150	150	20
Visayas	2026	10	14	14	114	150	150	20
Visayas	2026	10	14	15	113	150	150	20
Visayas	2026	10	14	16	111	150	150	20
Visayas	2026	10	14	17	108	150	150	20
Visayas	2026	10	14	18	115	150	150	20
Visayas	2026	10	14	19	109	150	150	20
Visayas	2026	10	14	20	104	150	150	20
Visayas	2026	10	14	21	98	150	150	20
Visayas	2026	10	14	22	89	150	150	20
Visayas	2026	10	14	23	82	150	150	20
Visayas	2026	10	14	24	76	150	150	20
Visayas	2026	10	15	1	72	150	150	20
Visayas	2026	10	15	2	69	150	150	20
Visayas	2026	10	15	3	66	150	150	20
Visayas	2026	10	15	4	65	150	150	20
Visayas	2026	10	15	5	70	150	150	20
Visayas	2026	10	15	6	75	150	150	20
Visayas	2026	10	15	7	71	150	150	20
Visayas	2026	10	15	8	85	150	150	20
Visayas	2026	10	15	9	103	150	150	20
Visayas	2026	10	15	10	112	150	150	20
Visayas	2026	10	15	11	119	150	150	20
Visayas	2026	10	15	12	117	150	150	20
Visayas	2026	10	15	13	118	150	150	20
Visayas	2026	10	15	14	125	150	150	20
Visayas	2026	10	15	15	125	150	150	20
Visayas	2026	10	15	16	120	150	150	20
Visayas	2026	10	15	17	114	150	150	20
Visayas	2026	10	15	18	122	150	150	20
Visayas	2026	10	15	19	114	150	150	20
Visayas	2026	10	15	20	111	150	150	20
Visayas	2026	10	15	21	105	150	150	20
Visayas	2026	10	15	22	97	150	150	20
Visayas	2026	10	15	23	89	150	150	20
Visayas	2026	10	15	24	82	150	150	20
Visayas	2026	10	16	1	78	150	150	20
Visayas	2026	10	16	2	74	150	150	20
Visayas	2026	10	16	3	71	150	150	20
Visayas	2026	10	16	4	70	150	150	20
Visayas	2026	10	16	5	73	150	150	20
Visayas	2026	10	16	6	76	150	150	20
Visayas	2026	10	16	7	72	150	150	20
Visayas	2026	10	16	8	87	150	150	20
Visayas	2026	10	16	9	106	150	150	20
Visayas	2026	10	16	10	116	150	150	20
Visayas	2026	10	16	11	122	150	150	20
Visayas	2026	10	16	12	117	150	150	20
Visayas	2026	10	16	13	118	150	150	20
Visayas	2026	10	16	14	123	150	150	20
Visayas	2026	10	16	15	120	150	150	20
Visayas	2026	10	16	16	116	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	16	17	109	150	150	20
Visayas	2026	10	16	18	118	150	150	20
Visayas	2026	10	16	19	112	150	150	20
Visayas	2026	10	16	20	107	150	150	20
Visayas	2026	10	16	21	102	150	150	20
Visayas	2026	10	16	22	94	150	150	20
Visayas	2026	10	16	23	87	150	150	20
Visayas	2026	10	16	24	82	150	150	20
Visayas	2026	10	17	1	77	150	150	20
Visayas	2026	10	17	2	74	150	150	20
Visayas	2026	10	17	3	71	150	150	20
Visayas	2026	10	17	4	69	150	150	20
Visayas	2026	10	17	5	69	150	150	20
Visayas	2026	10	17	6	70	150	150	20
Visayas	2026	10	17	7	69	150	150	20
Visayas	2026	10	17	8	81	150	150	20
Visayas	2026	10	17	9	93	150	150	20
Visayas	2026	10	17	10	101	150	150	20
Visayas	2026	10	17	11	107	150	150	20
Visayas	2026	10	17	12	105	150	150	20
Visayas	2026	10	17	13	105	150	150	20
Visayas	2026	10	17	14	104	150	150	20
Visayas	2026	10	17	15	101	150	150	20
Visayas	2026	10	17	16	100	150	150	20
Visayas	2026	10	17	17	95	150	150	20
Visayas	2026	10	17	18	109	150	150	20
Visayas	2026	10	17	19	104	150	150	20
Visayas	2026	10	17	20	100	150	150	20
Visayas	2026	10	17	21	95	150	150	20
Visayas	2026	10	17	22	88	150	150	20
Visayas	2026	10	17	23	81	150	150	20
Visayas	2026	10	17	24	76	150	150	20
Visayas	2026	10	18	1	71	150	150	20
Visayas	2026	10	18	2	68	150	150	20
Visayas	2026	10	18	3	64	150	150	20
Visayas	2026	10	18	4	63	150	150	20
Visayas	2026	10	18	5	63	150	150	20
Visayas	2026	10	18	6	61	150	150	20
Visayas	2026	10	18	7	61	150	150	20
Visayas	2026	10	18	8	66	150	150	20
Visayas	2026	10	18	9	75	150	150	20
Visayas	2026	10	18	10	83	150	150	20
Visayas	2026	10	18	11	86	150	150	20
Visayas	2026	10	18	12	86	150	150	20
Visayas	2026	10	18	13	87	150	150	20
Visayas	2026	10	18	14	91	150	150	20
Visayas	2026	10	18	15	90	150	150	20
Visayas	2026	10	18	16	87	150	150	20
Visayas	2026	10	18	17	87	150	150	20
Visayas	2026	10	18	18	103	150	150	20
Visayas	2026	10	18	19	99	150	150	20
Visayas	2026	10	18	20	98	150	150	20
Visayas	2026	10	18	21	95	150	150	20
Visayas	2026	10	18	22	89	150	150	20
Visayas	2026	10	18	23	82	150	150	20
Visayas	2026	10	18	24	75	150	150	20
Visayas	2026	10	19	1	72	150	150	20
Visayas	2026	10	19	2	67	150	150	20
Visayas	2026	10	19	3	64	150	150	20
Visayas	2026	10	19	4	63	150	150	20
Visayas	2026	10	19	5	66	150	150	20
Visayas	2026	10	19	6	71	150	150	20
Visayas	2026	10	19	7	66	150	150	20
Visayas	2026	10	19	8	80	150	150	20
Visayas	2026	10	19	9	100	150	150	20
Visayas	2026	10	19	10	108	150	150	20
Visayas	2026	10	19	11	113	150	150	20
Visayas	2026	10	19	12	111	150	150	20
Visayas	2026	10	19	13	111	150	150	20
Visayas	2026	10	19	14	118	150	150	20
Visayas	2026	10	19	15	116	150	150	20
Visayas	2026	10	19	16	110	150	150	20
Visayas	2026	10	19	17	103	150	150	20
Visayas	2026	10	19	18	111	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	19	19	103	150	150	20
Visayas	2026	10	19	20	99	150	150	20
Visayas	2026	10	19	21	93	150	150	20
Visayas	2026	10	19	22	86	150	150	20
Visayas	2026	10	19	23	79	150	150	20
Visayas	2026	10	19	24	73	150	150	20
Visayas	2026	10	20	1	70	150	150	20
Visayas	2026	10	20	2	66	150	150	20
Visayas	2026	10	20	3	63	150	150	20
Visayas	2026	10	20	4	62	150	150	20
Visayas	2026	10	20	5	67	150	150	20
Visayas	2026	10	20	6	71	150	150	20
Visayas	2026	10	20	7	66	150	150	20
Visayas	2026	10	20	8	82	150	150	20
Visayas	2026	10	20	9	102	150	150	20
Visayas	2026	10	20	10	112	150	150	20
Visayas	2026	10	20	11	117	150	150	20
Visayas	2026	10	20	12	113	150	150	20
Visayas	2026	10	20	13	112	150	150	20
Visayas	2026	10	20	14	117	150	150	20
Visayas	2026	10	20	15	118	150	150	20
Visayas	2026	10	20	16	117	150	150	20
Visayas	2026	10	20	17	109	150	150	20
Visayas	2026	10	20	18	118	150	150	20
Visayas	2026	10	20	19	113	150	150	20
Visayas	2026	10	20	20	107	150	150	20
Visayas	2026	10	20	21	100	150	150	20
Visayas	2026	10	20	22	92	150	150	20
Visayas	2026	10	20	23	84	150	150	20
Visayas	2026	10	20	24	78	150	150	20
Visayas	2026	10	21	1	73	150	150	20
Visayas	2026	10	21	2	69	150	150	20
Visayas	2026	10	21	3	66	150	150	20
Visayas	2026	10	21	4	65	150	150	20
Visayas	2026	10	21	5	68	150	150	20
Visayas	2026	10	21	6	73	150	150	20
Visayas	2026	10	21	7	68	150	150	20
Visayas	2026	10	21	8	83	150	150	20
Visayas	2026	10	21	9	102	150	150	20
Visayas	2026	10	21	10	112	150	150	20
Visayas	2026	10	21	11	116	150	150	20
Visayas	2026	10	21	12	113	150	150	20
Visayas	2026	10	21	13	115	150	150	20
Visayas	2026	10	21	14	122	150	150	20
Visayas	2026	10	21	15	123	150	150	20
Visayas	2026	10	21	16	119	150	150	20
Visayas	2026	10	21	17	112	150	150	20
Visayas	2026	10	21	18	120	150	150	20
Visayas	2026	10	21	19	113	150	150	20
Visayas	2026	10	21	20	109	150	150	20
Visayas	2026	10	21	21	103	150	150	20
Visayas	2026	10	21	22	94	150	150	20
Visayas	2026	10	21	23	87	150	150	20
Visayas	2026	10	21	24	81	150	150	20
Visayas	2026	10	22	1	76	150	150	20
Visayas	2026	10	22	2	73	150	150	20
Visayas	2026	10	22	3	69	150	150	20
Visayas	2026	10	22	4	67	150	150	20
Visayas	2026	10	22	5	72	150	150	20
Visayas	2026	10	22	6	74	150	150	20
Visayas	2026	10	22	7	69	150	150	20
Visayas	2026	10	22	8	86	150	150	20
Visayas	2026	10	22	9	105	150	150	20
Visayas	2026	10	22	10	114	150	150	20
Visayas	2026	10	22	11	119	150	150	20
Visayas	2026	10	22	12	115	150	150	20
Visayas	2026	10	22	13	118	150	150	20
Visayas	2026	10	22	14	124	150	150	20
Visayas	2026	10	22	15	124	150	150	20
Visayas	2026	10	22	16	121	150	150	20
Visayas	2026	10	22	17	112	150	150	20
Visayas	2026	10	22	18	121	150	150	20
Visayas	2026	10	22	19	114	150	150	20
Visayas	2026	10	22	20	109	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	22	21	104	150	150	20
Visayas	2026	10	22	22	95	150	150	20
Visayas	2026	10	22	23	88	150	150	20
Visayas	2026	10	22	24	82	150	150	20
Visayas	2026	10	23	1	77	150	150	20
Visayas	2026	10	23	2	73	150	150	20
Visayas	2026	10	23	3	69	150	150	20
Visayas	2026	10	23	4	67	150	150	20
Visayas	2026	10	23	5	71	150	150	20
Visayas	2026	10	23	6	73	150	150	20
Visayas	2026	10	23	7	71	150	150	20
Visayas	2026	10	23	8	86	150	150	20
Visayas	2026	10	23	9	103	150	150	20
Visayas	2026	10	23	10	113	150	150	20
Visayas	2026	10	23	11	119	150	150	20
Visayas	2026	10	23	12	116	150	150	20
Visayas	2026	10	23	13	119	150	150	20
Visayas	2026	10	23	14	124	150	150	20
Visayas	2026	10	23	15	124	150	150	20
Visayas	2026	10	23	16	121	150	150	20
Visayas	2026	10	23	17	112	150	150	20
Visayas	2026	10	23	18	120	150	150	20
Visayas	2026	10	23	19	113	150	150	20
Visayas	2026	10	23	20	109	150	150	20
Visayas	2026	10	23	21	103	150	150	20
Visayas	2026	10	23	22	95	150	150	20
Visayas	2026	10	23	23	88	150	150	20
Visayas	2026	10	23	24	82	150	150	20
Visayas	2026	10	24	1	77	150	150	20
Visayas	2026	10	24	2	73	150	150	20
Visayas	2026	10	24	3	70	150	150	20
Visayas	2026	10	24	4	68	150	150	20
Visayas	2026	10	24	5	68	150	150	20
Visayas	2026	10	24	6	69	150	150	20
Visayas	2026	10	24	7	68	150	150	20
Visayas	2026	10	24	8	77	150	150	20
Visayas	2026	10	24	9	91	150	150	20
Visayas	2026	10	24	10	101	150	150	20
Visayas	2026	10	24	11	107	150	150	20
Visayas	2026	10	24	12	106	150	150	20
Visayas	2026	10	24	13	106	150	150	20
Visayas	2026	10	24	14	109	150	150	20
Visayas	2026	10	24	15	107	150	150	20
Visayas	2026	10	24	16	101	150	150	20
Visayas	2026	10	24	17	100	150	150	20
Visayas	2026	10	24	18	110	150	150	20
Visayas	2026	10	24	19	104	150	150	20
Visayas	2026	10	24	20	99	150	150	20
Visayas	2026	10	24	21	95	150	150	20
Visayas	2026	10	24	22	87	150	150	20
Visayas	2026	10	24	23	80	150	150	20
Visayas	2026	10	24	24	75	150	150	20
Visayas	2026	10	25	1	72	150	150	20
Visayas	2026	10	25	2	67	150	150	20
Visayas	2026	10	25	3	65	150	150	20
Visayas	2026	10	25	4	63	150	150	20
Visayas	2026	10	25	5	63	150	150	20
Visayas	2026	10	25	6	61	150	150	20
Visayas	2026	10	25	7	62	150	150	20
Visayas	2026	10	25	8	66	150	150	20
Visayas	2026	10	25	9	75	150	150	20
Visayas	2026	10	25	10	81	150	150	20
Visayas	2026	10	25	11	86	150	150	20
Visayas	2026	10	25	12	87	150	150	20
Visayas	2026	10	25	13	88	150	150	20
Visayas	2026	10	25	14	89	150	150	20
Visayas	2026	10	25	15	88	150	150	20
Visayas	2026	10	25	16	87	150	150	20
Visayas	2026	10	25	17	90	150	150	20
Visayas	2026	10	25	18	103	150	150	20
Visayas	2026	10	25	19	101	150	150	20
Visayas	2026	10	25	20	96	150	150	20
Visayas	2026	10	25	21	91	150	150	20
Visayas	2026	10	25	22	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	25	23	78	150	150	20
Visayas	2026	10	25	24	73	150	150	20
Visayas	2026	10	26	1	69	150	150	20
Visayas	2026	10	26	2	66	150	150	20
Visayas	2026	10	26	3	63	150	150	20
Visayas	2026	10	26	4	62	150	150	20
Visayas	2026	10	26	5	66	150	150	20
Visayas	2026	10	26	6	72	150	150	20
Visayas	2026	10	26	7	66	150	150	20
Visayas	2026	10	26	8	82	150	150	20
Visayas	2026	10	26	9	101	150	150	20
Visayas	2026	10	26	10	112	150	150	20
Visayas	2026	10	26	11	118	150	150	20
Visayas	2026	10	26	12	115	150	150	20
Visayas	2026	10	26	13	116	150	150	20
Visayas	2026	10	26	14	120	150	150	20
Visayas	2026	10	26	15	117	150	150	20
Visayas	2026	10	26	16	113	150	150	20
Visayas	2026	10	26	17	108	150	150	20
Visayas	2026	10	26	18	116	150	150	20
Visayas	2026	10	26	19	111	150	150	20
Visayas	2026	10	26	20	105	150	150	20
Visayas	2026	10	26	21	99	150	150	20
Visayas	2026	10	26	22	90	150	150	20
Visayas	2026	10	26	23	84	150	150	20
Visayas	2026	10	26	24	78	150	150	20
Visayas	2026	10	27	1	74	150	150	20
Visayas	2026	10	27	2	70	150	150	20
Visayas	2026	10	27	3	67	150	150	20
Visayas	2026	10	27	4	66	150	150	20
Visayas	2026	10	27	5	71	150	150	20
Visayas	2026	10	27	6	76	150	150	20
Visayas	2026	10	27	7	71	150	150	20
Visayas	2026	10	27	8	87	150	150	20
Visayas	2026	10	27	9	104	150	150	20
Visayas	2026	10	27	10	114	150	150	20
Visayas	2026	10	27	11	120	150	150	20
Visayas	2026	10	27	12	118	150	150	20
Visayas	2026	10	27	13	119	150	150	20
Visayas	2026	10	27	14	125	150	150	20
Visayas	2026	10	27	15	124	150	150	20
Visayas	2026	10	27	16	121	150	150	20
Visayas	2026	10	27	17	115	150	150	20
Visayas	2026	10	27	18	124	150	150	20
Visayas	2026	10	27	19	117	150	150	20
Visayas	2026	10	27	20	113	150	150	20
Visayas	2026	10	27	21	107	150	150	20
Visayas	2026	10	27	22	98	150	150	20
Visayas	2026	10	27	23	90	150	150	20
Visayas	2026	10	27	24	83	150	150	20
Visayas	2026	10	28	1	79	150	150	20
Visayas	2026	10	28	2	74	150	150	20
Visayas	2026	10	28	3	71	150	150	20
Visayas	2026	10	28	4	69	150	150	20
Visayas	2026	10	28	5	73	150	150	20
Visayas	2026	10	28	6	77	150	150	20
Visayas	2026	10	28	7	73	150	150	20
Visayas	2026	10	28	8	90	150	150	20
Visayas	2026	10	28	9	109	150	150	20
Visayas	2026	10	28	10	118	150	150	20
Visayas	2026	10	28	11	123	150	150	20
Visayas	2026	10	28	12	120	150	150	20
Visayas	2026	10	28	13	123	150	150	20
Visayas	2026	10	28	14	128	150	150	20
Visayas	2026	10	28	15	127	150	150	20
Visayas	2026	10	28	16	124	150	150	20
Visayas	2026	10	28	17	117	150	150	20
Visayas	2026	10	28	18	125	150	150	20
Visayas	2026	10	28	19	114	150	150	20
Visayas	2026	10	28	20	105	150	150	20
Visayas	2026	10	28	21	100	150	150	20
Visayas	2026	10	28	22	94	150	150	20
Visayas	2026	10	28	23	88	150	150	20
Visayas	2026	10	28	24	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	10	29	1	77	150	150	20
Visayas	2026	10	29	2	73	150	150	20
Visayas	2026	10	29	3	69	150	150	20
Visayas	2026	10	29	4	69	150	150	20
Visayas	2026	10	29	5	72	150	150	20
Visayas	2026	10	29	6	76	150	150	20
Visayas	2026	10	29	7	71	150	150	20
Visayas	2026	10	29	8	87	150	150	20
Visayas	2026	10	29	9	108	150	150	20
Visayas	2026	10	29	10	118	150	150	20
Visayas	2026	10	29	11	123	150	150	20
Visayas	2026	10	29	12	120	150	150	20
Visayas	2026	10	29	13	122	150	150	20
Visayas	2026	10	29	14	127	150	150	20
Visayas	2026	10	29	15	127	150	150	20
Visayas	2026	10	29	16	122	150	150	20
Visayas	2026	10	29	17	116	150	150	20
Visayas	2026	10	29	18	124	150	150	20
Visayas	2026	10	29	19	117	150	150	20
Visayas	2026	10	29	20	112	150	150	20
Visayas	2026	10	29	21	107	150	150	20
Visayas	2026	10	29	22	97	150	150	20
Visayas	2026	10	29	23	91	150	150	20
Visayas	2026	10	29	24	84	150	150	20
Visayas	2026	10	30	1	80	150	150	20
Visayas	2026	10	30	2	75	150	150	20
Visayas	2026	10	30	3	71	150	150	20
Visayas	2026	10	30	4	70	150	150	20
Visayas	2026	10	30	5	73	150	150	20
Visayas	2026	10	30	6	77	150	150	20
Visayas	2026	10	30	7	73	150	150	20
Visayas	2026	10	30	8	87	150	150	20
Visayas	2026	10	30	9	106	150	150	20
Visayas	2026	10	30	10	116	150	150	20
Visayas	2026	10	30	11	122	150	150	20
Visayas	2026	10	30	12	120	150	150	20
Visayas	2026	10	30	13	120	150	150	20
Visayas	2026	10	30	14	129	150	150	20
Visayas	2026	10	30	15	127	150	150	20
Visayas	2026	10	30	16	123	150	150	20
Visayas	2026	10	30	17	114	150	150	20
Visayas	2026	10	30	18	123	150	150	20
Visayas	2026	10	30	19	115	150	150	20
Visayas	2026	10	30	20	111	150	150	20
Visayas	2026	10	30	21	106	150	150	20
Visayas	2026	10	30	22	98	150	150	20
Visayas	2026	10	30	23	91	150	150	20
Visayas	2026	10	30	24	84	150	150	20
Visayas	2026	10	31	1	79	150	150	20
Visayas	2026	10	31	2	75	150	150	20
Visayas	2026	10	31	3	72	150	150	20
Visayas	2026	10	31	4	70	150	150	20
Visayas	2026	10	31	5	71	150	150	20
Visayas	2026	10	31	6	70	150	150	20
Visayas	2026	10	31	7	72	150	150	20
Visayas	2026	10	31	8	82	150	150	20
Visayas	2026	10	31	9	98	150	150	20
Visayas	2026	10	31	10	106	150	150	20
Visayas	2026	10	31	11	111	150	150	20
Visayas	2026	10	31	12	109	150	150	20
Visayas	2026	10	31	13	111	150	150	20
Visayas	2026	10	31	14	116	150	150	20
Visayas	2026	10	31	15	114	150	150	20
Visayas	2026	10	31	16	110	150	150	20
Visayas	2026	10	31	17	106	150	150	20
Visayas	2026	10	31	18	114	150	150	20
Visayas	2026	10	31	19	109	150	150	20
Visayas	2026	10	31	20	106	150	150	20
Visayas	2026	10	31	21	101	150	150	20
Visayas	2026	10	31	22	95	150	150	20
Visayas	2026	10	31	23	89	150	150	20
Visayas	2026	10	31	24	83	150	150	20
Visayas	2026	11	1	1	67	150	150	20
Visayas	2026	11	1	2	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	1	3	62	150	150	20
Visayas	2026	11	1	4	60	150	150	20
Visayas	2026	11	1	5	60	150	150	20
Visayas	2026	11	1	6	60	150	150	20
Visayas	2026	11	1	7	61	150	150	20
Visayas	2026	11	1	8	64	150	150	20
Visayas	2026	11	1	9	70	150	150	20
Visayas	2026	11	1	10	76	150	150	20
Visayas	2026	11	1	11	80	150	150	20
Visayas	2026	11	1	12	82	150	150	20
Visayas	2026	11	1	13	85	150	150	20
Visayas	2026	11	1	14	87	150	150	20
Visayas	2026	11	1	15	87	150	150	20
Visayas	2026	11	1	16	83	150	150	20
Visayas	2026	11	1	17	82	150	150	20
Visayas	2026	11	1	18	94	150	150	20
Visayas	2026	11	1	19	91	150	150	20
Visayas	2026	11	1	20	91	150	150	20
Visayas	2026	11	1	21	87	150	150	20
Visayas	2026	11	1	22	84	150	150	20
Visayas	2026	11	1	23	79	150	150	20
Visayas	2026	11	1	24	74	150	150	20
Visayas	2026	11	2	1	73	150	150	20
Visayas	2026	11	2	2	68	150	150	20
Visayas	2026	11	2	3	66	150	150	20
Visayas	2026	11	2	4	65	150	150	20
Visayas	2026	11	2	5	65	150	150	20
Visayas	2026	11	2	6	65	150	150	20
Visayas	2026	11	2	7	62	150	150	20
Visayas	2026	11	2	8	63	150	150	20
Visayas	2026	11	2	9	68	150	150	20
Visayas	2026	11	2	10	73	150	150	20
Visayas	2026	11	2	11	79	150	150	20
Visayas	2026	11	2	12	80	150	150	20
Visayas	2026	11	2	13	81	150	150	20
Visayas	2026	11	2	14	81	150	150	20
Visayas	2026	11	2	15	82	150	150	20
Visayas	2026	11	2	16	81	150	150	20
Visayas	2026	11	2	17	81	150	150	20
Visayas	2026	11	2	18	95	150	150	20
Visayas	2026	11	2	19	90	150	150	20
Visayas	2026	11	2	20	88	150	150	20
Visayas	2026	11	2	21	83	150	150	20
Visayas	2026	11	2	22	78	150	150	20
Visayas	2026	11	2	23	74	150	150	20
Visayas	2026	11	2	24	70	150	150	20
Visayas	2026	11	3	1	66	150	150	20
Visayas	2026	11	3	2	63	150	150	20
Visayas	2026	11	3	3	61	150	150	20
Visayas	2026	11	3	4	60	150	150	20
Visayas	2026	11	3	5	60	150	150	20
Visayas	2026	11	3	6	61	150	150	20
Visayas	2026	11	3	7	62	150	150	20
Visayas	2026	11	3	8	74	150	150	20
Visayas	2026	11	3	9	85	150	150	20
Visayas	2026	11	3	10	92	150	150	20
Visayas	2026	11	3	11	98	150	150	20
Visayas	2026	11	3	12	98	150	150	20
Visayas	2026	11	3	13	100	150	150	20
Visayas	2026	11	3	14	102	150	150	20
Visayas	2026	11	3	15	101	150	150	20
Visayas	2026	11	3	16	97	150	150	20
Visayas	2026	11	3	17	94	150	150	20
Visayas	2026	11	3	18	106	150	150	20
Visayas	2026	11	3	19	99	150	150	20
Visayas	2026	11	3	20	95	150	150	20
Visayas	2026	11	3	21	91	150	150	20
Visayas	2026	11	3	22	85	150	150	20
Visayas	2026	11	3	23	78	150	150	20
Visayas	2026	11	3	24	73	150	150	20
Visayas	2026	11	4	1	78	150	150	20
Visayas	2026	11	4	2	75	150	150	20
Visayas	2026	11	4	3	72	150	150	20
Visayas	2026	11	4	4	69	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	4	5	75	150	150	20
Visayas	2026	11	4	6	77	150	150	20
Visayas	2026	11	4	7	73	150	150	20
Visayas	2026	11	4	8	84	150	150	20
Visayas	2026	11	4	9	100	150	150	20
Visayas	2026	11	4	10	107	150	150	20
Visayas	2026	11	4	11	110	150	150	20
Visayas	2026	11	4	12	106	150	150	20
Visayas	2026	11	4	13	107	150	150	20
Visayas	2026	11	4	14	115	150	150	20
Visayas	2026	11	4	15	113	150	150	20
Visayas	2026	11	4	16	113	150	150	20
Visayas	2026	11	4	17	110	150	150	20
Visayas	2026	11	4	18	120	150	150	20
Visayas	2026	11	4	19	112	150	150	20
Visayas	2026	11	4	20	107	150	150	20
Visayas	2026	11	4	21	101	150	150	20
Visayas	2026	11	4	22	93	150	150	20
Visayas	2026	11	4	23	85	150	150	20
Visayas	2026	11	4	24	80	150	150	20
Visayas	2026	11	5	1	69	150	150	20
Visayas	2026	11	5	2	66	150	150	20
Visayas	2026	11	5	3	63	150	150	20
Visayas	2026	11	5	4	61	150	150	20
Visayas	2026	11	5	5	61	150	150	20
Visayas	2026	11	5	6	61	150	150	20
Visayas	2026	11	5	7	62	150	150	20
Visayas	2026	11	5	8	68	150	150	20
Visayas	2026	11	5	9	77	150	150	20
Visayas	2026	11	5	10	86	150	150	20
Visayas	2026	11	5	11	91	150	150	20
Visayas	2026	11	5	12	90	150	150	20
Visayas	2026	11	5	13	94	150	150	20
Visayas	2026	11	5	14	97	150	150	20
Visayas	2026	11	5	15	97	150	150	20
Visayas	2026	11	5	16	94	150	150	20
Visayas	2026	11	5	17	92	150	150	20
Visayas	2026	11	5	18	106	150	150	20
Visayas	2026	11	5	19	101	150	150	20
Visayas	2026	11	5	20	100	150	150	20
Visayas	2026	11	5	21	95	150	150	20
Visayas	2026	11	5	22	90	150	150	20
Visayas	2026	11	5	23	83	150	150	20
Visayas	2026	11	5	24	78	150	150	20
Visayas	2026	11	6	1	72	150	150	20
Visayas	2026	11	6	2	69	150	150	20
Visayas	2026	11	6	3	66	150	150	20
Visayas	2026	11	6	4	65	150	150	20
Visayas	2026	11	6	5	65	150	150	20
Visayas	2026	11	6	6	66	150	150	20
Visayas	2026	11	6	7	69	150	150	20
Visayas	2026	11	6	8	85	150	150	20
Visayas	2026	11	6	9	102	150	150	20
Visayas	2026	11	6	10	114	150	150	20
Visayas	2026	11	6	11	119	150	150	20
Visayas	2026	11	6	12	118	150	150	20
Visayas	2026	11	6	13	120	150	150	20
Visayas	2026	11	6	14	125	150	150	20
Visayas	2026	11	6	15	124	150	150	20
Visayas	2026	11	6	16	120	150	150	20
Visayas	2026	11	6	17	112	150	150	20
Visayas	2026	11	6	18	122	150	150	20
Visayas	2026	11	6	19	115	150	150	20
Visayas	2026	11	6	20	111	150	150	20
Visayas	2026	11	6	21	106	150	150	20
Visayas	2026	11	6	22	98	150	150	20
Visayas	2026	11	6	23	90	150	150	20
Visayas	2026	11	6	24	84	150	150	20
Visayas	2026	11	7	1	79	150	150	20
Visayas	2026	11	7	2	71	150	150	20
Visayas	2026	11	7	3	68	150	150	20
Visayas	2026	11	7	4	70	150	150	20
Visayas	2026	11	7	5	70	150	150	20
Visayas	2026	11	7	6	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	7	7	71	150	150	20
Visayas	2026	11	7	8	81	150	150	20
Visayas	2026	11	7	9	95	150	150	20
Visayas	2026	11	7	10	102	150	150	20
Visayas	2026	11	7	11	107	150	150	20
Visayas	2026	11	7	12	104	150	150	20
Visayas	2026	11	7	13	106	150	150	20
Visayas	2026	11	7	14	109	150	150	20
Visayas	2026	11	7	15	108	150	150	20
Visayas	2026	11	7	16	105	150	150	20
Visayas	2026	11	7	17	101	150	150	20
Visayas	2026	11	7	18	113	150	150	20
Visayas	2026	11	7	19	107	150	150	20
Visayas	2026	11	7	20	104	150	150	20
Visayas	2026	11	7	21	98	150	150	20
Visayas	2026	11	7	22	91	150	150	20
Visayas	2026	11	7	23	85	150	150	20
Visayas	2026	11	7	24	79	150	150	20
Visayas	2026	11	8	1	75	150	150	20
Visayas	2026	11	8	2	72	150	150	20
Visayas	2026	11	8	3	68	150	150	20
Visayas	2026	11	8	4	66	150	150	20
Visayas	2026	11	8	5	66	150	150	20
Visayas	2026	11	8	6	64	150	150	20
Visayas	2026	11	8	7	64	150	150	20
Visayas	2026	11	8	8	69	150	150	20
Visayas	2026	11	8	9	78	150	150	20
Visayas	2026	11	8	10	82	150	150	20
Visayas	2026	11	8	11	88	150	150	20
Visayas	2026	11	8	12	88	150	150	20
Visayas	2026	11	8	13	90	150	150	20
Visayas	2026	11	8	14	93	150	150	20
Visayas	2026	11	8	15	94	150	150	20
Visayas	2026	11	8	16	92	150	150	20
Visayas	2026	11	8	17	92	150	150	20
Visayas	2026	11	8	18	108	150	150	20
Visayas	2026	11	8	19	101	150	150	20
Visayas	2026	11	8	20	101	150	150	20
Visayas	2026	11	8	21	97	150	150	20
Visayas	2026	11	8	22	92	150	150	20
Visayas	2026	11	8	23	85	150	150	20
Visayas	2026	11	8	24	78	150	150	20
Visayas	2026	11	9	1	74	150	150	20
Visayas	2026	11	9	2	71	150	150	20
Visayas	2026	11	9	3	68	150	150	20
Visayas	2026	11	9	4	67	150	150	20
Visayas	2026	11	9	5	71	150	150	20
Visayas	2026	11	9	6	76	150	150	20
Visayas	2026	11	9	7	72	150	150	20
Visayas	2026	11	9	8	90	150	150	20
Visayas	2026	11	9	9	109	150	150	20
Visayas	2026	11	9	10	119	150	150	20
Visayas	2026	11	9	11	123	150	150	20
Visayas	2026	11	9	12	119	150	150	20
Visayas	2026	11	9	13	122	150	150	20
Visayas	2026	11	9	14	127	150	150	20
Visayas	2026	11	9	15	126	150	150	20
Visayas	2026	11	9	16	125	150	150	20
Visayas	2026	11	9	17	117	150	150	20
Visayas	2026	11	9	18	126	150	150	20
Visayas	2026	11	9	19	119	150	150	20
Visayas	2026	11	9	20	115	150	150	20
Visayas	2026	11	9	21	108	150	150	20
Visayas	2026	11	9	22	102	150	150	20
Visayas	2026	11	9	23	93	150	150	20
Visayas	2026	11	9	24	87	150	150	20
Visayas	2026	11	10	1	80	150	150	20
Visayas	2026	11	10	2	77	150	150	20
Visayas	2026	11	10	3	73	150	150	20
Visayas	2026	11	10	4	72	150	150	20
Visayas	2026	11	10	5	76	150	150	20
Visayas	2026	11	10	6	80	150	150	20
Visayas	2026	11	10	7	75	150	150	20
Visayas	2026	11	10	8	89	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	10	9	108	150	150	20
Visayas	2026	11	10	10	115	150	150	20
Visayas	2026	11	10	11	119	150	150	20
Visayas	2026	11	10	12	113	150	150	20
Visayas	2026	11	10	13	114	150	150	20
Visayas	2026	11	10	14	120	150	150	20
Visayas	2026	11	10	15	120	150	150	20
Visayas	2026	11	10	16	116	150	150	20
Visayas	2026	11	10	17	113	150	150	20
Visayas	2026	11	10	18	122	150	150	20
Visayas	2026	11	10	19	113	150	150	20
Visayas	2026	11	10	20	110	150	150	20
Visayas	2026	11	10	21	104	150	150	20
Visayas	2026	11	10	22	96	150	150	20
Visayas	2026	11	10	23	88	150	150	20
Visayas	2026	11	10	24	82	150	150	20
Visayas	2026	11	11	1	78	150	150	20
Visayas	2026	11	11	2	75	150	150	20
Visayas	2026	11	11	3	72	150	150	20
Visayas	2026	11	11	4	69	150	150	20
Visayas	2026	11	11	5	75	150	150	20
Visayas	2026	11	11	6	77	150	150	20
Visayas	2026	11	11	7	73	150	150	20
Visayas	2026	11	11	8	84	150	150	20
Visayas	2026	11	11	9	100	150	150	20
Visayas	2026	11	11	10	107	150	150	20
Visayas	2026	11	11	11	110	150	150	20
Visayas	2026	11	11	12	106	150	150	20
Visayas	2026	11	11	13	107	150	150	20
Visayas	2026	11	11	14	115	150	150	20
Visayas	2026	11	11	15	113	150	150	20
Visayas	2026	11	11	16	113	150	150	20
Visayas	2026	11	11	17	110	150	150	20
Visayas	2026	11	11	18	120	150	150	20
Visayas	2026	11	11	19	112	150	150	20
Visayas	2026	11	11	20	107	150	150	20
Visayas	2026	11	11	21	101	150	150	20
Visayas	2026	11	11	22	93	150	150	20
Visayas	2026	11	11	23	85	150	150	20
Visayas	2026	11	11	24	80	150	150	20
Visayas	2026	11	12	1	74	150	150	20
Visayas	2026	11	12	2	71	150	150	20
Visayas	2026	11	12	3	69	150	150	20
Visayas	2026	11	12	4	68	150	150	20
Visayas	2026	11	12	5	73	150	150	20
Visayas	2026	11	12	6	77	150	150	20
Visayas	2026	11	12	7	73	150	150	20
Visayas	2026	11	12	8	89	150	150	20
Visayas	2026	11	12	9	108	150	150	20
Visayas	2026	11	12	10	115	150	150	20
Visayas	2026	11	12	11	121	150	150	20
Visayas	2026	11	12	12	117	150	150	20
Visayas	2026	11	12	13	119	150	150	20
Visayas	2026	11	12	14	125	150	150	20
Visayas	2026	11	12	15	124	150	150	20
Visayas	2026	11	12	16	123	150	150	20
Visayas	2026	11	12	17	116	150	150	20
Visayas	2026	11	12	18	125	150	150	20
Visayas	2026	11	12	19	118	150	150	20
Visayas	2026	11	12	20	115	150	150	20
Visayas	2026	11	12	21	107	150	150	20
Visayas	2026	11	12	22	100	150	150	20
Visayas	2026	11	12	23	91	150	150	20
Visayas	2026	11	12	24	85	150	150	20
Visayas	2026	11	13	1	80	150	150	20
Visayas	2026	11	13	2	74	150	150	20
Visayas	2026	11	13	3	71	150	150	20
Visayas	2026	11	13	4	71	150	150	20
Visayas	2026	11	13	5	73	150	150	20
Visayas	2026	11	13	6	77	150	150	20
Visayas	2026	11	13	7	73	150	150	20
Visayas	2026	11	13	8	89	150	150	20
Visayas	2026	11	13	9	108	150	150	20
Visayas	2026	11	13	10	118	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	13	11	121	150	150	20
Visayas	2026	11	13	12	118	150	150	20
Visayas	2026	11	13	13	121	150	150	20
Visayas	2026	11	13	14	127	150	150	20
Visayas	2026	11	13	15	127	150	150	20
Visayas	2026	11	13	16	125	150	150	20
Visayas	2026	11	13	17	116	150	150	20
Visayas	2026	11	13	18	124	150	150	20
Visayas	2026	11	13	19	117	150	150	20
Visayas	2026	11	13	20	113	150	150	20
Visayas	2026	11	13	21	107	150	150	20
Visayas	2026	11	13	22	99	150	150	20
Visayas	2026	11	13	23	91	150	150	20
Visayas	2026	11	13	24	85	150	150	20
Visayas	2026	11	14	1	81	150	150	20
Visayas	2026	11	14	2	77	150	150	20
Visayas	2026	11	14	3	73	150	150	20
Visayas	2026	11	14	4	71	150	150	20
Visayas	2026	11	14	5	73	150	150	20
Visayas	2026	11	14	6	73	150	150	20
Visayas	2026	11	14	7	71	150	150	20
Visayas	2026	11	14	8	81	150	150	20
Visayas	2026	11	14	9	94	150	150	20
Visayas	2026	11	14	10	103	150	150	20
Visayas	2026	11	14	11	107	150	150	20
Visayas	2026	11	14	12	103	150	150	20
Visayas	2026	11	14	13	105	150	150	20
Visayas	2026	11	14	14	112	150	150	20
Visayas	2026	11	14	15	111	150	150	20
Visayas	2026	11	14	16	107	150	150	20
Visayas	2026	11	14	17	104	150	150	20
Visayas	2026	11	14	18	118	150	150	20
Visayas	2026	11	14	19	110	150	150	20
Visayas	2026	11	14	20	107	150	150	20
Visayas	2026	11	14	21	103	150	150	20
Visayas	2026	11	14	22	97	150	150	20
Visayas	2026	11	14	23	90	150	150	20
Visayas	2026	11	14	24	84	150	150	20
Visayas	2026	11	15	1	79	150	150	20
Visayas	2026	11	15	2	75	150	150	20
Visayas	2026	11	15	3	72	150	150	20
Visayas	2026	11	15	4	69	150	150	20
Visayas	2026	11	15	5	69	150	150	20
Visayas	2026	11	15	6	70	150	150	20
Visayas	2026	11	15	7	69	150	150	20
Visayas	2026	11	15	8	74	150	150	20
Visayas	2026	11	15	9	80	150	150	20
Visayas	2026	11	15	10	87	150	150	20
Visayas	2026	11	15	11	91	150	150	20
Visayas	2026	11	15	12	92	150	150	20
Visayas	2026	11	15	13	94	150	150	20
Visayas	2026	11	15	14	97	150	150	20
Visayas	2026	11	15	15	97	150	150	20
Visayas	2026	11	15	16	94	150	150	20
Visayas	2026	11	15	17	95	150	150	20
Visayas	2026	11	15	18	111	150	150	20
Visayas	2026	11	15	19	105	150	150	20
Visayas	2026	11	15	20	103	150	150	20
Visayas	2026	11	15	21	100	150	150	20
Visayas	2026	11	15	22	96	150	150	20
Visayas	2026	11	15	23	88	150	150	20
Visayas	2026	11	15	24	82	150	150	20
Visayas	2026	11	16	1	77	150	150	20
Visayas	2026	11	16	2	73	150	150	20
Visayas	2026	11	16	3	69	150	150	20
Visayas	2026	11	16	4	68	150	150	20
Visayas	2026	11	16	5	72	150	150	20
Visayas	2026	11	16	6	76	150	150	20
Visayas	2026	11	16	7	71	150	150	20
Visayas	2026	11	16	8	88	150	150	20
Visayas	2026	11	16	9	109	150	150	20
Visayas	2026	11	16	10	117	150	150	20
Visayas	2026	11	16	11	123	150	150	20
Visayas	2026	11	16	12	122	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	16	13	123	150	150	20
Visayas	2026	11	16	14	129	150	150	20
Visayas	2026	11	16	15	128	150	150	20
Visayas	2026	11	16	16	125	150	150	20
Visayas	2026	11	16	17	119	150	150	20
Visayas	2026	11	16	18	126	150	150	20
Visayas	2026	11	16	19	121	150	150	20
Visayas	2026	11	16	20	117	150	150	20
Visayas	2026	11	16	21	110	150	150	20
Visayas	2026	11	16	22	102	150	150	20
Visayas	2026	11	16	23	91	150	150	20
Visayas	2026	11	16	24	86	150	150	20
Visayas	2026	11	17	1	81	150	150	20
Visayas	2026	11	17	2	78	150	150	20
Visayas	2026	11	17	3	75	150	150	20
Visayas	2026	11	17	4	73	150	150	20
Visayas	2026	11	17	5	76	150	150	20
Visayas	2026	11	17	6	80	150	150	20
Visayas	2026	11	17	7	76	150	150	20
Visayas	2026	11	17	8	90	150	150	20
Visayas	2026	11	17	9	108	150	150	20
Visayas	2026	11	17	10	117	150	150	20
Visayas	2026	11	17	11	120	150	150	20
Visayas	2026	11	17	12	117	150	150	20
Visayas	2026	11	17	13	119	150	150	20
Visayas	2026	11	17	14	127	150	150	20
Visayas	2026	11	17	15	125	150	150	20
Visayas	2026	11	17	16	122	150	150	20
Visayas	2026	11	17	17	116	150	150	20
Visayas	2026	11	17	18	124	150	150	20
Visayas	2026	11	17	19	117	150	150	20
Visayas	2026	11	17	20	112	150	150	20
Visayas	2026	11	17	21	106	150	150	20
Visayas	2026	11	17	22	98	150	150	20
Visayas	2026	11	17	23	91	150	150	20
Visayas	2026	11	17	24	84	150	150	20
Visayas	2026	11	18	1	79	150	150	20
Visayas	2026	11	18	2	76	150	150	20
Visayas	2026	11	18	3	74	150	150	20
Visayas	2026	11	18	4	72	150	150	20
Visayas	2026	11	18	5	76	150	150	20
Visayas	2026	11	18	6	80	150	150	20
Visayas	2026	11	18	7	75	150	150	20
Visayas	2026	11	18	8	90	150	150	20
Visayas	2026	11	18	9	110	150	150	20
Visayas	2026	11	18	10	118	150	150	20
Visayas	2026	11	18	11	120	150	150	20
Visayas	2026	11	18	12	118	150	150	20
Visayas	2026	11	18	13	119	150	150	20
Visayas	2026	11	18	14	126	150	150	20
Visayas	2026	11	18	15	124	150	150	20
Visayas	2026	11	18	16	122	150	150	20
Visayas	2026	11	18	17	116	150	150	20
Visayas	2026	11	18	18	125	150	150	20
Visayas	2026	11	18	19	118	150	150	20
Visayas	2026	11	18	20	113	150	150	20
Visayas	2026	11	18	21	108	150	150	20
Visayas	2026	11	18	22	100	150	150	20
Visayas	2026	11	18	23	90	150	150	20
Visayas	2026	11	18	24	86	150	150	20
Visayas	2026	11	19	1	81	150	150	20
Visayas	2026	11	19	2	77	150	150	20
Visayas	2026	11	19	3	73	150	150	20
Visayas	2026	11	19	4	72	150	150	20
Visayas	2026	11	19	5	75	150	150	20
Visayas	2026	11	19	6	79	150	150	20
Visayas	2026	11	19	7	75	150	150	20
Visayas	2026	11	19	8	89	150	150	20
Visayas	2026	11	19	9	106	150	150	20
Visayas	2026	11	19	10	112	150	150	20
Visayas	2026	11	19	11	115	150	150	20
Visayas	2026	11	19	12	109	150	150	20
Visayas	2026	11	19	13	108	150	150	20
Visayas	2026	11	19	14	112	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	19	15	111	150	150	20
Visayas	2026	11	19	16	108	150	150	20
Visayas	2026	11	19	17	106	150	150	20
Visayas	2026	11	19	18	113	150	150	20
Visayas	2026	11	19	19	105	150	150	20
Visayas	2026	11	19	20	100	150	150	20
Visayas	2026	11	19	21	94	150	150	20
Visayas	2026	11	19	22	87	150	150	20
Visayas	2026	11	19	23	80	150	150	20
Visayas	2026	11	19	24	75	150	150	20
Visayas	2026	11	20	1	71	150	150	20
Visayas	2026	11	20	2	67	150	150	20
Visayas	2026	11	20	3	65	150	150	20
Visayas	2026	11	20	4	65	150	150	20
Visayas	2026	11	20	5	68	150	150	20
Visayas	2026	11	20	6	74	150	150	20
Visayas	2026	11	20	7	71	150	150	20
Visayas	2026	11	20	8	85	150	150	20
Visayas	2026	11	20	9	102	150	150	20
Visayas	2026	11	20	10	112	150	150	20
Visayas	2026	11	20	11	115	150	150	20
Visayas	2026	11	20	12	112	150	150	20
Visayas	2026	11	20	13	111	150	150	20
Visayas	2026	11	20	14	121	150	150	20
Visayas	2026	11	20	15	119	150	150	20
Visayas	2026	11	20	16	118	150	150	20
Visayas	2026	11	20	17	112	150	150	20
Visayas	2026	11	20	18	120	150	150	20
Visayas	2026	11	20	19	110	150	150	20
Visayas	2026	11	20	20	105	150	150	20
Visayas	2026	11	20	21	100	150	150	20
Visayas	2026	11	20	22	93	150	150	20
Visayas	2026	11	20	23	86	150	150	20
Visayas	2026	11	20	24	81	150	150	20
Visayas	2026	11	21	1	77	150	150	20
Visayas	2026	11	21	2	73	150	150	20
Visayas	2026	11	21	3	70	150	150	20
Visayas	2026	11	21	4	69	150	150	20
Visayas	2026	11	21	5	69	150	150	20
Visayas	2026	11	21	6	72	150	150	20
Visayas	2026	11	21	7	70	150	150	20
Visayas	2026	11	21	8	77	150	150	20
Visayas	2026	11	21	9	88	150	150	20
Visayas	2026	11	21	10	92	150	150	20
Visayas	2026	11	21	11	93	150	150	20
Visayas	2026	11	21	12	88	150	150	20
Visayas	2026	11	21	13	86	150	150	20
Visayas	2026	11	21	14	91	150	150	20
Visayas	2026	11	21	15	88	150	150	20
Visayas	2026	11	21	16	88	150	150	20
Visayas	2026	11	21	17	92	150	150	20
Visayas	2026	11	21	18	100	150	150	20
Visayas	2026	11	21	19	96	150	150	20
Visayas	2026	11	21	20	89	150	150	20
Visayas	2026	11	21	21	85	150	150	20
Visayas	2026	11	21	22	79	150	150	20
Visayas	2026	11	21	23	73	150	150	20
Visayas	2026	11	21	24	68	150	150	20
Visayas	2026	11	22	1	65	150	150	20
Visayas	2026	11	22	2	62	150	150	20
Visayas	2026	11	22	3	60	150	150	20
Visayas	2026	11	22	4	60	150	150	20
Visayas	2026	11	22	5	60	150	150	20
Visayas	2026	11	22	6	61	150	150	20
Visayas	2026	11	22	7	59	150	150	20
Visayas	2026	11	22	8	62	150	150	20
Visayas	2026	11	22	9	68	150	150	20
Visayas	2026	11	22	10	73	150	150	20
Visayas	2026	11	22	11	76	150	150	20
Visayas	2026	11	22	12	76	150	150	20
Visayas	2026	11	22	13	77	150	150	20
Visayas	2026	11	22	14	78	150	150	20
Visayas	2026	11	22	15	76	150	150	20
Visayas	2026	11	22	16	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	22	17	82	150	150	20
Visayas	2026	11	22	18	97	150	150	20
Visayas	2026	11	22	19	93	150	150	20
Visayas	2026	11	22	20	89	150	150	20
Visayas	2026	11	22	21	84	150	150	20
Visayas	2026	11	22	22	77	150	150	20
Visayas	2026	11	22	23	71	150	150	20
Visayas	2026	11	22	24	65	150	150	20
Visayas	2026	11	23	1	62	150	150	20
Visayas	2026	11	23	2	60	150	150	20
Visayas	2026	11	23	3	58	150	150	20
Visayas	2026	11	23	4	58	150	150	20
Visayas	2026	11	23	5	60	150	150	20
Visayas	2026	11	23	6	66	150	150	20
Visayas	2026	11	23	7	64	150	150	20
Visayas	2026	11	23	8	74	150	150	20
Visayas	2026	11	23	9	90	150	150	20
Visayas	2026	11	23	10	98	150	150	20
Visayas	2026	11	23	11	101	150	150	20
Visayas	2026	11	23	12	100	150	150	20
Visayas	2026	11	23	13	100	150	150	20
Visayas	2026	11	23	14	106	150	150	20
Visayas	2026	11	23	15	106	150	150	20
Visayas	2026	11	23	16	104	150	150	20
Visayas	2026	11	23	17	102	150	150	20
Visayas	2026	11	23	18	111	150	150	20
Visayas	2026	11	23	19	101	150	150	20
Visayas	2026	11	23	20	96	150	150	20
Visayas	2026	11	23	21	90	150	150	20
Visayas	2026	11	23	22	84	150	150	20
Visayas	2026	11	23	23	78	150	150	20
Visayas	2026	11	23	24	72	150	150	20
Visayas	2026	11	24	1	68	150	150	20
Visayas	2026	11	24	2	65	150	150	20
Visayas	2026	11	24	3	63	150	150	20
Visayas	2026	11	24	4	63	150	150	20
Visayas	2026	11	24	5	64	150	150	20
Visayas	2026	11	24	6	71	150	150	20
Visayas	2026	11	24	7	67	150	150	20
Visayas	2026	11	24	8	79	150	150	20
Visayas	2026	11	24	9	95	150	150	20
Visayas	2026	11	24	10	104	150	150	20
Visayas	2026	11	24	11	106	150	150	20
Visayas	2026	11	24	12	102	150	150	20
Visayas	2026	11	24	13	101	150	150	20
Visayas	2026	11	24	14	105	150	150	20
Visayas	2026	11	24	15	105	150	150	20
Visayas	2026	11	24	16	102	150	150	20
Visayas	2026	11	24	17	102	150	150	20
Visayas	2026	11	24	18	112	150	150	20
Visayas	2026	11	24	19	102	150	150	20
Visayas	2026	11	24	20	97	150	150	20
Visayas	2026	11	24	21	91	150	150	20
Visayas	2026	11	24	22	83	150	150	20
Visayas	2026	11	24	23	76	150	150	20
Visayas	2026	11	24	24	70	150	150	20
Visayas	2026	11	25	1	67	150	150	20
Visayas	2026	11	25	2	65	150	150	20
Visayas	2026	11	25	3	62	150	150	20
Visayas	2026	11	25	4	62	150	150	20
Visayas	2026	11	25	5	66	150	150	20
Visayas	2026	11	25	6	72	150	150	20
Visayas	2026	11	25	7	69	150	150	20
Visayas	2026	11	25	8	82	150	150	20
Visayas	2026	11	25	9	98	150	150	20
Visayas	2026	11	25	10	106	150	150	20
Visayas	2026	11	25	11	111	150	150	20
Visayas	2026	11	25	12	107	150	150	20
Visayas	2026	11	25	13	110	150	150	20
Visayas	2026	11	25	14	115	150	150	20
Visayas	2026	11	25	15	114	150	150	20
Visayas	2026	11	25	16	111	150	150	20
Visayas	2026	11	25	17	107	150	150	20
Visayas	2026	11	25	18	116	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	25	19	107	150	150	20
Visayas	2026	11	25	20	102	150	150	20
Visayas	2026	11	25	21	96	150	150	20
Visayas	2026	11	25	22	87	150	150	20
Visayas	2026	11	25	23	81	150	150	20
Visayas	2026	11	25	24	76	150	150	20
Visayas	2026	11	26	1	72	150	150	20
Visayas	2026	11	26	2	67	150	150	20
Visayas	2026	11	26	3	65	150	150	20
Visayas	2026	11	26	4	64	150	150	20
Visayas	2026	11	26	5	68	150	150	20
Visayas	2026	11	26	6	74	150	150	20
Visayas	2026	11	26	7	70	150	150	20
Visayas	2026	11	26	8	85	150	150	20
Visayas	2026	11	26	9	103	150	150	20
Visayas	2026	11	26	10	112	150	150	20
Visayas	2026	11	26	11	117	150	150	20
Visayas	2026	11	26	12	115	150	150	20
Visayas	2026	11	26	13	117	150	150	20
Visayas	2026	11	26	14	125	150	150	20
Visayas	2026	11	26	15	126	150	150	20
Visayas	2026	11	26	16	122	150	150	20
Visayas	2026	11	26	17	116	150	150	20
Visayas	2026	11	26	18	125	150	150	20
Visayas	2026	11	26	19	117	150	150	20
Visayas	2026	11	26	20	113	150	150	20
Visayas	2026	11	26	21	106	150	150	20
Visayas	2026	11	26	22	97	150	150	20
Visayas	2026	11	26	23	89	150	150	20
Visayas	2026	11	26	24	83	150	150	20
Visayas	2026	11	27	1	78	150	150	20
Visayas	2026	11	27	2	74	150	150	20
Visayas	2026	11	27	3	70	150	150	20
Visayas	2026	11	27	4	69	150	150	20
Visayas	2026	11	27	5	73	150	150	20
Visayas	2026	11	27	6	77	150	150	20
Visayas	2026	11	27	7	73	150	150	20
Visayas	2026	11	27	8	87	150	150	20
Visayas	2026	11	27	9	105	150	150	20
Visayas	2026	11	27	10	112	150	150	20
Visayas	2026	11	27	11	116	150	150	20
Visayas	2026	11	27	12	113	150	150	20
Visayas	2026	11	27	13	111	150	150	20
Visayas	2026	11	27	14	116	150	150	20
Visayas	2026	11	27	15	115	150	150	20
Visayas	2026	11	27	16	110	150	150	20
Visayas	2026	11	27	17	106	150	150	20
Visayas	2026	11	27	18	116	150	150	20
Visayas	2026	11	27	19	108	150	150	20
Visayas	2026	11	27	20	103	150	150	20
Visayas	2026	11	27	21	99	150	150	20
Visayas	2026	11	27	22	91	150	150	20
Visayas	2026	11	27	23	84	150	150	20
Visayas	2026	11	27	24	78	150	150	20
Visayas	2026	11	28	1	73	150	150	20
Visayas	2026	11	28	2	69	150	150	20
Visayas	2026	11	28	3	64	150	150	20
Visayas	2026	11	28	4	63	150	150	20
Visayas	2026	11	28	5	63	150	150	20
Visayas	2026	11	28	6	64	150	150	20
Visayas	2026	11	28	7	63	150	150	20
Visayas	2026	11	28	8	73	150	150	20
Visayas	2026	11	28	9	84	150	150	20
Visayas	2026	11	28	10	92	150	150	20
Visayas	2026	11	28	11	97	150	150	20
Visayas	2026	11	28	12	93	150	150	20
Visayas	2026	11	28	13	94	150	150	20
Visayas	2026	11	28	14	100	150	150	20
Visayas	2026	11	28	15	98	150	150	20
Visayas	2026	11	28	16	95	150	150	20
Visayas	2026	11	28	17	95	150	150	20
Visayas	2026	11	28	18	109	150	150	20
Visayas	2026	11	28	19	105	150	150	20
Visayas	2026	11	28	20	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	11	28	21	97	150	150	20
Visayas	2026	11	28	22	90	150	150	20
Visayas	2026	11	28	23	82	150	150	20
Visayas	2026	11	28	24	77	150	150	20
Visayas	2026	11	29	1	73	150	150	20
Visayas	2026	11	29	2	70	150	150	20
Visayas	2026	11	29	3	66	150	150	20
Visayas	2026	11	29	4	64	150	150	20
Visayas	2026	11	29	5	64	150	150	20
Visayas	2026	11	29	6	64	150	150	20
Visayas	2026	11	29	7	62	150	150	20
Visayas	2026	11	29	8	66	150	150	20
Visayas	2026	11	29	9	73	150	150	20
Visayas	2026	11	29	10	79	150	150	20
Visayas	2026	11	29	11	81	150	150	20
Visayas	2026	11	29	12	82	150	150	20
Visayas	2026	11	29	13	83	150	150	20
Visayas	2026	11	29	14	86	150	150	20
Visayas	2026	11	29	15	84	150	150	20
Visayas	2026	11	29	16	85	150	150	20
Visayas	2026	11	29	17	87	150	150	20
Visayas	2026	11	29	18	103	150	150	20
Visayas	2026	11	29	19	98	150	150	20
Visayas	2026	11	29	20	94	150	150	20
Visayas	2026	11	29	21	92	150	150	20
Visayas	2026	11	29	22	85	150	150	20
Visayas	2026	11	29	23	78	150	150	20
Visayas	2026	11	29	24	74	150	150	20
Visayas	2026	11	30	1	70	150	150	20
Visayas	2026	11	30	2	66	150	150	20
Visayas	2026	11	30	3	63	150	150	20
Visayas	2026	11	30	4	62	150	150	20
Visayas	2026	11	30	5	63	150	150	20
Visayas	2026	11	30	6	65	150	150	20
Visayas	2026	11	30	7	65	150	150	20
Visayas	2026	11	30	8	73	150	150	20
Visayas	2026	11	30	9	85	150	150	20
Visayas	2026	11	30	10	86	150	150	20
Visayas	2026	11	30	11	98	150	150	20
Visayas	2026	11	30	12	98	150	150	20
Visayas	2026	11	30	13	99	150	150	20
Visayas	2026	11	30	14	105	150	150	20
Visayas	2026	11	30	15	103	150	150	20
Visayas	2026	11	30	16	100	150	150	20
Visayas	2026	11	30	17	98	150	150	20
Visayas	2026	11	30	18	115	150	150	20
Visayas	2026	11	30	19	109	150	150	20
Visayas	2026	11	30	20	107	150	150	20
Visayas	2026	11	30	21	102	150	150	20
Visayas	2026	11	30	22	94	150	150	20
Visayas	2026	11	30	23	86	150	150	20
Visayas	2026	11	30	24	80	150	150	20
Visayas	2026	12	1	1	75	150	150	20
Visayas	2026	12	1	2	72	150	150	20
Visayas	2026	12	1	3	68	150	150	20
Visayas	2026	12	1	4	66	150	150	20
Visayas	2026	12	1	5	71	150	150	20
Visayas	2026	12	1	6	77	150	150	20
Visayas	2026	12	1	7	71	150	150	20
Visayas	2026	12	1	8	85	150	150	20
Visayas	2026	12	1	9	105	150	150	20
Visayas	2026	12	1	10	114	150	150	20
Visayas	2026	12	1	11	118	150	150	20
Visayas	2026	12	1	12	116	150	150	20
Visayas	2026	12	1	13	118	150	150	20
Visayas	2026	12	1	14	126	150	150	20
Visayas	2026	12	1	15	125	150	150	20
Visayas	2026	12	1	16	122	150	150	20
Visayas	2026	12	1	17	112	150	150	20
Visayas	2026	12	1	18	125	150	150	20
Visayas	2026	12	1	19	119	150	150	20
Visayas	2026	12	1	20	114	150	150	20
Visayas	2026	12	1	21	110	150	150	20
Visayas	2026	12	1	22	102	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	1	23	93	150	150	20
Visayas	2026	12	1	24	85	150	150	20
Visayas	2026	12	2	1	80	150	150	20
Visayas	2026	12	2	2	76	150	150	20
Visayas	2026	12	2	3	68	150	150	20
Visayas	2026	12	2	4	72	150	150	20
Visayas	2026	12	2	5	75	150	150	20
Visayas	2026	12	2	6	79	150	150	20
Visayas	2026	12	2	7	75	150	150	20
Visayas	2026	12	2	8	90	150	150	20
Visayas	2026	12	2	9	108	150	150	20
Visayas	2026	12	2	10	117	150	150	20
Visayas	2026	12	2	11	121	150	150	20
Visayas	2026	12	2	12	118	150	150	20
Visayas	2026	12	2	13	117	150	150	20
Visayas	2026	12	2	14	123	150	150	20
Visayas	2026	12	2	15	121	150	150	20
Visayas	2026	12	2	16	119	150	150	20
Visayas	2026	12	2	17	115	150	150	20
Visayas	2026	12	2	18	123	150	150	20
Visayas	2026	12	2	19	115	150	150	20
Visayas	2026	12	2	20	111	150	150	20
Visayas	2026	12	2	21	107	150	150	20
Visayas	2026	12	2	22	98	150	150	20
Visayas	2026	12	2	23	90	150	150	20
Visayas	2026	12	2	24	82	150	150	20
Visayas	2026	12	3	1	77	150	150	20
Visayas	2026	12	3	2	73	150	150	20
Visayas	2026	12	3	3	71	150	150	20
Visayas	2026	12	3	4	69	150	150	20
Visayas	2026	12	3	5	73	150	150	20
Visayas	2026	12	3	6	77	150	150	20
Visayas	2026	12	3	7	72	150	150	20
Visayas	2026	12	3	8	85	150	150	20
Visayas	2026	12	3	9	106	150	150	20
Visayas	2026	12	3	10	112	150	150	20
Visayas	2026	12	3	11	117	150	150	20
Visayas	2026	12	3	12	114	150	150	20
Visayas	2026	12	3	13	115	150	150	20
Visayas	2026	12	3	14	121	150	150	20
Visayas	2026	12	3	15	120	150	150	20
Visayas	2026	12	3	16	117	150	150	20
Visayas	2026	12	3	17	112	150	150	20
Visayas	2026	12	3	18	122	150	150	20
Visayas	2026	12	3	19	115	150	150	20
Visayas	2026	12	3	20	110	150	150	20
Visayas	2026	12	3	21	106	150	150	20
Visayas	2026	12	3	22	97	150	150	20
Visayas	2026	12	3	23	90	150	150	20
Visayas	2026	12	3	24	84	150	150	20
Visayas	2026	12	4	1	79	150	150	20
Visayas	2026	12	4	2	75	150	150	20
Visayas	2026	12	4	3	72	150	150	20
Visayas	2026	12	4	4	70	150	150	20
Visayas	2026	12	4	5	73	150	150	20
Visayas	2026	12	4	6	78	150	150	20
Visayas	2026	12	4	7	74	150	150	20
Visayas	2026	12	4	8	87	150	150	20
Visayas	2026	12	4	9	104	150	150	20
Visayas	2026	12	4	10	115	150	150	20
Visayas	2026	12	4	11	116	150	150	20
Visayas	2026	12	4	12	113	150	150	20
Visayas	2026	12	4	13	115	150	150	20
Visayas	2026	12	4	14	123	150	150	20
Visayas	2026	12	4	15	122	150	150	20
Visayas	2026	12	4	16	118	150	150	20
Visayas	2026	12	4	17	112	150	150	20
Visayas	2026	12	4	18	120	150	150	20
Visayas	2026	12	4	19	114	150	150	20
Visayas	2026	12	4	20	109	150	150	20
Visayas	2026	12	4	21	107	150	150	20
Visayas	2026	12	4	22	98	150	150	20
Visayas	2026	12	4	23	90	150	150	20
Visayas	2026	12	4	24	84	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	5	1	79	150	150	20
Visayas	2026	12	5	2	74	150	150	20
Visayas	2026	12	5	3	70	150	150	20
Visayas	2026	12	5	4	69	150	150	20
Visayas	2026	12	5	5	70	150	150	20
Visayas	2026	12	5	6	71	150	150	20
Visayas	2026	12	5	7	69	150	150	20
Visayas	2026	12	5	8	76	150	150	20
Visayas	2026	12	5	9	89	150	150	20
Visayas	2026	12	5	10	97	150	150	20
Visayas	2026	12	5	11	101	150	150	20
Visayas	2026	12	5	12	98	150	150	20
Visayas	2026	12	5	13	100	150	150	20
Visayas	2026	12	5	14	107	150	150	20
Visayas	2026	12	5	15	105	150	150	20
Visayas	2026	12	5	16	102	150	150	20
Visayas	2026	12	5	17	99	150	150	20
Visayas	2026	12	5	18	113	150	150	20
Visayas	2026	12	5	19	107	150	150	20
Visayas	2026	12	5	20	105	150	150	20
Visayas	2026	12	5	21	100	150	150	20
Visayas	2026	12	5	22	94	150	150	20
Visayas	2026	12	5	23	85	150	150	20
Visayas	2026	12	5	24	79	150	150	20
Visayas	2026	12	6	1	74	150	150	20
Visayas	2026	12	6	2	70	150	150	20
Visayas	2026	12	6	3	67	150	150	20
Visayas	2026	12	6	4	65	150	150	20
Visayas	2026	12	6	5	65	150	150	20
Visayas	2026	12	6	6	64	150	150	20
Visayas	2026	12	6	7	64	150	150	20
Visayas	2026	12	6	8	69	150	150	20
Visayas	2026	12	6	9	76	150	150	20
Visayas	2026	12	6	10	81	150	150	20
Visayas	2026	12	6	11	85	150	150	20
Visayas	2026	12	6	12	86	150	150	20
Visayas	2026	12	6	13	88	150	150	20
Visayas	2026	12	6	14	88	150	150	20
Visayas	2026	12	6	15	89	150	150	20
Visayas	2026	12	6	16	88	150	150	20
Visayas	2026	12	6	17	88	150	150	20
Visayas	2026	12	6	18	107	150	150	20
Visayas	2026	12	6	19	103	150	150	20
Visayas	2026	12	6	20	100	150	150	20
Visayas	2026	12	6	21	97	150	150	20
Visayas	2026	12	6	22	90	150	150	20
Visayas	2026	12	6	23	82	150	150	20
Visayas	2026	12	6	24	77	150	150	20
Visayas	2026	12	7	1	72	150	150	20
Visayas	2026	12	7	2	68	150	150	20
Visayas	2026	12	7	3	65	150	150	20
Visayas	2026	12	7	4	65	150	150	20
Visayas	2026	12	7	5	68	150	150	20
Visayas	2026	12	7	6	73	150	150	20
Visayas	2026	12	7	7	69	150	150	20
Visayas	2026	12	7	8	82	150	150	20
Visayas	2026	12	7	9	102	150	150	20
Visayas	2026	12	7	10	112	150	150	20
Visayas	2026	12	7	11	116	150	150	20
Visayas	2026	12	7	12	112	150	150	20
Visayas	2026	12	7	13	112	150	150	20
Visayas	2026	12	7	14	121	150	150	20
Visayas	2026	12	7	15	120	150	150	20
Visayas	2026	12	7	16	118	150	150	20
Visayas	2026	12	7	17	115	150	150	20
Visayas	2026	12	7	18	123	150	150	20
Visayas	2026	12	7	19	117	150	150	20
Visayas	2026	12	7	20	113	150	150	20
Visayas	2026	12	7	21	107	150	150	20
Visayas	2026	12	7	22	98	150	150	20
Visayas	2026	12	7	23	90	150	150	20
Visayas	2026	12	7	24	83	150	150	20
Visayas	2026	12	8	1	73	150	150	20
Visayas	2026	12	8	2	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	8	3	66	150	150	20
Visayas	2026	12	8	4	64	150	150	20
Visayas	2026	12	8	5	65	150	150	20
Visayas	2026	12	8	6	67	150	150	20
Visayas	2026	12	8	7	67	150	150	20
Visayas	2026	12	8	8	76	150	150	20
Visayas	2026	12	8	9	87	150	150	20
Visayas	2026	12	8	10	94	150	150	20
Visayas	2026	12	8	11	100	150	150	20
Visayas	2026	12	8	12	101	150	150	20
Visayas	2026	12	8	13	102	150	150	20
Visayas	2026	12	8	14	107	150	150	20
Visayas	2026	12	8	15	106	150	150	20
Visayas	2026	12	8	16	105	150	150	20
Visayas	2026	12	8	17	103	150	150	20
Visayas	2026	12	8	18	116	150	150	20
Visayas	2026	12	8	19	110	150	150	20
Visayas	2026	12	8	20	106	150	150	20
Visayas	2026	12	8	21	102	150	150	20
Visayas	2026	12	8	22	94	150	150	20
Visayas	2026	12	8	23	87	150	150	20
Visayas	2026	12	8	24	82	150	150	20
Visayas	2026	12	9	1	80	150	150	20
Visayas	2026	12	9	2	76	150	150	20
Visayas	2026	12	9	3	72	150	150	20
Visayas	2026	12	9	4	71	150	150	20
Visayas	2026	12	9	5	74	150	150	20
Visayas	2026	12	9	6	78	150	150	20
Visayas	2026	12	9	7	76	150	150	20
Visayas	2026	12	9	8	89	150	150	20
Visayas	2026	12	9	9	106	150	150	20
Visayas	2026	12	9	10	112	150	150	20
Visayas	2026	12	9	11	116	150	150	20
Visayas	2026	12	9	12	112	150	150	20
Visayas	2026	12	9	13	109	150	150	20
Visayas	2026	12	9	14	113	150	150	20
Visayas	2026	12	9	15	114	150	150	20
Visayas	2026	12	9	16	113	150	150	20
Visayas	2026	12	9	17	110	150	150	20
Visayas	2026	12	9	18	120	150	150	20
Visayas	2026	12	9	19	113	150	150	20
Visayas	2026	12	9	20	108	150	150	20
Visayas	2026	12	9	21	101	150	150	20
Visayas	2026	12	9	22	91	150	150	20
Visayas	2026	12	9	23	84	150	150	20
Visayas	2026	12	9	24	79	150	150	20
Visayas	2026	12	10	1	74	150	150	20
Visayas	2026	12	10	2	69	150	150	20
Visayas	2026	12	10	3	67	150	150	20
Visayas	2026	12	10	4	66	150	150	20
Visayas	2026	12	10	5	69	150	150	20
Visayas	2026	12	10	6	75	150	150	20
Visayas	2026	12	10	7	71	150	150	20
Visayas	2026	12	10	8	84	150	150	20
Visayas	2026	12	10	9	101	150	150	20
Visayas	2026	12	10	10	111	150	150	20
Visayas	2026	12	10	11	116	150	150	20
Visayas	2026	12	10	12	111	150	150	20
Visayas	2026	12	10	13	112	150	150	20
Visayas	2026	12	10	14	120	150	150	20
Visayas	2026	12	10	15	117	150	150	20
Visayas	2026	12	10	16	116	150	150	20
Visayas	2026	12	10	17	110	150	150	20
Visayas	2026	12	10	18	119	150	150	20
Visayas	2026	12	10	19	110	150	150	20
Visayas	2026	12	10	20	105	150	150	20
Visayas	2026	12	10	21	99	150	150	20
Visayas	2026	12	10	22	91	150	150	20
Visayas	2026	12	10	23	84	150	150	20
Visayas	2026	12	10	24	77	150	150	20
Visayas	2026	12	11	1	83	150	150	20
Visayas	2026	12	11	2	79	150	150	20
Visayas	2026	12	11	3	75	150	150	20
Visayas	2026	12	11	4	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	11	5	75	150	150	20
Visayas	2026	12	11	6	78	150	150	20
Visayas	2026	12	11	7	77	150	150	20
Visayas	2026	12	11	8	89	150	150	20
Visayas	2026	12	11	9	106	150	150	20
Visayas	2026	12	11	10	112	150	150	20
Visayas	2026	12	11	11	116	150	150	20
Visayas	2026	12	11	12	116	150	150	20
Visayas	2026	12	11	13	116	150	150	20
Visayas	2026	12	11	14	123	150	150	20
Visayas	2026	12	11	15	125	150	150	20
Visayas	2026	12	11	16	122	150	150	20
Visayas	2026	12	11	17	116	150	150	20
Visayas	2026	12	11	18	127	150	150	20
Visayas	2026	12	11	19	121	150	150	20
Visayas	2026	12	11	20	116	150	150	20
Visayas	2026	12	11	21	110	150	150	20
Visayas	2026	12	11	22	102	150	150	20
Visayas	2026	12	11	23	95	150	150	20
Visayas	2026	12	11	24	87	150	150	20
Visayas	2026	12	12	1	79	150	150	20
Visayas	2026	12	12	2	75	150	150	20
Visayas	2026	12	12	3	71	150	150	20
Visayas	2026	12	12	4	69	150	150	20
Visayas	2026	12	12	5	69	150	150	20
Visayas	2026	12	12	6	71	150	150	20
Visayas	2026	12	12	7	69	150	150	20
Visayas	2026	12	12	8	76	150	150	20
Visayas	2026	12	12	9	89	150	150	20
Visayas	2026	12	12	10	97	150	150	20
Visayas	2026	12	12	11	102	150	150	20
Visayas	2026	12	12	12	101	150	150	20
Visayas	2026	12	12	13	103	150	150	20
Visayas	2026	12	12	14	107	150	150	20
Visayas	2026	12	12	15	105	150	150	20
Visayas	2026	12	12	16	105	150	150	20
Visayas	2026	12	12	17	103	150	150	20
Visayas	2026	12	12	18	117	150	150	20
Visayas	2026	12	12	19	111	150	150	20
Visayas	2026	12	12	20	107	150	150	20
Visayas	2026	12	12	21	102	150	150	20
Visayas	2026	12	12	22	96	150	150	20
Visayas	2026	12	12	23	89	150	150	20
Visayas	2026	12	12	24	83	150	150	20
Visayas	2026	12	13	1	78	150	150	20
Visayas	2026	12	13	2	75	150	150	20
Visayas	2026	12	13	3	71	150	150	20
Visayas	2026	12	13	4	68	150	150	20
Visayas	2026	12	13	5	69	150	150	20
Visayas	2026	12	13	6	70	150	150	20
Visayas	2026	12	13	7	66	150	150	20
Visayas	2026	12	13	8	68	150	150	20
Visayas	2026	12	13	9	75	150	150	20
Visayas	2026	12	13	10	81	150	150	20
Visayas	2026	12	13	11	85	150	150	20
Visayas	2026	12	13	12	87	150	150	20
Visayas	2026	12	13	13	89	150	150	20
Visayas	2026	12	13	14	92	150	150	20
Visayas	2026	12	13	15	93	150	150	20
Visayas	2026	12	13	16	92	150	150	20
Visayas	2026	12	13	17	92	150	150	20
Visayas	2026	12	13	18	110	150	150	20
Visayas	2026	12	13	19	106	150	150	20
Visayas	2026	12	13	20	103	150	150	20
Visayas	2026	12	13	21	100	150	150	20
Visayas	2026	12	13	22	93	150	150	20
Visayas	2026	12	13	23	85	150	150	20
Visayas	2026	12	13	24	79	150	150	20
Visayas	2026	12	14	1	74	150	150	20
Visayas	2026	12	14	2	70	150	150	20
Visayas	2026	12	14	3	67	150	150	20
Visayas	2026	12	14	4	65	150	150	20
Visayas	2026	12	14	5	68	150	150	20
Visayas	2026	12	14	6	74	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	14	7	71	150	150	20
Visayas	2026	12	14	8	85	150	150	20
Visayas	2026	12	14	9	104	150	150	20
Visayas	2026	12	14	10	114	150	150	20
Visayas	2026	12	14	11	118	150	150	20
Visayas	2026	12	14	12	117	150	150	20
Visayas	2026	12	14	13	117	150	150	20
Visayas	2026	12	14	14	126	150	150	20
Visayas	2026	12	14	15	125	150	150	20
Visayas	2026	12	14	16	122	150	150	20
Visayas	2026	12	14	17	115	150	150	20
Visayas	2026	12	14	18	124	150	150	20
Visayas	2026	12	14	19	117	150	150	20
Visayas	2026	12	14	20	112	150	150	20
Visayas	2026	12	14	21	108	150	150	20
Visayas	2026	12	14	22	98	150	150	20
Visayas	2026	12	14	23	90	150	150	20
Visayas	2026	12	14	24	83	150	150	20
Visayas	2026	12	15	1	78	150	150	20
Visayas	2026	12	15	2	75	150	150	20
Visayas	2026	12	15	3	72	150	150	20
Visayas	2026	12	15	4	70	150	150	20
Visayas	2026	12	15	5	74	150	150	20
Visayas	2026	12	15	6	77	150	150	20
Visayas	2026	12	15	7	73	150	150	20
Visayas	2026	12	15	8	86	150	150	20
Visayas	2026	12	15	9	106	150	150	20
Visayas	2026	12	15	10	115	150	150	20
Visayas	2026	12	15	11	120	150	150	20
Visayas	2026	12	15	12	114	150	150	20
Visayas	2026	12	15	13	118	150	150	20
Visayas	2026	12	15	14	124	150	150	20
Visayas	2026	12	15	15	123	150	150	20
Visayas	2026	12	15	16	121	150	150	20
Visayas	2026	12	15	17	114	150	150	20
Visayas	2026	12	15	18	123	150	150	20
Visayas	2026	12	15	19	117	150	150	20
Visayas	2026	12	15	20	114	150	150	20
Visayas	2026	12	15	21	110	150	150	20
Visayas	2026	12	15	22	101	150	150	20
Visayas	2026	12	15	23	91	150	150	20
Visayas	2026	12	15	24	85	150	150	20
Visayas	2026	12	16	1	79	150	150	20
Visayas	2026	12	16	2	76	150	150	20
Visayas	2026	12	16	3	72	150	150	20
Visayas	2026	12	16	4	70	150	150	20
Visayas	2026	12	16	5	73	150	150	20
Visayas	2026	12	16	6	77	150	150	20
Visayas	2026	12	16	7	73	150	150	20
Visayas	2026	12	16	8	87	150	150	20
Visayas	2026	12	16	9	105	150	150	20
Visayas	2026	12	16	10	116	150	150	20
Visayas	2026	12	16	11	119	150	150	20
Visayas	2026	12	16	12	118	150	150	20
Visayas	2026	12	16	13	119	150	150	20
Visayas	2026	12	16	14	125	150	150	20
Visayas	2026	12	16	15	124	150	150	20
Visayas	2026	12	16	16	122	150	150	20
Visayas	2026	12	16	17	115	150	150	20
Visayas	2026	12	16	18	125	150	150	20
Visayas	2026	12	16	19	120	150	150	20
Visayas	2026	12	16	20	115	150	150	20
Visayas	2026	12	16	21	111	150	150	20
Visayas	2026	12	16	22	102	150	150	20
Visayas	2026	12	16	23	94	150	150	20
Visayas	2026	12	16	24	87	150	150	20
Visayas	2026	12	17	1	82	150	150	20
Visayas	2026	12	17	2	77	150	150	20
Visayas	2026	12	17	3	74	150	150	20
Visayas	2026	12	17	4	72	150	150	20
Visayas	2026	12	17	5	74	150	150	20
Visayas	2026	12	17	6	77	150	150	20
Visayas	2026	12	17	7	75	150	150	20
Visayas	2026	12	17	8	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	17	9	106	150	150	20
Visayas	2026	12	17	10	115	150	150	20
Visayas	2026	12	17	11	120	150	150	20
Visayas	2026	12	17	12	118	150	150	20
Visayas	2026	12	17	13	119	150	150	20
Visayas	2026	12	17	14	125	150	150	20
Visayas	2026	12	17	15	127	150	150	20
Visayas	2026	12	17	16	125	150	150	20
Visayas	2026	12	17	17	119	150	150	20
Visayas	2026	12	17	18	127	150	150	20
Visayas	2026	12	17	19	121	150	150	20
Visayas	2026	12	17	20	117	150	150	20
Visayas	2026	12	17	21	112	150	150	20
Visayas	2026	12	17	22	103	150	150	20
Visayas	2026	12	17	23	96	150	150	20
Visayas	2026	12	17	24	89	150	150	20
Visayas	2026	12	18	1	83	150	150	20
Visayas	2026	12	18	2	79	150	150	20
Visayas	2026	12	18	3	75	150	150	20
Visayas	2026	12	18	4	73	150	150	20
Visayas	2026	12	18	5	75	150	150	20
Visayas	2026	12	18	6	78	150	150	20
Visayas	2026	12	18	7	77	150	150	20
Visayas	2026	12	18	8	89	150	150	20
Visayas	2026	12	18	9	106	150	150	20
Visayas	2026	12	18	10	112	150	150	20
Visayas	2026	12	18	11	116	150	150	20
Visayas	2026	12	18	12	116	150	150	20
Visayas	2026	12	18	13	116	150	150	20
Visayas	2026	12	18	14	123	150	150	20
Visayas	2026	12	18	15	125	150	150	20
Visayas	2026	12	18	16	122	150	150	20
Visayas	2026	12	18	17	116	150	150	20
Visayas	2026	12	18	18	127	150	150	20
Visayas	2026	12	18	19	121	150	150	20
Visayas	2026	12	18	20	116	150	150	20
Visayas	2026	12	18	21	110	150	150	20
Visayas	2026	12	18	22	102	150	150	20
Visayas	2026	12	18	23	95	150	150	20
Visayas	2026	12	18	24	87	150	150	20
Visayas	2026	12	19	1	83	150	150	20
Visayas	2026	12	19	2	78	150	150	20
Visayas	2026	12	19	3	75	150	150	20
Visayas	2026	12	19	4	72	150	150	20
Visayas	2026	12	19	5	71	150	150	20
Visayas	2026	12	19	6	74	150	150	20
Visayas	2026	12	19	7	73	150	150	20
Visayas	2026	12	19	8	79	150	150	20
Visayas	2026	12	19	9	93	150	150	20
Visayas	2026	12	19	10	103	150	150	20
Visayas	2026	12	19	11	109	150	150	20
Visayas	2026	12	19	12	106	150	150	20
Visayas	2026	12	19	13	106	150	150	20
Visayas	2026	12	19	14	111	150	150	20
Visayas	2026	12	19	15	111	150	150	20
Visayas	2026	12	19	16	107	150	150	20
Visayas	2026	12	19	17	104	150	150	20
Visayas	2026	12	19	18	117	150	150	20
Visayas	2026	12	19	19	111	150	150	20
Visayas	2026	12	19	20	108	150	150	20
Visayas	2026	12	19	21	104	150	150	20
Visayas	2026	12	19	22	98	150	150	20
Visayas	2026	12	19	23	90	150	150	20
Visayas	2026	12	19	24	84	150	150	20
Visayas	2026	12	20	1	79	150	150	20
Visayas	2026	12	20	2	74	150	150	20
Visayas	2026	12	20	3	71	150	150	20
Visayas	2026	12	20	4	68	150	150	20
Visayas	2026	12	20	5	67	150	150	20
Visayas	2026	12	20	6	66	150	150	20
Visayas	2026	12	20	7	67	150	150	20
Visayas	2026	12	20	8	71	150	150	20
Visayas	2026	12	20	9	76	150	150	20
Visayas	2026	12	20	10	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	20	11	83	150	150	20
Visayas	2026	12	20	12	83	150	150	20
Visayas	2026	12	20	13	84	150	150	20
Visayas	2026	12	20	14	84	150	150	20
Visayas	2026	12	20	15	84	150	150	20
Visayas	2026	12	20	16	84	150	150	20
Visayas	2026	12	20	17	87	150	150	20
Visayas	2026	12	20	18	102	150	150	20
Visayas	2026	12	20	19	99	150	150	20
Visayas	2026	12	20	20	97	150	150	20
Visayas	2026	12	20	21	94	150	150	20
Visayas	2026	12	20	22	89	150	150	20
Visayas	2026	12	20	23	82	150	150	20
Visayas	2026	12	20	24	76	150	150	20
Visayas	2026	12	21	1	72	150	150	20
Visayas	2026	12	21	2	69	150	150	20
Visayas	2026	12	21	3	66	150	150	20
Visayas	2026	12	21	4	64	150	150	20
Visayas	2026	12	21	5	63	150	150	20
Visayas	2026	12	21	6	66	150	150	20
Visayas	2026	12	21	7	69	150	150	20
Visayas	2026	12	21	8	79	150	150	20
Visayas	2026	12	21	9	91	150	150	20
Visayas	2026	12	21	10	100	150	150	20
Visayas	2026	12	21	11	101	150	150	20
Visayas	2026	12	21	12	96	150	150	20
Visayas	2026	12	21	13	93	150	150	20
Visayas	2026	12	21	14	98	150	150	20
Visayas	2026	12	21	15	98	150	150	20
Visayas	2026	12	21	16	98	150	150	20
Visayas	2026	12	21	17	100	150	150	20
Visayas	2026	12	21	18	106	150	150	20
Visayas	2026	12	21	19	98	150	150	20
Visayas	2026	12	21	20	95	150	150	20
Visayas	2026	12	21	21	89	150	150	20
Visayas	2026	12	21	22	82	150	150	20
Visayas	2026	12	21	23	75	150	150	20
Visayas	2026	12	21	24	71	150	150	20
Visayas	2026	12	22	1	67	150	150	20
Visayas	2026	12	22	2	65	150	150	20
Visayas	2026	12	22	3	64	150	150	20
Visayas	2026	12	22	4	63	150	150	20
Visayas	2026	12	22	5	65	150	150	20
Visayas	2026	12	22	6	67	150	150	20
Visayas	2026	12	22	7	71	150	150	20
Visayas	2026	12	22	8	83	150	150	20
Visayas	2026	12	22	9	101	150	150	20
Visayas	2026	12	22	10	106	150	150	20
Visayas	2026	12	22	11	109	150	150	20
Visayas	2026	12	22	12	106	150	150	20
Visayas	2026	12	22	13	104	150	150	20
Visayas	2026	12	22	14	111	150	150	20
Visayas	2026	12	22	15	114	150	150	20
Visayas	2026	12	22	16	112	150	150	20
Visayas	2026	12	22	17	108	150	150	20
Visayas	2026	12	22	18	117	150	150	20
Visayas	2026	12	22	19	110	150	150	20
Visayas	2026	12	22	20	104	150	150	20
Visayas	2026	12	22	21	100	150	150	20
Visayas	2026	12	22	22	92	150	150	20
Visayas	2026	12	22	23	85	150	150	20
Visayas	2026	12	22	24	79	150	150	20
Visayas	2026	12	23	1	74	150	150	20
Visayas	2026	12	23	2	69	150	150	20
Visayas	2026	12	23	3	68	150	150	20
Visayas	2026	12	23	4	67	150	150	20
Visayas	2026	12	23	5	68	150	150	20
Visayas	2026	12	23	6	71	150	150	20
Visayas	2026	12	23	7	73	150	150	20
Visayas	2026	12	23	8	85	150	150	20
Visayas	2026	12	23	9	102	150	150	20
Visayas	2026	12	23	10	111	150	150	20
Visayas	2026	12	23	11	115	150	150	20
Visayas	2026	12	23	12	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	23	13	114	150	150	20
Visayas	2026	12	23	14	121	150	150	20
Visayas	2026	12	23	15	119	150	150	20
Visayas	2026	12	23	16	118	150	150	20
Visayas	2026	12	23	17	111	150	150	20
Visayas	2026	12	23	18	120	150	150	20
Visayas	2026	12	23	19	114	150	150	20
Visayas	2026	12	23	20	107	150	150	20
Visayas	2026	12	23	21	106	150	150	20
Visayas	2026	12	23	22	96	150	150	20
Visayas	2026	12	23	23	89	150	150	20
Visayas	2026	12	23	24	82	150	150	20
Visayas	2026	12	24	1	76	150	150	20
Visayas	2026	12	24	2	73	150	150	20
Visayas	2026	12	24	3	69	150	150	20
Visayas	2026	12	24	4	67	150	150	20
Visayas	2026	12	24	5	68	150	150	20
Visayas	2026	12	24	6	68	150	150	20
Visayas	2026	12	24	7	71	150	150	20
Visayas	2026	12	24	8	86	150	150	20
Visayas	2026	12	24	9	103	150	150	20
Visayas	2026	12	24	10	111	150	150	20
Visayas	2026	12	24	11	116	150	150	20
Visayas	2026	12	24	12	114	150	150	20
Visayas	2026	12	24	13	114	150	150	20
Visayas	2026	12	24	14	121	150	150	20
Visayas	2026	12	24	15	121	150	150	20
Visayas	2026	12	24	16	119	150	150	20
Visayas	2026	12	24	17	112	150	150	20
Visayas	2026	12	24	18	122	150	150	20
Visayas	2026	12	24	19	115	150	150	20
Visayas	2026	12	24	20	111	150	150	20
Visayas	2026	12	24	21	107	150	150	20
Visayas	2026	12	24	22	98	150	150	20
Visayas	2026	12	24	23	92	150	150	20
Visayas	2026	12	24	24	85	150	150	20
Visayas	2026	12	25	1	72	150	150	20
Visayas	2026	12	25	2	68	150	150	20
Visayas	2026	12	25	3	65	150	150	20
Visayas	2026	12	25	4	63	150	150	20
Visayas	2026	12	25	5	61	150	150	20
Visayas	2026	12	25	6	61	150	150	20
Visayas	2026	12	25	7	60	150	150	20
Visayas	2026	12	25	8	60	150	150	20
Visayas	2026	12	25	9	64	150	150	20
Visayas	2026	12	25	10	66	150	150	20
Visayas	2026	12	25	11	70	150	150	20
Visayas	2026	12	25	12	70	150	150	20
Visayas	2026	12	25	13	69	150	150	20
Visayas	2026	12	25	14	71	150	150	20
Visayas	2026	12	25	15	71	150	150	20
Visayas	2026	12	25	16	72	150	150	20
Visayas	2026	12	25	17	75	150	150	20
Visayas	2026	12	25	18	89	150	150	20
Visayas	2026	12	25	19	87	150	150	20
Visayas	2026	12	25	20	85	150	150	20
Visayas	2026	12	25	21	81	150	150	20
Visayas	2026	12	25	22	76	150	150	20
Visayas	2026	12	25	23	71	150	150	20
Visayas	2026	12	25	24	67	150	150	20
Visayas	2026	12	26	1	79	150	150	20
Visayas	2026	12	26	2	74	150	150	20
Visayas	2026	12	26	3	70	150	150	20
Visayas	2026	12	26	4	68	150	150	20
Visayas	2026	12	26	5	67	150	150	20
Visayas	2026	12	26	6	67	150	150	20
Visayas	2026	12	26	7	69	150	150	20
Visayas	2026	12	26	8	77	150	150	20
Visayas	2026	12	26	9	89	150	150	20
Visayas	2026	12	26	10	95	150	150	20
Visayas	2026	12	26	11	100	150	150	20
Visayas	2026	12	26	12	97	150	150	20
Visayas	2026	12	26	13	96	150	150	20
Visayas	2026	12	26	14	100	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	26	15	102	150	150	20
Visayas	2026	12	26	16	99	150	150	20
Visayas	2026	12	26	17	99	150	150	20
Visayas	2026	12	26	18	110	150	150	20
Visayas	2026	12	26	19	107	150	150	20
Visayas	2026	12	26	20	102	150	150	20
Visayas	2026	12	26	21	99	150	150	20
Visayas	2026	12	26	22	92	150	150	20
Visayas	2026	12	26	23	86	150	150	20
Visayas	2026	12	26	24	79	150	150	20
Visayas	2026	12	27	1	75	150	150	20
Visayas	2026	12	27	2	70	150	150	20
Visayas	2026	12	27	3	68	150	150	20
Visayas	2026	12	27	4	66	150	150	20
Visayas	2026	12	27	5	65	150	150	20
Visayas	2026	12	27	6	65	150	150	20
Visayas	2026	12	27	7	65	150	150	20
Visayas	2026	12	27	8	69	150	150	20
Visayas	2026	12	27	9	74	150	150	20
Visayas	2026	12	27	10	80	150	150	20
Visayas	2026	12	27	11	82	150	150	20
Visayas	2026	12	27	12	83	150	150	20
Visayas	2026	12	27	13	86	150	150	20
Visayas	2026	12	27	14	87	150	150	20
Visayas	2026	12	27	15	88	150	150	20
Visayas	2026	12	27	16	87	150	150	20
Visayas	2026	12	27	17	89	150	150	20
Visayas	2026	12	27	18	103	150	150	20
Visayas	2026	12	27	19	96	150	150	20
Visayas	2026	12	27	20	88	150	150	20
Visayas	2026	12	27	21	83	150	150	20
Visayas	2026	12	27	22	81	150	150	20
Visayas	2026	12	27	23	78	150	150	20
Visayas	2026	12	27	24	76	150	150	20
Visayas	2026	12	28	1	72	150	150	20
Visayas	2026	12	28	2	69	150	150	20
Visayas	2026	12	28	3	66	150	150	20
Visayas	2026	12	28	4	64	150	150	20
Visayas	2026	12	28	5	63	150	150	20
Visayas	2026	12	28	6	66	150	150	20
Visayas	2026	12	28	7	69	150	150	20
Visayas	2026	12	28	8	79	150	150	20
Visayas	2026	12	28	9	91	150	150	20
Visayas	2026	12	28	10	100	150	150	20
Visayas	2026	12	28	11	101	150	150	20
Visayas	2026	12	28	12	96	150	150	20
Visayas	2026	12	28	13	93	150	150	20
Visayas	2026	12	28	14	98	150	150	20
Visayas	2026	12	28	15	98	150	150	20
Visayas	2026	12	28	16	98	150	150	20
Visayas	2026	12	28	17	100	150	150	20
Visayas	2026	12	28	18	106	150	150	20
Visayas	2026	12	28	19	98	150	150	20
Visayas	2026	12	28	20	95	150	150	20
Visayas	2026	12	28	21	89	150	150	20
Visayas	2026	12	28	22	82	150	150	20
Visayas	2026	12	28	23	75	150	150	20
Visayas	2026	12	28	24	71	150	150	20
Visayas	2026	12	29	1	64	150	150	20
Visayas	2026	12	29	2	61	150	150	20
Visayas	2026	12	29	3	59	150	150	20
Visayas	2026	12	29	4	58	150	150	20
Visayas	2026	12	29	5	59	150	150	20
Visayas	2026	12	29	6	60	150	150	20
Visayas	2026	12	29	7	62	150	150	20
Visayas	2026	12	29	8	67	150	150	20
Visayas	2026	12	29	9	79	150	150	20
Visayas	2026	12	29	10	85	150	150	20
Visayas	2026	12	29	11	90	150	150	20
Visayas	2026	12	29	12	90	150	150	20
Visayas	2026	12	29	13	89	150	150	20
Visayas	2026	12	29	14	93	150	150	20
Visayas	2026	12	29	15	91	150	150	20
Visayas	2026	12	29	16	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2026	12	29	17	91	150	150	20
Visayas	2026	12	29	18	105	150	150	20
Visayas	2026	12	29	19	102	150	150	20
Visayas	2026	12	29	20	98	150	150	20
Visayas	2026	12	29	21	93	150	150	20
Visayas	2026	12	29	22	87	150	150	20
Visayas	2026	12	29	23	80	150	150	20
Visayas	2026	12	29	24	74	150	150	20
Visayas	2026	12	30	1	75	150	150	20
Visayas	2026	12	30	2	71	150	150	20
Visayas	2026	12	30	3	68	150	150	20
Visayas	2026	12	30	4	66	150	150	20
Visayas	2026	12	30	5	66	150	150	20
Visayas	2026	12	30	6	66	150	150	20
Visayas	2026	12	30	7	67	150	150	20
Visayas	2026	12	30	8	73	150	150	20
Visayas	2026	12	30	9	80	150	150	20
Visayas	2026	12	30	10	87	150	150	20
Visayas	2026	12	30	11	92	150	150	20
Visayas	2026	12	30	12	91	150	150	20
Visayas	2026	12	30	13	92	150	150	20
Visayas	2026	12	30	14	95	150	150	20
Visayas	2026	12	30	15	94	150	150	20
Visayas	2026	12	30	16	91	150	150	20
Visayas	2026	12	30	17	91	150	150	20
Visayas	2026	12	30	18	106	150	150	20
Visayas	2026	12	30	19	104	150	150	20
Visayas	2026	12	30	20	101	150	150	20
Visayas	2026	12	30	21	97	150	150	20
Visayas	2026	12	30	22	91	150	150	20
Visayas	2026	12	30	23	84	150	150	20
Visayas	2026	12	30	24	79	150	150	20
Visayas	2026	12	31	1	74	150	150	20
Visayas	2026	12	31	2	70	150	150	20
Visayas	2026	12	31	3	66	150	150	20
Visayas	2026	12	31	4	64	150	150	20
Visayas	2026	12	31	5	64	150	150	20
Visayas	2026	12	31	6	63	150	150	20
Visayas	2026	12	31	7	65	150	150	20
Visayas	2026	12	31	8	69	150	150	20
Visayas	2026	12	31	9	77	150	150	20
Visayas	2026	12	31	10	80	150	150	20
Visayas	2026	12	31	11	84	150	150	20
Visayas	2026	12	31	12	86	150	150	20
Visayas	2026	12	31	13	88	150	150	20
Visayas	2026	12	31	14	91	150	150	20
Visayas	2026	12	31	15	92	150	150	20
Visayas	2026	12	31	16	92	150	150	20
Visayas	2026	12	31	17	93	150	150	20
Visayas	2026	12	31	18	105	150	150	20
Visayas	2026	12	31	19	102	150	150	20
Visayas	2026	12	31	20	95	150	150	20
Visayas	2026	12	31	21	90	150	150	20
Visayas	2026	12	31	22	91	150	150	20
Visayas	2026	12	31	23	90	150	150	20
Visayas	2026	12	31	24	89	150	150	20
Visayas	2027	1	1	1	80	150	150	20
Visayas	2027	1	1	2	71	150	150	20
Visayas	2027	1	1	3	67	150	150	20
Visayas	2027	1	1	4	64	150	150	20
Visayas	2027	1	1	5	61	150	150	20
Visayas	2027	1	1	6	59	150	150	20
Visayas	2027	1	1	7	59	150	150	20
Visayas	2027	1	1	8	58	150	150	20
Visayas	2027	1	1	9	60	150	150	20
Visayas	2027	1	1	10	62	150	150	20
Visayas	2027	1	1	11	64	150	150	20
Visayas	2027	1	1	12	67	150	150	20
Visayas	2027	1	1	13	68	150	150	20
Visayas	2027	1	1	14	68	150	150	20
Visayas	2027	1	1	15	67	150	150	20
Visayas	2027	1	1	16	66	150	150	20
Visayas	2027	1	1	17	69	150	150	20
Visayas	2027	1	1	18	81	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	1	19	82	150	150	20
Visayas	2027	1	1	20	78	150	150	20
Visayas	2027	1	1	21	74	150	150	20
Visayas	2027	1	1	22	69	150	150	20
Visayas	2027	1	1	23	65	150	150	20
Visayas	2027	1	1	24	62	150	150	20
Visayas	2027	1	2	1	65	150	150	20
Visayas	2027	1	2	2	63	150	150	20
Visayas	2027	1	2	3	61	150	150	20
Visayas	2027	1	2	4	59	150	150	20
Visayas	2027	1	2	5	60	150	150	20
Visayas	2027	1	2	6	61	150	150	20
Visayas	2027	1	2	7	63	150	150	20
Visayas	2027	1	2	8	68	150	150	20
Visayas	2027	1	2	9	79	150	150	20
Visayas	2027	1	2	10	88	150	150	20
Visayas	2027	1	2	11	90	150	150	20
Visayas	2027	1	2	12	86	150	150	20
Visayas	2027	1	2	13	85	150	150	20
Visayas	2027	1	2	14	88	150	150	20
Visayas	2027	1	2	15	88	150	150	20
Visayas	2027	1	2	16	85	150	150	20
Visayas	2027	1	2	17	84	150	150	20
Visayas	2027	1	2	18	95	150	150	20
Visayas	2027	1	2	19	92	150	150	20
Visayas	2027	1	2	20	87	150	150	20
Visayas	2027	1	2	21	84	150	150	20
Visayas	2027	1	2	22	77	150	150	20
Visayas	2027	1	2	23	68	150	150	20
Visayas	2027	1	2	24	64	150	150	20
Visayas	2027	1	3	1	63	150	150	20
Visayas	2027	1	3	2	61	150	150	20
Visayas	2027	1	3	3	60	150	150	20
Visayas	2027	1	3	4	58	150	150	20
Visayas	2027	1	3	5	58	150	150	20
Visayas	2027	1	3	6	59	150	150	20
Visayas	2027	1	3	7	60	150	150	20
Visayas	2027	1	3	8	62	150	150	20
Visayas	2027	1	3	9	65	150	150	20
Visayas	2027	1	3	10	69	150	150	20
Visayas	2027	1	3	11	69	150	150	20
Visayas	2027	1	3	12	68	150	150	20
Visayas	2027	1	3	13	67	150	150	20
Visayas	2027	1	3	14	66	150	150	20
Visayas	2027	1	3	15	66	150	150	20
Visayas	2027	1	3	16	66	150	150	20
Visayas	2027	1	3	17	69	150	150	20
Visayas	2027	1	3	18	84	150	150	20
Visayas	2027	1	3	19	82	150	150	20
Visayas	2027	1	3	20	77	150	150	20
Visayas	2027	1	3	21	71	150	150	20
Visayas	2027	1	3	22	65	150	150	20
Visayas	2027	1	3	23	64	150	150	20
Visayas	2027	1	3	24	60	150	150	20
Visayas	2027	1	4	1	59	150	150	20
Visayas	2027	1	4	2	58	150	150	20
Visayas	2027	1	4	3	57	150	150	20
Visayas	2027	1	4	4	55	150	150	20
Visayas	2027	1	4	5	55	150	150	20
Visayas	2027	1	4	6	56	150	150	20
Visayas	2027	1	4	7	58	150	150	20
Visayas	2027	1	4	8	61	150	150	20
Visayas	2027	1	4	9	68	150	150	20
Visayas	2027	1	4	10	77	150	150	20
Visayas	2027	1	4	11	81	150	150	20
Visayas	2027	1	4	12	81	150	150	20
Visayas	2027	1	4	13	80	150	150	20
Visayas	2027	1	4	14	83	150	150	20
Visayas	2027	1	4	15	84	150	150	20
Visayas	2027	1	4	16	81	150	150	20
Visayas	2027	1	4	17	83	150	150	20
Visayas	2027	1	4	18	98	150	150	20
Visayas	2027	1	4	19	96	150	150	20
Visayas	2027	1	4	20	90	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	4	21	86	150	150	20
Visayas	2027	1	4	22	79	150	150	20
Visayas	2027	1	4	23	74	150	150	20
Visayas	2027	1	4	24	69	150	150	20
Visayas	2027	1	5	1	65	150	150	20
Visayas	2027	1	5	2	64	150	150	20
Visayas	2027	1	5	3	60	150	150	20
Visayas	2027	1	5	4	59	150	150	20
Visayas	2027	1	5	5	59	150	150	20
Visayas	2027	1	5	6	60	150	150	20
Visayas	2027	1	5	7	63	150	150	20
Visayas	2027	1	5	8	69	150	150	20
Visayas	2027	1	5	9	82	150	150	20
Visayas	2027	1	5	10	87	150	150	20
Visayas	2027	1	5	11	92	150	150	20
Visayas	2027	1	5	12	90	150	150	20
Visayas	2027	1	5	13	87	150	150	20
Visayas	2027	1	5	14	92	150	150	20
Visayas	2027	1	5	15	93	150	150	20
Visayas	2027	1	5	16	92	150	150	20
Visayas	2027	1	5	17	94	150	150	20
Visayas	2027	1	5	18	101	150	150	20
Visayas	2027	1	5	19	95	150	150	20
Visayas	2027	1	5	20	89	150	150	20
Visayas	2027	1	5	21	82	150	150	20
Visayas	2027	1	5	22	74	150	150	20
Visayas	2027	1	5	23	70	150	150	20
Visayas	2027	1	5	24	65	150	150	20
Visayas	2027	1	6	1	62	150	150	20
Visayas	2027	1	6	2	60	150	150	20
Visayas	2027	1	6	3	59	150	150	20
Visayas	2027	1	6	4	60	150	150	20
Visayas	2027	1	6	5	61	150	150	20
Visayas	2027	1	6	6	64	150	150	20
Visayas	2027	1	6	7	67	150	150	20
Visayas	2027	1	6	8	72	150	150	20
Visayas	2027	1	6	9	85	150	150	20
Visayas	2027	1	6	10	92	150	150	20
Visayas	2027	1	6	11	95	150	150	20
Visayas	2027	1	6	12	89	150	150	20
Visayas	2027	1	6	13	87	150	150	20
Visayas	2027	1	6	14	91	150	150	20
Visayas	2027	1	6	15	93	150	150	20
Visayas	2027	1	6	16	92	150	150	20
Visayas	2027	1	6	17	90	150	150	20
Visayas	2027	1	6	18	101	150	150	20
Visayas	2027	1	6	19	92	150	150	20
Visayas	2027	1	6	20	87	150	150	20
Visayas	2027	1	6	21	81	150	150	20
Visayas	2027	1	6	22	72	150	150	20
Visayas	2027	1	6	23	67	150	150	20
Visayas	2027	1	6	24	64	150	150	20
Visayas	2027	1	7	1	61	150	150	20
Visayas	2027	1	7	2	60	150	150	20
Visayas	2027	1	7	3	59	150	150	20
Visayas	2027	1	7	4	58	150	150	20
Visayas	2027	1	7	5	60	150	150	20
Visayas	2027	1	7	6	64	150	150	20
Visayas	2027	1	7	7	66	150	150	20
Visayas	2027	1	7	8	73	150	150	20
Visayas	2027	1	7	9	91	150	150	20
Visayas	2027	1	7	10	99	150	150	20
Visayas	2027	1	7	11	105	150	150	20
Visayas	2027	1	7	12	102	150	150	20
Visayas	2027	1	7	13	101	150	150	20
Visayas	2027	1	7	14	107	150	150	20
Visayas	2027	1	7	15	107	150	150	20
Visayas	2027	1	7	16	104	150	150	20
Visayas	2027	1	7	17	100	150	150	20
Visayas	2027	1	7	18	107	150	150	20
Visayas	2027	1	7	19	102	150	150	20
Visayas	2027	1	7	20	95	150	150	20
Visayas	2027	1	7	21	88	150	150	20
Visayas	2027	1	7	22	80	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	7	23	73	150	150	20
Visayas	2027	1	7	24	69	150	150	20
Visayas	2027	1	8	1	66	150	150	20
Visayas	2027	1	8	2	63	150	150	20
Visayas	2027	1	8	3	62	150	150	20
Visayas	2027	1	8	4	60	150	150	20
Visayas	2027	1	8	5	63	150	150	20
Visayas	2027	1	8	6	67	150	150	20
Visayas	2027	1	8	7	67	150	150	20
Visayas	2027	1	8	8	74	150	150	20
Visayas	2027	1	8	9	93	150	150	20
Visayas	2027	1	8	10	103	150	150	20
Visayas	2027	1	8	11	105	150	150	20
Visayas	2027	1	8	12	103	150	150	20
Visayas	2027	1	8	13	103	150	150	20
Visayas	2027	1	8	14	108	150	150	20
Visayas	2027	1	8	15	107	150	150	20
Visayas	2027	1	8	16	103	150	150	20
Visayas	2027	1	8	17	97	150	150	20
Visayas	2027	1	8	18	106	150	150	20
Visayas	2027	1	8	19	100	150	150	20
Visayas	2027	1	8	20	92	150	150	20
Visayas	2027	1	8	21	86	150	150	20
Visayas	2027	1	8	22	81	150	150	20
Visayas	2027	1	8	23	72	150	150	20
Visayas	2027	1	8	24	67	150	150	20
Visayas	2027	1	9	1	65	150	150	20
Visayas	2027	1	9	2	63	150	150	20
Visayas	2027	1	9	3	61	150	150	20
Visayas	2027	1	9	4	59	150	150	20
Visayas	2027	1	9	5	60	150	150	20
Visayas	2027	1	9	6	61	150	150	20
Visayas	2027	1	9	7	63	150	150	20
Visayas	2027	1	9	8	68	150	150	20
Visayas	2027	1	9	9	79	150	150	20
Visayas	2027	1	9	10	88	150	150	20
Visayas	2027	1	9	11	90	150	150	20
Visayas	2027	1	9	12	86	150	150	20
Visayas	2027	1	9	13	85	150	150	20
Visayas	2027	1	9	14	88	150	150	20
Visayas	2027	1	9	15	88	150	150	20
Visayas	2027	1	9	16	85	150	150	20
Visayas	2027	1	9	17	84	150	150	20
Visayas	2027	1	9	18	95	150	150	20
Visayas	2027	1	9	19	92	150	150	20
Visayas	2027	1	9	20	87	150	150	20
Visayas	2027	1	9	21	84	150	150	20
Visayas	2027	1	9	22	77	150	150	20
Visayas	2027	1	9	23	68	150	150	20
Visayas	2027	1	9	24	64	150	150	20
Visayas	2027	1	10	1	63	150	150	20
Visayas	2027	1	10	2	61	150	150	20
Visayas	2027	1	10	3	60	150	150	20
Visayas	2027	1	10	4	58	150	150	20
Visayas	2027	1	10	5	58	150	150	20
Visayas	2027	1	10	6	59	150	150	20
Visayas	2027	1	10	7	60	150	150	20
Visayas	2027	1	10	8	62	150	150	20
Visayas	2027	1	10	9	65	150	150	20
Visayas	2027	1	10	10	69	150	150	20
Visayas	2027	1	10	11	69	150	150	20
Visayas	2027	1	10	12	68	150	150	20
Visayas	2027	1	10	13	67	150	150	20
Visayas	2027	1	10	14	66	150	150	20
Visayas	2027	1	10	15	66	150	150	20
Visayas	2027	1	10	16	66	150	150	20
Visayas	2027	1	10	17	69	150	150	20
Visayas	2027	1	10	18	84	150	150	20
Visayas	2027	1	10	19	82	150	150	20
Visayas	2027	1	10	20	77	150	150	20
Visayas	2027	1	10	21	71	150	150	20
Visayas	2027	1	10	22	65	150	150	20
Visayas	2027	1	10	23	64	150	150	20
Visayas	2027	1	10	24	60	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	11	1	57	150	150	20
Visayas	2027	1	11	2	55	150	150	20
Visayas	2027	1	11	3	55	150	150	20
Visayas	2027	1	11	4	55	150	150	20
Visayas	2027	1	11	5	59	150	150	20
Visayas	2027	1	11	6	63	150	150	20
Visayas	2027	1	11	7	64	150	150	20
Visayas	2027	1	11	8	69	150	150	20
Visayas	2027	1	11	9	82	150	150	20
Visayas	2027	1	11	10	89	150	150	20
Visayas	2027	1	11	11	96	150	150	20
Visayas	2027	1	11	12	89	150	150	20
Visayas	2027	1	11	13	89	150	150	20
Visayas	2027	1	11	14	92	150	150	20
Visayas	2027	1	11	15	91	150	150	20
Visayas	2027	1	11	16	92	150	150	20
Visayas	2027	1	11	17	90	150	150	20
Visayas	2027	1	11	18	97	150	150	20
Visayas	2027	1	11	19	90	150	150	20
Visayas	2027	1	11	20	83	150	150	20
Visayas	2027	1	11	21	77	150	150	20
Visayas	2027	1	11	22	70	150	150	20
Visayas	2027	1	11	23	64	150	150	20
Visayas	2027	1	11	24	61	150	150	20
Visayas	2027	1	12	1	59	150	150	20
Visayas	2027	1	12	2	57	150	150	20
Visayas	2027	1	12	3	57	150	150	20
Visayas	2027	1	12	4	56	150	150	20
Visayas	2027	1	12	5	59	150	150	20
Visayas	2027	1	12	6	64	150	150	20
Visayas	2027	1	12	7	65	150	150	20
Visayas	2027	1	12	8	70	150	150	20
Visayas	2027	1	12	9	86	150	150	20
Visayas	2027	1	12	10	91	150	150	20
Visayas	2027	1	12	11	94	150	150	20
Visayas	2027	1	12	12	90	150	150	20
Visayas	2027	1	12	13	89	150	150	20
Visayas	2027	1	12	14	91	150	150	20
Visayas	2027	1	12	15	91	150	150	20
Visayas	2027	1	12	16	91	150	150	20
Visayas	2027	1	12	17	91	150	150	20
Visayas	2027	1	12	18	99	150	150	20
Visayas	2027	1	12	19	90	150	150	20
Visayas	2027	1	12	20	84	150	150	20
Visayas	2027	1	12	21	76	150	150	20
Visayas	2027	1	12	22	71	150	150	20
Visayas	2027	1	12	23	65	150	150	20
Visayas	2027	1	12	24	61	150	150	20
Visayas	2027	1	13	1	59	150	150	20
Visayas	2027	1	13	2	58	150	150	20
Visayas	2027	1	13	3	57	150	150	20
Visayas	2027	1	13	4	57	150	150	20
Visayas	2027	1	13	5	60	150	150	20
Visayas	2027	1	13	6	65	150	150	20
Visayas	2027	1	13	7	66	150	150	20
Visayas	2027	1	13	8	70	150	150	20
Visayas	2027	1	13	9	83	150	150	20
Visayas	2027	1	13	10	92	150	150	20
Visayas	2027	1	13	11	89	150	150	20
Visayas	2027	1	13	12	84	150	150	20
Visayas	2027	1	13	13	82	150	150	20
Visayas	2027	1	13	14	85	150	150	20
Visayas	2027	1	13	15	82	150	150	20
Visayas	2027	1	13	16	85	150	150	20
Visayas	2027	1	13	17	85	150	150	20
Visayas	2027	1	13	18	91	150	150	20
Visayas	2027	1	13	19	86	150	150	20
Visayas	2027	1	13	20	79	150	150	20
Visayas	2027	1	13	21	71	150	150	20
Visayas	2027	1	13	22	65	150	150	20
Visayas	2027	1	13	23	61	150	150	20
Visayas	2027	1	13	24	58	150	150	20
Visayas	2027	1	14	1	56	150	150	20
Visayas	2027	1	14	2	56	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	14	3	54	150	150	20
Visayas	2027	1	14	4	54	150	150	20
Visayas	2027	1	14	5	56	150	150	20
Visayas	2027	1	14	6	60	150	150	20
Visayas	2027	1	14	7	63	150	150	20
Visayas	2027	1	14	8	67	150	150	20
Visayas	2027	1	14	9	79	150	150	20
Visayas	2027	1	14	10	85	150	150	20
Visayas	2027	1	14	11	88	150	150	20
Visayas	2027	1	14	12	83	150	150	20
Visayas	2027	1	14	13	83	150	150	20
Visayas	2027	1	14	14	85	150	150	20
Visayas	2027	1	14	15	87	150	150	20
Visayas	2027	1	14	16	86	150	150	20
Visayas	2027	1	14	17	86	150	150	20
Visayas	2027	1	14	18	94	150	150	20
Visayas	2027	1	14	19	87	150	150	20
Visayas	2027	1	14	20	81	150	150	20
Visayas	2027	1	14	21	73	150	150	20
Visayas	2027	1	14	22	69	150	150	20
Visayas	2027	1	14	23	63	150	150	20
Visayas	2027	1	14	24	61	150	150	20
Visayas	2027	1	15	1	59	150	150	20
Visayas	2027	1	15	2	58	150	150	20
Visayas	2027	1	15	3	56	150	150	20
Visayas	2027	1	15	4	56	150	150	20
Visayas	2027	1	15	5	59	150	150	20
Visayas	2027	1	15	6	63	150	150	20
Visayas	2027	1	15	7	66	150	150	20
Visayas	2027	1	15	8	72	150	150	20
Visayas	2027	1	15	9	83	150	150	20
Visayas	2027	1	15	10	88	150	150	20
Visayas	2027	1	15	11	90	150	150	20
Visayas	2027	1	15	12	83	150	150	20
Visayas	2027	1	15	13	83	150	150	20
Visayas	2027	1	15	14	86	150	150	20
Visayas	2027	1	15	15	85	150	150	20
Visayas	2027	1	15	16	85	150	150	20
Visayas	2027	1	15	17	87	150	150	20
Visayas	2027	1	15	18	91	150	150	20
Visayas	2027	1	15	19	86	150	150	20
Visayas	2027	1	15	20	79	150	150	20
Visayas	2027	1	15	21	74	150	150	20
Visayas	2027	1	15	22	67	150	150	20
Visayas	2027	1	15	23	62	150	150	20
Visayas	2027	1	15	24	59	150	150	20
Visayas	2027	1	16	1	57	150	150	20
Visayas	2027	1	16	2	56	150	150	20
Visayas	2027	1	16	3	55	150	150	20
Visayas	2027	1	16	4	54	150	150	20
Visayas	2027	1	16	5	55	150	150	20
Visayas	2027	1	16	6	58	150	150	20
Visayas	2027	1	16	7	60	150	150	20
Visayas	2027	1	16	8	66	150	150	20
Visayas	2027	1	16	9	74	150	150	20
Visayas	2027	1	16	10	80	150	150	20
Visayas	2027	1	16	11	83	150	150	20
Visayas	2027	1	16	12	81	150	150	20
Visayas	2027	1	16	13	78	150	150	20
Visayas	2027	1	16	14	80	150	150	20
Visayas	2027	1	16	15	80	150	150	20
Visayas	2027	1	16	16	79	150	150	20
Visayas	2027	1	16	17	77	150	150	20
Visayas	2027	1	16	18	90	150	150	20
Visayas	2027	1	16	19	86	150	150	20
Visayas	2027	1	16	20	80	150	150	20
Visayas	2027	1	16	21	74	150	150	20
Visayas	2027	1	16	22	68	150	150	20
Visayas	2027	1	16	23	63	150	150	20
Visayas	2027	1	16	24	60	150	150	20
Visayas	2027	1	17	1	58	150	150	20
Visayas	2027	1	17	2	56	150	150	20
Visayas	2027	1	17	3	55	150	150	20
Visayas	2027	1	17	4	54	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	17	5	55	150	150	20
Visayas	2027	1	17	6	56	150	150	20
Visayas	2027	1	17	7	58	150	150	20
Visayas	2027	1	17	8	61	150	150	20
Visayas	2027	1	17	9	65	150	150	20
Visayas	2027	1	17	10	68	150	150	20
Visayas	2027	1	17	11	73	150	150	20
Visayas	2027	1	17	12	73	150	150	20
Visayas	2027	1	17	13	72	150	150	20
Visayas	2027	1	17	14	73	150	150	20
Visayas	2027	1	17	15	74	150	150	20
Visayas	2027	1	17	16	72	150	150	20
Visayas	2027	1	17	17	73	150	150	20
Visayas	2027	1	17	18	86	150	150	20
Visayas	2027	1	17	19	88	150	150	20
Visayas	2027	1	17	20	83	150	150	20
Visayas	2027	1	17	21	79	150	150	20
Visayas	2027	1	17	22	71	150	150	20
Visayas	2027	1	17	23	66	150	150	20
Visayas	2027	1	17	24	62	150	150	20
Visayas	2027	1	18	1	60	150	150	20
Visayas	2027	1	18	2	58	150	150	20
Visayas	2027	1	18	3	56	150	150	20
Visayas	2027	1	18	4	57	150	150	20
Visayas	2027	1	18	5	60	150	150	20
Visayas	2027	1	18	6	64	150	150	20
Visayas	2027	1	18	7	64	150	150	20
Visayas	2027	1	18	8	72	150	150	20
Visayas	2027	1	18	9	88	150	150	20
Visayas	2027	1	18	10	99	150	150	20
Visayas	2027	1	18	11	100	150	150	20
Visayas	2027	1	18	12	98	150	150	20
Visayas	2027	1	18	13	99	150	150	20
Visayas	2027	1	18	14	105	150	150	20
Visayas	2027	1	18	15	102	150	150	20
Visayas	2027	1	18	16	99	150	150	20
Visayas	2027	1	18	17	94	150	150	20
Visayas	2027	1	18	18	104	150	150	20
Visayas	2027	1	18	19	102	150	150	20
Visayas	2027	1	18	20	97	150	150	20
Visayas	2027	1	18	21	90	150	150	20
Visayas	2027	1	18	22	82	150	150	20
Visayas	2027	1	18	23	75	150	150	20
Visayas	2027	1	18	24	70	150	150	20
Visayas	2027	1	19	1	66	150	150	20
Visayas	2027	1	19	2	63	150	150	20
Visayas	2027	1	19	3	62	150	150	20
Visayas	2027	1	19	4	61	150	150	20
Visayas	2027	1	19	5	65	150	150	20
Visayas	2027	1	19	6	71	150	150	20
Visayas	2027	1	19	7	69	150	150	20
Visayas	2027	1	19	8	77	150	150	20
Visayas	2027	1	19	9	93	150	150	20
Visayas	2027	1	19	10	101	150	150	20
Visayas	2027	1	19	11	105	150	150	20
Visayas	2027	1	19	12	104	150	150	20
Visayas	2027	1	19	13	104	150	150	20
Visayas	2027	1	19	14	108	150	150	20
Visayas	2027	1	19	15	106	150	150	20
Visayas	2027	1	19	16	104	150	150	20
Visayas	2027	1	19	17	99	150	150	20
Visayas	2027	1	19	18	107	150	150	20
Visayas	2027	1	19	19	105	150	150	20
Visayas	2027	1	19	20	98	150	150	20
Visayas	2027	1	19	21	92	150	150	20
Visayas	2027	1	19	22	83	150	150	20
Visayas	2027	1	19	23	76	150	150	20
Visayas	2027	1	19	24	71	150	150	20
Visayas	2027	1	20	1	68	150	150	20
Visayas	2027	1	20	2	65	150	150	20
Visayas	2027	1	20	3	64	150	150	20
Visayas	2027	1	20	4	62	150	150	20
Visayas	2027	1	20	5	66	150	150	20
Visayas	2027	1	20	6	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	20	7	69	150	150	20
Visayas	2027	1	20	8	78	150	150	20
Visayas	2027	1	20	9	96	150	150	20
Visayas	2027	1	20	10	106	150	150	20
Visayas	2027	1	20	11	110	150	150	20
Visayas	2027	1	20	12	104	150	150	20
Visayas	2027	1	20	13	104	150	150	20
Visayas	2027	1	20	14	110	150	150	20
Visayas	2027	1	20	15	109	150	150	20
Visayas	2027	1	20	16	106	150	150	20
Visayas	2027	1	20	17	100	150	150	20
Visayas	2027	1	20	18	106	150	150	20
Visayas	2027	1	20	19	105	150	150	20
Visayas	2027	1	20	20	97	150	150	20
Visayas	2027	1	20	21	93	150	150	20
Visayas	2027	1	20	22	83	150	150	20
Visayas	2027	1	20	23	76	150	150	20
Visayas	2027	1	20	24	70	150	150	20
Visayas	2027	1	21	1	67	150	150	20
Visayas	2027	1	21	2	65	150	150	20
Visayas	2027	1	21	3	63	150	150	20
Visayas	2027	1	21	4	62	150	150	20
Visayas	2027	1	21	5	66	150	150	20
Visayas	2027	1	21	6	72	150	150	20
Visayas	2027	1	21	7	69	150	150	20
Visayas	2027	1	21	8	79	150	150	20
Visayas	2027	1	21	9	97	150	150	20
Visayas	2027	1	21	10	105	150	150	20
Visayas	2027	1	21	11	107	150	150	20
Visayas	2027	1	21	12	104	150	150	20
Visayas	2027	1	21	13	104	150	150	20
Visayas	2027	1	21	14	113	150	150	20
Visayas	2027	1	21	15	110	150	150	20
Visayas	2027	1	21	16	108	150	150	20
Visayas	2027	1	21	17	103	150	150	20
Visayas	2027	1	21	18	107	150	150	20
Visayas	2027	1	21	19	106	150	150	20
Visayas	2027	1	21	20	99	150	150	20
Visayas	2027	1	21	21	92	150	150	20
Visayas	2027	1	21	22	84	150	150	20
Visayas	2027	1	21	23	78	150	150	20
Visayas	2027	1	21	24	74	150	150	20
Visayas	2027	1	22	1	68	150	150	20
Visayas	2027	1	22	2	67	150	150	20
Visayas	2027	1	22	3	64	150	150	20
Visayas	2027	1	22	4	63	150	150	20
Visayas	2027	1	22	5	66	150	150	20
Visayas	2027	1	22	6	72	150	150	20
Visayas	2027	1	22	7	71	150	150	20
Visayas	2027	1	22	8	78	150	150	20
Visayas	2027	1	22	9	94	150	150	20
Visayas	2027	1	22	10	102	150	150	20
Visayas	2027	1	22	11	108	150	150	20
Visayas	2027	1	22	12	103	150	150	20
Visayas	2027	1	22	13	104	150	150	20
Visayas	2027	1	22	14	110	150	150	20
Visayas	2027	1	22	15	109	150	150	20
Visayas	2027	1	22	16	108	150	150	20
Visayas	2027	1	22	17	100	150	150	20
Visayas	2027	1	22	18	107	150	150	20
Visayas	2027	1	22	19	105	150	150	20
Visayas	2027	1	22	20	98	150	150	20
Visayas	2027	1	22	21	92	150	150	20
Visayas	2027	1	22	22	86	150	150	20
Visayas	2027	1	22	23	80	150	150	20
Visayas	2027	1	22	24	72	150	150	20
Visayas	2027	1	23	1	69	150	150	20
Visayas	2027	1	23	2	65	150	150	20
Visayas	2027	1	23	3	64	150	150	20
Visayas	2027	1	23	4	62	150	150	20
Visayas	2027	1	23	5	63	150	150	20
Visayas	2027	1	23	6	65	150	150	20
Visayas	2027	1	23	7	68	150	150	20
Visayas	2027	1	23	8	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	23	9	83	150	150	20
Visayas	2027	1	23	10	87	150	150	20
Visayas	2027	1	23	11	93	150	150	20
Visayas	2027	1	23	12	87	150	150	20
Visayas	2027	1	23	13	86	150	150	20
Visayas	2027	1	23	14	91	150	150	20
Visayas	2027	1	23	15	93	150	150	20
Visayas	2027	1	23	16	89	150	150	20
Visayas	2027	1	23	17	87	150	150	20
Visayas	2027	1	23	18	97	150	150	20
Visayas	2027	1	23	19	94	150	150	20
Visayas	2027	1	23	20	88	150	150	20
Visayas	2027	1	23	21	83	150	150	20
Visayas	2027	1	23	22	76	150	150	20
Visayas	2027	1	23	23	70	150	150	20
Visayas	2027	1	23	24	67	150	150	20
Visayas	2027	1	24	1	63	150	150	20
Visayas	2027	1	24	2	61	150	150	20
Visayas	2027	1	24	3	59	150	150	20
Visayas	2027	1	24	4	59	150	150	20
Visayas	2027	1	24	5	60	150	150	20
Visayas	2027	1	24	6	61	150	150	20
Visayas	2027	1	24	7	62	150	150	20
Visayas	2027	1	24	8	64	150	150	20
Visayas	2027	1	24	9	67	150	150	20
Visayas	2027	1	24	10	72	150	150	20
Visayas	2027	1	24	11	73	150	150	20
Visayas	2027	1	24	12	74	150	150	20
Visayas	2027	1	24	13	71	150	150	20
Visayas	2027	1	24	14	71	150	150	20
Visayas	2027	1	24	15	71	150	150	20
Visayas	2027	1	24	16	70	150	150	20
Visayas	2027	1	24	17	73	150	150	20
Visayas	2027	1	24	18	85	150	150	20
Visayas	2027	1	24	19	86	150	150	20
Visayas	2027	1	24	20	80	150	150	20
Visayas	2027	1	24	21	75	150	150	20
Visayas	2027	1	24	22	69	150	150	20
Visayas	2027	1	24	23	65	150	150	20
Visayas	2027	1	24	24	61	150	150	20
Visayas	2027	1	25	1	59	150	150	20
Visayas	2027	1	25	2	57	150	150	20
Visayas	2027	1	25	3	56	150	150	20
Visayas	2027	1	25	4	56	150	150	20
Visayas	2027	1	25	5	59	150	150	20
Visayas	2027	1	25	6	65	150	150	20
Visayas	2027	1	25	7	64	150	150	20
Visayas	2027	1	25	8	71	150	150	20
Visayas	2027	1	25	9	87	150	150	20
Visayas	2027	1	25	10	98	150	150	20
Visayas	2027	1	25	11	100	150	150	20
Visayas	2027	1	25	12	95	150	150	20
Visayas	2027	1	25	13	91	150	150	20
Visayas	2027	1	25	14	97	150	150	20
Visayas	2027	1	25	15	96	150	150	20
Visayas	2027	1	25	16	95	150	150	20
Visayas	2027	1	25	17	96	150	150	20
Visayas	2027	1	25	18	99	150	150	20
Visayas	2027	1	25	19	96	150	150	20
Visayas	2027	1	25	20	88	150	150	20
Visayas	2027	1	25	21	81	150	150	20
Visayas	2027	1	25	22	73	150	150	20
Visayas	2027	1	25	23	70	150	150	20
Visayas	2027	1	25	24	66	150	150	20
Visayas	2027	1	26	1	62	150	150	20
Visayas	2027	1	26	2	59	150	150	20
Visayas	2027	1	26	3	58	150	150	20
Visayas	2027	1	26	4	59	150	150	20
Visayas	2027	1	26	5	61	150	150	20
Visayas	2027	1	26	6	67	150	150	20
Visayas	2027	1	26	7	66	150	150	20
Visayas	2027	1	26	8	73	150	150	20
Visayas	2027	1	26	9	89	150	150	20
Visayas	2027	1	26	10	95	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	26	11	99	150	150	20
Visayas	2027	1	26	12	93	150	150	20
Visayas	2027	1	26	13	93	150	150	20
Visayas	2027	1	26	14	99	150	150	20
Visayas	2027	1	26	15	102	150	150	20
Visayas	2027	1	26	16	97	150	150	20
Visayas	2027	1	26	17	92	150	150	20
Visayas	2027	1	26	18	99	150	150	20
Visayas	2027	1	26	19	98	150	150	20
Visayas	2027	1	26	20	90	150	150	20
Visayas	2027	1	26	21	84	150	150	20
Visayas	2027	1	26	22	76	150	150	20
Visayas	2027	1	26	23	68	150	150	20
Visayas	2027	1	26	24	64	150	150	20
Visayas	2027	1	27	1	62	150	150	20
Visayas	2027	1	27	2	61	150	150	20
Visayas	2027	1	27	3	58	150	150	20
Visayas	2027	1	27	4	58	150	150	20
Visayas	2027	1	27	5	62	150	150	20
Visayas	2027	1	27	6	67	150	150	20
Visayas	2027	1	27	7	65	150	150	20
Visayas	2027	1	27	8	73	150	150	20
Visayas	2027	1	27	9	89	150	150	20
Visayas	2027	1	27	10	96	150	150	20
Visayas	2027	1	27	11	98	150	150	20
Visayas	2027	1	27	12	94	150	150	20
Visayas	2027	1	27	13	93	150	150	20
Visayas	2027	1	27	14	100	150	150	20
Visayas	2027	1	27	15	102	150	150	20
Visayas	2027	1	27	16	99	150	150	20
Visayas	2027	1	27	17	94	150	150	20
Visayas	2027	1	27	18	99	150	150	20
Visayas	2027	1	27	19	101	150	150	20
Visayas	2027	1	27	20	93	150	150	20
Visayas	2027	1	27	21	84	150	150	20
Visayas	2027	1	27	22	78	150	150	20
Visayas	2027	1	27	23	69	150	150	20
Visayas	2027	1	27	24	66	150	150	20
Visayas	2027	1	28	1	63	150	150	20
Visayas	2027	1	28	2	61	150	150	20
Visayas	2027	1	28	3	60	150	150	20
Visayas	2027	1	28	4	59	150	150	20
Visayas	2027	1	28	5	62	150	150	20
Visayas	2027	1	28	6	68	150	150	20
Visayas	2027	1	28	7	68	150	150	20
Visayas	2027	1	28	8	74	150	150	20
Visayas	2027	1	28	9	84	150	150	20
Visayas	2027	1	28	10	93	150	150	20
Visayas	2027	1	28	11	94	150	150	20
Visayas	2027	1	28	12	89	150	150	20
Visayas	2027	1	28	13	88	150	150	20
Visayas	2027	1	28	14	93	150	150	20
Visayas	2027	1	28	15	93	150	150	20
Visayas	2027	1	28	16	92	150	150	20
Visayas	2027	1	28	17	92	150	150	20
Visayas	2027	1	28	18	96	150	150	20
Visayas	2027	1	28	19	94	150	150	20
Visayas	2027	1	28	20	85	150	150	20
Visayas	2027	1	28	21	79	150	150	20
Visayas	2027	1	28	22	71	150	150	20
Visayas	2027	1	28	23	65	150	150	20
Visayas	2027	1	28	24	62	150	150	20
Visayas	2027	1	29	1	62	150	150	20
Visayas	2027	1	29	2	59	150	150	20
Visayas	2027	1	29	3	58	150	150	20
Visayas	2027	1	29	4	58	150	150	20
Visayas	2027	1	29	5	61	150	150	20
Visayas	2027	1	29	6	67	150	150	20
Visayas	2027	1	29	7	66	150	150	20
Visayas	2027	1	29	8	75	150	150	20
Visayas	2027	1	29	9	88	150	150	20
Visayas	2027	1	29	10	95	150	150	20
Visayas	2027	1	29	11	98	150	150	20
Visayas	2027	1	29	12	96	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	1	29	13	96	150	150	20
Visayas	2027	1	29	14	102	150	150	20
Visayas	2027	1	29	15	102	150	150	20
Visayas	2027	1	29	16	100	150	150	20
Visayas	2027	1	29	17	97	150	150	20
Visayas	2027	1	29	18	103	150	150	20
Visayas	2027	1	29	19	101	150	150	20
Visayas	2027	1	29	20	93	150	150	20
Visayas	2027	1	29	21	87	150	150	20
Visayas	2027	1	29	22	80	150	150	20
Visayas	2027	1	29	23	73	150	150	20
Visayas	2027	1	29	24	68	150	150	20
Visayas	2027	1	30	1	66	150	150	20
Visayas	2027	1	30	2	63	150	150	20
Visayas	2027	1	30	3	62	150	150	20
Visayas	2027	1	30	4	60	150	150	20
Visayas	2027	1	30	5	61	150	150	20
Visayas	2027	1	30	6	62	150	150	20
Visayas	2027	1	30	7	64	150	150	20
Visayas	2027	1	30	8	70	150	150	20
Visayas	2027	1	30	9	82	150	150	20
Visayas	2027	1	30	10	87	150	150	20
Visayas	2027	1	30	11	91	150	150	20
Visayas	2027	1	30	12	87	150	150	20
Visayas	2027	1	30	13	87	150	150	20
Visayas	2027	1	30	14	90	150	150	20
Visayas	2027	1	30	15	88	150	150	20
Visayas	2027	1	30	16	88	150	150	20
Visayas	2027	1	30	17	88	150	150	20
Visayas	2027	1	30	18	93	150	150	20
Visayas	2027	1	30	19	93	150	150	20
Visayas	2027	1	30	20	86	150	150	20
Visayas	2027	1	30	21	81	150	150	20
Visayas	2027	1	30	22	72	150	150	20
Visayas	2027	1	30	23	66	150	150	20
Visayas	2027	1	30	24	63	150	150	20
Visayas	2027	1	31	1	61	150	150	20
Visayas	2027	1	31	2	59	150	150	20
Visayas	2027	1	31	3	57	150	150	20
Visayas	2027	1	31	4	57	150	150	20
Visayas	2027	1	31	5	53	150	150	20
Visayas	2027	1	31	6	54	150	150	20
Visayas	2027	1	31	7	55	150	150	20
Visayas	2027	1	31	8	57	150	150	20
Visayas	2027	1	31	9	61	150	150	20
Visayas	2027	1	31	10	64	150	150	20
Visayas	2027	1	31	11	66	150	150	20
Visayas	2027	1	31	12	65	150	150	20
Visayas	2027	1	31	13	64	150	150	20
Visayas	2027	1	31	14	65	150	150	20
Visayas	2027	1	31	15	65	150	150	20
Visayas	2027	1	31	16	65	150	150	20
Visayas	2027	1	31	17	69	150	150	20
Visayas	2027	1	31	18	83	150	150	20
Visayas	2027	1	31	19	84	150	150	20
Visayas	2027	1	31	20	79	150	150	20
Visayas	2027	1	31	21	74	150	150	20
Visayas	2027	1	31	22	67	150	150	20
Visayas	2027	1	31	23	63	150	150	20
Visayas	2027	1	31	24	59	150	150	20
Visayas	2027	2	1	1	57	150	150	20
Visayas	2027	2	1	2	55	150	150	20
Visayas	2027	2	1	3	54	150	150	20
Visayas	2027	2	1	4	54	150	150	20
Visayas	2027	2	1	5	57	150	150	20
Visayas	2027	2	1	6	62	150	150	20
Visayas	2027	2	1	7	65	150	150	20
Visayas	2027	2	1	8	69	150	150	20
Visayas	2027	2	1	9	84	150	150	20
Visayas	2027	2	1	10	91	150	150	20
Visayas	2027	2	1	11	96	150	150	20
Visayas	2027	2	1	12	92	150	150	20
Visayas	2027	2	1	13	91	150	150	20
Visayas	2027	2	1	14	98	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	1	15	95	150	150	20
Visayas	2027	2	1	16	94	150	150	20
Visayas	2027	2	1	17	92	150	150	20
Visayas	2027	2	1	18	99	150	150	20
Visayas	2027	2	1	19	95	150	150	20
Visayas	2027	2	1	20	88	150	150	20
Visayas	2027	2	1	21	81	150	150	20
Visayas	2027	2	1	22	73	150	150	20
Visayas	2027	2	1	23	67	150	150	20
Visayas	2027	2	1	24	63	150	150	20
Visayas	2027	2	2	1	61	150	150	20
Visayas	2027	2	2	2	59	150	150	20
Visayas	2027	2	2	3	58	150	150	20
Visayas	2027	2	2	4	57	150	150	20
Visayas	2027	2	2	5	61	150	150	20
Visayas	2027	2	2	6	66	150	150	20
Visayas	2027	2	2	7	64	150	150	20
Visayas	2027	2	2	8	74	150	150	20
Visayas	2027	2	2	9	90	150	150	20
Visayas	2027	2	2	10	99	150	150	20
Visayas	2027	2	2	11	103	150	150	20
Visayas	2027	2	2	12	99	150	150	20
Visayas	2027	2	2	13	102	150	150	20
Visayas	2027	2	2	14	105	150	150	20
Visayas	2027	2	2	15	102	150	150	20
Visayas	2027	2	2	16	101	150	150	20
Visayas	2027	2	2	17	96	150	150	20
Visayas	2027	2	2	18	101	150	150	20
Visayas	2027	2	2	19	101	150	150	20
Visayas	2027	2	2	20	92	150	150	20
Visayas	2027	2	2	21	85	150	150	20
Visayas	2027	2	2	22	77	150	150	20
Visayas	2027	2	2	23	70	150	150	20
Visayas	2027	2	2	24	66	150	150	20
Visayas	2027	2	3	1	63	150	150	20
Visayas	2027	2	3	2	61	150	150	20
Visayas	2027	2	3	3	59	150	150	20
Visayas	2027	2	3	4	59	150	150	20
Visayas	2027	2	3	5	61	150	150	20
Visayas	2027	2	3	6	66	150	150	20
Visayas	2027	2	3	7	66	150	150	20
Visayas	2027	2	3	8	71	150	150	20
Visayas	2027	2	3	9	87	150	150	20
Visayas	2027	2	3	10	93	150	150	20
Visayas	2027	2	3	11	98	150	150	20
Visayas	2027	2	3	12	95	150	150	20
Visayas	2027	2	3	13	97	150	150	20
Visayas	2027	2	3	14	104	150	150	20
Visayas	2027	2	3	15	103	150	150	20
Visayas	2027	2	3	16	102	150	150	20
Visayas	2027	2	3	17	96	150	150	20
Visayas	2027	2	3	18	100	150	150	20
Visayas	2027	2	3	19	102	150	150	20
Visayas	2027	2	3	20	96	150	150	20
Visayas	2027	2	3	21	89	150	150	20
Visayas	2027	2	3	22	81	150	150	20
Visayas	2027	2	3	23	73	150	150	20
Visayas	2027	2	3	24	68	150	150	20
Visayas	2027	2	4	1	66	150	150	20
Visayas	2027	2	4	2	63	150	150	20
Visayas	2027	2	4	3	61	150	150	20
Visayas	2027	2	4	4	60	150	150	20
Visayas	2027	2	4	5	63	150	150	20
Visayas	2027	2	4	6	69	150	150	20
Visayas	2027	2	4	7	66	150	150	20
Visayas	2027	2	4	8	77	150	150	20
Visayas	2027	2	4	9	94	150	150	20
Visayas	2027	2	4	10	103	150	150	20
Visayas	2027	2	4	11	107	150	150	20
Visayas	2027	2	4	12	101	150	150	20
Visayas	2027	2	4	13	103	150	150	20
Visayas	2027	2	4	14	108	150	150	20
Visayas	2027	2	4	15	109	150	150	20
Visayas	2027	2	4	16	106	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	4	17	100	150	150	20
Visayas	2027	2	4	18	102	150	150	20
Visayas	2027	2	4	19	104	150	150	20
Visayas	2027	2	4	20	99	150	150	20
Visayas	2027	2	4	21	91	150	150	20
Visayas	2027	2	4	22	84	150	150	20
Visayas	2027	2	4	23	79	150	150	20
Visayas	2027	2	4	24	72	150	150	20
Visayas	2027	2	5	1	66	150	150	20
Visayas	2027	2	5	2	65	150	150	20
Visayas	2027	2	5	3	63	150	150	20
Visayas	2027	2	5	4	62	150	150	20
Visayas	2027	2	5	5	64	150	150	20
Visayas	2027	2	5	6	70	150	150	20
Visayas	2027	2	5	7	69	150	150	20
Visayas	2027	2	5	8	76	150	150	20
Visayas	2027	2	5	9	93	150	150	20
Visayas	2027	2	5	10	102	150	150	20
Visayas	2027	2	5	11	106	150	150	20
Visayas	2027	2	5	12	100	150	150	20
Visayas	2027	2	5	13	102	150	150	20
Visayas	2027	2	5	14	108	150	150	20
Visayas	2027	2	5	15	107	150	150	20
Visayas	2027	2	5	16	106	150	150	20
Visayas	2027	2	5	17	98	150	150	20
Visayas	2027	2	5	18	102	150	150	20
Visayas	2027	2	5	19	101	150	150	20
Visayas	2027	2	5	20	95	150	150	20
Visayas	2027	2	5	21	91	150	150	20
Visayas	2027	2	5	22	83	150	150	20
Visayas	2027	2	5	23	76	150	150	20
Visayas	2027	2	5	24	70	150	150	20
Visayas	2027	2	6	1	67	150	150	20
Visayas	2027	2	6	2	64	150	150	20
Visayas	2027	2	6	3	62	150	150	20
Visayas	2027	2	6	4	61	150	150	20
Visayas	2027	2	6	5	61	150	150	20
Visayas	2027	2	6	6	62	150	150	20
Visayas	2027	2	6	7	64	150	150	20
Visayas	2027	2	6	8	68	150	150	20
Visayas	2027	2	6	9	78	150	150	20
Visayas	2027	2	6	10	85	150	150	20
Visayas	2027	2	6	11	90	150	150	20
Visayas	2027	2	6	12	87	150	150	20
Visayas	2027	2	6	13	86	150	150	20
Visayas	2027	2	6	14	88	150	150	20
Visayas	2027	2	6	15	87	150	150	20
Visayas	2027	2	6	16	86	150	150	20
Visayas	2027	2	6	17	84	150	150	20
Visayas	2027	2	6	18	91	150	150	20
Visayas	2027	2	6	19	94	150	150	20
Visayas	2027	2	6	20	87	150	150	20
Visayas	2027	2	6	21	83	150	150	20
Visayas	2027	2	6	22	74	150	150	20
Visayas	2027	2	6	23	68	150	150	20
Visayas	2027	2	6	24	64	150	150	20
Visayas	2027	2	7	1	61	150	150	20
Visayas	2027	2	7	2	60	150	150	20
Visayas	2027	2	7	3	58	150	150	20
Visayas	2027	2	7	4	58	150	150	20
Visayas	2027	2	7	5	57	150	150	20
Visayas	2027	2	7	6	58	150	150	20
Visayas	2027	2	7	7	60	150	150	20
Visayas	2027	2	7	8	63	150	150	20
Visayas	2027	2	7	9	69	150	150	20
Visayas	2027	2	7	10	73	150	150	20
Visayas	2027	2	7	11	79	150	150	20
Visayas	2027	2	7	12	78	150	150	20
Visayas	2027	2	7	13	77	150	150	20
Visayas	2027	2	7	14	80	150	150	20
Visayas	2027	2	7	15	78	150	150	20
Visayas	2027	2	7	16	77	150	150	20
Visayas	2027	2	7	17	77	150	150	20
Visayas	2027	2	7	18	90	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	7	19	93	150	150	20
Visayas	2027	2	7	20	86	150	150	20
Visayas	2027	2	7	21	81	150	150	20
Visayas	2027	2	7	22	74	150	150	20
Visayas	2027	2	7	23	68	150	150	20
Visayas	2027	2	7	24	63	150	150	20
Visayas	2027	2	8	1	60	150	150	20
Visayas	2027	2	8	2	58	150	150	20
Visayas	2027	2	8	3	57	150	150	20
Visayas	2027	2	8	4	57	150	150	20
Visayas	2027	2	8	5	59	150	150	20
Visayas	2027	2	8	6	63	150	150	20
Visayas	2027	2	8	7	66	150	150	20
Visayas	2027	2	8	8	74	150	150	20
Visayas	2027	2	8	9	92	150	150	20
Visayas	2027	2	8	10	100	150	150	20
Visayas	2027	2	8	11	108	150	150	20
Visayas	2027	2	8	12	101	150	150	20
Visayas	2027	2	8	13	102	150	150	20
Visayas	2027	2	8	14	112	150	150	20
Visayas	2027	2	8	15	111	150	150	20
Visayas	2027	2	8	16	109	150	150	20
Visayas	2027	2	8	17	100	150	150	20
Visayas	2027	2	8	18	102	150	150	20
Visayas	2027	2	8	19	104	150	150	20
Visayas	2027	2	8	20	97	150	150	20
Visayas	2027	2	8	21	91	150	150	20
Visayas	2027	2	8	22	83	150	150	20
Visayas	2027	2	8	23	76	150	150	20
Visayas	2027	2	8	24	71	150	150	20
Visayas	2027	2	9	1	68	150	150	20
Visayas	2027	2	9	2	65	150	150	20
Visayas	2027	2	9	3	63	150	150	20
Visayas	2027	2	9	4	63	150	150	20
Visayas	2027	2	9	5	64	150	150	20
Visayas	2027	2	9	6	68	150	150	20
Visayas	2027	2	9	7	70	150	150	20
Visayas	2027	2	9	8	79	150	150	20
Visayas	2027	2	9	9	96	150	150	20
Visayas	2027	2	9	10	102	150	150	20
Visayas	2027	2	9	11	110	150	150	20
Visayas	2027	2	9	12	104	150	150	20
Visayas	2027	2	9	13	104	150	150	20
Visayas	2027	2	9	14	112	150	150	20
Visayas	2027	2	9	15	109	150	150	20
Visayas	2027	2	9	16	107	150	150	20
Visayas	2027	2	9	17	102	150	150	20
Visayas	2027	2	9	18	104	150	150	20
Visayas	2027	2	9	19	106	150	150	20
Visayas	2027	2	9	20	99	150	150	20
Visayas	2027	2	9	21	92	150	150	20
Visayas	2027	2	9	22	84	150	150	20
Visayas	2027	2	9	23	77	150	150	20
Visayas	2027	2	9	24	71	150	150	20
Visayas	2027	2	10	1	67	150	150	20
Visayas	2027	2	10	2	64	150	150	20
Visayas	2027	2	10	3	62	150	150	20
Visayas	2027	2	10	4	61	150	150	20
Visayas	2027	2	10	5	64	150	150	20
Visayas	2027	2	10	6	68	150	150	20
Visayas	2027	2	10	7	70	150	150	20
Visayas	2027	2	10	8	71	150	150	20
Visayas	2027	2	10	9	92	150	150	20
Visayas	2027	2	10	10	100	150	150	20
Visayas	2027	2	10	11	106	150	150	20
Visayas	2027	2	10	12	102	150	150	20
Visayas	2027	2	10	13	105	150	150	20
Visayas	2027	2	10	14	111	150	150	20
Visayas	2027	2	10	15	110	150	150	20
Visayas	2027	2	10	16	108	150	150	20
Visayas	2027	2	10	17	100	150	150	20
Visayas	2027	2	10	18	104	150	150	20
Visayas	2027	2	10	19	106	150	150	20
Visayas	2027	2	10	20	98	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	10	21	93	150	150	20
Visayas	2027	2	10	22	85	150	150	20
Visayas	2027	2	10	23	78	150	150	20
Visayas	2027	2	10	24	72	150	150	20
Visayas	2027	2	11	1	68	150	150	20
Visayas	2027	2	11	2	66	150	150	20
Visayas	2027	2	11	3	63	150	150	20
Visayas	2027	2	11	4	63	150	150	20
Visayas	2027	2	11	5	65	150	150	20
Visayas	2027	2	11	6	69	150	150	20
Visayas	2027	2	11	7	70	150	150	20
Visayas	2027	2	11	8	79	150	150	20
Visayas	2027	2	11	9	94	150	150	20
Visayas	2027	2	11	10	103	150	150	20
Visayas	2027	2	11	11	105	150	150	20
Visayas	2027	2	11	12	101	150	150	20
Visayas	2027	2	11	13	101	150	150	20
Visayas	2027	2	11	14	108	150	150	20
Visayas	2027	2	11	15	107	150	150	20
Visayas	2027	2	11	16	105	150	150	20
Visayas	2027	2	11	17	101	150	150	20
Visayas	2027	2	11	18	103	150	150	20
Visayas	2027	2	11	19	103	150	150	20
Visayas	2027	2	11	20	95	150	150	20
Visayas	2027	2	11	21	89	150	150	20
Visayas	2027	2	11	22	82	150	150	20
Visayas	2027	2	11	23	74	150	150	20
Visayas	2027	2	11	24	69	150	150	20
Visayas	2027	2	12	1	66	150	150	20
Visayas	2027	2	12	2	64	150	150	20
Visayas	2027	2	12	3	63	150	150	20
Visayas	2027	2	12	4	62	150	150	20
Visayas	2027	2	12	5	63	150	150	20
Visayas	2027	2	12	6	67	150	150	20
Visayas	2027	2	12	7	71	150	150	20
Visayas	2027	2	12	8	81	150	150	20
Visayas	2027	2	12	9	96	150	150	20
Visayas	2027	2	12	10	103	150	150	20
Visayas	2027	2	12	11	106	150	150	20
Visayas	2027	2	12	12	104	150	150	20
Visayas	2027	2	12	13	103	150	150	20
Visayas	2027	2	12	14	111	150	150	20
Visayas	2027	2	12	15	110	150	150	20
Visayas	2027	2	12	16	106	150	150	20
Visayas	2027	2	12	17	99	150	150	20
Visayas	2027	2	12	18	101	150	150	20
Visayas	2027	2	12	19	106	150	150	20
Visayas	2027	2	12	20	99	150	150	20
Visayas	2027	2	12	21	92	150	150	20
Visayas	2027	2	12	22	85	150	150	20
Visayas	2027	2	12	23	79	150	150	20
Visayas	2027	2	12	24	73	150	150	20
Visayas	2027	2	13	1	68	150	150	20
Visayas	2027	2	13	2	65	150	150	20
Visayas	2027	2	13	3	63	150	150	20
Visayas	2027	2	13	4	62	150	150	20
Visayas	2027	2	13	5	63	150	150	20
Visayas	2027	2	13	6	66	150	150	20
Visayas	2027	2	13	7	68	150	150	20
Visayas	2027	2	13	8	74	150	150	20
Visayas	2027	2	13	9	86	150	150	20
Visayas	2027	2	13	10	90	150	150	20
Visayas	2027	2	13	11	95	150	150	20
Visayas	2027	2	13	12	92	150	150	20
Visayas	2027	2	13	13	94	150	150	20
Visayas	2027	2	13	14	97	150	150	20
Visayas	2027	2	13	15	96	150	150	20
Visayas	2027	2	13	16	97	150	150	20
Visayas	2027	2	13	17	92	150	150	20
Visayas	2027	2	13	18	97	150	150	20
Visayas	2027	2	13	19	102	150	150	20
Visayas	2027	2	13	20	97	150	150	20
Visayas	2027	2	13	21	92	150	150	20
Visayas	2027	2	13	22	86	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	13	23	79	150	150	20
Visayas	2027	2	13	24	73	150	150	20
Visayas	2027	2	14	1	70	150	150	20
Visayas	2027	2	14	2	66	150	150	20
Visayas	2027	2	14	3	64	150	150	20
Visayas	2027	2	14	4	63	150	150	20
Visayas	2027	2	14	5	63	150	150	20
Visayas	2027	2	14	6	64	150	150	20
Visayas	2027	2	14	7	60	150	150	20
Visayas	2027	2	14	8	63	150	150	20
Visayas	2027	2	14	9	68	150	150	20
Visayas	2027	2	14	10	72	150	150	20
Visayas	2027	2	14	11	78	150	150	20
Visayas	2027	2	14	12	76	150	150	20
Visayas	2027	2	14	13	76	150	150	20
Visayas	2027	2	14	14	77	150	150	20
Visayas	2027	2	14	15	78	150	150	20
Visayas	2027	2	14	16	76	150	150	20
Visayas	2027	2	14	17	77	150	150	20
Visayas	2027	2	14	18	89	150	150	20
Visayas	2027	2	14	19	98	150	150	20
Visayas	2027	2	14	20	95	150	150	20
Visayas	2027	2	14	21	89	150	150	20
Visayas	2027	2	14	22	83	150	150	20
Visayas	2027	2	14	23	74	150	150	20
Visayas	2027	2	14	24	70	150	150	20
Visayas	2027	2	15	1	66	150	150	20
Visayas	2027	2	15	2	63	150	150	20
Visayas	2027	2	15	3	61	150	150	20
Visayas	2027	2	15	4	61	150	150	20
Visayas	2027	2	15	5	65	150	150	20
Visayas	2027	2	15	6	72	150	150	20
Visayas	2027	2	15	7	68	150	150	20
Visayas	2027	2	15	8	77	150	150	20
Visayas	2027	2	15	9	93	150	150	20
Visayas	2027	2	15	10	103	150	150	20
Visayas	2027	2	15	11	107	150	150	20
Visayas	2027	2	15	12	101	150	150	20
Visayas	2027	2	15	13	101	150	150	20
Visayas	2027	2	15	14	105	150	150	20
Visayas	2027	2	15	15	103	150	150	20
Visayas	2027	2	15	16	102	150	150	20
Visayas	2027	2	15	17	101	150	150	20
Visayas	2027	2	15	18	104	150	150	20
Visayas	2027	2	15	19	101	150	150	20
Visayas	2027	2	15	20	95	150	150	20
Visayas	2027	2	15	21	89	150	150	20
Visayas	2027	2	15	22	81	150	150	20
Visayas	2027	2	15	23	75	150	150	20
Visayas	2027	2	15	24	70	150	150	20
Visayas	2027	2	16	1	67	150	150	20
Visayas	2027	2	16	2	64	150	150	20
Visayas	2027	2	16	3	64	150	150	20
Visayas	2027	2	16	4	63	150	150	20
Visayas	2027	2	16	5	67	150	150	20
Visayas	2027	2	16	6	73	150	150	20
Visayas	2027	2	16	7	72	150	150	20
Visayas	2027	2	16	8	79	150	150	20
Visayas	2027	2	16	9	93	150	150	20
Visayas	2027	2	16	10	98	150	150	20
Visayas	2027	2	16	11	102	150	150	20
Visayas	2027	2	16	12	97	150	150	20
Visayas	2027	2	16	13	94	150	150	20
Visayas	2027	2	16	14	98	150	150	20
Visayas	2027	2	16	15	95	150	150	20
Visayas	2027	2	16	16	96	150	150	20
Visayas	2027	2	16	17	95	150	150	20
Visayas	2027	2	16	18	98	150	150	20
Visayas	2027	2	16	19	95	150	150	20
Visayas	2027	2	16	20	89	150	150	20
Visayas	2027	2	16	21	83	150	150	20
Visayas	2027	2	16	22	74	150	150	20
Visayas	2027	2	16	23	67	150	150	20
Visayas	2027	2	16	24	64	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	17	1	62	150	150	20
Visayas	2027	2	17	2	60	150	150	20
Visayas	2027	2	17	3	58	150	150	20
Visayas	2027	2	17	4	58	150	150	20
Visayas	2027	2	17	5	61	150	150	20
Visayas	2027	2	17	6	68	150	150	20
Visayas	2027	2	17	7	66	150	150	20
Visayas	2027	2	17	8	72	150	150	20
Visayas	2027	2	17	9	89	150	150	20
Visayas	2027	2	17	10	95	150	150	20
Visayas	2027	2	17	11	97	150	150	20
Visayas	2027	2	17	12	91	150	150	20
Visayas	2027	2	17	13	91	150	150	20
Visayas	2027	2	17	14	98	150	150	20
Visayas	2027	2	17	15	95	150	150	20
Visayas	2027	2	17	16	94	150	150	20
Visayas	2027	2	17	17	89	150	150	20
Visayas	2027	2	17	18	94	150	150	20
Visayas	2027	2	17	19	97	150	150	20
Visayas	2027	2	17	20	89	150	150	20
Visayas	2027	2	17	21	82	150	150	20
Visayas	2027	2	17	22	75	150	150	20
Visayas	2027	2	17	23	67	150	150	20
Visayas	2027	2	17	24	63	150	150	20
Visayas	2027	2	18	1	65	150	150	20
Visayas	2027	2	18	2	60	150	150	20
Visayas	2027	2	18	3	58	150	150	20
Visayas	2027	2	18	4	58	150	150	20
Visayas	2027	2	18	5	62	150	150	20
Visayas	2027	2	18	6	68	150	150	20
Visayas	2027	2	18	7	66	150	150	20
Visayas	2027	2	18	8	73	150	150	20
Visayas	2027	2	18	9	91	150	150	20
Visayas	2027	2	18	10	95	150	150	20
Visayas	2027	2	18	11	95	150	150	20
Visayas	2027	2	18	12	89	150	150	20
Visayas	2027	2	18	13	87	150	150	20
Visayas	2027	2	18	14	93	150	150	20
Visayas	2027	2	18	15	92	150	150	20
Visayas	2027	2	18	16	90	150	150	20
Visayas	2027	2	18	17	89	150	150	20
Visayas	2027	2	18	18	94	150	150	20
Visayas	2027	2	18	19	95	150	150	20
Visayas	2027	2	18	20	86	150	150	20
Visayas	2027	2	18	21	79	150	150	20
Visayas	2027	2	18	22	70	150	150	20
Visayas	2027	2	18	23	64	150	150	20
Visayas	2027	2	18	24	61	150	150	20
Visayas	2027	2	19	1	59	150	150	20
Visayas	2027	2	19	2	57	150	150	20
Visayas	2027	2	19	3	56	150	150	20
Visayas	2027	2	19	4	55	150	150	20
Visayas	2027	2	19	5	59	150	150	20
Visayas	2027	2	19	6	63	150	150	20
Visayas	2027	2	19	7	63	150	150	20
Visayas	2027	2	19	8	69	150	150	20
Visayas	2027	2	19	9	82	150	150	20
Visayas	2027	2	19	10	91	150	150	20
Visayas	2027	2	19	11	93	150	150	20
Visayas	2027	2	19	12	89	150	150	20
Visayas	2027	2	19	13	89	150	150	20
Visayas	2027	2	19	14	94	150	150	20
Visayas	2027	2	19	15	93	150	150	20
Visayas	2027	2	19	16	93	150	150	20
Visayas	2027	2	19	17	89	150	150	20
Visayas	2027	2	19	18	95	150	150	20
Visayas	2027	2	19	19	94	150	150	20
Visayas	2027	2	19	20	87	150	150	20
Visayas	2027	2	19	21	83	150	150	20
Visayas	2027	2	19	22	75	150	150	20
Visayas	2027	2	19	23	67	150	150	20
Visayas	2027	2	19	24	65	150	150	20
Visayas	2027	2	20	1	61	150	150	20
Visayas	2027	2	20	2	60	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	20	3	59	150	150	20
Visayas	2027	2	20	4	58	150	150	20
Visayas	2027	2	20	5	60	150	150	20
Visayas	2027	2	20	6	62	150	150	20
Visayas	2027	2	20	7	59	150	150	20
Visayas	2027	2	20	8	64	150	150	20
Visayas	2027	2	20	9	71	150	150	20
Visayas	2027	2	20	10	74	150	150	20
Visayas	2027	2	20	11	77	150	150	20
Visayas	2027	2	20	12	72	150	150	20
Visayas	2027	2	20	13	70	150	150	20
Visayas	2027	2	20	14	72	150	150	20
Visayas	2027	2	20	15	74	150	150	20
Visayas	2027	2	20	16	73	150	150	20
Visayas	2027	2	20	17	78	150	150	20
Visayas	2027	2	20	18	87	150	150	20
Visayas	2027	2	20	19	84	150	150	20
Visayas	2027	2	20	20	81	150	150	20
Visayas	2027	2	20	21	73	150	150	20
Visayas	2027	2	20	22	66	150	150	20
Visayas	2027	2	20	23	61	150	150	20
Visayas	2027	2	20	24	59	150	150	20
Visayas	2027	2	21	1	57	150	150	20
Visayas	2027	2	21	2	56	150	150	20
Visayas	2027	2	21	3	55	150	150	20
Visayas	2027	2	21	4	55	150	150	20
Visayas	2027	2	21	5	53	150	150	20
Visayas	2027	2	21	6	55	150	150	20
Visayas	2027	2	21	7	56	150	150	20
Visayas	2027	2	21	8	60	150	150	20
Visayas	2027	2	21	9	65	150	150	20
Visayas	2027	2	21	10	68	150	150	20
Visayas	2027	2	21	11	71	150	150	20
Visayas	2027	2	21	12	71	150	150	20
Visayas	2027	2	21	13	70	150	150	20
Visayas	2027	2	21	14	70	150	150	20
Visayas	2027	2	21	15	69	150	150	20
Visayas	2027	2	21	16	69	150	150	20
Visayas	2027	2	21	17	72	150	150	20
Visayas	2027	2	21	18	86	150	150	20
Visayas	2027	2	21	19	90	150	150	20
Visayas	2027	2	21	20	85	150	150	20
Visayas	2027	2	21	21	80	150	150	20
Visayas	2027	2	21	22	73	150	150	20
Visayas	2027	2	21	23	66	150	150	20
Visayas	2027	2	21	24	62	150	150	20
Visayas	2027	2	22	1	59	150	150	20
Visayas	2027	2	22	2	57	150	150	20
Visayas	2027	2	22	3	57	150	150	20
Visayas	2027	2	22	4	56	150	150	20
Visayas	2027	2	22	5	60	150	150	20
Visayas	2027	2	22	6	68	150	150	20
Visayas	2027	2	22	7	64	150	150	20
Visayas	2027	2	22	8	73	150	150	20
Visayas	2027	2	22	9	93	150	150	20
Visayas	2027	2	22	10	102	150	150	20
Visayas	2027	2	22	11	106	150	150	20
Visayas	2027	2	22	12	71	150	150	20
Visayas	2027	2	22	13	79	150	150	20
Visayas	2027	2	22	14	90	150	150	20
Visayas	2027	2	22	15	94	150	150	20
Visayas	2027	2	22	16	95	150	150	20
Visayas	2027	2	22	17	91	150	150	20
Visayas	2027	2	22	18	92	150	150	20
Visayas	2027	2	22	19	92	150	150	20
Visayas	2027	2	22	20	91	150	150	20
Visayas	2027	2	22	21	88	150	150	20
Visayas	2027	2	22	22	84	150	150	20
Visayas	2027	2	22	23	79	150	150	20
Visayas	2027	2	22	24	72	150	150	20
Visayas	2027	2	23	1	69	150	150	20
Visayas	2027	2	23	2	65	150	150	20
Visayas	2027	2	23	3	63	150	150	20
Visayas	2027	2	23	4	63	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	23	5	67	150	150	20
Visayas	2027	2	23	6	74	150	150	20
Visayas	2027	2	23	7	68	150	150	20
Visayas	2027	2	23	8	77	150	150	20
Visayas	2027	2	23	9	97	150	150	20
Visayas	2027	2	23	10	102	150	150	20
Visayas	2027	2	23	11	106	150	150	20
Visayas	2027	2	23	12	102	150	150	20
Visayas	2027	2	23	13	101	150	150	20
Visayas	2027	2	23	14	108	150	150	20
Visayas	2027	2	23	15	106	150	150	20
Visayas	2027	2	23	16	105	150	150	20
Visayas	2027	2	23	17	97	150	150	20
Visayas	2027	2	23	18	100	150	150	20
Visayas	2027	2	23	19	101	150	150	20
Visayas	2027	2	23	20	94	150	150	20
Visayas	2027	2	23	21	91	150	150	20
Visayas	2027	2	23	22	81	150	150	20
Visayas	2027	2	23	23	74	150	150	20
Visayas	2027	2	23	24	69	150	150	20
Visayas	2027	2	24	1	66	150	150	20
Visayas	2027	2	24	2	64	150	150	20
Visayas	2027	2	24	3	61	150	150	20
Visayas	2027	2	24	4	61	150	150	20
Visayas	2027	2	24	5	64	150	150	20
Visayas	2027	2	24	6	72	150	150	20
Visayas	2027	2	24	7	68	150	150	20
Visayas	2027	2	24	8	75	150	150	20
Visayas	2027	2	24	9	91	150	150	20
Visayas	2027	2	24	10	96	150	150	20
Visayas	2027	2	24	11	101	150	150	20
Visayas	2027	2	24	12	97	150	150	20
Visayas	2027	2	24	13	97	150	150	20
Visayas	2027	2	24	14	103	150	150	20
Visayas	2027	2	24	15	101	150	150	20
Visayas	2027	2	24	16	100	150	150	20
Visayas	2027	2	24	17	94	150	150	20
Visayas	2027	2	24	18	97	150	150	20
Visayas	2027	2	24	19	100	150	150	20
Visayas	2027	2	24	20	93	150	150	20
Visayas	2027	2	24	21	89	150	150	20
Visayas	2027	2	24	22	79	150	150	20
Visayas	2027	2	24	23	71	150	150	20
Visayas	2027	2	24	24	67	150	150	20
Visayas	2027	2	25	1	70	150	150	20
Visayas	2027	2	25	2	67	150	150	20
Visayas	2027	2	25	3	65	150	150	20
Visayas	2027	2	25	4	63	150	150	20
Visayas	2027	2	25	5	65	150	150	20
Visayas	2027	2	25	6	68	150	150	20
Visayas	2027	2	25	7	68	150	150	20
Visayas	2027	2	25	8	75	150	150	20
Visayas	2027	2	25	9	91	150	150	20
Visayas	2027	2	25	10	98	150	150	20
Visayas	2027	2	25	11	104	150	150	20
Visayas	2027	2	25	12	103	150	150	20
Visayas	2027	2	25	13	103	150	150	20
Visayas	2027	2	25	14	109	150	150	20
Visayas	2027	2	25	15	109	150	150	20
Visayas	2027	2	25	16	105	150	150	20
Visayas	2027	2	25	17	98	150	150	20
Visayas	2027	2	25	18	104	150	150	20
Visayas	2027	2	25	19	109	150	150	20
Visayas	2027	2	25	20	103	150	150	20
Visayas	2027	2	25	21	100	150	150	20
Visayas	2027	2	25	22	89	150	150	20
Visayas	2027	2	25	23	83	150	150	20
Visayas	2027	2	25	24	77	150	150	20
Visayas	2027	2	26	1	59	150	150	20
Visayas	2027	2	26	2	57	150	150	20
Visayas	2027	2	26	3	56	150	150	20
Visayas	2027	2	26	4	56	150	150	20
Visayas	2027	2	26	5	59	150	150	20
Visayas	2027	2	26	6	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	2	26	7	62	150	150	20
Visayas	2027	2	26	8	71	150	150	20
Visayas	2027	2	26	9	86	150	150	20
Visayas	2027	2	26	10	91	150	150	20
Visayas	2027	2	26	11	97	150	150	20
Visayas	2027	2	26	12	91	150	150	20
Visayas	2027	2	26	13	90	150	150	20
Visayas	2027	2	26	14	99	150	150	20
Visayas	2027	2	26	15	97	150	150	20
Visayas	2027	2	26	16	95	150	150	20
Visayas	2027	2	26	17	90	150	150	20
Visayas	2027	2	26	18	94	150	150	20
Visayas	2027	2	26	19	97	150	150	20
Visayas	2027	2	26	20	88	150	150	20
Visayas	2027	2	26	21	82	150	150	20
Visayas	2027	2	26	22	74	150	150	20
Visayas	2027	2	26	23	67	150	150	20
Visayas	2027	2	26	24	63	150	150	20
Visayas	2027	2	27	1	73	150	150	20
Visayas	2027	2	27	2	69	150	150	20
Visayas	2027	2	27	3	66	150	150	20
Visayas	2027	2	27	4	64	150	150	20
Visayas	2027	2	27	5	65	150	150	20
Visayas	2027	2	27	6	67	150	150	20
Visayas	2027	2	27	7	67	150	150	20
Visayas	2027	2	27	8	70	150	150	20
Visayas	2027	2	27	9	80	150	150	20
Visayas	2027	2	27	10	87	150	150	20
Visayas	2027	2	27	11	91	150	150	20
Visayas	2027	2	27	12	89	150	150	20
Visayas	2027	2	27	13	91	150	150	20
Visayas	2027	2	27	14	95	150	150	20
Visayas	2027	2	27	15	94	150	150	20
Visayas	2027	2	27	16	93	150	150	20
Visayas	2027	2	27	17	89	150	150	20
Visayas	2027	2	27	18	98	150	150	20
Visayas	2027	2	27	19	103	150	150	20
Visayas	2027	2	27	20	97	150	150	20
Visayas	2027	2	27	21	94	150	150	20
Visayas	2027	2	27	22	89	150	150	20
Visayas	2027	2	27	23	80	150	150	20
Visayas	2027	2	27	24	75	150	150	20
Visayas	2027	2	28	1	71	150	150	20
Visayas	2027	2	28	2	68	150	150	20
Visayas	2027	2	28	3	66	150	150	20
Visayas	2027	2	28	4	65	150	150	20
Visayas	2027	2	28	5	63	150	150	20
Visayas	2027	2	28	6	65	150	150	20
Visayas	2027	2	28	7	64	150	150	20
Visayas	2027	2	28	8	67	150	150	20
Visayas	2027	2	28	9	72	150	150	20
Visayas	2027	2	28	10	79	150	150	20
Visayas	2027	2	28	11	82	150	150	20
Visayas	2027	2	28	12	83	150	150	20
Visayas	2027	2	28	13	83	150	150	20
Visayas	2027	2	28	14	84	150	150	20
Visayas	2027	2	28	15	84	150	150	20
Visayas	2027	2	28	16	83	150	150	20
Visayas	2027	2	28	17	81	150	150	20
Visayas	2027	2	28	18	90	150	150	20
Visayas	2027	2	28	19	100	150	150	20
Visayas	2027	2	28	20	93	150	150	20
Visayas	2027	2	28	21	91	150	150	20
Visayas	2027	2	28	22	86	150	150	20
Visayas	2027	2	28	23	77	150	150	20
Visayas	2027	2	28	24	71	150	150	20
Visayas	2027	3	1	1	67	150	150	20
Visayas	2027	3	1	2	64	150	150	20
Visayas	2027	3	1	3	62	150	150	20
Visayas	2027	3	1	4	61	150	150	20
Visayas	2027	3	1	5	65	150	150	20
Visayas	2027	3	1	6	70	150	150	20
Visayas	2027	3	1	7	67	150	150	20
Visayas	2027	3	1	8	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	1	9	93	150	150	20
Visayas	2027	3	1	10	100	150	150	20
Visayas	2027	3	1	11	104	150	150	20
Visayas	2027	3	1	12	99	150	150	20
Visayas	2027	3	1	13	100	150	150	20
Visayas	2027	3	1	14	104	150	150	20
Visayas	2027	3	1	15	100	150	150	20
Visayas	2027	3	1	16	98	150	150	20
Visayas	2027	3	1	17	96	150	150	20
Visayas	2027	3	1	18	99	150	150	20
Visayas	2027	3	1	19	98	150	150	20
Visayas	2027	3	1	20	89	150	150	20
Visayas	2027	3	1	21	82	150	150	20
Visayas	2027	3	1	22	74	150	150	20
Visayas	2027	3	1	23	69	150	150	20
Visayas	2027	3	1	24	64	150	150	20
Visayas	2027	3	2	1	62	150	150	20
Visayas	2027	3	2	2	60	150	150	20
Visayas	2027	3	2	3	59	150	150	20
Visayas	2027	3	2	4	58	150	150	20
Visayas	2027	3	2	5	62	150	150	20
Visayas	2027	3	2	6	68	150	150	20
Visayas	2027	3	2	7	66	150	150	20
Visayas	2027	3	2	8	74	150	150	20
Visayas	2027	3	2	9	90	150	150	20
Visayas	2027	3	2	10	97	150	150	20
Visayas	2027	3	2	11	101	150	150	20
Visayas	2027	3	2	12	97	150	150	20
Visayas	2027	3	2	13	99	150	150	20
Visayas	2027	3	2	14	104	150	150	20
Visayas	2027	3	2	15	104	150	150	20
Visayas	2027	3	2	16	103	150	150	20
Visayas	2027	3	2	17	97	150	150	20
Visayas	2027	3	2	18	100	150	150	20
Visayas	2027	3	2	19	103	150	150	20
Visayas	2027	3	2	20	94	150	150	20
Visayas	2027	3	2	21	87	150	150	20
Visayas	2027	3	2	22	79	150	150	20
Visayas	2027	3	2	23	73	150	150	20
Visayas	2027	3	2	24	67	150	150	20
Visayas	2027	3	3	1	65	150	150	20
Visayas	2027	3	3	2	63	150	150	20
Visayas	2027	3	3	3	61	150	150	20
Visayas	2027	3	3	4	60	150	150	20
Visayas	2027	3	3	5	64	150	150	20
Visayas	2027	3	3	6	72	150	150	20
Visayas	2027	3	3	7	67	150	150	20
Visayas	2027	3	3	8	79	150	150	20
Visayas	2027	3	3	9	94	150	150	20
Visayas	2027	3	3	10	104	150	150	20
Visayas	2027	3	3	11	108	150	150	20
Visayas	2027	3	3	12	102	150	150	20
Visayas	2027	3	3	13	101	150	150	20
Visayas	2027	3	3	14	110	150	150	20
Visayas	2027	3	3	15	105	150	150	20
Visayas	2027	3	3	16	103	150	150	20
Visayas	2027	3	3	17	96	150	150	20
Visayas	2027	3	3	18	100	150	150	20
Visayas	2027	3	3	19	103	150	150	20
Visayas	2027	3	3	20	95	150	150	20
Visayas	2027	3	3	21	88	150	150	20
Visayas	2027	3	3	22	79	150	150	20
Visayas	2027	3	3	23	65	150	150	20
Visayas	2027	3	3	24	63	150	150	20
Visayas	2027	3	4	1	61	150	150	20
Visayas	2027	3	4	2	59	150	150	20
Visayas	2027	3	4	3	57	150	150	20
Visayas	2027	3	4	4	57	150	150	20
Visayas	2027	3	4	5	61	150	150	20
Visayas	2027	3	4	6	66	150	150	20
Visayas	2027	3	4	7	64	150	150	20
Visayas	2027	3	4	8	72	150	150	20
Visayas	2027	3	4	9	87	150	150	20
Visayas	2027	3	4	10	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	4	11	99	150	150	20
Visayas	2027	3	4	12	95	150	150	20
Visayas	2027	3	4	13	95	150	150	20
Visayas	2027	3	4	14	100	150	150	20
Visayas	2027	3	4	15	100	150	150	20
Visayas	2027	3	4	16	97	150	150	20
Visayas	2027	3	4	17	90	150	150	20
Visayas	2027	3	4	18	94	150	150	20
Visayas	2027	3	4	19	96	150	150	20
Visayas	2027	3	4	20	90	150	150	20
Visayas	2027	3	4	21	82	150	150	20
Visayas	2027	3	4	22	72	150	150	20
Visayas	2027	3	4	23	65	150	150	20
Visayas	2027	3	4	24	61	150	150	20
Visayas	2027	3	5	1	59	150	150	20
Visayas	2027	3	5	2	57	150	150	20
Visayas	2027	3	5	3	56	150	150	20
Visayas	2027	3	5	4	56	150	150	20
Visayas	2027	3	5	5	59	150	150	20
Visayas	2027	3	5	6	65	150	150	20
Visayas	2027	3	5	7	62	150	150	20
Visayas	2027	3	5	8	71	150	150	20
Visayas	2027	3	5	9	86	150	150	20
Visayas	2027	3	5	10	91	150	150	20
Visayas	2027	3	5	11	97	150	150	20
Visayas	2027	3	5	12	91	150	150	20
Visayas	2027	3	5	13	90	150	150	20
Visayas	2027	3	5	14	99	150	150	20
Visayas	2027	3	5	15	97	150	150	20
Visayas	2027	3	5	16	95	150	150	20
Visayas	2027	3	5	17	90	150	150	20
Visayas	2027	3	5	18	94	150	150	20
Visayas	2027	3	5	19	97	150	150	20
Visayas	2027	3	5	20	88	150	150	20
Visayas	2027	3	5	21	82	150	150	20
Visayas	2027	3	5	22	74	150	150	20
Visayas	2027	3	5	23	67	150	150	20
Visayas	2027	3	5	24	63	150	150	20
Visayas	2027	3	6	1	60	150	150	20
Visayas	2027	3	6	2	58	150	150	20
Visayas	2027	3	6	3	57	150	150	20
Visayas	2027	3	6	4	56	150	150	20
Visayas	2027	3	6	5	58	150	150	20
Visayas	2027	3	6	6	60	150	150	20
Visayas	2027	3	6	7	62	150	150	20
Visayas	2027	3	6	8	67	150	150	20
Visayas	2027	3	6	9	77	150	150	20
Visayas	2027	3	6	10	83	150	150	20
Visayas	2027	3	6	11	87	150	150	20
Visayas	2027	3	6	12	85	150	150	20
Visayas	2027	3	6	13	85	150	150	20
Visayas	2027	3	6	14	89	150	150	20
Visayas	2027	3	6	15	86	150	150	20
Visayas	2027	3	6	16	85	150	150	20
Visayas	2027	3	6	17	82	150	150	20
Visayas	2027	3	6	18	88	150	150	20
Visayas	2027	3	6	19	95	150	150	20
Visayas	2027	3	6	20	88	150	150	20
Visayas	2027	3	6	21	82	150	150	20
Visayas	2027	3	6	22	74	150	150	20
Visayas	2027	3	6	23	68	150	150	20
Visayas	2027	3	6	24	64	150	150	20
Visayas	2027	3	7	1	61	150	150	20
Visayas	2027	3	7	2	60	150	150	20
Visayas	2027	3	7	3	58	150	150	20
Visayas	2027	3	7	4	57	150	150	20
Visayas	2027	3	7	5	57	150	150	20
Visayas	2027	3	7	6	59	150	150	20
Visayas	2027	3	7	7	59	150	150	20
Visayas	2027	3	7	8	63	150	150	20
Visayas	2027	3	7	9	66	150	150	20
Visayas	2027	3	7	10	70	150	150	20
Visayas	2027	3	7	11	72	150	150	20
Visayas	2027	3	7	12	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	7	13	72	150	150	20
Visayas	2027	3	7	14	72	150	150	20
Visayas	2027	3	7	15	72	150	150	20
Visayas	2027	3	7	16	70	150	150	20
Visayas	2027	3	7	17	71	150	150	20
Visayas	2027	3	7	18	82	150	150	20
Visayas	2027	3	7	19	89	150	150	20
Visayas	2027	3	7	20	82	150	150	20
Visayas	2027	3	7	21	75	150	150	20
Visayas	2027	3	7	22	69	150	150	20
Visayas	2027	3	7	23	64	150	150	20
Visayas	2027	3	7	24	60	150	150	20
Visayas	2027	3	8	1	58	150	150	20
Visayas	2027	3	8	2	56	150	150	20
Visayas	2027	3	8	3	55	150	150	20
Visayas	2027	3	8	4	55	150	150	20
Visayas	2027	3	8	5	59	150	150	20
Visayas	2027	3	8	6	66	150	150	20
Visayas	2027	3	8	7	64	150	150	20
Visayas	2027	3	8	8	71	150	150	20
Visayas	2027	3	8	9	89	150	150	20
Visayas	2027	3	8	10	97	150	150	20
Visayas	2027	3	8	11	100	150	150	20
Visayas	2027	3	8	12	97	150	150	20
Visayas	2027	3	8	13	96	150	150	20
Visayas	2027	3	8	14	102	150	150	20
Visayas	2027	3	8	15	103	150	150	20
Visayas	2027	3	8	16	99	150	150	20
Visayas	2027	3	8	17	92	150	150	20
Visayas	2027	3	8	18	97	150	150	20
Visayas	2027	3	8	19	100	150	150	20
Visayas	2027	3	8	20	92	150	150	20
Visayas	2027	3	8	21	86	150	150	20
Visayas	2027	3	8	22	79	150	150	20
Visayas	2027	3	8	23	70	150	150	20
Visayas	2027	3	8	24	66	150	150	20
Visayas	2027	3	9	1	64	150	150	20
Visayas	2027	3	9	2	62	150	150	20
Visayas	2027	3	9	3	60	150	150	20
Visayas	2027	3	9	4	60	150	150	20
Visayas	2027	3	9	5	64	150	150	20
Visayas	2027	3	9	6	71	150	150	20
Visayas	2027	3	9	7	67	150	150	20
Visayas	2027	3	9	8	77	150	150	20
Visayas	2027	3	9	9	95	150	150	20
Visayas	2027	3	9	10	100	150	150	20
Visayas	2027	3	9	11	105	150	150	20
Visayas	2027	3	9	12	102	150	150	20
Visayas	2027	3	9	13	103	150	150	20
Visayas	2027	3	9	14	109	150	150	20
Visayas	2027	3	9	15	110	150	150	20
Visayas	2027	3	9	16	104	150	150	20
Visayas	2027	3	9	17	98	150	150	20
Visayas	2027	3	9	18	101	150	150	20
Visayas	2027	3	9	19	105	150	150	20
Visayas	2027	3	9	20	98	150	150	20
Visayas	2027	3	9	21	91	150	150	20
Visayas	2027	3	9	22	84	150	150	20
Visayas	2027	3	9	23	74	150	150	20
Visayas	2027	3	9	24	69	150	150	20
Visayas	2027	3	10	1	67	150	150	20
Visayas	2027	3	10	2	64	150	150	20
Visayas	2027	3	10	3	62	150	150	20
Visayas	2027	3	10	4	63	150	150	20
Visayas	2027	3	10	5	65	150	150	20
Visayas	2027	3	10	6	73	150	150	20
Visayas	2027	3	10	7	67	150	150	20
Visayas	2027	3	10	8	78	150	150	20
Visayas	2027	3	10	9	94	150	150	20
Visayas	2027	3	10	10	103	150	150	20
Visayas	2027	3	10	11	106	150	150	20
Visayas	2027	3	10	12	103	150	150	20
Visayas	2027	3	10	13	107	150	150	20
Visayas	2027	3	10	14	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	10	15	110	150	150	20
Visayas	2027	3	10	16	108	150	150	20
Visayas	2027	3	10	17	99	150	150	20
Visayas	2027	3	10	18	104	150	150	20
Visayas	2027	3	10	19	106	150	150	20
Visayas	2027	3	10	20	102	150	150	20
Visayas	2027	3	10	21	94	150	150	20
Visayas	2027	3	10	22	84	150	150	20
Visayas	2027	3	10	23	78	150	150	20
Visayas	2027	3	10	24	72	150	150	20
Visayas	2027	3	11	1	69	150	150	20
Visayas	2027	3	11	2	65	150	150	20
Visayas	2027	3	11	3	64	150	150	20
Visayas	2027	3	11	4	63	150	150	20
Visayas	2027	3	11	5	67	150	150	20
Visayas	2027	3	11	6	74	150	150	20
Visayas	2027	3	11	7	68	150	150	20
Visayas	2027	3	11	8	80	150	150	20
Visayas	2027	3	11	9	99	150	150	20
Visayas	2027	3	11	10	105	150	150	20
Visayas	2027	3	11	11	111	150	150	20
Visayas	2027	3	11	12	107	150	150	20
Visayas	2027	3	11	13	106	150	150	20
Visayas	2027	3	11	14	114	150	150	20
Visayas	2027	3	11	15	114	150	150	20
Visayas	2027	3	11	16	109	150	150	20
Visayas	2027	3	11	17	101	150	150	20
Visayas	2027	3	11	18	102	150	150	20
Visayas	2027	3	11	19	107	150	150	20
Visayas	2027	3	11	20	100	150	150	20
Visayas	2027	3	11	21	93	150	150	20
Visayas	2027	3	11	22	83	150	150	20
Visayas	2027	3	11	23	76	150	150	20
Visayas	2027	3	11	24	70	150	150	20
Visayas	2027	3	12	1	67	150	150	20
Visayas	2027	3	12	2	64	150	150	20
Visayas	2027	3	12	3	62	150	150	20
Visayas	2027	3	12	4	61	150	150	20
Visayas	2027	3	12	5	64	150	150	20
Visayas	2027	3	12	6	72	150	150	20
Visayas	2027	3	12	7	66	150	150	20
Visayas	2027	3	12	8	77	150	150	20
Visayas	2027	3	12	9	94	150	150	20
Visayas	2027	3	12	10	101	150	150	20
Visayas	2027	3	12	11	108	150	150	20
Visayas	2027	3	12	12	105	150	150	20
Visayas	2027	3	12	13	105	150	150	20
Visayas	2027	3	12	14	111	150	150	20
Visayas	2027	3	12	15	110	150	150	20
Visayas	2027	3	12	16	105	150	150	20
Visayas	2027	3	12	17	98	150	150	20
Visayas	2027	3	12	18	98	150	150	20
Visayas	2027	3	12	19	103	150	150	20
Visayas	2027	3	12	20	95	150	150	20
Visayas	2027	3	12	21	90	150	150	20
Visayas	2027	3	12	22	83	150	150	20
Visayas	2027	3	12	23	77	150	150	20
Visayas	2027	3	12	24	70	150	150	20
Visayas	2027	3	13	1	67	150	150	20
Visayas	2027	3	13	2	64	150	150	20
Visayas	2027	3	13	3	62	150	150	20
Visayas	2027	3	13	4	61	150	150	20
Visayas	2027	3	13	5	61	150	150	20
Visayas	2027	3	13	6	64	150	150	20
Visayas	2027	3	13	7	65	150	150	20
Visayas	2027	3	13	8	70	150	150	20
Visayas	2027	3	13	9	81	150	150	20
Visayas	2027	3	13	10	87	150	150	20
Visayas	2027	3	13	11	90	150	150	20
Visayas	2027	3	13	12	88	150	150	20
Visayas	2027	3	13	13	91	150	150	20
Visayas	2027	3	13	14	95	150	150	20
Visayas	2027	3	13	15	93	150	150	20
Visayas	2027	3	13	16	89	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	13	17	84	150	150	20
Visayas	2027	3	13	18	93	150	150	20
Visayas	2027	3	13	19	97	150	150	20
Visayas	2027	3	13	20	91	150	150	20
Visayas	2027	3	13	21	86	150	150	20
Visayas	2027	3	13	22	78	150	150	20
Visayas	2027	3	13	23	71	150	150	20
Visayas	2027	3	13	24	66	150	150	20
Visayas	2027	3	14	1	63	150	150	20
Visayas	2027	3	14	2	61	150	150	20
Visayas	2027	3	14	3	59	150	150	20
Visayas	2027	3	14	4	58	150	150	20
Visayas	2027	3	14	5	58	150	150	20
Visayas	2027	3	14	6	59	150	150	20
Visayas	2027	3	14	7	60	150	150	20
Visayas	2027	3	14	8	62	150	150	20
Visayas	2027	3	14	9	67	150	150	20
Visayas	2027	3	14	10	73	150	150	20
Visayas	2027	3	14	11	76	150	150	20
Visayas	2027	3	14	12	78	150	150	20
Visayas	2027	3	14	13	76	150	150	20
Visayas	2027	3	14	14	78	150	150	20
Visayas	2027	3	14	15	79	150	150	20
Visayas	2027	3	14	16	78	150	150	20
Visayas	2027	3	14	17	77	150	150	20
Visayas	2027	3	14	18	85	150	150	20
Visayas	2027	3	14	19	96	150	150	20
Visayas	2027	3	14	20	89	150	150	20
Visayas	2027	3	14	21	84	150	150	20
Visayas	2027	3	14	22	77	150	150	20
Visayas	2027	3	14	23	69	150	150	20
Visayas	2027	3	14	24	64	150	150	20
Visayas	2027	3	15	1	61	150	150	20
Visayas	2027	3	15	2	58	150	150	20
Visayas	2027	3	15	3	54	150	150	20
Visayas	2027	3	15	4	56	150	150	20
Visayas	2027	3	15	5	61	150	150	20
Visayas	2027	3	15	6	66	150	150	20
Visayas	2027	3	15	7	63	150	150	20
Visayas	2027	3	15	8	73	150	150	20
Visayas	2027	3	15	9	92	150	150	20
Visayas	2027	3	15	10	102	150	150	20
Visayas	2027	3	15	11	105	150	150	20
Visayas	2027	3	15	12	103	150	150	20
Visayas	2027	3	15	13	104	150	150	20
Visayas	2027	3	15	14	112	150	150	20
Visayas	2027	3	15	15	112	150	150	20
Visayas	2027	3	15	16	109	150	150	20
Visayas	2027	3	15	17	100	150	150	20
Visayas	2027	3	15	18	100	150	150	20
Visayas	2027	3	15	19	106	150	150	20
Visayas	2027	3	15	20	99	150	150	20
Visayas	2027	3	15	21	93	150	150	20
Visayas	2027	3	15	22	84	150	150	20
Visayas	2027	3	15	23	76	150	150	20
Visayas	2027	3	15	24	70	150	150	20
Visayas	2027	3	16	1	67	150	150	20
Visayas	2027	3	16	2	65	150	150	20
Visayas	2027	3	16	3	62	150	150	20
Visayas	2027	3	16	4	62	150	150	20
Visayas	2027	3	16	5	65	150	150	20
Visayas	2027	3	16	6	73	150	150	20
Visayas	2027	3	16	7	68	150	150	20
Visayas	2027	3	16	8	79	150	150	20
Visayas	2027	3	16	9	95	150	150	20
Visayas	2027	3	16	10	103	150	150	20
Visayas	2027	3	16	11	106	150	150	20
Visayas	2027	3	16	12	102	150	150	20
Visayas	2027	3	16	13	103	150	150	20
Visayas	2027	3	16	14	112	150	150	20
Visayas	2027	3	16	15	111	150	150	20
Visayas	2027	3	16	16	108	150	150	20
Visayas	2027	3	16	17	100	150	150	20
Visayas	2027	3	16	18	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	16	19	107	150	150	20
Visayas	2027	3	16	20	101	150	150	20
Visayas	2027	3	16	21	93	150	150	20
Visayas	2027	3	16	22	84	150	150	20
Visayas	2027	3	16	23	77	150	150	20
Visayas	2027	3	16	24	71	150	150	20
Visayas	2027	3	17	1	69	150	150	20
Visayas	2027	3	17	2	65	150	150	20
Visayas	2027	3	17	3	64	150	150	20
Visayas	2027	3	17	4	64	150	150	20
Visayas	2027	3	17	5	67	150	150	20
Visayas	2027	3	17	6	75	150	150	20
Visayas	2027	3	17	7	68	150	150	20
Visayas	2027	3	17	8	81	150	150	20
Visayas	2027	3	17	9	99	150	150	20
Visayas	2027	3	17	10	108	150	150	20
Visayas	2027	3	17	11	112	150	150	20
Visayas	2027	3	17	12	107	150	150	20
Visayas	2027	3	17	13	109	150	150	20
Visayas	2027	3	17	14	115	150	150	20
Visayas	2027	3	17	15	113	150	150	20
Visayas	2027	3	17	16	107	150	150	20
Visayas	2027	3	17	17	99	150	150	20
Visayas	2027	3	17	18	104	150	150	20
Visayas	2027	3	17	19	107	150	150	20
Visayas	2027	3	17	20	99	150	150	20
Visayas	2027	3	17	21	93	150	150	20
Visayas	2027	3	17	22	86	150	150	20
Visayas	2027	3	17	23	77	150	150	20
Visayas	2027	3	17	24	71	150	150	20
Visayas	2027	3	18	1	68	150	150	20
Visayas	2027	3	18	2	65	150	150	20
Visayas	2027	3	18	3	62	150	150	20
Visayas	2027	3	18	4	62	150	150	20
Visayas	2027	3	18	5	65	150	150	20
Visayas	2027	3	18	6	71	150	150	20
Visayas	2027	3	18	7	67	150	150	20
Visayas	2027	3	18	8	77	150	150	20
Visayas	2027	3	18	9	95	150	150	20
Visayas	2027	3	18	10	104	150	150	20
Visayas	2027	3	18	11	109	150	150	20
Visayas	2027	3	18	12	105	150	150	20
Visayas	2027	3	18	13	106	150	150	20
Visayas	2027	3	18	14	112	150	150	20
Visayas	2027	3	18	15	114	150	150	20
Visayas	2027	3	18	16	110	150	150	20
Visayas	2027	3	18	17	101	150	150	20
Visayas	2027	3	18	18	105	150	150	20
Visayas	2027	3	18	19	110	150	150	20
Visayas	2027	3	18	20	102	150	150	20
Visayas	2027	3	18	21	99	150	150	20
Visayas	2027	3	18	22	89	150	150	20
Visayas	2027	3	18	23	81	150	150	20
Visayas	2027	3	18	24	75	150	150	20
Visayas	2027	3	19	1	70	150	150	20
Visayas	2027	3	19	2	67	150	150	20
Visayas	2027	3	19	3	66	150	150	20
Visayas	2027	3	19	4	65	150	150	20
Visayas	2027	3	19	5	69	150	150	20
Visayas	2027	3	19	6	74	150	150	20
Visayas	2027	3	19	7	70	150	150	20
Visayas	2027	3	19	8	84	150	150	20
Visayas	2027	3	19	9	100	150	150	20
Visayas	2027	3	19	10	107	150	150	20
Visayas	2027	3	19	11	113	150	150	20
Visayas	2027	3	19	12	111	150	150	20
Visayas	2027	3	19	13	110	150	150	20
Visayas	2027	3	19	14	118	150	150	20
Visayas	2027	3	19	15	117	150	150	20
Visayas	2027	3	19	16	113	150	150	20
Visayas	2027	3	19	17	105	150	150	20
Visayas	2027	3	19	18	106	150	150	20
Visayas	2027	3	19	19	111	150	150	20
Visayas	2027	3	19	20	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	19	21	99	150	150	20
Visayas	2027	3	19	22	90	150	150	20
Visayas	2027	3	19	23	81	150	150	20
Visayas	2027	3	19	24	76	150	150	20
Visayas	2027	3	20	1	71	150	150	20
Visayas	2027	3	20	2	68	150	150	20
Visayas	2027	3	20	3	65	150	150	20
Visayas	2027	3	20	4	66	150	150	20
Visayas	2027	3	20	5	65	150	150	20
Visayas	2027	3	20	6	67	150	150	20
Visayas	2027	3	20	7	67	150	150	20
Visayas	2027	3	20	8	74	150	150	20
Visayas	2027	3	20	9	87	150	150	20
Visayas	2027	3	20	10	93	150	150	20
Visayas	2027	3	20	11	95	150	150	20
Visayas	2027	3	20	12	93	150	150	20
Visayas	2027	3	20	13	92	150	150	20
Visayas	2027	3	20	14	98	150	150	20
Visayas	2027	3	20	15	97	150	150	20
Visayas	2027	3	20	16	95	150	150	20
Visayas	2027	3	20	17	90	150	150	20
Visayas	2027	3	20	18	96	150	150	20
Visayas	2027	3	20	19	102	150	150	20
Visayas	2027	3	20	20	96	150	150	20
Visayas	2027	3	20	21	92	150	150	20
Visayas	2027	3	20	22	86	150	150	20
Visayas	2027	3	20	23	78	150	150	20
Visayas	2027	3	20	24	72	150	150	20
Visayas	2027	3	21	1	69	150	150	20
Visayas	2027	3	21	2	66	150	150	20
Visayas	2027	3	21	3	65	150	150	20
Visayas	2027	3	21	4	63	150	150	20
Visayas	2027	3	21	5	62	150	150	20
Visayas	2027	3	21	6	63	150	150	20
Visayas	2027	3	21	7	59	150	150	20
Visayas	2027	3	21	8	61	150	150	20
Visayas	2027	3	21	9	66	150	150	20
Visayas	2027	3	21	10	71	150	150	20
Visayas	2027	3	21	11	76	150	150	20
Visayas	2027	3	21	12	75	150	150	20
Visayas	2027	3	21	13	75	150	150	20
Visayas	2027	3	21	14	76	150	150	20
Visayas	2027	3	21	15	77	150	150	20
Visayas	2027	3	21	16	76	150	150	20
Visayas	2027	3	21	17	75	150	150	20
Visayas	2027	3	21	18	85	150	150	20
Visayas	2027	3	21	19	95	150	150	20
Visayas	2027	3	21	20	92	150	150	20
Visayas	2027	3	21	21	88	150	150	20
Visayas	2027	3	21	22	81	150	150	20
Visayas	2027	3	21	23	74	150	150	20
Visayas	2027	3	21	24	68	150	150	20
Visayas	2027	3	22	1	65	150	150	20
Visayas	2027	3	22	2	63	150	150	20
Visayas	2027	3	22	3	61	150	150	20
Visayas	2027	3	22	4	60	150	150	20
Visayas	2027	3	22	5	64	150	150	20
Visayas	2027	3	22	6	72	150	150	20
Visayas	2027	3	22	7	66	150	150	20
Visayas	2027	3	22	8	79	150	150	20
Visayas	2027	3	22	9	96	150	150	20
Visayas	2027	3	22	10	108	150	150	20
Visayas	2027	3	22	11	110	150	150	20
Visayas	2027	3	22	12	107	150	150	20
Visayas	2027	3	22	13	108	150	150	20
Visayas	2027	3	22	14	117	150	150	20
Visayas	2027	3	22	15	117	150	150	20
Visayas	2027	3	22	16	113	150	150	20
Visayas	2027	3	22	17	106	150	150	20
Visayas	2027	3	22	18	104	150	150	20
Visayas	2027	3	22	19	110	150	150	20
Visayas	2027	3	22	20	103	150	150	20
Visayas	2027	3	22	21	97	150	150	20
Visayas	2027	3	22	22	87	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	22	23	80	150	150	20
Visayas	2027	3	22	24	72	150	150	20
Visayas	2027	3	23	1	68	150	150	20
Visayas	2027	3	23	2	65	150	150	20
Visayas	2027	3	23	3	63	150	150	20
Visayas	2027	3	23	4	62	150	150	20
Visayas	2027	3	23	5	65	150	150	20
Visayas	2027	3	23	6	75	150	150	20
Visayas	2027	3	23	7	68	150	150	20
Visayas	2027	3	23	8	80	150	150	20
Visayas	2027	3	23	9	97	150	150	20
Visayas	2027	3	23	10	105	150	150	20
Visayas	2027	3	23	11	110	150	150	20
Visayas	2027	3	23	12	108	150	150	20
Visayas	2027	3	23	13	108	150	150	20
Visayas	2027	3	23	14	119	150	150	20
Visayas	2027	3	23	15	118	150	150	20
Visayas	2027	3	23	16	114	150	150	20
Visayas	2027	3	23	17	106	150	150	20
Visayas	2027	3	23	18	105	150	150	20
Visayas	2027	3	23	19	111	150	150	20
Visayas	2027	3	23	20	103	150	150	20
Visayas	2027	3	23	21	97	150	150	20
Visayas	2027	3	23	22	89	150	150	20
Visayas	2027	3	23	23	80	150	150	20
Visayas	2027	3	23	24	75	150	150	20
Visayas	2027	3	24	1	70	150	150	20
Visayas	2027	3	24	2	67	150	150	20
Visayas	2027	3	24	3	65	150	150	20
Visayas	2027	3	24	4	64	150	150	20
Visayas	2027	3	24	5	68	150	150	20
Visayas	2027	3	24	6	76	150	150	20
Visayas	2027	3	24	7	69	150	150	20
Visayas	2027	3	24	8	82	150	150	20
Visayas	2027	3	24	9	102	150	150	20
Visayas	2027	3	24	10	111	150	150	20
Visayas	2027	3	24	11	118	150	150	20
Visayas	2027	3	24	12	113	150	150	20
Visayas	2027	3	24	13	114	150	150	20
Visayas	2027	3	24	14	124	150	150	20
Visayas	2027	3	24	15	123	150	150	20
Visayas	2027	3	24	16	120	150	150	20
Visayas	2027	3	24	17	109	150	150	20
Visayas	2027	3	24	18	109	150	150	20
Visayas	2027	3	24	19	116	150	150	20
Visayas	2027	3	24	20	108	150	150	20
Visayas	2027	3	24	21	103	150	150	20
Visayas	2027	3	24	22	96	150	150	20
Visayas	2027	3	24	23	86	150	150	20
Visayas	2027	3	24	24	81	150	150	20
Visayas	2027	3	25	1	67	150	150	20
Visayas	2027	3	25	2	64	150	150	20
Visayas	2027	3	25	3	61	150	150	20
Visayas	2027	3	25	4	60	150	150	20
Visayas	2027	3	25	5	58	150	150	20
Visayas	2027	3	25	6	58	150	150	20
Visayas	2027	3	25	7	59	150	150	20
Visayas	2027	3	25	8	60	150	150	20
Visayas	2027	3	25	9	65	150	150	20
Visayas	2027	3	25	10	67	150	150	20
Visayas	2027	3	25	11	72	150	150	20
Visayas	2027	3	25	12	72	150	150	20
Visayas	2027	3	25	13	73	150	150	20
Visayas	2027	3	25	14	76	150	150	20
Visayas	2027	3	25	15	76	150	150	20
Visayas	2027	3	25	16	73	150	150	20
Visayas	2027	3	25	17	71	150	150	20
Visayas	2027	3	25	18	79	150	150	20
Visayas	2027	3	25	19	85	150	150	20
Visayas	2027	3	25	20	82	150	150	20
Visayas	2027	3	25	21	80	150	150	20
Visayas	2027	3	25	22	76	150	150	20
Visayas	2027	3	25	23	71	150	150	20
Visayas	2027	3	25	24	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	26	1	64	150	150	20
Visayas	2027	3	26	2	62	150	150	20
Visayas	2027	3	26	3	60	150	150	20
Visayas	2027	3	26	4	58	150	150	20
Visayas	2027	3	26	5	58	150	150	20
Visayas	2027	3	26	6	57	150	150	20
Visayas	2027	3	26	7	57	150	150	20
Visayas	2027	3	26	8	58	150	150	20
Visayas	2027	3	26	9	59	150	150	20
Visayas	2027	3	26	10	61	150	150	20
Visayas	2027	3	26	11	62	150	150	20
Visayas	2027	3	26	12	63	150	150	20
Visayas	2027	3	26	13	64	150	150	20
Visayas	2027	3	26	14	64	150	150	20
Visayas	2027	3	26	15	64	150	150	20
Visayas	2027	3	26	16	62	150	150	20
Visayas	2027	3	26	17	61	150	150	20
Visayas	2027	3	26	18	68	150	150	20
Visayas	2027	3	26	19	78	150	150	20
Visayas	2027	3	26	20	78	150	150	20
Visayas	2027	3	26	21	78	150	150	20
Visayas	2027	3	26	22	76	150	150	20
Visayas	2027	3	26	23	70	150	150	20
Visayas	2027	3	26	24	66	150	150	20
Visayas	2027	3	27	1	83	150	150	20
Visayas	2027	3	27	2	79	150	150	20
Visayas	2027	3	27	3	77	150	150	20
Visayas	2027	3	27	4	75	150	150	20
Visayas	2027	3	27	5	74	150	150	20
Visayas	2027	3	27	6	76	150	150	20
Visayas	2027	3	27	7	70	150	150	20
Visayas	2027	3	27	8	80	150	150	20
Visayas	2027	3	27	9	93	150	150	20
Visayas	2027	3	27	10	99	150	150	20
Visayas	2027	3	27	11	106	150	150	20
Visayas	2027	3	27	12	106	150	150	20
Visayas	2027	3	27	13	106	150	150	20
Visayas	2027	3	27	14	111	150	150	20
Visayas	2027	3	27	15	109	150	150	20
Visayas	2027	3	27	16	105	150	150	20
Visayas	2027	3	27	17	97	150	150	20
Visayas	2027	3	27	18	101	150	150	20
Visayas	2027	3	27	19	112	150	150	20
Visayas	2027	3	27	20	108	150	150	20
Visayas	2027	3	27	21	103	150	150	20
Visayas	2027	3	27	22	100	150	150	20
Visayas	2027	3	27	23	93	150	150	20
Visayas	2027	3	27	24	87	150	150	20
Visayas	2027	3	28	1	82	150	150	20
Visayas	2027	3	28	2	78	150	150	20
Visayas	2027	3	28	3	74	150	150	20
Visayas	2027	3	28	4	72	150	150	20
Visayas	2027	3	28	5	71	150	150	20
Visayas	2027	3	28	6	71	150	150	20
Visayas	2027	3	28	7	72	150	150	20
Visayas	2027	3	28	8	75	150	150	20
Visayas	2027	3	28	9	83	150	150	20
Visayas	2027	3	28	10	87	150	150	20
Visayas	2027	3	28	11	90	150	150	20
Visayas	2027	3	28	12	93	150	150	20
Visayas	2027	3	28	13	95	150	150	20
Visayas	2027	3	28	14	98	150	150	20
Visayas	2027	3	28	15	96	150	150	20
Visayas	2027	3	28	16	93	150	150	20
Visayas	2027	3	28	17	91	150	150	20
Visayas	2027	3	28	18	99	150	150	20
Visayas	2027	3	28	19	106	150	150	20
Visayas	2027	3	28	20	103	150	150	20
Visayas	2027	3	28	21	101	150	150	20
Visayas	2027	3	28	22	95	150	150	20
Visayas	2027	3	28	23	88	150	150	20
Visayas	2027	3	28	24	83	150	150	20
Visayas	2027	3	29	1	77	150	150	20
Visayas	2027	3	29	2	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	3	29	3	68	150	150	20
Visayas	2027	3	29	4	68	150	150	20
Visayas	2027	3	29	5	73	150	150	20
Visayas	2027	3	29	6	80	150	150	20
Visayas	2027	3	29	7	72	150	150	20
Visayas	2027	3	29	8	86	150	150	20
Visayas	2027	3	29	9	107	150	150	20
Visayas	2027	3	29	10	118	150	150	20
Visayas	2027	3	29	11	121	150	150	20
Visayas	2027	3	29	12	118	150	150	20
Visayas	2027	3	29	13	120	150	150	20
Visayas	2027	3	29	14	129	150	150	20
Visayas	2027	3	29	15	128	150	150	20
Visayas	2027	3	29	16	124	150	150	20
Visayas	2027	3	29	17	115	150	150	20
Visayas	2027	3	29	18	114	150	150	20
Visayas	2027	3	29	19	120	150	150	20
Visayas	2027	3	29	20	113	150	150	20
Visayas	2027	3	29	21	108	150	150	20
Visayas	2027	3	29	22	100	150	150	20
Visayas	2027	3	29	23	93	150	150	20
Visayas	2027	3	29	24	87	150	150	20
Visayas	2027	3	30	1	80	150	150	20
Visayas	2027	3	30	2	77	150	150	20
Visayas	2027	3	30	3	73	150	150	20
Visayas	2027	3	30	4	72	150	150	20
Visayas	2027	3	30	5	76	150	150	20
Visayas	2027	3	30	6	81	150	150	20
Visayas	2027	3	30	7	76	150	150	20
Visayas	2027	3	30	8	90	150	150	20
Visayas	2027	3	30	9	111	150	150	20
Visayas	2027	3	30	10	118	150	150	20
Visayas	2027	3	30	11	123	150	150	20
Visayas	2027	3	30	12	119	150	150	20
Visayas	2027	3	30	13	122	150	150	20
Visayas	2027	3	30	14	130	150	150	20
Visayas	2027	3	30	15	132	150	150	20
Visayas	2027	3	30	16	127	150	150	20
Visayas	2027	3	30	17	116	150	150	20
Visayas	2027	3	30	18	116	150	150	20
Visayas	2027	3	30	19	121	150	150	20
Visayas	2027	3	30	20	116	150	150	20
Visayas	2027	3	30	21	110	150	150	20
Visayas	2027	3	30	22	102	150	150	20
Visayas	2027	3	30	23	95	150	150	20
Visayas	2027	3	30	24	90	150	150	20
Visayas	2027	3	31	1	83	150	150	20
Visayas	2027	3	31	2	80	150	150	20
Visayas	2027	3	31	3	76	150	150	20
Visayas	2027	3	31	4	73	150	150	20
Visayas	2027	3	31	5	77	150	150	20
Visayas	2027	3	31	6	83	150	150	20
Visayas	2027	3	31	7	75	150	150	20
Visayas	2027	3	31	8	90	150	150	20
Visayas	2027	3	31	9	106	150	150	20
Visayas	2027	3	31	10	117	150	150	20
Visayas	2027	3	31	11	120	150	150	20
Visayas	2027	3	31	12	117	150	150	20
Visayas	2027	3	31	13	119	150	150	20
Visayas	2027	3	31	14	127	150	150	20
Visayas	2027	3	31	15	125	150	150	20
Visayas	2027	3	31	16	120	150	150	20
Visayas	2027	3	31	17	114	150	150	20
Visayas	2027	3	31	18	115	150	150	20
Visayas	2027	3	31	19	119	150	150	20
Visayas	2027	3	31	20	113	150	150	20
Visayas	2027	3	31	21	108	150	150	20
Visayas	2027	3	31	22	99	150	150	20
Visayas	2027	3	31	23	93	150	150	20
Visayas	2027	3	31	24	86	150	150	20
Visayas	2027	4	1	1	81	150	150	20
Visayas	2027	4	1	2	79	150	150	20
Visayas	2027	4	1	3	75	150	150	20
Visayas	2027	4	1	4	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	1	5	77	150	150	20
Visayas	2027	4	1	6	81	150	150	20
Visayas	2027	4	1	7	75	150	150	20
Visayas	2027	4	1	8	91	150	150	20
Visayas	2027	4	1	9	109	150	150	20
Visayas	2027	4	1	10	118	150	150	20
Visayas	2027	4	1	11	122	150	150	20
Visayas	2027	4	1	12	120	150	150	20
Visayas	2027	4	1	13	121	150	150	20
Visayas	2027	4	1	14	130	150	150	20
Visayas	2027	4	1	15	128	150	150	20
Visayas	2027	4	1	16	124	150	150	20
Visayas	2027	4	1	17	112	150	150	20
Visayas	2027	4	1	18	113	150	150	20
Visayas	2027	4	1	19	119	150	150	20
Visayas	2027	4	1	20	113	150	150	20
Visayas	2027	4	1	21	108	150	150	20
Visayas	2027	4	1	22	102	150	150	20
Visayas	2027	4	1	23	94	150	150	20
Visayas	2027	4	1	24	87	150	150	20
Visayas	2027	4	2	1	83	150	150	20
Visayas	2027	4	2	2	78	150	150	20
Visayas	2027	4	2	3	75	150	150	20
Visayas	2027	4	2	4	74	150	150	20
Visayas	2027	4	2	5	75	150	150	20
Visayas	2027	4	2	6	76	150	150	20
Visayas	2027	4	2	7	69	150	150	20
Visayas	2027	4	2	8	84	150	150	20
Visayas	2027	4	2	9	105	150	150	20
Visayas	2027	4	2	10	114	150	150	20
Visayas	2027	4	2	11	119	150	150	20
Visayas	2027	4	2	12	117	150	150	20
Visayas	2027	4	2	13	119	150	150	20
Visayas	2027	4	2	14	127	150	150	20
Visayas	2027	4	2	15	126	150	150	20
Visayas	2027	4	2	16	122	150	150	20
Visayas	2027	4	2	17	112	150	150	20
Visayas	2027	4	2	18	112	150	150	20
Visayas	2027	4	2	19	117	150	150	20
Visayas	2027	4	2	20	111	150	150	20
Visayas	2027	4	2	21	107	150	150	20
Visayas	2027	4	2	22	102	150	150	20
Visayas	2027	4	2	23	93	150	150	20
Visayas	2027	4	2	24	88	150	150	20
Visayas	2027	4	3	1	82	150	150	20
Visayas	2027	4	3	2	80	150	150	20
Visayas	2027	4	3	3	76	150	150	20
Visayas	2027	4	3	4	73	150	150	20
Visayas	2027	4	3	5	72	150	150	20
Visayas	2027	4	3	6	75	150	150	20
Visayas	2027	4	3	7	71	150	150	20
Visayas	2027	4	3	8	82	150	150	20
Visayas	2027	4	3	9	95	150	150	20
Visayas	2027	4	3	10	102	150	150	20
Visayas	2027	4	3	11	108	150	150	20
Visayas	2027	4	3	12	104	150	150	20
Visayas	2027	4	3	13	106	150	150	20
Visayas	2027	4	3	14	112	150	150	20
Visayas	2027	4	3	15	112	150	150	20
Visayas	2027	4	3	16	107	150	150	20
Visayas	2027	4	3	17	97	150	150	20
Visayas	2027	4	3	18	101	150	150	20
Visayas	2027	4	3	19	112	150	150	20
Visayas	2027	4	3	20	109	150	150	20
Visayas	2027	4	3	21	105	150	150	20
Visayas	2027	4	3	22	98	150	150	20
Visayas	2027	4	3	23	90	150	150	20
Visayas	2027	4	3	24	85	150	150	20
Visayas	2027	4	4	1	80	150	150	20
Visayas	2027	4	4	2	75	150	150	20
Visayas	2027	4	4	3	71	150	150	20
Visayas	2027	4	4	4	68	150	150	20
Visayas	2027	4	4	5	68	150	150	20
Visayas	2027	4	4	6	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	4	7	68	150	150	20
Visayas	2027	4	4	8	72	150	150	20
Visayas	2027	4	4	9	81	150	150	20
Visayas	2027	4	4	10	89	150	150	20
Visayas	2027	4	4	11	93	150	150	20
Visayas	2027	4	4	12	93	150	150	20
Visayas	2027	4	4	13	94	150	150	20
Visayas	2027	4	4	14	98	150	150	20
Visayas	2027	4	4	15	95	150	150	20
Visayas	2027	4	4	16	93	150	150	20
Visayas	2027	4	4	17	90	150	150	20
Visayas	2027	4	4	18	99	150	150	20
Visayas	2027	4	4	19	107	150	150	20
Visayas	2027	4	4	20	104	150	150	20
Visayas	2027	4	4	21	101	150	150	20
Visayas	2027	4	4	22	95	150	150	20
Visayas	2027	4	4	23	87	150	150	20
Visayas	2027	4	4	24	81	150	150	20
Visayas	2027	4	5	1	76	150	150	20
Visayas	2027	4	5	2	70	150	150	20
Visayas	2027	4	5	3	68	150	150	20
Visayas	2027	4	5	4	67	150	150	20
Visayas	2027	4	5	5	71	150	150	20
Visayas	2027	4	5	6	76	150	150	20
Visayas	2027	4	5	7	71	150	150	20
Visayas	2027	4	5	8	86	150	150	20
Visayas	2027	4	5	9	105	150	150	20
Visayas	2027	4	5	10	116	150	150	20
Visayas	2027	4	5	11	120	150	150	20
Visayas	2027	4	5	12	120	150	150	20
Visayas	2027	4	5	13	120	150	150	20
Visayas	2027	4	5	14	130	150	150	20
Visayas	2027	4	5	15	126	150	150	20
Visayas	2027	4	5	16	122	150	150	20
Visayas	2027	4	5	17	112	150	150	20
Visayas	2027	4	5	18	110	150	150	20
Visayas	2027	4	5	19	117	150	150	20
Visayas	2027	4	5	20	111	150	150	20
Visayas	2027	4	5	21	106	150	150	20
Visayas	2027	4	5	22	98	150	150	20
Visayas	2027	4	5	23	91	150	150	20
Visayas	2027	4	5	24	85	150	150	20
Visayas	2027	4	6	1	80	150	150	20
Visayas	2027	4	6	2	76	150	150	20
Visayas	2027	4	6	3	73	150	150	20
Visayas	2027	4	6	4	71	150	150	20
Visayas	2027	4	6	5	75	150	150	20
Visayas	2027	4	6	6	79	150	150	20
Visayas	2027	4	6	7	76	150	150	20
Visayas	2027	4	6	8	90	150	150	20
Visayas	2027	4	6	9	109	150	150	20
Visayas	2027	4	6	10	118	150	150	20
Visayas	2027	4	6	11	123	150	150	20
Visayas	2027	4	6	12	119	150	150	20
Visayas	2027	4	6	13	119	150	150	20
Visayas	2027	4	6	14	127	150	150	20
Visayas	2027	4	6	15	129	150	150	20
Visayas	2027	4	6	16	121	150	150	20
Visayas	2027	4	6	17	108	150	150	20
Visayas	2027	4	6	18	111	150	150	20
Visayas	2027	4	6	19	115	150	150	20
Visayas	2027	4	6	20	110	150	150	20
Visayas	2027	4	6	21	103	150	150	20
Visayas	2027	4	6	22	96	150	150	20
Visayas	2027	4	6	23	88	150	150	20
Visayas	2027	4	6	24	83	150	150	20
Visayas	2027	4	7	1	77	150	150	20
Visayas	2027	4	7	2	74	150	150	20
Visayas	2027	4	7	3	70	150	150	20
Visayas	2027	4	7	4	68	150	150	20
Visayas	2027	4	7	5	70	150	150	20
Visayas	2027	4	7	6	73	150	150	20
Visayas	2027	4	7	7	70	150	150	20
Visayas	2027	4	7	8	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	7	9	99	150	150	20
Visayas	2027	4	7	10	107	150	150	20
Visayas	2027	4	7	11	114	150	150	20
Visayas	2027	4	7	12	109	150	150	20
Visayas	2027	4	7	13	106	150	150	20
Visayas	2027	4	7	14	110	150	150	20
Visayas	2027	4	7	15	109	150	150	20
Visayas	2027	4	7	16	102	150	150	20
Visayas	2027	4	7	17	97	150	150	20
Visayas	2027	4	7	18	98	150	150	20
Visayas	2027	4	7	19	103	150	150	20
Visayas	2027	4	7	20	96	150	150	20
Visayas	2027	4	7	21	90	150	150	20
Visayas	2027	4	7	22	84	150	150	20
Visayas	2027	4	7	23	77	150	150	20
Visayas	2027	4	7	24	71	150	150	20
Visayas	2027	4	8	1	74	150	150	20
Visayas	2027	4	8	2	70	150	150	20
Visayas	2027	4	8	3	67	150	150	20
Visayas	2027	4	8	4	66	150	150	20
Visayas	2027	4	8	5	70	150	150	20
Visayas	2027	4	8	6	75	150	150	20
Visayas	2027	4	8	7	70	150	150	20
Visayas	2027	4	8	8	85	150	150	20
Visayas	2027	4	8	9	107	150	150	20
Visayas	2027	4	8	10	114	150	150	20
Visayas	2027	4	8	11	121	150	150	20
Visayas	2027	4	8	12	118	150	150	20
Visayas	2027	4	8	13	117	150	150	20
Visayas	2027	4	8	14	125	150	150	20
Visayas	2027	4	8	15	127	150	150	20
Visayas	2027	4	8	16	123	150	150	20
Visayas	2027	4	8	17	114	150	150	20
Visayas	2027	4	8	18	115	150	150	20
Visayas	2027	4	8	19	118	150	150	20
Visayas	2027	4	8	20	113	150	150	20
Visayas	2027	4	8	21	108	150	150	20
Visayas	2027	4	8	22	98	150	150	20
Visayas	2027	4	8	23	92	150	150	20
Visayas	2027	4	8	24	84	150	150	20
Visayas	2027	4	9	1	65	150	150	20
Visayas	2027	4	9	2	62	150	150	20
Visayas	2027	4	9	3	60	150	150	20
Visayas	2027	4	9	4	59	150	150	20
Visayas	2027	4	9	5	60	150	150	20
Visayas	2027	4	9	6	61	150	150	20
Visayas	2027	4	9	7	61	150	150	20
Visayas	2027	4	9	8	68	150	150	20
Visayas	2027	4	9	9	78	150	150	20
Visayas	2027	4	9	10	82	150	150	20
Visayas	2027	4	9	11	90	150	150	20
Visayas	2027	4	9	12	89	150	150	20
Visayas	2027	4	9	13	91	150	150	20
Visayas	2027	4	9	14	94	150	150	20
Visayas	2027	4	9	15	93	150	150	20
Visayas	2027	4	9	16	90	150	150	20
Visayas	2027	4	9	17	89	150	150	20
Visayas	2027	4	9	18	97	150	150	20
Visayas	2027	4	9	19	102	150	150	20
Visayas	2027	4	9	20	99	150	150	20
Visayas	2027	4	9	21	94	150	150	20
Visayas	2027	4	9	22	87	150	150	20
Visayas	2027	4	9	23	80	150	150	20
Visayas	2027	4	9	24	75	150	150	20
Visayas	2027	4	10	1	63	150	150	20
Visayas	2027	4	10	2	60	150	150	20
Visayas	2027	4	10	3	58	150	150	20
Visayas	2027	4	10	4	57	150	150	20
Visayas	2027	4	10	5	56	150	150	20
Visayas	2027	4	10	6	58	150	150	20
Visayas	2027	4	10	7	59	150	150	20
Visayas	2027	4	10	8	63	150	150	20
Visayas	2027	4	10	9	72	150	150	20
Visayas	2027	4	10	10	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	10	11	81	150	150	20
Visayas	2027	4	10	12	80	150	150	20
Visayas	2027	4	10	13	82	150	150	20
Visayas	2027	4	10	14	85	150	150	20
Visayas	2027	4	10	15	82	150	150	20
Visayas	2027	4	10	16	81	150	150	20
Visayas	2027	4	10	17	80	150	150	20
Visayas	2027	4	10	18	88	150	150	20
Visayas	2027	4	10	19	92	150	150	20
Visayas	2027	4	10	20	87	150	150	20
Visayas	2027	4	10	21	84	150	150	20
Visayas	2027	4	10	22	79	150	150	20
Visayas	2027	4	10	23	73	150	150	20
Visayas	2027	4	10	24	70	150	150	20
Visayas	2027	4	11	1	65	150	150	20
Visayas	2027	4	11	2	63	150	150	20
Visayas	2027	4	11	3	61	150	150	20
Visayas	2027	4	11	4	59	150	150	20
Visayas	2027	4	11	5	59	150	150	20
Visayas	2027	4	11	6	61	150	150	20
Visayas	2027	4	11	7	60	150	150	20
Visayas	2027	4	11	8	62	150	150	20
Visayas	2027	4	11	9	68	150	150	20
Visayas	2027	4	11	10	74	150	150	20
Visayas	2027	4	11	11	75	150	150	20
Visayas	2027	4	11	12	74	150	150	20
Visayas	2027	4	11	13	74	150	150	20
Visayas	2027	4	11	14	76	150	150	20
Visayas	2027	4	11	15	79	150	150	20
Visayas	2027	4	11	16	77	150	150	20
Visayas	2027	4	11	17	77	150	150	20
Visayas	2027	4	11	18	85	150	150	20
Visayas	2027	4	11	19	92	150	150	20
Visayas	2027	4	11	20	88	150	150	20
Visayas	2027	4	11	21	85	150	150	20
Visayas	2027	4	11	22	79	150	150	20
Visayas	2027	4	11	23	74	150	150	20
Visayas	2027	4	11	24	68	150	150	20
Visayas	2027	4	12	1	82	150	150	20
Visayas	2027	4	12	2	78	150	150	20
Visayas	2027	4	12	3	75	150	150	20
Visayas	2027	4	12	4	74	150	150	20
Visayas	2027	4	12	5	77	150	150	20
Visayas	2027	4	12	6	82	150	150	20
Visayas	2027	4	12	7	77	150	150	20
Visayas	2027	4	12	8	93	150	150	20
Visayas	2027	4	12	9	117	150	150	20
Visayas	2027	4	12	10	124	150	150	20
Visayas	2027	4	12	11	129	150	150	20
Visayas	2027	4	12	12	131	150	150	20
Visayas	2027	4	12	13	132	150	150	20
Visayas	2027	4	12	14	137	150	150	20
Visayas	2027	4	12	15	137	150	150	20
Visayas	2027	4	12	16	134	150	150	20
Visayas	2027	4	12	17	125	150	150	20
Visayas	2027	4	12	18	124	150	150	20
Visayas	2027	4	12	19	129	150	150	20
Visayas	2027	4	12	20	123	150	150	20
Visayas	2027	4	12	21	119	150	150	20
Visayas	2027	4	12	22	110	150	150	20
Visayas	2027	4	12	23	103	150	150	20
Visayas	2027	4	12	24	95	150	150	20
Visayas	2027	4	13	1	70	150	150	20
Visayas	2027	4	13	2	69	150	150	20
Visayas	2027	4	13	3	66	150	150	20
Visayas	2027	4	13	4	65	150	150	20
Visayas	2027	4	13	5	70	150	150	20
Visayas	2027	4	13	6	75	150	150	20
Visayas	2027	4	13	7	68	150	150	20
Visayas	2027	4	13	8	83	150	150	20
Visayas	2027	4	13	9	100	150	150	20
Visayas	2027	4	13	10	111	150	150	20
Visayas	2027	4	13	11	113	150	150	20
Visayas	2027	4	13	12	108	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	13	13	107	150	150	20
Visayas	2027	4	13	14	114	150	150	20
Visayas	2027	4	13	15	112	150	150	20
Visayas	2027	4	13	16	111	150	150	20
Visayas	2027	4	13	17	101	150	150	20
Visayas	2027	4	13	18	105	150	150	20
Visayas	2027	4	13	19	105	150	150	20
Visayas	2027	4	13	20	100	150	150	20
Visayas	2027	4	13	21	95	150	150	20
Visayas	2027	4	13	22	84	150	150	20
Visayas	2027	4	13	23	76	150	150	20
Visayas	2027	4	13	24	70	150	150	20
Visayas	2027	4	14	1	66	150	150	20
Visayas	2027	4	14	2	64	150	150	20
Visayas	2027	4	14	3	62	150	150	20
Visayas	2027	4	14	4	61	150	150	20
Visayas	2027	4	14	5	66	150	150	20
Visayas	2027	4	14	6	73	150	150	20
Visayas	2027	4	14	7	67	150	150	20
Visayas	2027	4	14	8	82	150	150	20
Visayas	2027	4	14	9	101	150	150	20
Visayas	2027	4	14	10	110	150	150	20
Visayas	2027	4	14	11	115	150	150	20
Visayas	2027	4	14	12	111	150	150	20
Visayas	2027	4	14	13	113	150	150	20
Visayas	2027	4	14	14	121	150	150	20
Visayas	2027	4	14	15	122	150	150	20
Visayas	2027	4	14	16	121	150	150	20
Visayas	2027	4	14	17	112	150	150	20
Visayas	2027	4	14	18	113	150	150	20
Visayas	2027	4	14	19	115	150	150	20
Visayas	2027	4	14	20	109	150	150	20
Visayas	2027	4	14	21	104	150	150	20
Visayas	2027	4	14	22	97	150	150	20
Visayas	2027	4	14	23	87	150	150	20
Visayas	2027	4	14	24	81	150	150	20
Visayas	2027	4	15	1	74	150	150	20
Visayas	2027	4	15	2	70	150	150	20
Visayas	2027	4	15	3	67	150	150	20
Visayas	2027	4	15	4	66	150	150	20
Visayas	2027	4	15	5	70	150	150	20
Visayas	2027	4	15	6	75	150	150	20
Visayas	2027	4	15	7	70	150	150	20
Visayas	2027	4	15	8	85	150	150	20
Visayas	2027	4	15	9	107	150	150	20
Visayas	2027	4	15	10	114	150	150	20
Visayas	2027	4	15	11	121	150	150	20
Visayas	2027	4	15	12	118	150	150	20
Visayas	2027	4	15	13	117	150	150	20
Visayas	2027	4	15	14	125	150	150	20
Visayas	2027	4	15	15	127	150	150	20
Visayas	2027	4	15	16	123	150	150	20
Visayas	2027	4	15	17	114	150	150	20
Visayas	2027	4	15	18	115	150	150	20
Visayas	2027	4	15	19	118	150	150	20
Visayas	2027	4	15	20	113	150	150	20
Visayas	2027	4	15	21	108	150	150	20
Visayas	2027	4	15	22	98	150	150	20
Visayas	2027	4	15	23	92	150	150	20
Visayas	2027	4	15	24	84	150	150	20
Visayas	2027	4	16	1	80	150	150	20
Visayas	2027	4	16	2	75	150	150	20
Visayas	2027	4	16	3	72	150	150	20
Visayas	2027	4	16	4	69	150	150	20
Visayas	2027	4	16	5	73	150	150	20
Visayas	2027	4	16	6	79	150	150	20
Visayas	2027	4	16	7	73	150	150	20
Visayas	2027	4	16	8	89	150	150	20
Visayas	2027	4	16	9	111	150	150	20
Visayas	2027	4	16	10	123	150	150	20
Visayas	2027	4	16	11	126	150	150	20
Visayas	2027	4	16	12	125	150	150	20
Visayas	2027	4	16	13	126	150	150	20
Visayas	2027	4	16	14	131	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	16	15	129	150	150	20
Visayas	2027	4	16	16	124	150	150	20
Visayas	2027	4	16	17	116	150	150	20
Visayas	2027	4	16	18	115	150	150	20
Visayas	2027	4	16	19	120	150	150	20
Visayas	2027	4	16	20	114	150	150	20
Visayas	2027	4	16	21	110	150	150	20
Visayas	2027	4	16	22	100	150	150	20
Visayas	2027	4	16	23	92	150	150	20
Visayas	2027	4	16	24	85	150	150	20
Visayas	2027	4	17	1	82	150	150	20
Visayas	2027	4	17	2	78	150	150	20
Visayas	2027	4	17	3	74	150	150	20
Visayas	2027	4	17	4	72	150	150	20
Visayas	2027	4	17	5	72	150	150	20
Visayas	2027	4	17	6	73	150	150	20
Visayas	2027	4	17	7	69	150	150	20
Visayas	2027	4	17	8	82	150	150	20
Visayas	2027	4	17	9	100	150	150	20
Visayas	2027	4	17	10	107	150	150	20
Visayas	2027	4	17	11	115	150	150	20
Visayas	2027	4	17	12	113	150	150	20
Visayas	2027	4	17	13	113	150	150	20
Visayas	2027	4	17	14	119	150	150	20
Visayas	2027	4	17	15	117	150	150	20
Visayas	2027	4	17	16	114	150	150	20
Visayas	2027	4	17	17	106	150	150	20
Visayas	2027	4	17	18	106	150	150	20
Visayas	2027	4	17	19	118	150	150	20
Visayas	2027	4	17	20	114	150	150	20
Visayas	2027	4	17	21	107	150	150	20
Visayas	2027	4	17	22	103	150	150	20
Visayas	2027	4	17	23	96	150	150	20
Visayas	2027	4	17	24	90	150	150	20
Visayas	2027	4	18	1	87	150	150	20
Visayas	2027	4	18	2	81	150	150	20
Visayas	2027	4	18	3	77	150	150	20
Visayas	2027	4	18	4	70	150	150	20
Visayas	2027	4	18	5	71	150	150	20
Visayas	2027	4	18	6	70	150	150	20
Visayas	2027	4	18	7	69	150	150	20
Visayas	2027	4	18	8	74	150	150	20
Visayas	2027	4	18	9	83	150	150	20
Visayas	2027	4	18	10	90	150	150	20
Visayas	2027	4	18	11	95	150	150	20
Visayas	2027	4	18	12	95	150	150	20
Visayas	2027	4	18	13	99	150	150	20
Visayas	2027	4	18	14	100	150	150	20
Visayas	2027	4	18	15	100	150	150	20
Visayas	2027	4	18	16	95	150	150	20
Visayas	2027	4	18	17	94	150	150	20
Visayas	2027	4	18	18	101	150	150	20
Visayas	2027	4	18	19	113	150	150	20
Visayas	2027	4	18	20	110	150	150	20
Visayas	2027	4	18	21	107	150	150	20
Visayas	2027	4	18	22	102	150	150	20
Visayas	2027	4	18	23	94	150	150	20
Visayas	2027	4	18	24	87	150	150	20
Visayas	2027	4	19	1	82	150	150	20
Visayas	2027	4	19	2	78	150	150	20
Visayas	2027	4	19	3	75	150	150	20
Visayas	2027	4	19	4	74	150	150	20
Visayas	2027	4	19	5	77	150	150	20
Visayas	2027	4	19	6	82	150	150	20
Visayas	2027	4	19	7	77	150	150	20
Visayas	2027	4	19	8	93	150	150	20
Visayas	2027	4	19	9	117	150	150	20
Visayas	2027	4	19	10	124	150	150	20
Visayas	2027	4	19	11	129	150	150	20
Visayas	2027	4	19	12	131	150	150	20
Visayas	2027	4	19	13	132	150	150	20
Visayas	2027	4	19	14	137	150	150	20
Visayas	2027	4	19	15	137	150	150	20
Visayas	2027	4	19	16	134	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	19	17	125	150	150	20
Visayas	2027	4	19	18	124	150	150	20
Visayas	2027	4	19	19	129	150	150	20
Visayas	2027	4	19	20	123	150	150	20
Visayas	2027	4	19	21	119	150	150	20
Visayas	2027	4	19	22	110	150	150	20
Visayas	2027	4	19	23	103	150	150	20
Visayas	2027	4	19	24	95	150	150	20
Visayas	2027	4	20	1	90	150	150	20
Visayas	2027	4	20	2	87	150	150	20
Visayas	2027	4	20	3	83	150	150	20
Visayas	2027	4	20	4	81	150	150	20
Visayas	2027	4	20	5	85	150	150	20
Visayas	2027	4	20	6	87	150	150	20
Visayas	2027	4	20	7	83	150	150	20
Visayas	2027	4	20	8	98	150	150	20
Visayas	2027	4	20	9	117	150	150	20
Visayas	2027	4	20	10	126	150	150	20
Visayas	2027	4	20	11	132	150	150	20
Visayas	2027	4	20	12	130	150	150	20
Visayas	2027	4	20	13	131	150	150	20
Visayas	2027	4	20	14	137	150	150	20
Visayas	2027	4	20	15	135	150	150	20
Visayas	2027	4	20	16	133	150	150	20
Visayas	2027	4	20	17	121	150	150	20
Visayas	2027	4	20	18	122	150	150	20
Visayas	2027	4	20	19	127	150	150	20
Visayas	2027	4	20	20	121	150	150	20
Visayas	2027	4	20	21	118	150	150	20
Visayas	2027	4	20	22	110	150	150	20
Visayas	2027	4	20	23	102	150	150	20
Visayas	2027	4	20	24	95	150	150	20
Visayas	2027	4	21	1	89	150	150	20
Visayas	2027	4	21	2	85	150	150	20
Visayas	2027	4	21	3	80	150	150	20
Visayas	2027	4	21	4	79	150	150	20
Visayas	2027	4	21	5	82	150	150	20
Visayas	2027	4	21	6	84	150	150	20
Visayas	2027	4	21	7	79	150	150	20
Visayas	2027	4	21	8	96	150	150	20
Visayas	2027	4	21	9	116	150	150	20
Visayas	2027	4	21	10	125	150	150	20
Visayas	2027	4	21	11	127	150	150	20
Visayas	2027	4	21	12	127	150	150	20
Visayas	2027	4	21	13	130	150	150	20
Visayas	2027	4	21	14	136	150	150	20
Visayas	2027	4	21	15	137	150	150	20
Visayas	2027	4	21	16	133	150	150	20
Visayas	2027	4	21	17	122	150	150	20
Visayas	2027	4	21	18	121	150	150	20
Visayas	2027	4	21	19	128	150	150	20
Visayas	2027	4	21	20	123	150	150	20
Visayas	2027	4	21	21	120	150	150	20
Visayas	2027	4	21	22	112	150	150	20
Visayas	2027	4	21	23	103	150	150	20
Visayas	2027	4	21	24	96	150	150	20
Visayas	2027	4	22	1	92	150	150	20
Visayas	2027	4	22	2	87	150	150	20
Visayas	2027	4	22	3	82	150	150	20
Visayas	2027	4	22	4	80	150	150	20
Visayas	2027	4	22	5	83	150	150	20
Visayas	2027	4	22	6	84	150	150	20
Visayas	2027	4	22	7	80	150	150	20
Visayas	2027	4	22	8	97	150	150	20
Visayas	2027	4	22	9	118	150	150	20
Visayas	2027	4	22	10	128	150	150	20
Visayas	2027	4	22	11	132	150	150	20
Visayas	2027	4	22	12	127	150	150	20
Visayas	2027	4	22	13	129	150	150	20
Visayas	2027	4	22	14	136	150	150	20
Visayas	2027	4	22	15	135	150	150	20
Visayas	2027	4	22	16	130	150	150	20
Visayas	2027	4	22	17	119	150	150	20
Visayas	2027	4	22	18	119	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	22	19	127	150	150	20
Visayas	2027	4	22	20	118	150	150	20
Visayas	2027	4	22	21	119	150	150	20
Visayas	2027	4	22	22	111	150	150	20
Visayas	2027	4	22	23	104	150	150	20
Visayas	2027	4	22	24	97	150	150	20
Visayas	2027	4	23	1	92	150	150	20
Visayas	2027	4	23	2	89	150	150	20
Visayas	2027	4	23	3	85	150	150	20
Visayas	2027	4	23	4	81	150	150	20
Visayas	2027	4	23	5	80	150	150	20
Visayas	2027	4	23	6	81	150	150	20
Visayas	2027	4	23	7	82	150	150	20
Visayas	2027	4	23	8	92	150	150	20
Visayas	2027	4	23	9	105	150	150	20
Visayas	2027	4	23	10	115	150	150	20
Visayas	2027	4	23	11	120	150	150	20
Visayas	2027	4	23	12	114	150	150	20
Visayas	2027	4	23	13	120	150	150	20
Visayas	2027	4	23	14	122	150	150	20
Visayas	2027	4	23	15	120	150	150	20
Visayas	2027	4	23	16	113	150	150	20
Visayas	2027	4	23	17	108	150	150	20
Visayas	2027	4	23	18	113	150	150	20
Visayas	2027	4	23	19	118	150	150	20
Visayas	2027	4	23	20	116	150	150	20
Visayas	2027	4	23	21	113	150	150	20
Visayas	2027	4	23	22	107	150	150	20
Visayas	2027	4	23	23	99	150	150	20
Visayas	2027	4	23	24	91	150	150	20
Visayas	2027	4	24	1	87	150	150	20
Visayas	2027	4	24	2	83	150	150	20
Visayas	2027	4	24	3	78	150	150	20
Visayas	2027	4	24	4	75	150	150	20
Visayas	2027	4	24	5	75	150	150	20
Visayas	2027	4	24	6	74	150	150	20
Visayas	2027	4	24	7	69	150	150	20
Visayas	2027	4	24	8	79	150	150	20
Visayas	2027	4	24	9	92	150	150	20
Visayas	2027	4	24	10	101	150	150	20
Visayas	2027	4	24	11	107	150	150	20
Visayas	2027	4	24	12	105	150	150	20
Visayas	2027	4	24	13	104	150	150	20
Visayas	2027	4	24	14	111	150	150	20
Visayas	2027	4	24	15	109	150	150	20
Visayas	2027	4	24	16	106	150	150	20
Visayas	2027	4	24	17	98	150	150	20
Visayas	2027	4	24	18	109	150	150	20
Visayas	2027	4	24	19	119	150	150	20
Visayas	2027	4	24	20	113	150	150	20
Visayas	2027	4	24	21	110	150	150	20
Visayas	2027	4	24	22	103	150	150	20
Visayas	2027	4	24	23	98	150	150	20
Visayas	2027	4	24	24	92	150	150	20
Visayas	2027	4	25	1	88	150	150	20
Visayas	2027	4	25	2	85	150	150	20
Visayas	2027	4	25	3	80	150	150	20
Visayas	2027	4	25	4	73	150	150	20
Visayas	2027	4	25	5	76	150	150	20
Visayas	2027	4	25	6	74	150	150	20
Visayas	2027	4	25	7	71	150	150	20
Visayas	2027	4	25	8	76	150	150	20
Visayas	2027	4	25	9	86	150	150	20
Visayas	2027	4	25	10	94	150	150	20
Visayas	2027	4	25	11	99	150	150	20
Visayas	2027	4	25	12	97	150	150	20
Visayas	2027	4	25	13	99	150	150	20
Visayas	2027	4	25	14	101	150	150	20
Visayas	2027	4	25	15	100	150	150	20
Visayas	2027	4	25	16	97	150	150	20
Visayas	2027	4	25	17	92	150	150	20
Visayas	2027	4	25	18	104	150	150	20
Visayas	2027	4	25	19	113	150	150	20
Visayas	2027	4	25	20	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	25	21	112	150	150	20
Visayas	2027	4	25	22	107	150	150	20
Visayas	2027	4	25	23	101	150	150	20
Visayas	2027	4	25	24	94	150	150	20
Visayas	2027	4	26	1	88	150	150	20
Visayas	2027	4	26	2	83	150	150	20
Visayas	2027	4	26	3	78	150	150	20
Visayas	2027	4	26	4	76	150	150	20
Visayas	2027	4	26	5	79	150	150	20
Visayas	2027	4	26	6	81	150	150	20
Visayas	2027	4	26	7	79	150	150	20
Visayas	2027	4	26	8	97	150	150	20
Visayas	2027	4	26	9	118	150	150	20
Visayas	2027	4	26	10	128	150	150	20
Visayas	2027	4	26	11	133	150	150	20
Visayas	2027	4	26	12	131	150	150	20
Visayas	2027	4	26	13	132	150	150	20
Visayas	2027	4	26	14	136	150	150	20
Visayas	2027	4	26	15	135	150	150	20
Visayas	2027	4	26	16	132	150	150	20
Visayas	2027	4	26	17	119	150	150	20
Visayas	2027	4	26	18	120	150	150	20
Visayas	2027	4	26	19	126	150	150	20
Visayas	2027	4	26	20	120	150	150	20
Visayas	2027	4	26	21	117	150	150	20
Visayas	2027	4	26	22	111	150	150	20
Visayas	2027	4	26	23	102	150	150	20
Visayas	2027	4	26	24	96	150	150	20
Visayas	2027	4	27	1	90	150	150	20
Visayas	2027	4	27	2	86	150	150	20
Visayas	2027	4	27	3	82	150	150	20
Visayas	2027	4	27	4	80	150	150	20
Visayas	2027	4	27	5	81	150	150	20
Visayas	2027	4	27	6	83	150	150	20
Visayas	2027	4	27	7	79	150	150	20
Visayas	2027	4	27	8	96	150	150	20
Visayas	2027	4	27	9	116	150	150	20
Visayas	2027	4	27	10	125	150	150	20
Visayas	2027	4	27	11	128	150	150	20
Visayas	2027	4	27	12	126	150	150	20
Visayas	2027	4	27	13	126	150	150	20
Visayas	2027	4	27	14	130	150	150	20
Visayas	2027	4	27	15	127	150	150	20
Visayas	2027	4	27	16	123	150	150	20
Visayas	2027	4	27	17	114	150	150	20
Visayas	2027	4	27	18	117	150	150	20
Visayas	2027	4	27	19	124	150	150	20
Visayas	2027	4	27	20	118	150	150	20
Visayas	2027	4	27	21	114	150	150	20
Visayas	2027	4	27	22	105	150	150	20
Visayas	2027	4	27	23	99	150	150	20
Visayas	2027	4	27	24	92	150	150	20
Visayas	2027	4	28	1	86	150	150	20
Visayas	2027	4	28	2	82	150	150	20
Visayas	2027	4	28	3	78	150	150	20
Visayas	2027	4	28	4	76	150	150	20
Visayas	2027	4	28	5	79	150	150	20
Visayas	2027	4	28	6	82	150	150	20
Visayas	2027	4	28	7	79	150	150	20
Visayas	2027	4	28	8	96	150	150	20
Visayas	2027	4	28	9	117	150	150	20
Visayas	2027	4	28	10	126	150	150	20
Visayas	2027	4	28	11	132	150	150	20
Visayas	2027	4	28	12	129	150	150	20
Visayas	2027	4	28	13	132	150	150	20
Visayas	2027	4	28	14	139	150	150	20
Visayas	2027	4	28	15	135	150	150	20
Visayas	2027	4	28	16	130	150	150	20
Visayas	2027	4	28	17	121	150	150	20
Visayas	2027	4	28	18	120	150	150	20
Visayas	2027	4	28	19	125	150	150	20
Visayas	2027	4	28	20	121	150	150	20
Visayas	2027	4	28	21	117	150	150	20
Visayas	2027	4	28	22	110	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	4	28	23	103	150	150	20
Visayas	2027	4	28	24	96	150	150	20
Visayas	2027	4	29	1	90	150	150	20
Visayas	2027	4	29	2	87	150	150	20
Visayas	2027	4	29	3	83	150	150	20
Visayas	2027	4	29	4	81	150	150	20
Visayas	2027	4	29	5	83	150	150	20
Visayas	2027	4	29	6	85	150	150	20
Visayas	2027	4	29	7	81	150	150	20
Visayas	2027	4	29	8	98	150	150	20
Visayas	2027	4	29	9	119	150	150	20
Visayas	2027	4	29	10	129	150	150	20
Visayas	2027	4	29	11	133	150	150	20
Visayas	2027	4	29	12	129	150	150	20
Visayas	2027	4	29	13	133	150	150	20
Visayas	2027	4	29	14	89	150	150	20
Visayas	2027	4	29	15	101	150	150	20
Visayas	2027	4	29	16	106	150	150	20
Visayas	2027	4	29	17	88	150	150	20
Visayas	2027	4	29	18	96	150	150	20
Visayas	2027	4	29	19	103	150	150	20
Visayas	2027	4	29	20	106	150	150	20
Visayas	2027	4	29	21	108	150	150	20
Visayas	2027	4	29	22	108	150	150	20
Visayas	2027	4	29	23	103	150	150	20
Visayas	2027	4	29	24	98	150	150	20
Visayas	2027	4	30	1	92	150	150	20
Visayas	2027	4	30	2	89	150	150	20
Visayas	2027	4	30	3	85	150	150	20
Visayas	2027	4	30	4	81	150	150	20
Visayas	2027	4	30	5	83	150	150	20
Visayas	2027	4	30	6	85	150	150	20
Visayas	2027	4	30	7	82	150	150	20
Visayas	2027	4	30	8	100	150	150	20
Visayas	2027	4	30	9	121	150	150	20
Visayas	2027	4	30	10	128	150	150	20
Visayas	2027	4	30	11	133	150	150	20
Visayas	2027	4	30	12	127	150	150	20
Visayas	2027	4	30	13	131	150	150	20
Visayas	2027	4	30	14	137	150	150	20
Visayas	2027	4	30	15	92	150	150	20
Visayas	2027	4	30	16	88	150	150	20
Visayas	2027	4	30	17	83	150	150	20
Visayas	2027	4	30	18	90	150	150	20
Visayas	2027	4	30	19	95	150	150	20
Visayas	2027	4	30	20	96	150	150	20
Visayas	2027	4	30	21	98	150	150	20
Visayas	2027	4	30	22	95	150	150	20
Visayas	2027	4	30	23	92	150	150	20
Visayas	2027	4	30	24	89	150	150	20
Visayas	2027	5	1	1	80	150	150	20
Visayas	2027	5	1	2	77	150	150	20
Visayas	2027	5	1	3	73	150	150	20
Visayas	2027	5	1	4	71	150	150	20
Visayas	2027	5	1	5	70	150	150	20
Visayas	2027	5	1	6	70	150	150	20
Visayas	2027	5	1	7	71	150	150	20
Visayas	2027	5	1	8	79	150	150	20
Visayas	2027	5	1	9	90	150	150	20
Visayas	2027	5	1	10	97	150	150	20
Visayas	2027	5	1	11	103	150	150	20
Visayas	2027	5	1	12	104	150	150	20
Visayas	2027	5	1	13	106	150	150	20
Visayas	2027	5	1	14	110	150	150	20
Visayas	2027	5	1	15	111	150	150	20
Visayas	2027	5	1	16	108	150	150	20
Visayas	2027	5	1	17	103	150	150	20
Visayas	2027	5	1	18	107	150	150	20
Visayas	2027	5	1	19	117	150	150	20
Visayas	2027	5	1	20	114	150	150	20
Visayas	2027	5	1	21	112	150	150	20
Visayas	2027	5	1	22	107	150	150	20
Visayas	2027	5	1	23	100	150	150	20
Visayas	2027	5	1	24	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	2	1	80	150	150	20
Visayas	2027	5	2	2	78	150	150	20
Visayas	2027	5	2	3	76	150	150	20
Visayas	2027	5	2	4	74	150	150	20
Visayas	2027	5	2	5	73	150	150	20
Visayas	2027	5	2	6	72	150	150	20
Visayas	2027	5	2	7	70	150	150	20
Visayas	2027	5	2	8	75	150	150	20
Visayas	2027	5	2	9	85	150	150	20
Visayas	2027	5	2	10	92	150	150	20
Visayas	2027	5	2	11	95	150	150	20
Visayas	2027	5	2	12	95	150	150	20
Visayas	2027	5	2	13	95	150	150	20
Visayas	2027	5	2	14	96	150	150	20
Visayas	2027	5	2	15	93	150	150	20
Visayas	2027	5	2	16	89	150	150	20
Visayas	2027	5	2	17	92	150	150	20
Visayas	2027	5	2	18	101	150	150	20
Visayas	2027	5	2	19	105	150	150	20
Visayas	2027	5	2	20	103	150	150	20
Visayas	2027	5	2	21	101	150	150	20
Visayas	2027	5	2	22	96	150	150	20
Visayas	2027	5	2	23	91	150	150	20
Visayas	2027	5	2	24	84	150	150	20
Visayas	2027	5	3	1	83	150	150	20
Visayas	2027	5	3	2	80	150	150	20
Visayas	2027	5	3	3	75	150	150	20
Visayas	2027	5	3	4	74	150	150	20
Visayas	2027	5	3	5	76	150	150	20
Visayas	2027	5	3	6	78	150	150	20
Visayas	2027	5	3	7	77	150	150	20
Visayas	2027	5	3	8	97	150	150	20
Visayas	2027	5	3	9	116	150	150	20
Visayas	2027	5	3	10	125	150	150	20
Visayas	2027	5	3	11	131	150	150	20
Visayas	2027	5	3	12	130	150	150	20
Visayas	2027	5	3	13	135	150	150	20
Visayas	2027	5	3	14	138	150	150	20
Visayas	2027	5	3	15	135	150	150	20
Visayas	2027	5	3	16	131	150	150	20
Visayas	2027	5	3	17	121	150	150	20
Visayas	2027	5	3	18	120	150	150	20
Visayas	2027	5	3	19	126	150	150	20
Visayas	2027	5	3	20	121	150	150	20
Visayas	2027	5	3	21	118	150	150	20
Visayas	2027	5	3	22	109	150	150	20
Visayas	2027	5	3	23	102	150	150	20
Visayas	2027	5	3	24	94	150	150	20
Visayas	2027	5	4	1	89	150	150	20
Visayas	2027	5	4	2	84	150	150	20
Visayas	2027	5	4	3	80	150	150	20
Visayas	2027	5	4	4	77	150	150	20
Visayas	2027	5	4	5	79	150	150	20
Visayas	2027	5	4	6	82	150	150	20
Visayas	2027	5	4	7	79	150	150	20
Visayas	2027	5	4	8	96	150	150	20
Visayas	2027	5	4	9	117	150	150	20
Visayas	2027	5	4	10	125	150	150	20
Visayas	2027	5	4	11	129	150	150	20
Visayas	2027	5	4	12	127	150	150	20
Visayas	2027	5	4	13	128	150	150	20
Visayas	2027	5	4	14	133	150	150	20
Visayas	2027	5	4	15	128	150	150	20
Visayas	2027	5	4	16	126	150	150	20
Visayas	2027	5	4	17	118	150	150	20
Visayas	2027	5	4	18	119	150	150	20
Visayas	2027	5	4	19	122	150	150	20
Visayas	2027	5	4	20	112	150	150	20
Visayas	2027	5	4	21	111	150	150	20
Visayas	2027	5	4	22	103	150	150	20
Visayas	2027	5	4	23	95	150	150	20
Visayas	2027	5	4	24	88	150	150	20
Visayas	2027	5	5	1	83	150	150	20
Visayas	2027	5	5	2	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	5	3	75	150	150	20
Visayas	2027	5	5	4	73	150	150	20
Visayas	2027	5	5	5	77	150	150	20
Visayas	2027	5	5	6	81	150	150	20
Visayas	2027	5	5	7	78	150	150	20
Visayas	2027	5	5	8	90	150	150	20
Visayas	2027	5	5	9	107	150	150	20
Visayas	2027	5	5	10	113	150	150	20
Visayas	2027	5	5	11	115	150	150	20
Visayas	2027	5	5	12	109	150	150	20
Visayas	2027	5	5	13	108	150	150	20
Visayas	2027	5	5	14	113	150	150	20
Visayas	2027	5	5	15	111	150	150	20
Visayas	2027	5	5	16	109	150	150	20
Visayas	2027	5	5	17	106	150	150	20
Visayas	2027	5	5	18	109	150	150	20
Visayas	2027	5	5	19	106	150	150	20
Visayas	2027	5	5	20	100	150	150	20
Visayas	2027	5	5	21	92	150	150	20
Visayas	2027	5	5	22	84	150	150	20
Visayas	2027	5	5	23	79	150	150	20
Visayas	2027	5	5	24	75	150	150	20
Visayas	2027	5	6	1	71	150	150	20
Visayas	2027	5	6	2	68	150	150	20
Visayas	2027	5	6	3	67	150	150	20
Visayas	2027	5	6	4	66	150	150	20
Visayas	2027	5	6	5	69	150	150	20
Visayas	2027	5	6	6	74	150	150	20
Visayas	2027	5	6	7	72	150	150	20
Visayas	2027	5	6	8	87	150	150	20
Visayas	2027	5	6	9	105	150	150	20
Visayas	2027	5	6	10	116	150	150	20
Visayas	2027	5	6	11	120	150	150	20
Visayas	2027	5	6	12	118	150	150	20
Visayas	2027	5	6	13	119	150	150	20
Visayas	2027	5	6	14	126	150	150	20
Visayas	2027	5	6	15	123	150	150	20
Visayas	2027	5	6	16	117	150	150	20
Visayas	2027	5	6	17	112	150	150	20
Visayas	2027	5	6	18	115	150	150	20
Visayas	2027	5	6	19	114	150	150	20
Visayas	2027	5	6	20	108	150	150	20
Visayas	2027	5	6	21	102	150	150	20
Visayas	2027	5	6	22	95	150	150	20
Visayas	2027	5	6	23	88	150	150	20
Visayas	2027	5	6	24	82	150	150	20
Visayas	2027	5	7	1	74	150	150	20
Visayas	2027	5	7	2	74	150	150	20
Visayas	2027	5	7	3	70	150	150	20
Visayas	2027	5	7	4	70	150	150	20
Visayas	2027	5	7	5	73	150	150	20
Visayas	2027	5	7	6	76	150	150	20
Visayas	2027	5	7	7	76	150	150	20
Visayas	2027	5	7	8	92	150	150	20
Visayas	2027	5	7	9	109	150	150	20
Visayas	2027	5	7	10	121	150	150	20
Visayas	2027	5	7	11	129	150	150	20
Visayas	2027	5	7	12	126	150	150	20
Visayas	2027	5	7	13	116	150	150	20
Visayas	2027	5	7	14	132	150	150	20
Visayas	2027	5	7	15	131	150	150	20
Visayas	2027	5	7	16	126	150	150	20
Visayas	2027	5	7	17	115	150	150	20
Visayas	2027	5	7	18	119	150	150	20
Visayas	2027	5	7	19	115	150	150	20
Visayas	2027	5	7	20	112	150	150	20
Visayas	2027	5	7	21	108	150	150	20
Visayas	2027	5	7	22	101	150	150	20
Visayas	2027	5	7	23	94	150	150	20
Visayas	2027	5	7	24	88	150	150	20
Visayas	2027	5	8	1	83	150	150	20
Visayas	2027	5	8	2	79	150	150	20
Visayas	2027	5	8	3	76	150	150	20
Visayas	2027	5	8	4	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	8	5	73	150	150	20
Visayas	2027	5	8	6	73	150	150	20
Visayas	2027	5	8	7	71	150	150	20
Visayas	2027	5	8	8	86	150	150	20
Visayas	2027	5	8	9	98	150	150	20
Visayas	2027	5	8	10	107	150	150	20
Visayas	2027	5	8	11	112	150	150	20
Visayas	2027	5	8	12	110	150	150	20
Visayas	2027	5	8	13	114	150	150	20
Visayas	2027	5	8	14	117	150	150	20
Visayas	2027	5	8	15	113	150	150	20
Visayas	2027	5	8	16	111	150	150	20
Visayas	2027	5	8	17	101	150	150	20
Visayas	2027	5	8	18	110	150	150	20
Visayas	2027	5	8	19	115	150	150	20
Visayas	2027	5	8	20	109	150	150	20
Visayas	2027	5	8	21	106	150	150	20
Visayas	2027	5	8	22	99	150	150	20
Visayas	2027	5	8	23	93	150	150	20
Visayas	2027	5	8	24	87	150	150	20
Visayas	2027	5	9	1	81	150	150	20
Visayas	2027	5	9	2	77	150	150	20
Visayas	2027	5	9	3	73	150	150	20
Visayas	2027	5	9	4	71	150	150	20
Visayas	2027	5	9	5	70	150	150	20
Visayas	2027	5	9	6	68	150	150	20
Visayas	2027	5	9	7	67	150	150	20
Visayas	2027	5	9	8	73	150	150	20
Visayas	2027	5	9	9	82	150	150	20
Visayas	2027	5	9	10	89	150	150	20
Visayas	2027	5	9	11	94	150	150	20
Visayas	2027	5	9	12	93	150	150	20
Visayas	2027	5	9	13	96	150	150	20
Visayas	2027	5	9	14	99	150	150	20
Visayas	2027	5	9	15	99	150	150	20
Visayas	2027	5	9	16	96	150	150	20
Visayas	2027	5	9	17	94	150	150	20
Visayas	2027	5	9	18	100	150	150	20
Visayas	2027	5	9	19	110	150	150	20
Visayas	2027	5	9	20	113	150	150	20
Visayas	2027	5	9	21	108	150	150	20
Visayas	2027	5	9	22	103	150	150	20
Visayas	2027	5	9	23	96	150	150	20
Visayas	2027	5	9	24	89	150	150	20
Visayas	2027	5	10	1	83	150	150	20
Visayas	2027	5	10	2	80	150	150	20
Visayas	2027	5	10	3	75	150	150	20
Visayas	2027	5	10	4	74	150	150	20
Visayas	2027	5	10	5	76	150	150	20
Visayas	2027	5	10	6	78	150	150	20
Visayas	2027	5	10	7	77	150	150	20
Visayas	2027	5	10	8	97	150	150	20
Visayas	2027	5	10	9	116	150	150	20
Visayas	2027	5	10	10	125	150	150	20
Visayas	2027	5	10	11	131	150	150	20
Visayas	2027	5	10	12	130	150	150	20
Visayas	2027	5	10	13	135	150	150	20
Visayas	2027	5	10	14	138	150	150	20
Visayas	2027	5	10	15	135	150	150	20
Visayas	2027	5	10	16	131	150	150	20
Visayas	2027	5	10	17	121	150	150	20
Visayas	2027	5	10	18	120	150	150	20
Visayas	2027	5	10	19	126	150	150	20
Visayas	2027	5	10	20	121	150	150	20
Visayas	2027	5	10	21	118	150	150	20
Visayas	2027	5	10	22	109	150	150	20
Visayas	2027	5	10	23	102	150	150	20
Visayas	2027	5	10	24	94	150	150	20
Visayas	2027	5	11	1	89	150	150	20
Visayas	2027	5	11	2	84	150	150	20
Visayas	2027	5	11	3	80	150	150	20
Visayas	2027	5	11	4	78	150	150	20
Visayas	2027	5	11	5	81	150	150	20
Visayas	2027	5	11	6	79	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	11	7	79	150	150	20
Visayas	2027	5	11	8	99	150	150	20
Visayas	2027	5	11	9	121	150	150	20
Visayas	2027	5	11	10	129	150	150	20
Visayas	2027	5	11	11	134	150	150	20
Visayas	2027	5	11	12	131	150	150	20
Visayas	2027	5	11	13	134	150	150	20
Visayas	2027	5	11	14	139	150	150	20
Visayas	2027	5	11	15	138	150	150	20
Visayas	2027	5	11	16	136	150	150	20
Visayas	2027	5	11	17	124	150	150	20
Visayas	2027	5	11	18	122	150	150	20
Visayas	2027	5	11	19	129	150	150	20
Visayas	2027	5	11	20	124	150	150	20
Visayas	2027	5	11	21	119	150	150	20
Visayas	2027	5	11	22	111	150	150	20
Visayas	2027	5	11	23	103	150	150	20
Visayas	2027	5	11	24	96	150	150	20
Visayas	2027	5	12	1	89	150	150	20
Visayas	2027	5	12	2	86	150	150	20
Visayas	2027	5	12	3	80	150	150	20
Visayas	2027	5	12	4	78	150	150	20
Visayas	2027	5	12	5	82	150	150	20
Visayas	2027	5	12	6	82	150	150	20
Visayas	2027	5	12	7	81	150	150	20
Visayas	2027	5	12	8	99	150	150	20
Visayas	2027	5	12	9	120	150	150	20
Visayas	2027	5	12	10	129	150	150	20
Visayas	2027	5	12	11	134	150	150	20
Visayas	2027	5	12	12	132	150	150	20
Visayas	2027	5	12	13	134	150	150	20
Visayas	2027	5	12	14	141	150	150	20
Visayas	2027	5	12	15	140	150	150	20
Visayas	2027	5	12	16	137	150	150	20
Visayas	2027	5	12	17	126	150	150	20
Visayas	2027	5	12	18	124	150	150	20
Visayas	2027	5	12	19	130	150	150	20
Visayas	2027	5	12	20	126	150	150	20
Visayas	2027	5	12	21	121	150	150	20
Visayas	2027	5	12	22	113	150	150	20
Visayas	2027	5	12	23	105	150	150	20
Visayas	2027	5	12	24	98	150	150	20
Visayas	2027	5	13	1	91	150	150	20
Visayas	2027	5	13	2	87	150	150	20
Visayas	2027	5	13	3	83	150	150	20
Visayas	2027	5	13	4	80	150	150	20
Visayas	2027	5	13	5	83	150	150	20
Visayas	2027	5	13	6	82	150	150	20
Visayas	2027	5	13	7	83	150	150	20
Visayas	2027	5	13	8	102	150	150	20
Visayas	2027	5	13	9	122	150	150	20
Visayas	2027	5	13	10	132	150	150	20
Visayas	2027	5	13	11	136	150	150	20
Visayas	2027	5	13	12	134	150	150	20
Visayas	2027	5	13	13	136	150	150	20
Visayas	2027	5	13	14	136	150	150	20
Visayas	2027	5	13	15	137	150	150	20
Visayas	2027	5	13	16	136	150	150	20
Visayas	2027	5	13	17	126	150	150	20
Visayas	2027	5	13	18	126	150	150	20
Visayas	2027	5	13	19	131	150	150	20
Visayas	2027	5	13	20	127	150	150	20
Visayas	2027	5	13	21	123	150	150	20
Visayas	2027	5	13	22	114	150	150	20
Visayas	2027	5	13	23	106	150	150	20
Visayas	2027	5	13	24	99	150	150	20
Visayas	2027	5	14	1	95	150	150	20
Visayas	2027	5	14	2	89	150	150	20
Visayas	2027	5	14	3	85	150	150	20
Visayas	2027	5	14	4	84	150	150	20
Visayas	2027	5	14	5	86	150	150	20
Visayas	2027	5	14	6	86	150	150	20
Visayas	2027	5	14	7	84	150	150	20
Visayas	2027	5	14	8	101	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	14	9	120	150	150	20
Visayas	2027	5	14	10	129	150	150	20
Visayas	2027	5	14	11	133	150	150	20
Visayas	2027	5	14	12	131	150	150	20
Visayas	2027	5	14	13	135	150	150	20
Visayas	2027	5	14	14	140	150	150	20
Visayas	2027	5	14	15	138	150	150	20
Visayas	2027	5	14	16	135	150	150	20
Visayas	2027	5	14	17	124	150	150	20
Visayas	2027	5	14	18	124	150	150	20
Visayas	2027	5	14	19	129	150	150	20
Visayas	2027	5	14	20	123	150	150	20
Visayas	2027	5	14	21	116	150	150	20
Visayas	2027	5	14	22	109	150	150	20
Visayas	2027	5	14	23	101	150	150	20
Visayas	2027	5	14	24	94	150	150	20
Visayas	2027	5	15	1	90	150	150	20
Visayas	2027	5	15	2	88	150	150	20
Visayas	2027	5	15	3	84	150	150	20
Visayas	2027	5	15	4	81	150	150	20
Visayas	2027	5	15	5	82	150	150	20
Visayas	2027	5	15	6	79	150	150	20
Visayas	2027	5	15	7	78	150	150	20
Visayas	2027	5	15	8	89	150	150	20
Visayas	2027	5	15	9	102	150	150	20
Visayas	2027	5	15	10	111	150	150	20
Visayas	2027	5	15	11	116	150	150	20
Visayas	2027	5	15	12	115	150	150	20
Visayas	2027	5	15	13	117	150	150	20
Visayas	2027	5	15	14	124	150	150	20
Visayas	2027	5	15	15	120	150	150	20
Visayas	2027	5	15	16	115	150	150	20
Visayas	2027	5	15	17	110	150	150	20
Visayas	2027	5	15	18	113	150	150	20
Visayas	2027	5	15	19	121	150	150	20
Visayas	2027	5	15	20	117	150	150	20
Visayas	2027	5	15	21	115	150	150	20
Visayas	2027	5	15	22	108	150	150	20
Visayas	2027	5	15	23	101	150	150	20
Visayas	2027	5	15	24	94	150	150	20
Visayas	2027	5	16	1	88	150	150	20
Visayas	2027	5	16	2	84	150	150	20
Visayas	2027	5	16	3	81	150	150	20
Visayas	2027	5	16	4	78	150	150	20
Visayas	2027	5	16	5	75	150	150	20
Visayas	2027	5	16	6	72	150	150	20
Visayas	2027	5	16	7	73	150	150	20
Visayas	2027	5	16	8	79	150	150	20
Visayas	2027	5	16	9	88	150	150	20
Visayas	2027	5	16	10	95	150	150	20
Visayas	2027	5	16	11	97	150	150	20
Visayas	2027	5	16	12	99	150	150	20
Visayas	2027	5	16	13	102	150	150	20
Visayas	2027	5	16	14	104	150	150	20
Visayas	2027	5	16	15	102	150	150	20
Visayas	2027	5	16	16	101	150	150	20
Visayas	2027	5	16	17	99	150	150	20
Visayas	2027	5	16	18	106	150	150	20
Visayas	2027	5	16	19	114	150	150	20
Visayas	2027	5	16	20	111	150	150	20
Visayas	2027	5	16	21	110	150	150	20
Visayas	2027	5	16	22	107	150	150	20
Visayas	2027	5	16	23	100	150	150	20
Visayas	2027	5	16	24	93	150	150	20
Visayas	2027	5	17	1	87	150	150	20
Visayas	2027	5	17	2	83	150	150	20
Visayas	2027	5	17	3	79	150	150	20
Visayas	2027	5	17	4	77	150	150	20
Visayas	2027	5	17	5	79	150	150	20
Visayas	2027	5	17	6	81	150	150	20
Visayas	2027	5	17	7	80	150	150	20
Visayas	2027	5	17	8	98	150	150	20
Visayas	2027	5	17	9	120	150	150	20
Visayas	2027	5	17	10	130	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	17	11	134	150	150	20
Visayas	2027	5	17	12	131	150	150	20
Visayas	2027	5	17	13	133	150	150	20
Visayas	2027	5	17	14	136	150	150	20
Visayas	2027	5	17	15	134	150	150	20
Visayas	2027	5	17	16	131	150	150	20
Visayas	2027	5	17	17	121	150	150	20
Visayas	2027	5	17	18	116	150	150	20
Visayas	2027	5	17	19	121	150	150	20
Visayas	2027	5	17	20	116	150	150	20
Visayas	2027	5	17	21	113	150	150	20
Visayas	2027	5	17	22	105	150	150	20
Visayas	2027	5	17	23	98	150	150	20
Visayas	2027	5	17	24	91	150	150	20
Visayas	2027	5	18	1	87	150	150	20
Visayas	2027	5	18	2	82	150	150	20
Visayas	2027	5	18	3	79	150	150	20
Visayas	2027	5	18	4	77	150	150	20
Visayas	2027	5	18	5	80	150	150	20
Visayas	2027	5	18	6	81	150	150	20
Visayas	2027	5	18	7	79	150	150	20
Visayas	2027	5	18	8	98	150	150	20
Visayas	2027	5	18	9	118	150	150	20
Visayas	2027	5	18	10	129	150	150	20
Visayas	2027	5	18	11	136	150	150	20
Visayas	2027	5	18	12	133	150	150	20
Visayas	2027	5	18	13	133	150	150	20
Visayas	2027	5	18	14	139	150	150	20
Visayas	2027	5	18	15	136	150	150	20
Visayas	2027	5	18	16	131	150	150	20
Visayas	2027	5	18	17	125	150	150	20
Visayas	2027	5	18	18	124	150	150	20
Visayas	2027	5	18	19	129	150	150	20
Visayas	2027	5	18	20	123	150	150	20
Visayas	2027	5	18	21	120	150	150	20
Visayas	2027	5	18	22	112	150	150	20
Visayas	2027	5	18	23	105	150	150	20
Visayas	2027	5	18	24	96	150	150	20
Visayas	2027	5	19	1	91	150	150	20
Visayas	2027	5	19	2	87	150	150	20
Visayas	2027	5	19	3	83	150	150	20
Visayas	2027	5	19	4	80	150	150	20
Visayas	2027	5	19	5	83	150	150	20
Visayas	2027	5	19	6	82	150	150	20
Visayas	2027	5	19	7	81	150	150	20
Visayas	2027	5	19	8	100	150	150	20
Visayas	2027	5	19	9	122	150	150	20
Visayas	2027	5	19	10	132	150	150	20
Visayas	2027	5	19	11	138	150	150	20
Visayas	2027	5	19	12	134	150	150	20
Visayas	2027	5	19	13	138	150	150	20
Visayas	2027	5	19	14	143	150	150	20
Visayas	2027	5	19	15	142	150	150	20
Visayas	2027	5	19	16	138	150	150	20
Visayas	2027	5	19	17	128	150	150	20
Visayas	2027	5	19	18	127	150	150	20
Visayas	2027	5	19	19	132	150	150	20
Visayas	2027	5	19	20	126	150	150	20
Visayas	2027	5	19	21	122	150	150	20
Visayas	2027	5	19	22	114	150	150	20
Visayas	2027	5	19	23	105	150	150	20
Visayas	2027	5	19	24	97	150	150	20
Visayas	2027	5	20	1	91	150	150	20
Visayas	2027	5	20	2	87	150	150	20
Visayas	2027	5	20	3	83	150	150	20
Visayas	2027	5	20	4	81	150	150	20
Visayas	2027	5	20	5	84	150	150	20
Visayas	2027	5	20	6	84	150	150	20
Visayas	2027	5	20	7	82	150	150	20
Visayas	2027	5	20	8	101	150	150	20
Visayas	2027	5	20	9	122	150	150	20
Visayas	2027	5	20	10	132	150	150	20
Visayas	2027	5	20	11	138	150	150	20
Visayas	2027	5	20	12	134	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	20	13	137	150	150	20
Visayas	2027	5	20	14	140	150	150	20
Visayas	2027	5	20	15	139	150	150	20
Visayas	2027	5	20	16	134	150	150	20
Visayas	2027	5	20	17	124	150	150	20
Visayas	2027	5	20	18	124	150	150	20
Visayas	2027	5	20	19	128	150	150	20
Visayas	2027	5	20	20	122	150	150	20
Visayas	2027	5	20	21	119	150	150	20
Visayas	2027	5	20	22	111	150	150	20
Visayas	2027	5	20	23	103	150	150	20
Visayas	2027	5	20	24	97	150	150	20
Visayas	2027	5	21	1	90	150	150	20
Visayas	2027	5	21	2	86	150	150	20
Visayas	2027	5	21	3	83	150	150	20
Visayas	2027	5	21	4	81	150	150	20
Visayas	2027	5	21	5	83	150	150	20
Visayas	2027	5	21	6	83	150	150	20
Visayas	2027	5	21	7	82	150	150	20
Visayas	2027	5	21	8	98	150	150	20
Visayas	2027	5	21	9	117	150	150	20
Visayas	2027	5	21	10	127	150	150	20
Visayas	2027	5	21	11	133	150	150	20
Visayas	2027	5	21	12	129	150	150	20
Visayas	2027	5	21	13	132	150	150	20
Visayas	2027	5	21	14	138	150	150	20
Visayas	2027	5	21	15	135	150	150	20
Visayas	2027	5	21	16	123	150	150	20
Visayas	2027	5	21	17	114	150	150	20
Visayas	2027	5	21	18	113	150	150	20
Visayas	2027	5	21	19	115	150	150	20
Visayas	2027	5	21	20	109	150	150	20
Visayas	2027	5	21	21	106	150	150	20
Visayas	2027	5	21	22	98	150	150	20
Visayas	2027	5	21	23	92	150	150	20
Visayas	2027	5	21	24	86	150	150	20
Visayas	2027	5	22	1	82	150	150	20
Visayas	2027	5	22	2	79	150	150	20
Visayas	2027	5	22	3	76	150	150	20
Visayas	2027	5	22	4	74	150	150	20
Visayas	2027	5	22	5	74	150	150	20
Visayas	2027	5	22	6	74	150	150	20
Visayas	2027	5	22	7	72	150	150	20
Visayas	2027	5	22	8	81	150	150	20
Visayas	2027	5	22	9	96	150	150	20
Visayas	2027	5	22	10	105	150	150	20
Visayas	2027	5	22	11	111	150	150	20
Visayas	2027	5	22	12	108	150	150	20
Visayas	2027	5	22	13	110	150	150	20
Visayas	2027	5	22	14	113	150	150	20
Visayas	2027	5	22	15	112	150	150	20
Visayas	2027	5	22	16	107	150	150	20
Visayas	2027	5	22	17	104	150	150	20
Visayas	2027	5	22	18	106	150	150	20
Visayas	2027	5	22	19	112	150	150	20
Visayas	2027	5	22	20	108	150	150	20
Visayas	2027	5	22	21	104	150	150	20
Visayas	2027	5	22	22	97	150	150	20
Visayas	2027	5	22	23	91	150	150	20
Visayas	2027	5	22	24	85	150	150	20
Visayas	2027	5	23	1	81	150	150	20
Visayas	2027	5	23	2	76	150	150	20
Visayas	2027	5	23	3	73	150	150	20
Visayas	2027	5	23	4	71	150	150	20
Visayas	2027	5	23	5	71	150	150	20
Visayas	2027	5	23	6	68	150	150	20
Visayas	2027	5	23	7	68	150	150	20
Visayas	2027	5	23	8	74	150	150	20
Visayas	2027	5	23	9	82	150	150	20
Visayas	2027	5	23	10	89	150	150	20
Visayas	2027	5	23	11	92	150	150	20
Visayas	2027	5	23	12	89	150	150	20
Visayas	2027	5	23	13	90	150	150	20
Visayas	2027	5	23	14	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	23	15	91	150	150	20
Visayas	2027	5	23	16	91	150	150	20
Visayas	2027	5	23	17	91	150	150	20
Visayas	2027	5	23	18	98	150	150	20
Visayas	2027	5	23	19	107	150	150	20
Visayas	2027	5	23	20	103	150	150	20
Visayas	2027	5	23	21	101	150	150	20
Visayas	2027	5	23	22	95	150	150	20
Visayas	2027	5	23	23	88	150	150	20
Visayas	2027	5	23	24	82	150	150	20
Visayas	2027	5	24	1	78	150	150	20
Visayas	2027	5	24	2	73	150	150	20
Visayas	2027	5	24	3	70	150	150	20
Visayas	2027	5	24	4	69	150	150	20
Visayas	2027	5	24	5	73	150	150	20
Visayas	2027	5	24	6	75	150	150	20
Visayas	2027	5	24	7	74	150	150	20
Visayas	2027	5	24	8	94	150	150	20
Visayas	2027	5	24	9	114	150	150	20
Visayas	2027	5	24	10	126	150	150	20
Visayas	2027	5	24	11	130	150	150	20
Visayas	2027	5	24	12	128	150	150	20
Visayas	2027	5	24	13	128	150	150	20
Visayas	2027	5	24	14	135	150	150	20
Visayas	2027	5	24	15	134	150	150	20
Visayas	2027	5	24	16	131	150	150	20
Visayas	2027	5	24	17	120	150	150	20
Visayas	2027	5	24	18	118	150	150	20
Visayas	2027	5	24	19	123	150	150	20
Visayas	2027	5	24	20	117	150	150	20
Visayas	2027	5	24	21	113	150	150	20
Visayas	2027	5	24	22	105	150	150	20
Visayas	2027	5	24	23	98	150	150	20
Visayas	2027	5	24	24	91	150	150	20
Visayas	2027	5	25	1	86	150	150	20
Visayas	2027	5	25	2	82	150	150	20
Visayas	2027	5	25	3	77	150	150	20
Visayas	2027	5	25	4	76	150	150	20
Visayas	2027	5	25	5	79	150	150	20
Visayas	2027	5	25	6	80	150	150	20
Visayas	2027	5	25	7	77	150	150	20
Visayas	2027	5	25	8	96	150	150	20
Visayas	2027	5	25	9	119	150	150	20
Visayas	2027	5	25	10	128	150	150	20
Visayas	2027	5	25	11	133	150	150	20
Visayas	2027	5	25	12	130	150	150	20
Visayas	2027	5	25	13	135	150	150	20
Visayas	2027	5	25	14	140	150	150	20
Visayas	2027	5	25	15	139	150	150	20
Visayas	2027	5	25	16	133	150	150	20
Visayas	2027	5	25	17	125	150	150	20
Visayas	2027	5	25	18	123	150	150	20
Visayas	2027	5	25	19	129	150	150	20
Visayas	2027	5	25	20	124	150	150	20
Visayas	2027	5	25	21	119	150	150	20
Visayas	2027	5	25	22	112	150	150	20
Visayas	2027	5	25	23	103	150	150	20
Visayas	2027	5	25	24	96	150	150	20
Visayas	2027	5	26	1	90	150	150	20
Visayas	2027	5	26	2	86	150	150	20
Visayas	2027	5	26	3	82	150	150	20
Visayas	2027	5	26	4	81	150	150	20
Visayas	2027	5	26	5	84	150	150	20
Visayas	2027	5	26	6	83	150	150	20
Visayas	2027	5	26	7	82	150	150	20
Visayas	2027	5	26	8	102	150	150	20
Visayas	2027	5	26	9	123	150	150	20
Visayas	2027	5	26	10	132	150	150	20
Visayas	2027	5	26	11	135	150	150	20
Visayas	2027	5	26	12	132	150	150	20
Visayas	2027	5	26	13	134	150	150	20
Visayas	2027	5	26	14	139	150	150	20
Visayas	2027	5	26	15	137	150	150	20
Visayas	2027	5	26	16	132	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	26	17	124	150	150	20
Visayas	2027	5	26	18	124	150	150	20
Visayas	2027	5	26	19	130	150	150	20
Visayas	2027	5	26	20	125	150	150	20
Visayas	2027	5	26	21	120	150	150	20
Visayas	2027	5	26	22	112	150	150	20
Visayas	2027	5	26	23	103	150	150	20
Visayas	2027	5	26	24	96	150	150	20
Visayas	2027	5	27	1	91	150	150	20
Visayas	2027	5	27	2	87	150	150	20
Visayas	2027	5	27	3	84	150	150	20
Visayas	2027	5	27	4	81	150	150	20
Visayas	2027	5	27	5	83	150	150	20
Visayas	2027	5	27	6	84	150	150	20
Visayas	2027	5	27	7	83	150	150	20
Visayas	2027	5	27	8	100	150	150	20
Visayas	2027	5	27	9	120	150	150	20
Visayas	2027	5	27	10	128	150	150	20
Visayas	2027	5	27	11	130	150	150	20
Visayas	2027	5	27	12	122	150	150	20
Visayas	2027	5	27	13	125	150	150	20
Visayas	2027	5	27	14	134	150	150	20
Visayas	2027	5	27	15	133	150	150	20
Visayas	2027	5	27	16	129	150	150	20
Visayas	2027	5	27	17	120	150	150	20
Visayas	2027	5	27	18	120	150	150	20
Visayas	2027	5	27	19	125	150	150	20
Visayas	2027	5	27	20	119	150	150	20
Visayas	2027	5	27	21	115	150	150	20
Visayas	2027	5	27	22	106	150	150	20
Visayas	2027	5	27	23	99	150	150	20
Visayas	2027	5	27	24	91	150	150	20
Visayas	2027	5	28	1	87	150	150	20
Visayas	2027	5	28	2	83	150	150	20
Visayas	2027	5	28	3	79	150	150	20
Visayas	2027	5	28	4	76	150	150	20
Visayas	2027	5	28	5	78	150	150	20
Visayas	2027	5	28	6	79	150	150	20
Visayas	2027	5	28	7	80	150	150	20
Visayas	2027	5	28	8	97	150	150	20
Visayas	2027	5	28	9	118	150	150	20
Visayas	2027	5	28	10	126	150	150	20
Visayas	2027	5	28	11	129	150	150	20
Visayas	2027	5	28	12	127	150	150	20
Visayas	2027	5	28	13	128	150	150	20
Visayas	2027	5	28	14	132	150	150	20
Visayas	2027	5	28	15	130	150	150	20
Visayas	2027	5	28	16	125	150	150	20
Visayas	2027	5	28	17	116	150	150	20
Visayas	2027	5	28	18	117	150	150	20
Visayas	2027	5	28	19	119	150	150	20
Visayas	2027	5	28	20	114	150	150	20
Visayas	2027	5	28	21	109	150	150	20
Visayas	2027	5	28	22	101	150	150	20
Visayas	2027	5	28	23	94	150	150	20
Visayas	2027	5	28	24	89	150	150	20
Visayas	2027	5	29	1	85	150	150	20
Visayas	2027	5	29	2	81	150	150	20
Visayas	2027	5	29	3	77	150	150	20
Visayas	2027	5	29	4	75	150	150	20
Visayas	2027	5	29	5	74	150	150	20
Visayas	2027	5	29	6	73	150	150	20
Visayas	2027	5	29	7	73	150	150	20
Visayas	2027	5	29	8	82	150	150	20
Visayas	2027	5	29	9	95	150	150	20
Visayas	2027	5	29	10	102	150	150	20
Visayas	2027	5	29	11	106	150	150	20
Visayas	2027	5	29	12	101	150	150	20
Visayas	2027	5	29	13	103	150	150	20
Visayas	2027	5	29	14	108	150	150	20
Visayas	2027	5	29	15	105	150	150	20
Visayas	2027	5	29	16	103	150	150	20
Visayas	2027	5	29	17	99	150	150	20
Visayas	2027	5	29	18	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	5	29	19	110	150	150	20
Visayas	2027	5	29	20	102	150	150	20
Visayas	2027	5	29	21	102	150	150	20
Visayas	2027	5	29	22	95	150	150	20
Visayas	2027	5	29	23	89	150	150	20
Visayas	2027	5	29	24	84	150	150	20
Visayas	2027	5	30	1	79	150	150	20
Visayas	2027	5	30	2	75	150	150	20
Visayas	2027	5	30	3	72	150	150	20
Visayas	2027	5	30	4	70	150	150	20
Visayas	2027	5	30	5	69	150	150	20
Visayas	2027	5	30	6	68	150	150	20
Visayas	2027	5	30	7	67	150	150	20
Visayas	2027	5	30	8	73	150	150	20
Visayas	2027	5	30	9	82	150	150	20
Visayas	2027	5	30	10	87	150	150	20
Visayas	2027	5	30	11	90	150	150	20
Visayas	2027	5	30	12	88	150	150	20
Visayas	2027	5	30	13	83	150	150	20
Visayas	2027	5	30	14	87	150	150	20
Visayas	2027	5	30	15	88	150	150	20
Visayas	2027	5	30	16	86	150	150	20
Visayas	2027	5	30	17	88	150	150	20
Visayas	2027	5	30	18	96	150	150	20
Visayas	2027	5	30	19	105	150	150	20
Visayas	2027	5	30	20	103	150	150	20
Visayas	2027	5	30	21	102	150	150	20
Visayas	2027	5	30	22	96	150	150	20
Visayas	2027	5	30	23	90	150	150	20
Visayas	2027	5	30	24	84	150	150	20
Visayas	2027	5	31	1	80	150	150	20
Visayas	2027	5	31	2	76	150	150	20
Visayas	2027	5	31	3	73	150	150	20
Visayas	2027	5	31	4	72	150	150	20
Visayas	2027	5	31	5	75	150	150	20
Visayas	2027	5	31	6	78	150	150	20
Visayas	2027	5	31	7	75	150	150	20
Visayas	2027	5	31	8	92	150	150	20
Visayas	2027	5	31	9	109	150	150	20
Visayas	2027	5	31	10	120	150	150	20
Visayas	2027	5	31	11	122	150	150	20
Visayas	2027	5	31	12	118	150	150	20
Visayas	2027	5	31	13	120	150	150	20
Visayas	2027	5	31	14	128	150	150	20
Visayas	2027	5	31	15	127	150	150	20
Visayas	2027	5	31	16	124	150	150	20
Visayas	2027	5	31	17	117	150	150	20
Visayas	2027	5	31	18	116	150	150	20
Visayas	2027	5	31	19	121	150	150	20
Visayas	2027	5	31	20	118	150	150	20
Visayas	2027	5	31	21	113	150	150	20
Visayas	2027	5	31	22	106	150	150	20
Visayas	2027	5	31	23	99	150	150	20
Visayas	2027	5	31	24	93	150	150	20
Visayas	2027	6	1	1	88	150	150	20
Visayas	2027	6	1	2	84	150	150	20
Visayas	2027	6	1	3	81	150	150	20
Visayas	2027	6	1	4	79	150	150	20
Visayas	2027	6	1	5	82	150	150	20
Visayas	2027	6	1	6	84	150	150	20
Visayas	2027	6	1	7	82	150	150	20
Visayas	2027	6	1	8	96	150	150	20
Visayas	2027	6	1	9	113	150	150	20
Visayas	2027	6	1	10	121	150	150	20
Visayas	2027	6	1	11	124	150	150	20
Visayas	2027	6	1	12	122	150	150	20
Visayas	2027	6	1	13	122	150	150	20
Visayas	2027	6	1	14	128	150	150	20
Visayas	2027	6	1	15	127	150	150	20
Visayas	2027	6	1	16	123	150	150	20
Visayas	2027	6	1	17	115	150	150	20
Visayas	2027	6	1	18	117	150	150	20
Visayas	2027	6	1	19	119	150	150	20
Visayas	2027	6	1	20	114	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	1	21	110	150	150	20
Visayas	2027	6	1	22	102	150	150	20
Visayas	2027	6	1	23	94	150	150	20
Visayas	2027	6	1	24	88	150	150	20
Visayas	2027	6	2	1	84	150	150	20
Visayas	2027	6	2	2	81	150	150	20
Visayas	2027	6	2	3	77	150	150	20
Visayas	2027	6	2	4	75	150	150	20
Visayas	2027	6	2	5	78	150	150	20
Visayas	2027	6	2	6	80	150	150	20
Visayas	2027	6	2	7	80	150	150	20
Visayas	2027	6	2	8	94	150	150	20
Visayas	2027	6	2	9	109	150	150	20
Visayas	2027	6	2	10	112	150	150	20
Visayas	2027	6	2	11	120	150	150	20
Visayas	2027	6	2	12	116	150	150	20
Visayas	2027	6	2	13	117	150	150	20
Visayas	2027	6	2	14	122	150	150	20
Visayas	2027	6	2	15	121	150	150	20
Visayas	2027	6	2	16	119	150	150	20
Visayas	2027	6	2	17	111	150	150	20
Visayas	2027	6	2	18	101	150	150	20
Visayas	2027	6	2	19	107	150	150	20
Visayas	2027	6	2	20	103	150	150	20
Visayas	2027	6	2	21	99	150	150	20
Visayas	2027	6	2	22	91	150	150	20
Visayas	2027	6	2	23	85	150	150	20
Visayas	2027	6	2	24	81	150	150	20
Visayas	2027	6	3	1	76	150	150	20
Visayas	2027	6	3	2	74	150	150	20
Visayas	2027	6	3	3	71	150	150	20
Visayas	2027	6	3	4	69	150	150	20
Visayas	2027	6	3	5	72	150	150	20
Visayas	2027	6	3	6	76	150	150	20
Visayas	2027	6	3	7	74	150	150	20
Visayas	2027	6	3	8	88	150	150	20
Visayas	2027	6	3	9	104	150	150	20
Visayas	2027	6	3	10	113	150	150	20
Visayas	2027	6	3	11	118	150	150	20
Visayas	2027	6	3	12	107	150	150	20
Visayas	2027	6	3	13	101	150	150	20
Visayas	2027	6	3	14	106	150	150	20
Visayas	2027	6	3	15	102	150	150	20
Visayas	2027	6	3	16	101	150	150	20
Visayas	2027	6	3	17	100	150	150	20
Visayas	2027	6	3	18	99	150	150	20
Visayas	2027	6	3	19	105	150	150	20
Visayas	2027	6	3	20	100	150	150	20
Visayas	2027	6	3	21	95	150	150	20
Visayas	2027	6	3	22	87	150	150	20
Visayas	2027	6	3	23	80	150	150	20
Visayas	2027	6	3	24	75	150	150	20
Visayas	2027	6	4	1	72	150	150	20
Visayas	2027	6	4	2	74	150	150	20
Visayas	2027	6	4	3	73	150	150	20
Visayas	2027	6	4	4	66	150	150	20
Visayas	2027	6	4	5	67	150	150	20
Visayas	2027	6	4	6	70	150	150	20
Visayas	2027	6	4	7	69	150	150	20
Visayas	2027	6	4	8	85	150	150	20
Visayas	2027	6	4	9	105	150	150	20
Visayas	2027	6	4	10	115	150	150	20
Visayas	2027	6	4	11	122	150	150	20
Visayas	2027	6	4	12	119	150	150	20
Visayas	2027	6	4	13	117	150	150	20
Visayas	2027	6	4	14	124	150	150	20
Visayas	2027	6	4	15	117	150	150	20
Visayas	2027	6	4	16	108	150	150	20
Visayas	2027	6	4	17	105	150	150	20
Visayas	2027	6	4	18	106	150	150	20
Visayas	2027	6	4	19	109	150	150	20
Visayas	2027	6	4	20	103	150	150	20
Visayas	2027	6	4	21	98	150	150	20
Visayas	2027	6	4	22	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	4	23	83	150	150	20
Visayas	2027	6	4	24	77	150	150	20
Visayas	2027	6	5	1	73	150	150	20
Visayas	2027	6	5	2	69	150	150	20
Visayas	2027	6	5	3	67	150	150	20
Visayas	2027	6	5	4	65	150	150	20
Visayas	2027	6	5	5	66	150	150	20
Visayas	2027	6	5	6	67	150	150	20
Visayas	2027	6	5	7	69	150	150	20
Visayas	2027	6	5	8	81	150	150	20
Visayas	2027	6	5	9	94	150	150	20
Visayas	2027	6	5	10	104	150	150	20
Visayas	2027	6	5	11	109	150	150	20
Visayas	2027	6	5	12	107	150	150	20
Visayas	2027	6	5	13	108	150	150	20
Visayas	2027	6	5	14	112	150	150	20
Visayas	2027	6	5	15	109	150	150	20
Visayas	2027	6	5	16	104	150	150	20
Visayas	2027	6	5	17	100	150	150	20
Visayas	2027	6	5	18	103	150	150	20
Visayas	2027	6	5	19	109	150	150	20
Visayas	2027	6	5	20	105	150	150	20
Visayas	2027	6	5	21	102	150	150	20
Visayas	2027	6	5	22	95	150	150	20
Visayas	2027	6	5	23	88	150	150	20
Visayas	2027	6	5	24	83	150	150	20
Visayas	2027	6	6	1	77	150	150	20
Visayas	2027	6	6	2	73	150	150	20
Visayas	2027	6	6	3	70	150	150	20
Visayas	2027	6	6	4	68	150	150	20
Visayas	2027	6	6	5	67	150	150	20
Visayas	2027	6	6	6	64	150	150	20
Visayas	2027	6	6	7	61	150	150	20
Visayas	2027	6	6	8	65	150	150	20
Visayas	2027	6	6	9	70	150	150	20
Visayas	2027	6	6	10	77	150	150	20
Visayas	2027	6	6	11	83	150	150	20
Visayas	2027	6	6	12	84	150	150	20
Visayas	2027	6	6	13	85	150	150	20
Visayas	2027	6	6	14	87	150	150	20
Visayas	2027	6	6	15	86	150	150	20
Visayas	2027	6	6	16	84	150	150	20
Visayas	2027	6	6	17	85	150	150	20
Visayas	2027	6	6	18	91	150	150	20
Visayas	2027	6	6	19	96	150	150	20
Visayas	2027	6	6	20	97	150	150	20
Visayas	2027	6	6	21	93	150	150	20
Visayas	2027	6	6	22	86	150	150	20
Visayas	2027	6	6	23	78	150	150	20
Visayas	2027	6	6	24	73	150	150	20
Visayas	2027	6	7	1	69	150	150	20
Visayas	2027	6	7	2	66	150	150	20
Visayas	2027	6	7	3	63	150	150	20
Visayas	2027	6	7	4	63	150	150	20
Visayas	2027	6	7	5	65	150	150	20
Visayas	2027	6	7	6	69	150	150	20
Visayas	2027	6	7	7	66	150	150	20
Visayas	2027	6	7	8	81	150	150	20
Visayas	2027	6	7	9	102	150	150	20
Visayas	2027	6	7	10	112	150	150	20
Visayas	2027	6	7	11	118	150	150	20
Visayas	2027	6	7	12	114	150	150	20
Visayas	2027	6	7	13	115	150	150	20
Visayas	2027	6	7	14	123	150	150	20
Visayas	2027	6	7	15	122	150	150	20
Visayas	2027	6	7	16	119	150	150	20
Visayas	2027	6	7	17	111	150	150	20
Visayas	2027	6	7	18	109	150	150	20
Visayas	2027	6	7	19	114	150	150	20
Visayas	2027	6	7	20	109	150	150	20
Visayas	2027	6	7	21	104	150	150	20
Visayas	2027	6	7	22	97	150	150	20
Visayas	2027	6	7	23	89	150	150	20
Visayas	2027	6	7	24	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	8	1	79	150	150	20
Visayas	2027	6	8	2	75	150	150	20
Visayas	2027	6	8	3	72	150	150	20
Visayas	2027	6	8	4	70	150	150	20
Visayas	2027	6	8	5	73	150	150	20
Visayas	2027	6	8	6	76	150	150	20
Visayas	2027	6	8	7	73	150	150	20
Visayas	2027	6	8	8	89	150	150	20
Visayas	2027	6	8	9	111	150	150	20
Visayas	2027	6	8	10	118	150	150	20
Visayas	2027	6	8	11	124	150	150	20
Visayas	2027	6	8	12	122	150	150	20
Visayas	2027	6	8	13	120	150	150	20
Visayas	2027	6	8	14	127	150	150	20
Visayas	2027	6	8	15	126	150	150	20
Visayas	2027	6	8	16	123	150	150	20
Visayas	2027	6	8	17	114	150	150	20
Visayas	2027	6	8	18	110	150	150	20
Visayas	2027	6	8	19	117	150	150	20
Visayas	2027	6	8	20	112	150	150	20
Visayas	2027	6	8	21	107	150	150	20
Visayas	2027	6	8	22	99	150	150	20
Visayas	2027	6	8	23	91	150	150	20
Visayas	2027	6	8	24	85	150	150	20
Visayas	2027	6	9	1	81	150	150	20
Visayas	2027	6	9	2	76	150	150	20
Visayas	2027	6	9	3	73	150	150	20
Visayas	2027	6	9	4	71	150	150	20
Visayas	2027	6	9	5	74	150	150	20
Visayas	2027	6	9	6	76	150	150	20
Visayas	2027	6	9	7	74	150	150	20
Visayas	2027	6	9	8	91	150	150	20
Visayas	2027	6	9	9	112	150	150	20
Visayas	2027	6	9	10	121	150	150	20
Visayas	2027	6	9	11	127	150	150	20
Visayas	2027	6	9	12	122	150	150	20
Visayas	2027	6	9	13	125	150	150	20
Visayas	2027	6	9	14	129	150	150	20
Visayas	2027	6	9	15	126	150	150	20
Visayas	2027	6	9	16	121	150	150	20
Visayas	2027	6	9	17	112	150	150	20
Visayas	2027	6	9	18	110	150	150	20
Visayas	2027	6	9	19	118	150	150	20
Visayas	2027	6	9	20	113	150	150	20
Visayas	2027	6	9	21	108	150	150	20
Visayas	2027	6	9	22	99	150	150	20
Visayas	2027	6	9	23	93	150	150	20
Visayas	2027	6	9	24	86	150	150	20
Visayas	2027	6	10	1	81	150	150	20
Visayas	2027	6	10	2	78	150	150	20
Visayas	2027	6	10	3	75	150	150	20
Visayas	2027	6	10	4	72	150	150	20
Visayas	2027	6	10	5	75	150	150	20
Visayas	2027	6	10	6	77	150	150	20
Visayas	2027	6	10	7	75	150	150	20
Visayas	2027	6	10	8	92	150	150	20
Visayas	2027	6	10	9	112	150	150	20
Visayas	2027	6	10	10	122	150	150	20
Visayas	2027	6	10	11	125	150	150	20
Visayas	2027	6	10	12	121	150	150	20
Visayas	2027	6	10	13	120	150	150	20
Visayas	2027	6	10	14	131	150	150	20
Visayas	2027	6	10	15	130	150	150	20
Visayas	2027	6	10	16	125	150	150	20
Visayas	2027	6	10	17	117	150	150	20
Visayas	2027	6	10	18	113	150	150	20
Visayas	2027	6	10	19	121	150	150	20
Visayas	2027	6	10	20	116	150	150	20
Visayas	2027	6	10	21	112	150	150	20
Visayas	2027	6	10	22	104	150	150	20
Visayas	2027	6	10	23	98	150	150	20
Visayas	2027	6	10	24	89	150	150	20
Visayas	2027	6	11	1	85	150	150	20
Visayas	2027	6	11	2	80	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	11	3	77	150	150	20
Visayas	2027	6	11	4	74	150	150	20
Visayas	2027	6	11	5	77	150	150	20
Visayas	2027	6	11	6	77	150	150	20
Visayas	2027	6	11	7	76	150	150	20
Visayas	2027	6	11	8	93	150	150	20
Visayas	2027	6	11	9	112	150	150	20
Visayas	2027	6	11	10	123	150	150	20
Visayas	2027	6	11	11	128	150	150	20
Visayas	2027	6	11	12	124	150	150	20
Visayas	2027	6	11	13	122	150	150	20
Visayas	2027	6	11	14	132	150	150	20
Visayas	2027	6	11	15	127	150	150	20
Visayas	2027	6	11	16	123	150	150	20
Visayas	2027	6	11	17	114	150	150	20
Visayas	2027	6	11	18	112	150	150	20
Visayas	2027	6	11	19	119	150	150	20
Visayas	2027	6	11	20	114	150	150	20
Visayas	2027	6	11	21	110	150	150	20
Visayas	2027	6	11	22	101	150	150	20
Visayas	2027	6	11	23	94	150	150	20
Visayas	2027	6	11	24	88	150	150	20
Visayas	2027	6	12	1	78	150	150	20
Visayas	2027	6	12	2	74	150	150	20
Visayas	2027	6	12	3	71	150	150	20
Visayas	2027	6	12	4	69	150	150	20
Visayas	2027	6	12	5	70	150	150	20
Visayas	2027	6	12	6	70	150	150	20
Visayas	2027	6	12	7	70	150	150	20
Visayas	2027	6	12	8	79	150	150	20
Visayas	2027	6	12	9	89	150	150	20
Visayas	2027	6	12	10	99	150	150	20
Visayas	2027	6	12	11	104	150	150	20
Visayas	2027	6	12	12	104	150	150	20
Visayas	2027	6	12	13	106	150	150	20
Visayas	2027	6	12	14	106	150	150	20
Visayas	2027	6	12	15	110	150	150	20
Visayas	2027	6	12	16	104	150	150	20
Visayas	2027	6	12	17	101	150	150	20
Visayas	2027	6	12	18	105	150	150	20
Visayas	2027	6	12	19	116	150	150	20
Visayas	2027	6	12	20	113	150	150	20
Visayas	2027	6	12	21	110	150	150	20
Visayas	2027	6	12	22	103	150	150	20
Visayas	2027	6	12	23	95	150	150	20
Visayas	2027	6	12	24	88	150	150	20
Visayas	2027	6	13	1	79	150	150	20
Visayas	2027	6	13	2	74	150	150	20
Visayas	2027	6	13	3	71	150	150	20
Visayas	2027	6	13	4	69	150	150	20
Visayas	2027	6	13	5	69	150	150	20
Visayas	2027	6	13	6	66	150	150	20
Visayas	2027	6	13	7	63	150	150	20
Visayas	2027	6	13	8	66	150	150	20
Visayas	2027	6	13	9	75	150	150	20
Visayas	2027	6	13	10	81	150	150	20
Visayas	2027	6	13	11	86	150	150	20
Visayas	2027	6	13	12	85	150	150	20
Visayas	2027	6	13	13	88	150	150	20
Visayas	2027	6	13	14	92	150	150	20
Visayas	2027	6	13	15	92	150	150	20
Visayas	2027	6	13	16	90	150	150	20
Visayas	2027	6	13	17	88	150	150	20
Visayas	2027	6	13	18	98	150	150	20
Visayas	2027	6	13	19	107	150	150	20
Visayas	2027	6	13	20	103	150	150	20
Visayas	2027	6	13	21	100	150	150	20
Visayas	2027	6	13	22	96	150	150	20
Visayas	2027	6	13	23	89	150	150	20
Visayas	2027	6	13	24	84	150	150	20
Visayas	2027	6	14	1	79	150	150	20
Visayas	2027	6	14	2	76	150	150	20
Visayas	2027	6	14	3	73	150	150	20
Visayas	2027	6	14	4	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	14	5	75	150	150	20
Visayas	2027	6	14	6	77	150	150	20
Visayas	2027	6	14	7	76	150	150	20
Visayas	2027	6	14	8	93	150	150	20
Visayas	2027	6	14	9	112	150	150	20
Visayas	2027	6	14	10	122	150	150	20
Visayas	2027	6	14	11	129	150	150	20
Visayas	2027	6	14	12	125	150	150	20
Visayas	2027	6	14	13	126	150	150	20
Visayas	2027	6	14	14	135	150	150	20
Visayas	2027	6	14	15	127	150	150	20
Visayas	2027	6	14	16	122	150	150	20
Visayas	2027	6	14	17	116	150	150	20
Visayas	2027	6	14	18	114	150	150	20
Visayas	2027	6	14	19	120	150	150	20
Visayas	2027	6	14	20	115	150	150	20
Visayas	2027	6	14	21	111	150	150	20
Visayas	2027	6	14	22	102	150	150	20
Visayas	2027	6	14	23	94	150	150	20
Visayas	2027	6	14	24	88	150	150	20
Visayas	2027	6	15	1	83	150	150	20
Visayas	2027	6	15	2	78	150	150	20
Visayas	2027	6	15	3	75	150	150	20
Visayas	2027	6	15	4	73	150	150	20
Visayas	2027	6	15	5	76	150	150	20
Visayas	2027	6	15	6	78	150	150	20
Visayas	2027	6	15	7	77	150	150	20
Visayas	2027	6	15	8	97	150	150	20
Visayas	2027	6	15	9	118	150	150	20
Visayas	2027	6	15	10	127	150	150	20
Visayas	2027	6	15	11	133	150	150	20
Visayas	2027	6	15	12	129	150	150	20
Visayas	2027	6	15	13	131	150	150	20
Visayas	2027	6	15	14	138	150	150	20
Visayas	2027	6	15	15	138	150	150	20
Visayas	2027	6	15	16	136	150	150	20
Visayas	2027	6	15	17	127	150	150	20
Visayas	2027	6	15	18	120	150	150	20
Visayas	2027	6	15	19	128	150	150	20
Visayas	2027	6	15	20	124	150	150	20
Visayas	2027	6	15	21	120	150	150	20
Visayas	2027	6	15	22	112	150	150	20
Visayas	2027	6	15	23	103	150	150	20
Visayas	2027	6	15	24	96	150	150	20
Visayas	2027	6	16	1	90	150	150	20
Visayas	2027	6	16	2	86	150	150	20
Visayas	2027	6	16	3	83	150	150	20
Visayas	2027	6	16	4	80	150	150	20
Visayas	2027	6	16	5	82	150	150	20
Visayas	2027	6	16	6	83	150	150	20
Visayas	2027	6	16	7	81	150	150	20
Visayas	2027	6	16	8	101	150	150	20
Visayas	2027	6	16	9	122	150	150	20
Visayas	2027	6	16	10	130	150	150	20
Visayas	2027	6	16	11	136	150	150	20
Visayas	2027	6	16	12	133	150	150	20
Visayas	2027	6	16	13	134	150	150	20
Visayas	2027	6	16	14	139	150	150	20
Visayas	2027	6	16	15	137	150	150	20
Visayas	2027	6	16	16	133	150	150	20
Visayas	2027	6	16	17	113	150	150	20
Visayas	2027	6	16	18	117	150	150	20
Visayas	2027	6	16	19	121	150	150	20
Visayas	2027	6	16	20	115	150	150	20
Visayas	2027	6	16	21	109	150	150	20
Visayas	2027	6	16	22	100	150	150	20
Visayas	2027	6	16	23	93	150	150	20
Visayas	2027	6	16	24	86	150	150	20
Visayas	2027	6	17	1	79	150	150	20
Visayas	2027	6	17	2	75	150	150	20
Visayas	2027	6	17	3	71	150	150	20
Visayas	2027	6	17	4	70	150	150	20
Visayas	2027	6	17	5	74	150	150	20
Visayas	2027	6	17	6	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	17	7	74	150	150	20
Visayas	2027	6	17	8	87	150	150	20
Visayas	2027	6	17	9	105	150	150	20
Visayas	2027	6	17	10	116	150	150	20
Visayas	2027	6	17	11	118	150	150	20
Visayas	2027	6	17	12	117	150	150	20
Visayas	2027	6	17	13	115	150	150	20
Visayas	2027	6	17	14	123	150	150	20
Visayas	2027	6	17	15	121	150	150	20
Visayas	2027	6	17	16	118	150	150	20
Visayas	2027	6	17	17	110	150	150	20
Visayas	2027	6	17	18	111	150	150	20
Visayas	2027	6	17	19	117	150	150	20
Visayas	2027	6	17	20	113	150	150	20
Visayas	2027	6	17	21	110	150	150	20
Visayas	2027	6	17	22	102	150	150	20
Visayas	2027	6	17	23	94	150	150	20
Visayas	2027	6	17	24	88	150	150	20
Visayas	2027	6	18	1	83	150	150	20
Visayas	2027	6	18	2	79	150	150	20
Visayas	2027	6	18	3	75	150	150	20
Visayas	2027	6	18	4	74	150	150	20
Visayas	2027	6	18	5	77	150	150	20
Visayas	2027	6	18	6	79	150	150	20
Visayas	2027	6	18	7	77	150	150	20
Visayas	2027	6	18	8	92	150	150	20
Visayas	2027	6	18	9	112	150	150	20
Visayas	2027	6	18	10	122	150	150	20
Visayas	2027	6	18	11	127	150	150	20
Visayas	2027	6	18	12	125	150	150	20
Visayas	2027	6	18	13	127	150	150	20
Visayas	2027	6	18	14	133	150	150	20
Visayas	2027	6	18	15	130	150	150	20
Visayas	2027	6	18	16	124	150	150	20
Visayas	2027	6	18	17	115	150	150	20
Visayas	2027	6	18	18	114	150	150	20
Visayas	2027	6	18	19	121	150	150	20
Visayas	2027	6	18	20	118	150	150	20
Visayas	2027	6	18	21	112	150	150	20
Visayas	2027	6	18	22	105	150	150	20
Visayas	2027	6	18	23	96	150	150	20
Visayas	2027	6	18	24	91	150	150	20
Visayas	2027	6	19	1	85	150	150	20
Visayas	2027	6	19	2	81	150	150	20
Visayas	2027	6	19	3	78	150	150	20
Visayas	2027	6	19	4	75	150	150	20
Visayas	2027	6	19	5	74	150	150	20
Visayas	2027	6	19	6	73	150	150	20
Visayas	2027	6	19	7	71	150	150	20
Visayas	2027	6	19	8	83	150	150	20
Visayas	2027	6	19	9	99	150	150	20
Visayas	2027	6	19	10	106	150	150	20
Visayas	2027	6	19	11	113	150	150	20
Visayas	2027	6	19	12	110	150	150	20
Visayas	2027	6	19	13	109	150	150	20
Visayas	2027	6	19	14	117	150	150	20
Visayas	2027	6	19	15	117	150	150	20
Visayas	2027	6	19	16	113	150	150	20
Visayas	2027	6	19	17	108	150	150	20
Visayas	2027	6	19	18	110	150	150	20
Visayas	2027	6	19	19	119	150	150	20
Visayas	2027	6	19	20	116	150	150	20
Visayas	2027	6	19	21	112	150	150	20
Visayas	2027	6	19	22	105	150	150	20
Visayas	2027	6	19	23	99	150	150	20
Visayas	2027	6	19	24	92	150	150	20
Visayas	2027	6	20	1	87	150	150	20
Visayas	2027	6	20	2	83	150	150	20
Visayas	2027	6	20	3	79	150	150	20
Visayas	2027	6	20	4	76	150	150	20
Visayas	2027	6	20	5	75	150	150	20
Visayas	2027	6	20	6	69	150	150	20
Visayas	2027	6	20	7	67	150	150	20
Visayas	2027	6	20	8	72	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	20	9	81	150	150	20
Visayas	2027	6	20	10	86	150	150	20
Visayas	2027	6	20	11	92	150	150	20
Visayas	2027	6	20	12	92	150	150	20
Visayas	2027	6	20	13	93	150	150	20
Visayas	2027	6	20	14	95	150	150	20
Visayas	2027	6	20	15	94	150	150	20
Visayas	2027	6	20	16	92	150	150	20
Visayas	2027	6	20	17	91	150	150	20
Visayas	2027	6	20	18	97	150	150	20
Visayas	2027	6	20	19	108	150	150	20
Visayas	2027	6	20	20	104	150	150	20
Visayas	2027	6	20	21	102	150	150	20
Visayas	2027	6	20	22	96	150	150	20
Visayas	2027	6	20	23	90	150	150	20
Visayas	2027	6	20	24	84	150	150	20
Visayas	2027	6	21	1	79	150	150	20
Visayas	2027	6	21	2	76	150	150	20
Visayas	2027	6	21	3	73	150	150	20
Visayas	2027	6	21	4	71	150	150	20
Visayas	2027	6	21	5	75	150	150	20
Visayas	2027	6	21	6	77	150	150	20
Visayas	2027	6	21	7	76	150	150	20
Visayas	2027	6	21	8	93	150	150	20
Visayas	2027	6	21	9	112	150	150	20
Visayas	2027	6	21	10	122	150	150	20
Visayas	2027	6	21	11	129	150	150	20
Visayas	2027	6	21	12	125	150	150	20
Visayas	2027	6	21	13	126	150	150	20
Visayas	2027	6	21	14	135	150	150	20
Visayas	2027	6	21	15	127	150	150	20
Visayas	2027	6	21	16	122	150	150	20
Visayas	2027	6	21	17	116	150	150	20
Visayas	2027	6	21	18	114	150	150	20
Visayas	2027	6	21	19	120	150	150	20
Visayas	2027	6	21	20	115	150	150	20
Visayas	2027	6	21	21	111	150	150	20
Visayas	2027	6	21	22	102	150	150	20
Visayas	2027	6	21	23	94	150	150	20
Visayas	2027	6	21	24	88	150	150	20
Visayas	2027	6	22	1	84	150	150	20
Visayas	2027	6	22	2	81	150	150	20
Visayas	2027	6	22	3	76	150	150	20
Visayas	2027	6	22	4	75	150	150	20
Visayas	2027	6	22	5	77	150	150	20
Visayas	2027	6	22	6	80	150	150	20
Visayas	2027	6	22	7	78	150	150	20
Visayas	2027	6	22	8	92	150	150	20
Visayas	2027	6	22	9	110	150	150	20
Visayas	2027	6	22	10	121	150	150	20
Visayas	2027	6	22	11	127	150	150	20
Visayas	2027	6	22	12	124	150	150	20
Visayas	2027	6	22	13	125	150	150	20
Visayas	2027	6	22	14	132	150	150	20
Visayas	2027	6	22	15	130	150	150	20
Visayas	2027	6	22	16	127	150	150	20
Visayas	2027	6	22	17	117	150	150	20
Visayas	2027	6	22	18	114	150	150	20
Visayas	2027	6	22	19	121	150	150	20
Visayas	2027	6	22	20	116	150	150	20
Visayas	2027	6	22	21	110	150	150	20
Visayas	2027	6	22	22	102	150	150	20
Visayas	2027	6	22	23	95	150	150	20
Visayas	2027	6	22	24	87	150	150	20
Visayas	2027	6	23	1	83	150	150	20
Visayas	2027	6	23	2	79	150	150	20
Visayas	2027	6	23	3	76	150	150	20
Visayas	2027	6	23	4	75	150	150	20
Visayas	2027	6	23	5	77	150	150	20
Visayas	2027	6	23	6	80	150	150	20
Visayas	2027	6	23	7	79	150	150	20
Visayas	2027	6	23	8	94	150	150	20
Visayas	2027	6	23	9	114	150	150	20
Visayas	2027	6	23	10	124	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	23	11	128	150	150	20
Visayas	2027	6	23	12	125	150	150	20
Visayas	2027	6	23	13	126	150	150	20
Visayas	2027	6	23	14	132	150	150	20
Visayas	2027	6	23	15	131	150	150	20
Visayas	2027	6	23	16	128	150	150	20
Visayas	2027	6	23	17	119	150	150	20
Visayas	2027	6	23	18	116	150	150	20
Visayas	2027	6	23	19	123	150	150	20
Visayas	2027	6	23	20	117	150	150	20
Visayas	2027	6	23	21	112	150	150	20
Visayas	2027	6	23	22	104	150	150	20
Visayas	2027	6	23	23	95	150	150	20
Visayas	2027	6	23	24	88	150	150	20
Visayas	2027	6	24	1	83	150	150	20
Visayas	2027	6	24	2	80	150	150	20
Visayas	2027	6	24	3	75	150	150	20
Visayas	2027	6	24	4	74	150	150	20
Visayas	2027	6	24	5	75	150	150	20
Visayas	2027	6	24	6	79	150	150	20
Visayas	2027	6	24	7	77	150	150	20
Visayas	2027	6	24	8	90	150	150	20
Visayas	2027	6	24	9	105	150	150	20
Visayas	2027	6	24	10	112	150	150	20
Visayas	2027	6	24	11	116	150	150	20
Visayas	2027	6	24	12	111	150	150	20
Visayas	2027	6	24	13	110	150	150	20
Visayas	2027	6	24	14	116	150	150	20
Visayas	2027	6	24	15	118	150	150	20
Visayas	2027	6	24	16	113	150	150	20
Visayas	2027	6	24	17	107	150	150	20
Visayas	2027	6	24	18	108	150	150	20
Visayas	2027	6	24	19	113	150	150	20
Visayas	2027	6	24	20	107	150	150	20
Visayas	2027	6	24	21	103	150	150	20
Visayas	2027	6	24	22	94	150	150	20
Visayas	2027	6	24	23	88	150	150	20
Visayas	2027	6	24	24	83	150	150	20
Visayas	2027	6	25	1	79	150	150	20
Visayas	2027	6	25	2	76	150	150	20
Visayas	2027	6	25	3	72	150	150	20
Visayas	2027	6	25	4	70	150	150	20
Visayas	2027	6	25	5	73	150	150	20
Visayas	2027	6	25	6	77	150	150	20
Visayas	2027	6	25	7	75	150	150	20
Visayas	2027	6	25	8	90	150	150	20
Visayas	2027	6	25	9	107	150	150	20
Visayas	2027	6	25	10	118	150	150	20
Visayas	2027	6	25	11	125	150	150	20
Visayas	2027	6	25	12	123	150	150	20
Visayas	2027	6	25	13	125	150	150	20
Visayas	2027	6	25	14	131	150	150	20
Visayas	2027	6	25	15	128	150	150	20
Visayas	2027	6	25	16	122	150	150	20
Visayas	2027	6	25	17	112	150	150	20
Visayas	2027	6	25	18	111	150	150	20
Visayas	2027	6	25	19	119	150	150	20
Visayas	2027	6	25	20	113	150	150	20
Visayas	2027	6	25	21	110	150	150	20
Visayas	2027	6	25	22	102	150	150	20
Visayas	2027	6	25	23	94	150	150	20
Visayas	2027	6	25	24	88	150	150	20
Visayas	2027	6	26	1	83	150	150	20
Visayas	2027	6	26	2	79	150	150	20
Visayas	2027	6	26	3	75	150	150	20
Visayas	2027	6	26	4	72	150	150	20
Visayas	2027	6	26	5	72	150	150	20
Visayas	2027	6	26	6	71	150	150	20
Visayas	2027	6	26	7	72	150	150	20
Visayas	2027	6	26	8	84	150	150	20
Visayas	2027	6	26	9	97	150	150	20
Visayas	2027	6	26	10	105	150	150	20
Visayas	2027	6	26	11	108	150	150	20
Visayas	2027	6	26	12	104	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	26	13	101	150	150	20
Visayas	2027	6	26	14	103	150	150	20
Visayas	2027	6	26	15	101	150	150	20
Visayas	2027	6	26	16	99	150	150	20
Visayas	2027	6	26	17	96	150	150	20
Visayas	2027	6	26	18	99	150	150	20
Visayas	2027	6	26	19	108	150	150	20
Visayas	2027	6	26	20	104	150	150	20
Visayas	2027	6	26	21	100	150	150	20
Visayas	2027	6	26	22	93	150	150	20
Visayas	2027	6	26	23	86	150	150	20
Visayas	2027	6	26	24	81	150	150	20
Visayas	2027	6	27	1	76	150	150	20
Visayas	2027	6	27	2	72	150	150	20
Visayas	2027	6	27	3	70	150	150	20
Visayas	2027	6	27	4	67	150	150	20
Visayas	2027	6	27	5	66	150	150	20
Visayas	2027	6	27	6	66	150	150	20
Visayas	2027	6	27	7	64	150	150	20
Visayas	2027	6	27	8	68	150	150	20
Visayas	2027	6	27	9	77	150	150	20
Visayas	2027	6	27	10	82	150	150	20
Visayas	2027	6	27	11	85	150	150	20
Visayas	2027	6	27	12	87	150	150	20
Visayas	2027	6	27	13	86	150	150	20
Visayas	2027	6	27	14	88	150	150	20
Visayas	2027	6	27	15	85	150	150	20
Visayas	2027	6	27	16	84	150	150	20
Visayas	2027	6	27	17	84	150	150	20
Visayas	2027	6	27	18	91	150	150	20
Visayas	2027	6	27	19	99	150	150	20
Visayas	2027	6	27	20	97	150	150	20
Visayas	2027	6	27	21	95	150	150	20
Visayas	2027	6	27	22	87	150	150	20
Visayas	2027	6	27	23	81	150	150	20
Visayas	2027	6	27	24	75	150	150	20
Visayas	2027	6	28	1	70	150	150	20
Visayas	2027	6	28	2	67	150	150	20
Visayas	2027	6	28	3	64	150	150	20
Visayas	2027	6	28	4	64	150	150	20
Visayas	2027	6	28	5	66	150	150	20
Visayas	2027	6	28	6	70	150	150	20
Visayas	2027	6	28	7	70	150	150	20
Visayas	2027	6	28	8	86	150	150	20
Visayas	2027	6	28	9	106	150	150	20
Visayas	2027	6	28	10	118	150	150	20
Visayas	2027	6	28	11	120	150	150	20
Visayas	2027	6	28	12	117	150	150	20
Visayas	2027	6	28	13	117	150	150	20
Visayas	2027	6	28	14	125	150	150	20
Visayas	2027	6	28	15	126	150	150	20
Visayas	2027	6	28	16	119	150	150	20
Visayas	2027	6	28	17	111	150	150	20
Visayas	2027	6	28	18	106	150	150	20
Visayas	2027	6	28	19	115	150	150	20
Visayas	2027	6	28	20	109	150	150	20
Visayas	2027	6	28	21	105	150	150	20
Visayas	2027	6	28	22	97	150	150	20
Visayas	2027	6	28	23	90	150	150	20
Visayas	2027	6	28	24	84	150	150	20
Visayas	2027	6	29	1	80	150	150	20
Visayas	2027	6	29	2	75	150	150	20
Visayas	2027	6	29	3	72	150	150	20
Visayas	2027	6	29	4	70	150	150	20
Visayas	2027	6	29	5	73	150	150	20
Visayas	2027	6	29	6	76	150	150	20
Visayas	2027	6	29	7	76	150	150	20
Visayas	2027	6	29	8	93	150	150	20
Visayas	2027	6	29	9	114	150	150	20
Visayas	2027	6	29	10	119	150	150	20
Visayas	2027	6	29	11	127	150	150	20
Visayas	2027	6	29	12	121	150	150	20
Visayas	2027	6	29	13	122	150	150	20
Visayas	2027	6	29	14	128	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	6	29	15	127	150	150	20
Visayas	2027	6	29	16	121	150	150	20
Visayas	2027	6	29	17	117	150	150	20
Visayas	2027	6	29	18	112	150	150	20
Visayas	2027	6	29	19	117	150	150	20
Visayas	2027	6	29	20	112	150	150	20
Visayas	2027	6	29	21	106	150	150	20
Visayas	2027	6	29	22	98	150	150	20
Visayas	2027	6	29	23	91	150	150	20
Visayas	2027	6	29	24	85	150	150	20
Visayas	2027	6	30	1	78	150	150	20
Visayas	2027	6	30	2	75	150	150	20
Visayas	2027	6	30	3	72	150	150	20
Visayas	2027	6	30	4	69	150	150	20
Visayas	2027	6	30	5	70	150	150	20
Visayas	2027	6	30	6	68	150	150	20
Visayas	2027	6	30	7	71	150	150	20
Visayas	2027	6	30	8	80	150	150	20
Visayas	2027	6	30	9	90	150	150	20
Visayas	2027	6	30	10	98	150	150	20
Visayas	2027	6	30	11	103	150	150	20
Visayas	2027	6	30	12	102	150	150	20
Visayas	2027	6	30	13	105	150	150	20
Visayas	2027	6	30	14	110	150	150	20
Visayas	2027	6	30	15	109	150	150	20
Visayas	2027	6	30	16	105	150	150	20
Visayas	2027	6	30	17	102	150	150	20
Visayas	2027	6	30	18	106	150	150	20
Visayas	2027	6	30	19	115	150	150	20
Visayas	2027	6	30	20	110	150	150	20
Visayas	2027	6	30	21	107	150	150	20
Visayas	2027	6	30	22	99	150	150	20
Visayas	2027	6	30	23	91	150	150	20
Visayas	2027	6	30	24	85	150	150	20
Visayas	2027	7	1	1	80	150	150	20
Visayas	2027	7	1	2	76	150	150	20
Visayas	2027	7	1	3	73	150	150	20
Visayas	2027	7	1	4	70	150	150	20
Visayas	2027	7	1	5	73	150	150	20
Visayas	2027	7	1	6	77	150	150	20
Visayas	2027	7	1	7	76	150	150	20
Visayas	2027	7	1	8	91	150	150	20
Visayas	2027	7	1	9	110	150	150	20
Visayas	2027	7	1	10	120	150	150	20
Visayas	2027	7	1	11	124	150	150	20
Visayas	2027	7	1	12	121	150	150	20
Visayas	2027	7	1	13	121	150	150	20
Visayas	2027	7	1	14	127	150	150	20
Visayas	2027	7	1	15	125	150	150	20
Visayas	2027	7	1	16	122	150	150	20
Visayas	2027	7	1	17	113	150	150	20
Visayas	2027	7	1	18	110	150	150	20
Visayas	2027	7	1	19	113	150	150	20
Visayas	2027	7	1	20	109	150	150	20
Visayas	2027	7	1	21	104	150	150	20
Visayas	2027	7	1	22	97	150	150	20
Visayas	2027	7	1	23	89	150	150	20
Visayas	2027	7	1	24	84	150	150	20
Visayas	2027	7	2	1	79	150	150	20
Visayas	2027	7	2	2	75	150	150	20
Visayas	2027	7	2	3	72	150	150	20
Visayas	2027	7	2	4	70	150	150	20
Visayas	2027	7	2	5	72	150	150	20
Visayas	2027	7	2	6	75	150	150	20
Visayas	2027	7	2	7	75	150	150	20
Visayas	2027	7	2	8	90	150	150	20
Visayas	2027	7	2	9	109	150	150	20
Visayas	2027	7	2	10	118	150	150	20
Visayas	2027	7	2	11	121	150	150	20
Visayas	2027	7	2	12	118	150	150	20
Visayas	2027	7	2	13	121	150	150	20
Visayas	2027	7	2	14	127	150	150	20
Visayas	2027	7	2	15	125	150	150	20
Visayas	2027	7	2	16	121	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	2	17	111	150	150	20
Visayas	2027	7	2	18	112	150	150	20
Visayas	2027	7	2	19	118	150	150	20
Visayas	2027	7	2	20	113	150	150	20
Visayas	2027	7	2	21	109	150	150	20
Visayas	2027	7	2	22	101	150	150	20
Visayas	2027	7	2	23	94	150	150	20
Visayas	2027	7	2	24	87	150	150	20
Visayas	2027	7	3	1	82	150	150	20
Visayas	2027	7	3	2	77	150	150	20
Visayas	2027	7	3	3	73	150	150	20
Visayas	2027	7	3	4	70	150	150	20
Visayas	2027	7	3	5	71	150	150	20
Visayas	2027	7	3	6	71	150	150	20
Visayas	2027	7	3	7	72	150	150	20
Visayas	2027	7	3	8	83	150	150	20
Visayas	2027	7	3	9	98	150	150	20
Visayas	2027	7	3	10	108	150	150	20
Visayas	2027	7	3	11	114	150	150	20
Visayas	2027	7	3	12	111	150	150	20
Visayas	2027	7	3	13	112	150	150	20
Visayas	2027	7	3	14	117	150	150	20
Visayas	2027	7	3	15	117	150	150	20
Visayas	2027	7	3	16	113	150	150	20
Visayas	2027	7	3	17	107	150	150	20
Visayas	2027	7	3	18	105	150	150	20
Visayas	2027	7	3	19	117	150	150	20
Visayas	2027	7	3	20	113	150	150	20
Visayas	2027	7	3	21	111	150	150	20
Visayas	2027	7	3	22	103	150	150	20
Visayas	2027	7	3	23	95	150	150	20
Visayas	2027	7	3	24	89	150	150	20
Visayas	2027	7	4	1	84	150	150	20
Visayas	2027	7	4	2	81	150	150	20
Visayas	2027	7	4	3	76	150	150	20
Visayas	2027	7	4	4	72	150	150	20
Visayas	2027	7	4	5	71	150	150	20
Visayas	2027	7	4	6	66	150	150	20
Visayas	2027	7	4	7	66	150	150	20
Visayas	2027	7	4	8	70	150	150	20
Visayas	2027	7	4	9	79	150	150	20
Visayas	2027	7	4	10	85	150	150	20
Visayas	2027	7	4	11	90	150	150	20
Visayas	2027	7	4	12	89	150	150	20
Visayas	2027	7	4	13	90	150	150	20
Visayas	2027	7	4	14	93	150	150	20
Visayas	2027	7	4	15	92	150	150	20
Visayas	2027	7	4	16	92	150	150	20
Visayas	2027	7	4	17	88	150	150	20
Visayas	2027	7	4	18	96	150	150	20
Visayas	2027	7	4	19	107	150	150	20
Visayas	2027	7	4	20	104	150	150	20
Visayas	2027	7	4	21	102	150	150	20
Visayas	2027	7	4	22	97	150	150	20
Visayas	2027	7	4	23	89	150	150	20
Visayas	2027	7	4	24	84	150	150	20
Visayas	2027	7	5	1	80	150	150	20
Visayas	2027	7	5	2	76	150	150	20
Visayas	2027	7	5	3	71	150	150	20
Visayas	2027	7	5	4	69	150	150	20
Visayas	2027	7	5	5	72	150	150	20
Visayas	2027	7	5	6	76	150	150	20
Visayas	2027	7	5	7	75	150	150	20
Visayas	2027	7	5	8	91	150	150	20
Visayas	2027	7	5	9	111	150	150	20
Visayas	2027	7	5	10	121	150	150	20
Visayas	2027	7	5	11	124	150	150	20
Visayas	2027	7	5	12	123	150	150	20
Visayas	2027	7	5	13	121	150	150	20
Visayas	2027	7	5	14	128	150	150	20
Visayas	2027	7	5	15	127	150	150	20
Visayas	2027	7	5	16	122	150	150	20
Visayas	2027	7	5	17	115	150	150	20
Visayas	2027	7	5	18	112	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	5	19	117	150	150	20
Visayas	2027	7	5	20	112	150	150	20
Visayas	2027	7	5	21	109	150	150	20
Visayas	2027	7	5	22	101	150	150	20
Visayas	2027	7	5	23	93	150	150	20
Visayas	2027	7	5	24	87	150	150	20
Visayas	2027	7	6	1	82	150	150	20
Visayas	2027	7	6	2	78	150	150	20
Visayas	2027	7	6	3	74	150	150	20
Visayas	2027	7	6	4	72	150	150	20
Visayas	2027	7	6	5	74	150	150	20
Visayas	2027	7	6	6	77	150	150	20
Visayas	2027	7	6	7	77	150	150	20
Visayas	2027	7	6	8	93	150	150	20
Visayas	2027	7	6	9	114	150	150	20
Visayas	2027	7	6	10	124	150	150	20
Visayas	2027	7	6	11	130	150	150	20
Visayas	2027	7	6	12	129	150	150	20
Visayas	2027	7	6	13	129	150	150	20
Visayas	2027	7	6	14	136	150	150	20
Visayas	2027	7	6	15	134	150	150	20
Visayas	2027	7	6	16	132	150	150	20
Visayas	2027	7	6	17	121	150	150	20
Visayas	2027	7	6	18	115	150	150	20
Visayas	2027	7	6	19	124	150	150	20
Visayas	2027	7	6	20	118	150	150	20
Visayas	2027	7	6	21	113	150	150	20
Visayas	2027	7	6	22	105	150	150	20
Visayas	2027	7	6	23	97	150	150	20
Visayas	2027	7	6	24	91	150	150	20
Visayas	2027	7	7	1	86	150	150	20
Visayas	2027	7	7	2	80	150	150	20
Visayas	2027	7	7	3	76	150	150	20
Visayas	2027	7	7	4	72	150	150	20
Visayas	2027	7	7	5	73	150	150	20
Visayas	2027	7	7	6	75	150	150	20
Visayas	2027	7	7	7	75	150	150	20
Visayas	2027	7	7	8	89	150	150	20
Visayas	2027	7	7	9	106	150	150	20
Visayas	2027	7	7	10	115	150	150	20
Visayas	2027	7	7	11	121	150	150	20
Visayas	2027	7	7	12	117	150	150	20
Visayas	2027	7	7	13	117	150	150	20
Visayas	2027	7	7	14	125	150	150	20
Visayas	2027	7	7	15	123	150	150	20
Visayas	2027	7	7	16	121	150	150	20
Visayas	2027	7	7	17	113	150	150	20
Visayas	2027	7	7	18	110	150	150	20
Visayas	2027	7	7	19	118	150	150	20
Visayas	2027	7	7	20	113	150	150	20
Visayas	2027	7	7	21	108	150	150	20
Visayas	2027	7	7	22	101	150	150	20
Visayas	2027	7	7	23	93	150	150	20
Visayas	2027	7	7	24	85	150	150	20
Visayas	2027	7	8	1	80	150	150	20
Visayas	2027	7	8	2	79	150	150	20
Visayas	2027	7	8	3	76	150	150	20
Visayas	2027	7	8	4	74	150	150	20
Visayas	2027	7	8	5	75	150	150	20
Visayas	2027	7	8	6	78	150	150	20
Visayas	2027	7	8	7	79	150	150	20
Visayas	2027	7	8	8	94	150	150	20
Visayas	2027	7	8	9	114	150	150	20
Visayas	2027	7	8	10	123	150	150	20
Visayas	2027	7	8	11	130	150	150	20
Visayas	2027	7	8	12	126	150	150	20
Visayas	2027	7	8	13	128	150	150	20
Visayas	2027	7	8	14	135	150	150	20
Visayas	2027	7	8	15	133	150	150	20
Visayas	2027	7	8	16	130	150	150	20
Visayas	2027	7	8	17	120	150	150	20
Visayas	2027	7	8	18	116	150	150	20
Visayas	2027	7	8	19	122	150	150	20
Visayas	2027	7	8	20	119	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	8	21	115	150	150	20
Visayas	2027	7	8	22	107	150	150	20
Visayas	2027	7	8	23	99	150	150	20
Visayas	2027	7	8	24	91	150	150	20
Visayas	2027	7	9	1	87	150	150	20
Visayas	2027	7	9	2	83	150	150	20
Visayas	2027	7	9	3	79	150	150	20
Visayas	2027	7	9	4	76	150	150	20
Visayas	2027	7	9	5	78	150	150	20
Visayas	2027	7	9	6	80	150	150	20
Visayas	2027	7	9	7	82	150	150	20
Visayas	2027	7	9	8	95	150	150	20
Visayas	2027	7	9	9	114	150	150	20
Visayas	2027	7	9	10	125	150	150	20
Visayas	2027	7	9	11	132	150	150	20
Visayas	2027	7	9	12	128	150	150	20
Visayas	2027	7	9	13	129	150	150	20
Visayas	2027	7	9	14	135	150	150	20
Visayas	2027	7	9	15	135	150	150	20
Visayas	2027	7	9	16	130	150	150	20
Visayas	2027	7	9	17	118	150	150	20
Visayas	2027	7	9	18	114	150	150	20
Visayas	2027	7	9	19	121	150	150	20
Visayas	2027	7	9	20	116	150	150	20
Visayas	2027	7	9	21	110	150	150	20
Visayas	2027	7	9	22	103	150	150	20
Visayas	2027	7	9	23	95	150	150	20
Visayas	2027	7	9	24	90	150	150	20
Visayas	2027	7	10	1	85	150	150	20
Visayas	2027	7	10	2	81	150	150	20
Visayas	2027	7	10	3	79	150	150	20
Visayas	2027	7	10	4	75	150	150	20
Visayas	2027	7	10	5	75	150	150	20
Visayas	2027	7	10	6	72	150	150	20
Visayas	2027	7	10	7	73	150	150	20
Visayas	2027	7	10	8	84	150	150	20
Visayas	2027	7	10	9	97	150	150	20
Visayas	2027	7	10	10	104	150	150	20
Visayas	2027	7	10	11	110	150	150	20
Visayas	2027	7	10	12	108	150	150	20
Visayas	2027	7	10	13	110	150	150	20
Visayas	2027	7	10	14	117	150	150	20
Visayas	2027	7	10	15	116	150	150	20
Visayas	2027	7	10	16	112	150	150	20
Visayas	2027	7	10	17	107	150	150	20
Visayas	2027	7	10	18	107	150	150	20
Visayas	2027	7	10	19	119	150	150	20
Visayas	2027	7	10	20	116	150	150	20
Visayas	2027	7	10	21	114	150	150	20
Visayas	2027	7	10	22	106	150	150	20
Visayas	2027	7	10	23	98	150	150	20
Visayas	2027	7	10	24	92	150	150	20
Visayas	2027	7	11	1	86	150	150	20
Visayas	2027	7	11	2	83	150	150	20
Visayas	2027	7	11	3	79	150	150	20
Visayas	2027	7	11	4	74	150	150	20
Visayas	2027	7	11	5	73	150	150	20
Visayas	2027	7	11	6	71	150	150	20
Visayas	2027	7	11	7	71	150	150	20
Visayas	2027	7	11	8	76	150	150	20
Visayas	2027	7	11	9	84	150	150	20
Visayas	2027	7	11	10	87	150	150	20
Visayas	2027	7	11	11	92	150	150	20
Visayas	2027	7	11	12	90	150	150	20
Visayas	2027	7	11	13	90	150	150	20
Visayas	2027	7	11	14	91	150	150	20
Visayas	2027	7	11	15	88	150	150	20
Visayas	2027	7	11	16	90	150	150	20
Visayas	2027	7	11	17	90	150	150	20
Visayas	2027	7	11	18	95	150	150	20
Visayas	2027	7	11	19	105	150	150	20
Visayas	2027	7	11	20	101	150	150	20
Visayas	2027	7	11	21	99	150	150	20
Visayas	2027	7	11	22	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	11	23	86	150	150	20
Visayas	2027	7	11	24	80	150	150	20
Visayas	2027	7	12	1	74	150	150	20
Visayas	2027	7	12	2	72	150	150	20
Visayas	2027	7	12	3	69	150	150	20
Visayas	2027	7	12	4	68	150	150	20
Visayas	2027	7	12	5	69	150	150	20
Visayas	2027	7	12	6	73	150	150	20
Visayas	2027	7	12	7	75	150	150	20
Visayas	2027	7	12	8	90	150	150	20
Visayas	2027	7	12	9	110	150	150	20
Visayas	2027	7	12	10	122	150	150	20
Visayas	2027	7	12	11	129	150	150	20
Visayas	2027	7	12	12	126	150	150	20
Visayas	2027	7	12	13	124	150	150	20
Visayas	2027	7	12	14	129	150	150	20
Visayas	2027	7	12	15	126	150	150	20
Visayas	2027	7	12	16	122	150	150	20
Visayas	2027	7	12	17	117	150	150	20
Visayas	2027	7	12	18	112	150	150	20
Visayas	2027	7	12	19	120	150	150	20
Visayas	2027	7	12	20	113	150	150	20
Visayas	2027	7	12	21	109	150	150	20
Visayas	2027	7	12	22	99	150	150	20
Visayas	2027	7	12	23	92	150	150	20
Visayas	2027	7	12	24	86	150	150	20
Visayas	2027	7	13	1	81	150	150	20
Visayas	2027	7	13	2	77	150	150	20
Visayas	2027	7	13	3	74	150	150	20
Visayas	2027	7	13	4	70	150	150	20
Visayas	2027	7	13	5	74	150	150	20
Visayas	2027	7	13	6	76	150	150	20
Visayas	2027	7	13	7	77	150	150	20
Visayas	2027	7	13	8	94	150	150	20
Visayas	2027	7	13	9	111	150	150	20
Visayas	2027	7	13	10	121	150	150	20
Visayas	2027	7	13	11	126	150	150	20
Visayas	2027	7	13	12	125	150	150	20
Visayas	2027	7	13	13	121	150	150	20
Visayas	2027	7	13	14	126	150	150	20
Visayas	2027	7	13	15	124	150	150	20
Visayas	2027	7	13	16	122	150	150	20
Visayas	2027	7	13	17	115	150	150	20
Visayas	2027	7	13	18	111	150	150	20
Visayas	2027	7	13	19	120	150	150	20
Visayas	2027	7	13	20	115	150	150	20
Visayas	2027	7	13	21	109	150	150	20
Visayas	2027	7	13	22	102	150	150	20
Visayas	2027	7	13	23	95	150	150	20
Visayas	2027	7	13	24	89	150	150	20
Visayas	2027	7	14	1	84	150	150	20
Visayas	2027	7	14	2	79	150	150	20
Visayas	2027	7	14	3	76	150	150	20
Visayas	2027	7	14	4	74	150	150	20
Visayas	2027	7	14	5	76	150	150	20
Visayas	2027	7	14	6	76	150	150	20
Visayas	2027	7	14	7	77	150	150	20
Visayas	2027	7	14	8	91	150	150	20
Visayas	2027	7	14	9	112	150	150	20
Visayas	2027	7	14	10	119	150	150	20
Visayas	2027	7	14	11	125	150	150	20
Visayas	2027	7	14	12	122	150	150	20
Visayas	2027	7	14	13	122	150	150	20
Visayas	2027	7	14	14	126	150	150	20
Visayas	2027	7	14	15	122	150	150	20
Visayas	2027	7	14	16	115	150	150	20
Visayas	2027	7	14	17	108	150	150	20
Visayas	2027	7	14	18	110	150	150	20
Visayas	2027	7	14	19	114	150	150	20
Visayas	2027	7	14	20	108	150	150	20
Visayas	2027	7	14	21	105	150	150	20
Visayas	2027	7	14	22	98	150	150	20
Visayas	2027	7	14	23	91	150	150	20
Visayas	2027	7	14	24	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	15	1	80	150	150	20
Visayas	2027	7	15	2	76	150	150	20
Visayas	2027	7	15	3	72	150	150	20
Visayas	2027	7	15	4	71	150	150	20
Visayas	2027	7	15	5	71	150	150	20
Visayas	2027	7	15	6	73	150	150	20
Visayas	2027	7	15	7	76	150	150	20
Visayas	2027	7	15	8	89	150	150	20
Visayas	2027	7	15	9	108	150	150	20
Visayas	2027	7	15	10	115	150	150	20
Visayas	2027	7	15	11	116	150	150	20
Visayas	2027	7	15	12	110	150	150	20
Visayas	2027	7	15	13	110	150	150	20
Visayas	2027	7	15	14	118	150	150	20
Visayas	2027	7	15	15	116	150	150	20
Visayas	2027	7	15	16	113	150	150	20
Visayas	2027	7	15	17	106	150	150	20
Visayas	2027	7	15	18	106	150	150	20
Visayas	2027	7	15	19	107	150	150	20
Visayas	2027	7	15	20	101	150	150	20
Visayas	2027	7	15	21	96	150	150	20
Visayas	2027	7	15	22	89	150	150	20
Visayas	2027	7	15	23	83	150	150	20
Visayas	2027	7	15	24	78	150	150	20
Visayas	2027	7	16	1	73	150	150	20
Visayas	2027	7	16	2	69	150	150	20
Visayas	2027	7	16	3	67	150	150	20
Visayas	2027	7	16	4	65	150	150	20
Visayas	2027	7	16	5	67	150	150	20
Visayas	2027	7	16	6	71	150	150	20
Visayas	2027	7	16	7	73	150	150	20
Visayas	2027	7	16	8	86	150	150	20
Visayas	2027	7	16	9	103	150	150	20
Visayas	2027	7	16	10	112	150	150	20
Visayas	2027	7	16	11	114	150	150	20
Visayas	2027	7	16	12	111	150	150	20
Visayas	2027	7	16	13	107	150	150	20
Visayas	2027	7	16	14	114	150	150	20
Visayas	2027	7	16	15	114	150	150	20
Visayas	2027	7	16	16	112	150	150	20
Visayas	2027	7	16	17	105	150	150	20
Visayas	2027	7	16	18	104	150	150	20
Visayas	2027	7	16	19	107	150	150	20
Visayas	2027	7	16	20	104	150	150	20
Visayas	2027	7	16	21	98	150	150	20
Visayas	2027	7	16	22	89	150	150	20
Visayas	2027	7	16	23	82	150	150	20
Visayas	2027	7	16	24	77	150	150	20
Visayas	2027	7	17	1	72	150	150	20
Visayas	2027	7	17	2	69	150	150	20
Visayas	2027	7	17	3	67	150	150	20
Visayas	2027	7	17	4	65	150	150	20
Visayas	2027	7	17	5	66	150	150	20
Visayas	2027	7	17	6	66	150	150	20
Visayas	2027	7	17	7	66	150	150	20
Visayas	2027	7	17	8	70	150	150	20
Visayas	2027	7	17	9	86	150	150	20
Visayas	2027	7	17	10	94	150	150	20
Visayas	2027	7	17	11	96	150	150	20
Visayas	2027	7	17	12	91	150	150	20
Visayas	2027	7	17	13	93	150	150	20
Visayas	2027	7	17	14	99	150	150	20
Visayas	2027	7	17	15	96	150	150	20
Visayas	2027	7	17	16	96	150	150	20
Visayas	2027	7	17	17	94	150	150	20
Visayas	2027	7	17	18	96	150	150	20
Visayas	2027	7	17	19	103	150	150	20
Visayas	2027	7	17	20	97	150	150	20
Visayas	2027	7	17	21	94	150	150	20
Visayas	2027	7	17	22	88	150	150	20
Visayas	2027	7	17	23	81	150	150	20
Visayas	2027	7	17	24	75	150	150	20
Visayas	2027	7	18	1	71	150	150	20
Visayas	2027	7	18	2	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	18	3	66	150	150	20
Visayas	2027	7	18	4	64	150	150	20
Visayas	2027	7	18	5	64	150	150	20
Visayas	2027	7	18	6	63	150	150	20
Visayas	2027	7	18	7	62	150	150	20
Visayas	2027	7	18	8	67	150	150	20
Visayas	2027	7	18	9	75	150	150	20
Visayas	2027	7	18	10	79	150	150	20
Visayas	2027	7	18	11	85	150	150	20
Visayas	2027	7	18	12	82	150	150	20
Visayas	2027	7	18	13	85	150	150	20
Visayas	2027	7	18	14	85	150	150	20
Visayas	2027	7	18	15	85	150	150	20
Visayas	2027	7	18	16	84	150	150	20
Visayas	2027	7	18	17	84	150	150	20
Visayas	2027	7	18	18	88	150	150	20
Visayas	2027	7	18	19	98	150	150	20
Visayas	2027	7	18	20	96	150	150	20
Visayas	2027	7	18	21	93	150	150	20
Visayas	2027	7	18	22	86	150	150	20
Visayas	2027	7	18	23	78	150	150	20
Visayas	2027	7	18	24	74	150	150	20
Visayas	2027	7	19	1	69	150	150	20
Visayas	2027	7	19	2	66	150	150	20
Visayas	2027	7	19	3	64	150	150	20
Visayas	2027	7	19	4	62	150	150	20
Visayas	2027	7	19	5	63	150	150	20
Visayas	2027	7	19	6	66	150	150	20
Visayas	2027	7	19	7	69	150	150	20
Visayas	2027	7	19	8	85	150	150	20
Visayas	2027	7	19	9	102	150	150	20
Visayas	2027	7	19	10	111	150	150	20
Visayas	2027	7	19	11	118	150	150	20
Visayas	2027	7	19	12	113	150	150	20
Visayas	2027	7	19	13	119	150	150	20
Visayas	2027	7	19	14	121	150	150	20
Visayas	2027	7	19	15	116	150	150	20
Visayas	2027	7	19	16	113	150	150	20
Visayas	2027	7	19	17	102	150	150	20
Visayas	2027	7	19	18	104	150	150	20
Visayas	2027	7	19	19	111	150	150	20
Visayas	2027	7	19	20	105	150	150	20
Visayas	2027	7	19	21	100	150	150	20
Visayas	2027	7	19	22	93	150	150	20
Visayas	2027	7	19	23	86	150	150	20
Visayas	2027	7	19	24	79	150	150	20
Visayas	2027	7	20	1	75	150	150	20
Visayas	2027	7	20	2	71	150	150	20
Visayas	2027	7	20	3	69	150	150	20
Visayas	2027	7	20	4	67	150	150	20
Visayas	2027	7	20	5	67	150	150	20
Visayas	2027	7	20	6	70	150	150	20
Visayas	2027	7	20	7	73	150	150	20
Visayas	2027	7	20	8	87	150	150	20
Visayas	2027	7	20	9	106	150	150	20
Visayas	2027	7	20	10	116	150	150	20
Visayas	2027	7	20	11	122	150	150	20
Visayas	2027	7	20	12	122	150	150	20
Visayas	2027	7	20	13	118	150	150	20
Visayas	2027	7	20	14	128	150	150	20
Visayas	2027	7	20	15	128	150	150	20
Visayas	2027	7	20	16	120	150	150	20
Visayas	2027	7	20	17	112	150	150	20
Visayas	2027	7	20	18	108	150	150	20
Visayas	2027	7	20	19	113	150	150	20
Visayas	2027	7	20	20	107	150	150	20
Visayas	2027	7	20	21	103	150	150	20
Visayas	2027	7	20	22	94	150	150	20
Visayas	2027	7	20	23	89	150	150	20
Visayas	2027	7	20	24	81	150	150	20
Visayas	2027	7	21	1	77	150	150	20
Visayas	2027	7	21	2	72	150	150	20
Visayas	2027	7	21	3	70	150	150	20
Visayas	2027	7	21	4	68	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	21	5	69	150	150	20
Visayas	2027	7	21	6	72	150	150	20
Visayas	2027	7	21	7	73	150	150	20
Visayas	2027	7	21	8	86	150	150	20
Visayas	2027	7	21	9	102	150	150	20
Visayas	2027	7	21	10	109	150	150	20
Visayas	2027	7	21	11	112	150	150	20
Visayas	2027	7	21	12	108	150	150	20
Visayas	2027	7	21	13	107	150	150	20
Visayas	2027	7	21	14	112	150	150	20
Visayas	2027	7	21	15	112	150	150	20
Visayas	2027	7	21	16	110	150	150	20
Visayas	2027	7	21	17	105	150	150	20
Visayas	2027	7	21	18	104	150	150	20
Visayas	2027	7	21	19	108	150	150	20
Visayas	2027	7	21	20	101	150	150	20
Visayas	2027	7	21	21	98	150	150	20
Visayas	2027	7	21	22	88	150	150	20
Visayas	2027	7	21	23	82	150	150	20
Visayas	2027	7	21	24	77	150	150	20
Visayas	2027	7	22	1	71	150	150	20
Visayas	2027	7	22	2	68	150	150	20
Visayas	2027	7	22	3	66	150	150	20
Visayas	2027	7	22	4	64	150	150	20
Visayas	2027	7	22	5	66	150	150	20
Visayas	2027	7	22	6	69	150	150	20
Visayas	2027	7	22	7	72	150	150	20
Visayas	2027	7	22	8	88	150	150	20
Visayas	2027	7	22	9	105	150	150	20
Visayas	2027	7	22	10	115	150	150	20
Visayas	2027	7	22	11	119	150	150	20
Visayas	2027	7	22	12	116	150	150	20
Visayas	2027	7	22	13	115	150	150	20
Visayas	2027	7	22	14	123	150	150	20
Visayas	2027	7	22	15	120	150	150	20
Visayas	2027	7	22	16	115	150	150	20
Visayas	2027	7	22	17	109	150	150	20
Visayas	2027	7	22	18	107	150	150	20
Visayas	2027	7	22	19	110	150	150	20
Visayas	2027	7	22	20	104	150	150	20
Visayas	2027	7	22	21	100	150	150	20
Visayas	2027	7	22	22	92	150	150	20
Visayas	2027	7	22	23	86	150	150	20
Visayas	2027	7	22	24	80	150	150	20
Visayas	2027	7	23	1	75	150	150	20
Visayas	2027	7	23	2	72	150	150	20
Visayas	2027	7	23	3	69	150	150	20
Visayas	2027	7	23	4	67	150	150	20
Visayas	2027	7	23	5	67	150	150	20
Visayas	2027	7	23	6	70	150	150	20
Visayas	2027	7	23	7	73	150	150	20
Visayas	2027	7	23	8	86	150	150	20
Visayas	2027	7	23	9	102	150	150	20
Visayas	2027	7	23	10	115	150	150	20
Visayas	2027	7	23	11	122	150	150	20
Visayas	2027	7	23	12	118	150	150	20
Visayas	2027	7	23	13	120	150	150	20
Visayas	2027	7	23	14	125	150	150	20
Visayas	2027	7	23	15	124	150	150	20
Visayas	2027	7	23	16	120	150	150	20
Visayas	2027	7	23	17	112	150	150	20
Visayas	2027	7	23	18	110	150	150	20
Visayas	2027	7	23	19	114	150	150	20
Visayas	2027	7	23	20	107	150	150	20
Visayas	2027	7	23	21	103	150	150	20
Visayas	2027	7	23	22	96	150	150	20
Visayas	2027	7	23	23	88	150	150	20
Visayas	2027	7	23	24	82	150	150	20
Visayas	2027	7	24	1	77	150	150	20
Visayas	2027	7	24	2	74	150	150	20
Visayas	2027	7	24	3	71	150	150	20
Visayas	2027	7	24	4	70	150	150	20
Visayas	2027	7	24	5	69	150	150	20
Visayas	2027	7	24	6	70	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	24	7	70	150	150	20
Visayas	2027	7	24	8	79	150	150	20
Visayas	2027	7	24	9	90	150	150	20
Visayas	2027	7	24	10	95	150	150	20
Visayas	2027	7	24	11	100	150	150	20
Visayas	2027	7	24	12	96	150	150	20
Visayas	2027	7	24	13	98	150	150	20
Visayas	2027	7	24	14	103	150	150	20
Visayas	2027	7	24	15	103	150	150	20
Visayas	2027	7	24	16	100	150	150	20
Visayas	2027	7	24	17	96	150	150	20
Visayas	2027	7	24	18	99	150	150	20
Visayas	2027	7	24	19	109	150	150	20
Visayas	2027	7	24	20	101	150	150	20
Visayas	2027	7	24	21	98	150	150	20
Visayas	2027	7	24	22	91	150	150	20
Visayas	2027	7	24	23	86	150	150	20
Visayas	2027	7	24	24	80	150	150	20
Visayas	2027	7	25	1	76	150	150	20
Visayas	2027	7	25	2	72	150	150	20
Visayas	2027	7	25	3	69	150	150	20
Visayas	2027	7	25	4	68	150	150	20
Visayas	2027	7	25	5	68	150	150	20
Visayas	2027	7	25	6	67	150	150	20
Visayas	2027	7	25	7	66	150	150	20
Visayas	2027	7	25	8	68	150	150	20
Visayas	2027	7	25	9	76	150	150	20
Visayas	2027	7	25	10	82	150	150	20
Visayas	2027	7	25	11	84	150	150	20
Visayas	2027	7	25	12	82	150	150	20
Visayas	2027	7	25	13	81	150	150	20
Visayas	2027	7	25	14	81	150	150	20
Visayas	2027	7	25	15	81	150	150	20
Visayas	2027	7	25	16	81	150	150	20
Visayas	2027	7	25	17	84	150	150	20
Visayas	2027	7	25	18	92	150	150	20
Visayas	2027	7	25	19	98	150	150	20
Visayas	2027	7	25	20	94	150	150	20
Visayas	2027	7	25	21	90	150	150	20
Visayas	2027	7	25	22	85	150	150	20
Visayas	2027	7	25	23	78	150	150	20
Visayas	2027	7	25	24	71	150	150	20
Visayas	2027	7	26	1	67	150	150	20
Visayas	2027	7	26	2	65	150	150	20
Visayas	2027	7	26	3	63	150	150	20
Visayas	2027	7	26	4	61	150	150	20
Visayas	2027	7	26	5	63	150	150	20
Visayas	2027	7	26	6	67	150	150	20
Visayas	2027	7	26	7	69	150	150	20
Visayas	2027	7	26	8	84	150	150	20
Visayas	2027	7	26	9	101	150	150	20
Visayas	2027	7	26	10	110	150	150	20
Visayas	2027	7	26	11	111	150	150	20
Visayas	2027	7	26	12	107	150	150	20
Visayas	2027	7	26	13	102	150	150	20
Visayas	2027	7	26	14	108	150	150	20
Visayas	2027	7	26	15	110	150	150	20
Visayas	2027	7	26	16	109	150	150	20
Visayas	2027	7	26	17	104	150	150	20
Visayas	2027	7	26	18	100	150	150	20
Visayas	2027	7	26	19	101	150	150	20
Visayas	2027	7	26	20	97	150	150	20
Visayas	2027	7	26	21	90	150	150	20
Visayas	2027	7	26	22	84	150	150	20
Visayas	2027	7	26	23	79	150	150	20
Visayas	2027	7	26	24	74	150	150	20
Visayas	2027	7	27	1	70	150	150	20
Visayas	2027	7	27	2	66	150	150	20
Visayas	2027	7	27	3	65	150	150	20
Visayas	2027	7	27	4	64	150	150	20
Visayas	2027	7	27	5	65	150	150	20
Visayas	2027	7	27	6	69	150	150	20
Visayas	2027	7	27	7	71	150	150	20
Visayas	2027	7	27	8	84	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	27	9	98	150	150	20
Visayas	2027	7	27	10	105	150	150	20
Visayas	2027	7	27	11	101	150	150	20
Visayas	2027	7	27	12	98	150	150	20
Visayas	2027	7	27	13	99	150	150	20
Visayas	2027	7	27	14	103	150	150	20
Visayas	2027	7	27	15	102	150	150	20
Visayas	2027	7	27	16	102	150	150	20
Visayas	2027	7	27	17	98	150	150	20
Visayas	2027	7	27	18	95	150	150	20
Visayas	2027	7	27	19	99	150	150	20
Visayas	2027	7	27	20	94	150	150	20
Visayas	2027	7	27	21	89	150	150	20
Visayas	2027	7	27	22	82	150	150	20
Visayas	2027	7	27	23	76	150	150	20
Visayas	2027	7	27	24	71	150	150	20
Visayas	2027	7	28	1	68	150	150	20
Visayas	2027	7	28	2	66	150	150	20
Visayas	2027	7	28	3	65	150	150	20
Visayas	2027	7	28	4	63	150	150	20
Visayas	2027	7	28	5	64	150	150	20
Visayas	2027	7	28	6	67	150	150	20
Visayas	2027	7	28	7	69	150	150	20
Visayas	2027	7	28	8	83	150	150	20
Visayas	2027	7	28	9	98	150	150	20
Visayas	2027	7	28	10	107	150	150	20
Visayas	2027	7	28	11	111	150	150	20
Visayas	2027	7	28	12	106	150	150	20
Visayas	2027	7	28	13	106	150	150	20
Visayas	2027	7	28	14	110	150	150	20
Visayas	2027	7	28	15	112	150	150	20
Visayas	2027	7	28	16	107	150	150	20
Visayas	2027	7	28	17	87	150	150	20
Visayas	2027	7	28	18	94	150	150	20
Visayas	2027	7	28	19	102	150	150	20
Visayas	2027	7	28	20	97	150	150	20
Visayas	2027	7	28	21	93	150	150	20
Visayas	2027	7	28	22	87	150	150	20
Visayas	2027	7	28	23	81	150	150	20
Visayas	2027	7	28	24	75	150	150	20
Visayas	2027	7	29	1	72	150	150	20
Visayas	2027	7	29	2	68	150	150	20
Visayas	2027	7	29	3	66	150	150	20
Visayas	2027	7	29	4	66	150	150	20
Visayas	2027	7	29	5	66	150	150	20
Visayas	2027	7	29	6	70	150	150	20
Visayas	2027	7	29	7	70	150	150	20
Visayas	2027	7	29	8	85	150	150	20
Visayas	2027	7	29	9	102	150	150	20
Visayas	2027	7	29	10	110	150	150	20
Visayas	2027	7	29	11	119	150	150	20
Visayas	2027	7	29	12	112	150	150	20
Visayas	2027	7	29	13	113	150	150	20
Visayas	2027	7	29	14	122	150	150	20
Visayas	2027	7	29	15	122	150	150	20
Visayas	2027	7	29	16	118	150	150	20
Visayas	2027	7	29	17	108	150	150	20
Visayas	2027	7	29	18	107	150	150	20
Visayas	2027	7	29	19	112	150	150	20
Visayas	2027	7	29	20	105	150	150	20
Visayas	2027	7	29	21	101	150	150	20
Visayas	2027	7	29	22	93	150	150	20
Visayas	2027	7	29	23	87	150	150	20
Visayas	2027	7	29	24	81	150	150	20
Visayas	2027	7	30	1	76	150	150	20
Visayas	2027	7	30	2	71	150	150	20
Visayas	2027	7	30	3	69	150	150	20
Visayas	2027	7	30	4	67	150	150	20
Visayas	2027	7	30	5	67	150	150	20
Visayas	2027	7	30	6	71	150	150	20
Visayas	2027	7	30	7	71	150	150	20
Visayas	2027	7	30	8	86	150	150	20
Visayas	2027	7	30	9	103	150	150	20
Visayas	2027	7	30	10	111	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	7	30	11	117	150	150	20
Visayas	2027	7	30	12	114	150	150	20
Visayas	2027	7	30	13	111	150	150	20
Visayas	2027	7	30	14	118	150	150	20
Visayas	2027	7	30	15	119	150	150	20
Visayas	2027	7	30	16	113	150	150	20
Visayas	2027	7	30	17	108	150	150	20
Visayas	2027	7	30	18	107	150	150	20
Visayas	2027	7	30	19	112	150	150	20
Visayas	2027	7	30	20	107	150	150	20
Visayas	2027	7	30	21	103	150	150	20
Visayas	2027	7	30	22	97	150	150	20
Visayas	2027	7	30	23	90	150	150	20
Visayas	2027	7	30	24	83	150	150	20
Visayas	2027	7	31	1	80	150	150	20
Visayas	2027	7	31	2	77	150	150	20
Visayas	2027	7	31	3	71	150	150	20
Visayas	2027	7	31	4	68	150	150	20
Visayas	2027	7	31	5	69	150	150	20
Visayas	2027	7	31	6	71	150	150	20
Visayas	2027	7	31	7	69	150	150	20
Visayas	2027	7	31	8	79	150	150	20
Visayas	2027	7	31	9	90	150	150	20
Visayas	2027	7	31	10	96	150	150	20
Visayas	2027	7	31	11	99	150	150	20
Visayas	2027	7	31	12	97	150	150	20
Visayas	2027	7	31	13	96	150	150	20
Visayas	2027	7	31	14	100	150	150	20
Visayas	2027	7	31	15	98	150	150	20
Visayas	2027	7	31	16	96	150	150	20
Visayas	2027	7	31	17	94	150	150	20
Visayas	2027	7	31	18	100	150	150	20
Visayas	2027	7	31	19	104	150	150	20
Visayas	2027	7	31	20	100	150	150	20
Visayas	2027	7	31	21	95	150	150	20
Visayas	2027	7	31	22	90	150	150	20
Visayas	2027	7	31	23	86	150	150	20
Visayas	2027	7	31	24	80	150	150	20
Visayas	2027	8	1	1	74	150	150	20
Visayas	2027	8	1	2	71	150	150	20
Visayas	2027	8	1	3	68	150	150	20
Visayas	2027	8	1	4	67	150	150	20
Visayas	2027	8	1	5	66	150	150	20
Visayas	2027	8	1	6	66	150	150	20
Visayas	2027	8	1	7	63	150	150	20
Visayas	2027	8	1	8	67	150	150	20
Visayas	2027	8	1	9	75	150	150	20
Visayas	2027	8	1	10	82	150	150	20
Visayas	2027	8	1	11	85	150	150	20
Visayas	2027	8	1	12	86	150	150	20
Visayas	2027	8	1	13	86	150	150	20
Visayas	2027	8	1	14	87	150	150	20
Visayas	2027	8	1	15	88	150	150	20
Visayas	2027	8	1	16	88	150	150	20
Visayas	2027	8	1	17	89	150	150	20
Visayas	2027	8	1	18	97	150	150	20
Visayas	2027	8	1	19	105	150	150	20
Visayas	2027	8	1	20	102	150	150	20
Visayas	2027	8	1	21	99	150	150	20
Visayas	2027	8	1	22	93	150	150	20
Visayas	2027	8	1	23	84	150	150	20
Visayas	2027	8	1	24	79	150	150	20
Visayas	2027	8	2	1	75	150	150	20
Visayas	2027	8	2	2	72	150	150	20
Visayas	2027	8	2	3	68	150	150	20
Visayas	2027	8	2	4	67	150	150	20
Visayas	2027	8	2	5	68	150	150	20
Visayas	2027	8	2	6	71	150	150	20
Visayas	2027	8	2	7	74	150	150	20
Visayas	2027	8	2	8	90	150	150	20
Visayas	2027	8	2	9	109	150	150	20
Visayas	2027	8	2	10	120	150	150	20
Visayas	2027	8	2	11	127	150	150	20
Visayas	2027	8	2	12	126	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	2	13	128	150	150	20
Visayas	2027	8	2	14	133	150	150	20
Visayas	2027	8	2	15	135	150	150	20
Visayas	2027	8	2	16	130	150	150	20
Visayas	2027	8	2	17	119	150	150	20
Visayas	2027	8	2	18	113	150	150	20
Visayas	2027	8	2	19	124	150	150	20
Visayas	2027	8	2	20	117	150	150	20
Visayas	2027	8	2	21	112	150	150	20
Visayas	2027	8	2	22	104	150	150	20
Visayas	2027	8	2	23	97	150	150	20
Visayas	2027	8	2	24	90	150	150	20
Visayas	2027	8	3	1	84	150	150	20
Visayas	2027	8	3	2	79	150	150	20
Visayas	2027	8	3	3	76	150	150	20
Visayas	2027	8	3	4	74	150	150	20
Visayas	2027	8	3	5	74	150	150	20
Visayas	2027	8	3	6	77	150	150	20
Visayas	2027	8	3	7	79	150	150	20
Visayas	2027	8	3	8	95	150	150	20
Visayas	2027	8	3	9	115	150	150	20
Visayas	2027	8	3	10	122	150	150	20
Visayas	2027	8	3	11	128	150	150	20
Visayas	2027	8	3	12	122	150	150	20
Visayas	2027	8	3	13	126	150	150	20
Visayas	2027	8	3	14	134	150	150	20
Visayas	2027	8	3	15	132	150	150	20
Visayas	2027	8	3	16	130	150	150	20
Visayas	2027	8	3	17	120	150	150	20
Visayas	2027	8	3	18	116	150	150	20
Visayas	2027	8	3	19	123	150	150	20
Visayas	2027	8	3	20	118	150	150	20
Visayas	2027	8	3	21	114	150	150	20
Visayas	2027	8	3	22	105	150	150	20
Visayas	2027	8	3	23	99	150	150	20
Visayas	2027	8	3	24	92	150	150	20
Visayas	2027	8	4	1	88	150	150	20
Visayas	2027	8	4	2	82	150	150	20
Visayas	2027	8	4	3	78	150	150	20
Visayas	2027	8	4	4	76	150	150	20
Visayas	2027	8	4	5	76	150	150	20
Visayas	2027	8	4	6	80	150	150	20
Visayas	2027	8	4	7	81	150	150	20
Visayas	2027	8	4	8	96	150	150	20
Visayas	2027	8	4	9	115	150	150	20
Visayas	2027	8	4	10	125	150	150	20
Visayas	2027	8	4	11	129	150	150	20
Visayas	2027	8	4	12	127	150	150	20
Visayas	2027	8	4	13	125	150	150	20
Visayas	2027	8	4	14	133	150	150	20
Visayas	2027	8	4	15	134	150	150	20
Visayas	2027	8	4	16	132	150	150	20
Visayas	2027	8	4	17	121	150	150	20
Visayas	2027	8	4	18	115	150	150	20
Visayas	2027	8	4	19	126	150	150	20
Visayas	2027	8	4	20	119	150	150	20
Visayas	2027	8	4	21	115	150	150	20
Visayas	2027	8	4	22	107	150	150	20
Visayas	2027	8	4	23	100	150	150	20
Visayas	2027	8	4	24	93	150	150	20
Visayas	2027	8	5	1	88	150	150	20
Visayas	2027	8	5	2	84	150	150	20
Visayas	2027	8	5	3	80	150	150	20
Visayas	2027	8	5	4	78	150	150	20
Visayas	2027	8	5	5	78	150	150	20
Visayas	2027	8	5	6	81	150	150	20
Visayas	2027	8	5	7	81	150	150	20
Visayas	2027	8	5	8	96	150	150	20
Visayas	2027	8	5	9	117	150	150	20
Visayas	2027	8	5	10	124	150	150	20
Visayas	2027	8	5	11	131	150	150	20
Visayas	2027	8	5	12	127	150	150	20
Visayas	2027	8	5	13	127	150	150	20
Visayas	2027	8	5	14	134	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	5	15	134	150	150	20
Visayas	2027	8	5	16	132	150	150	20
Visayas	2027	8	5	17	119	150	150	20
Visayas	2027	8	5	18	116	150	150	20
Visayas	2027	8	5	19	124	150	150	20
Visayas	2027	8	5	20	119	150	150	20
Visayas	2027	8	5	21	116	150	150	20
Visayas	2027	8	5	22	107	150	150	20
Visayas	2027	8	5	23	100	150	150	20
Visayas	2027	8	5	24	94	150	150	20
Visayas	2027	8	6	1	88	150	150	20
Visayas	2027	8	6	2	83	150	150	20
Visayas	2027	8	6	3	80	150	150	20
Visayas	2027	8	6	4	78	150	150	20
Visayas	2027	8	6	5	78	150	150	20
Visayas	2027	8	6	6	79	150	150	20
Visayas	2027	8	6	7	80	150	150	20
Visayas	2027	8	6	8	98	150	150	20
Visayas	2027	8	6	9	116	150	150	20
Visayas	2027	8	6	10	126	150	150	20
Visayas	2027	8	6	11	131	150	150	20
Visayas	2027	8	6	12	131	150	150	20
Visayas	2027	8	6	13	131	150	150	20
Visayas	2027	8	6	14	137	150	150	20
Visayas	2027	8	6	15	136	150	150	20
Visayas	2027	8	6	16	134	150	150	20
Visayas	2027	8	6	17	122	150	150	20
Visayas	2027	8	6	18	115	150	150	20
Visayas	2027	8	6	19	126	150	150	20
Visayas	2027	8	6	20	119	150	150	20
Visayas	2027	8	6	21	116	150	150	20
Visayas	2027	8	6	22	109	150	150	20
Visayas	2027	8	6	23	102	150	150	20
Visayas	2027	8	6	24	94	150	150	20
Visayas	2027	8	7	1	89	150	150	20
Visayas	2027	8	7	2	85	150	150	20
Visayas	2027	8	7	3	80	150	150	20
Visayas	2027	8	7	4	77	150	150	20
Visayas	2027	8	7	5	73	150	150	20
Visayas	2027	8	7	6	74	150	150	20
Visayas	2027	8	7	7	74	150	150	20
Visayas	2027	8	7	8	84	150	150	20
Visayas	2027	8	7	9	95	150	150	20
Visayas	2027	8	7	10	104	150	150	20
Visayas	2027	8	7	11	108	150	150	20
Visayas	2027	8	7	12	108	150	150	20
Visayas	2027	8	7	13	109	150	150	20
Visayas	2027	8	7	14	115	150	150	20
Visayas	2027	8	7	15	115	150	150	20
Visayas	2027	8	7	16	114	150	150	20
Visayas	2027	8	7	17	108	150	150	20
Visayas	2027	8	7	18	108	150	150	20
Visayas	2027	8	7	19	118	150	150	20
Visayas	2027	8	7	20	113	150	150	20
Visayas	2027	8	7	21	110	150	150	20
Visayas	2027	8	7	22	105	150	150	20
Visayas	2027	8	7	23	98	150	150	20
Visayas	2027	8	7	24	92	150	150	20
Visayas	2027	8	8	1	87	150	150	20
Visayas	2027	8	8	2	82	150	150	20
Visayas	2027	8	8	3	78	150	150	20
Visayas	2027	8	8	4	75	150	150	20
Visayas	2027	8	8	5	74	150	150	20
Visayas	2027	8	8	6	71	150	150	20
Visayas	2027	8	8	7	71	150	150	20
Visayas	2027	8	8	8	78	150	150	20
Visayas	2027	8	8	9	84	150	150	20
Visayas	2027	8	8	10	92	150	150	20
Visayas	2027	8	8	11	95	150	150	20
Visayas	2027	8	8	12	96	150	150	20
Visayas	2027	8	8	13	97	150	150	20
Visayas	2027	8	8	14	102	150	150	20
Visayas	2027	8	8	15	101	150	150	20
Visayas	2027	8	8	16	99	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	8	17	98	150	150	20
Visayas	2027	8	8	18	100	150	150	20
Visayas	2027	8	8	19	114	150	150	20
Visayas	2027	8	8	20	111	150	150	20
Visayas	2027	8	8	21	108	150	150	20
Visayas	2027	8	8	22	105	150	150	20
Visayas	2027	8	8	23	98	150	150	20
Visayas	2027	8	8	24	90	150	150	20
Visayas	2027	8	9	1	85	150	150	20
Visayas	2027	8	9	2	81	150	150	20
Visayas	2027	8	9	3	77	150	150	20
Visayas	2027	8	9	4	74	150	150	20
Visayas	2027	8	9	5	75	150	150	20
Visayas	2027	8	9	6	77	150	150	20
Visayas	2027	8	9	7	79	150	150	20
Visayas	2027	8	9	8	95	150	150	20
Visayas	2027	8	9	9	116	150	150	20
Visayas	2027	8	9	10	128	150	150	20
Visayas	2027	8	9	11	133	150	150	20
Visayas	2027	8	9	12	129	150	150	20
Visayas	2027	8	9	13	131	150	150	20
Visayas	2027	8	9	14	138	150	150	20
Visayas	2027	8	9	15	138	150	150	20
Visayas	2027	8	9	16	136	150	150	20
Visayas	2027	8	9	17	127	150	150	20
Visayas	2027	8	9	18	119	150	150	20
Visayas	2027	8	9	19	129	150	150	20
Visayas	2027	8	9	20	124	150	150	20
Visayas	2027	8	9	21	121	150	150	20
Visayas	2027	8	9	22	110	150	150	20
Visayas	2027	8	9	23	105	150	150	20
Visayas	2027	8	9	24	98	150	150	20
Visayas	2027	8	10	1	92	150	150	20
Visayas	2027	8	10	2	88	150	150	20
Visayas	2027	8	10	3	84	150	150	20
Visayas	2027	8	10	4	82	150	150	20
Visayas	2027	8	10	5	82	150	150	20
Visayas	2027	8	10	6	83	150	150	20
Visayas	2027	8	10	7	84	150	150	20
Visayas	2027	8	10	8	102	150	150	20
Visayas	2027	8	10	9	124	150	150	20
Visayas	2027	8	10	10	131	150	150	20
Visayas	2027	8	10	11	136	150	150	20
Visayas	2027	8	10	12	133	150	150	20
Visayas	2027	8	10	13	135	150	150	20
Visayas	2027	8	10	14	141	150	150	20
Visayas	2027	8	10	15	140	150	150	20
Visayas	2027	8	10	16	139	150	150	20
Visayas	2027	8	10	17	127	150	150	20
Visayas	2027	8	10	18	119	150	150	20
Visayas	2027	8	10	19	130	150	150	20
Visayas	2027	8	10	20	125	150	150	20
Visayas	2027	8	10	21	118	150	150	20
Visayas	2027	8	10	22	113	150	150	20
Visayas	2027	8	10	23	106	150	150	20
Visayas	2027	8	10	24	98	150	150	20
Visayas	2027	8	11	1	93	150	150	20
Visayas	2027	8	11	2	88	150	150	20
Visayas	2027	8	11	3	86	150	150	20
Visayas	2027	8	11	4	84	150	150	20
Visayas	2027	8	11	5	83	150	150	20
Visayas	2027	8	11	6	85	150	150	20
Visayas	2027	8	11	7	86	150	150	20
Visayas	2027	8	11	8	104	150	150	20
Visayas	2027	8	11	9	124	150	150	20
Visayas	2027	8	11	10	132	150	150	20
Visayas	2027	8	11	11	136	150	150	20
Visayas	2027	8	11	12	132	150	150	20
Visayas	2027	8	11	13	133	150	150	20
Visayas	2027	8	11	14	139	150	150	20
Visayas	2027	8	11	15	138	150	150	20
Visayas	2027	8	11	16	136	150	150	20
Visayas	2027	8	11	17	125	150	150	20
Visayas	2027	8	11	18	120	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	11	19	129	150	150	20
Visayas	2027	8	11	20	124	150	150	20
Visayas	2027	8	11	21	119	150	150	20
Visayas	2027	8	11	22	111	150	150	20
Visayas	2027	8	11	23	104	150	150	20
Visayas	2027	8	11	24	97	150	150	20
Visayas	2027	8	12	1	92	150	150	20
Visayas	2027	8	12	2	88	150	150	20
Visayas	2027	8	12	3	84	150	150	20
Visayas	2027	8	12	4	82	150	150	20
Visayas	2027	8	12	5	81	150	150	20
Visayas	2027	8	12	6	84	150	150	20
Visayas	2027	8	12	7	85	150	150	20
Visayas	2027	8	12	8	101	150	150	20
Visayas	2027	8	12	9	122	150	150	20
Visayas	2027	8	12	10	131	150	150	20
Visayas	2027	8	12	11	135	150	150	20
Visayas	2027	8	12	12	130	150	150	20
Visayas	2027	8	12	13	130	150	150	20
Visayas	2027	8	12	14	133	150	150	20
Visayas	2027	8	12	15	132	150	150	20
Visayas	2027	8	12	16	130	150	150	20
Visayas	2027	8	12	17	121	150	150	20
Visayas	2027	8	12	18	120	150	150	20
Visayas	2027	8	12	19	126	150	150	20
Visayas	2027	8	12	20	121	150	150	20
Visayas	2027	8	12	21	117	150	150	20
Visayas	2027	8	12	22	108	150	150	20
Visayas	2027	8	12	23	102	150	150	20
Visayas	2027	8	12	24	96	150	150	20
Visayas	2027	8	13	1	89	150	150	20
Visayas	2027	8	13	2	85	150	150	20
Visayas	2027	8	13	3	82	150	150	20
Visayas	2027	8	13	4	80	150	150	20
Visayas	2027	8	13	5	81	150	150	20
Visayas	2027	8	13	6	82	150	150	20
Visayas	2027	8	13	7	82	150	150	20
Visayas	2027	8	13	8	98	150	150	20
Visayas	2027	8	13	9	118	150	150	20
Visayas	2027	8	13	10	128	150	150	20
Visayas	2027	8	13	11	131	150	150	20
Visayas	2027	8	13	12	128	150	150	20
Visayas	2027	8	13	13	128	150	150	20
Visayas	2027	8	13	14	134	150	150	20
Visayas	2027	8	13	15	132	150	150	20
Visayas	2027	8	13	16	129	150	150	20
Visayas	2027	8	13	17	120	150	150	20
Visayas	2027	8	13	18	116	150	150	20
Visayas	2027	8	13	19	119	150	150	20
Visayas	2027	8	13	20	115	150	150	20
Visayas	2027	8	13	21	112	150	150	20
Visayas	2027	8	13	22	106	150	150	20
Visayas	2027	8	13	23	98	150	150	20
Visayas	2027	8	13	24	93	150	150	20
Visayas	2027	8	14	1	88	150	150	20
Visayas	2027	8	14	2	83	150	150	20
Visayas	2027	8	14	3	79	150	150	20
Visayas	2027	8	14	4	77	150	150	20
Visayas	2027	8	14	5	76	150	150	20
Visayas	2027	8	14	6	76	150	150	20
Visayas	2027	8	14	7	74	150	150	20
Visayas	2027	8	14	8	84	150	150	20
Visayas	2027	8	14	9	99	150	150	20
Visayas	2027	8	14	10	105	150	150	20
Visayas	2027	8	14	11	110	150	150	20
Visayas	2027	8	14	12	106	150	150	20
Visayas	2027	8	14	13	108	150	150	20
Visayas	2027	8	14	14	107	150	150	20
Visayas	2027	8	14	15	104	150	150	20
Visayas	2027	8	14	16	101	150	150	20
Visayas	2027	8	14	17	101	150	150	20
Visayas	2027	8	14	18	105	150	150	20
Visayas	2027	8	14	19	111	150	150	20
Visayas	2027	8	14	20	108	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	14	21	106	150	150	20
Visayas	2027	8	14	22	98	150	150	20
Visayas	2027	8	14	23	93	150	150	20
Visayas	2027	8	14	24	87	150	150	20
Visayas	2027	8	15	1	83	150	150	20
Visayas	2027	8	15	2	78	150	150	20
Visayas	2027	8	15	3	75	150	150	20
Visayas	2027	8	15	4	73	150	150	20
Visayas	2027	8	15	5	72	150	150	20
Visayas	2027	8	15	6	68	150	150	20
Visayas	2027	8	15	7	67	150	150	20
Visayas	2027	8	15	8	72	150	150	20
Visayas	2027	8	15	9	82	150	150	20
Visayas	2027	8	15	10	88	150	150	20
Visayas	2027	8	15	11	93	150	150	20
Visayas	2027	8	15	12	94	150	150	20
Visayas	2027	8	15	13	93	150	150	20
Visayas	2027	8	15	14	97	150	150	20
Visayas	2027	8	15	15	95	150	150	20
Visayas	2027	8	15	16	91	150	150	20
Visayas	2027	8	15	17	91	150	150	20
Visayas	2027	8	15	18	98	150	150	20
Visayas	2027	8	15	19	105	150	150	20
Visayas	2027	8	15	20	101	150	150	20
Visayas	2027	8	15	21	98	150	150	20
Visayas	2027	8	15	22	92	150	150	20
Visayas	2027	8	15	23	87	150	150	20
Visayas	2027	8	15	24	82	150	150	20
Visayas	2027	8	16	1	77	150	150	20
Visayas	2027	8	16	2	72	150	150	20
Visayas	2027	8	16	3	70	150	150	20
Visayas	2027	8	16	4	68	150	150	20
Visayas	2027	8	16	5	70	150	150	20
Visayas	2027	8	16	6	73	150	150	20
Visayas	2027	8	16	7	74	150	150	20
Visayas	2027	8	16	8	90	150	150	20
Visayas	2027	8	16	9	111	150	150	20
Visayas	2027	8	16	10	121	150	150	20
Visayas	2027	8	16	11	126	150	150	20
Visayas	2027	8	16	12	123	150	150	20
Visayas	2027	8	16	13	124	150	150	20
Visayas	2027	8	16	14	130	150	150	20
Visayas	2027	8	16	15	127	150	150	20
Visayas	2027	8	16	16	124	150	150	20
Visayas	2027	8	16	17	114	150	150	20
Visayas	2027	8	16	18	105	150	150	20
Visayas	2027	8	16	19	115	150	150	20
Visayas	2027	8	16	20	111	150	150	20
Visayas	2027	8	16	21	107	150	150	20
Visayas	2027	8	16	22	100	150	150	20
Visayas	2027	8	16	23	92	150	150	20
Visayas	2027	8	16	24	86	150	150	20
Visayas	2027	8	17	1	81	150	150	20
Visayas	2027	8	17	2	78	150	150	20
Visayas	2027	8	17	3	74	150	150	20
Visayas	2027	8	17	4	72	150	150	20
Visayas	2027	8	17	5	74	150	150	20
Visayas	2027	8	17	6	77	150	150	20
Visayas	2027	8	17	7	77	150	150	20
Visayas	2027	8	17	8	93	150	150	20
Visayas	2027	8	17	9	113	150	150	20
Visayas	2027	8	17	10	123	150	150	20
Visayas	2027	8	17	11	129	150	150	20
Visayas	2027	8	17	12	127	150	150	20
Visayas	2027	8	17	13	124	150	150	20
Visayas	2027	8	17	14	130	150	150	20
Visayas	2027	8	17	15	129	150	150	20
Visayas	2027	8	17	16	125	150	150	20
Visayas	2027	8	17	17	113	150	150	20
Visayas	2027	8	17	18	111	150	150	20
Visayas	2027	8	17	19	116	150	150	20
Visayas	2027	8	17	20	111	150	150	20
Visayas	2027	8	17	21	106	150	150	20
Visayas	2027	8	17	22	99	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	17	23	92	150	150	20
Visayas	2027	8	17	24	87	150	150	20
Visayas	2027	8	18	1	83	150	150	20
Visayas	2027	8	18	2	78	150	150	20
Visayas	2027	8	18	3	74	150	150	20
Visayas	2027	8	18	4	72	150	150	20
Visayas	2027	8	18	5	73	150	150	20
Visayas	2027	8	18	6	77	150	150	20
Visayas	2027	8	18	7	77	150	150	20
Visayas	2027	8	18	8	94	150	150	20
Visayas	2027	8	18	9	112	150	150	20
Visayas	2027	8	18	10	121	150	150	20
Visayas	2027	8	18	11	125	150	150	20
Visayas	2027	8	18	12	125	150	150	20
Visayas	2027	8	18	13	125	150	150	20
Visayas	2027	8	18	14	129	150	150	20
Visayas	2027	8	18	15	125	150	150	20
Visayas	2027	8	18	16	121	150	150	20
Visayas	2027	8	18	17	114	150	150	20
Visayas	2027	8	18	18	112	150	150	20
Visayas	2027	8	18	19	116	150	150	20
Visayas	2027	8	18	20	110	150	150	20
Visayas	2027	8	18	21	105	150	150	20
Visayas	2027	8	18	22	97	150	150	20
Visayas	2027	8	18	23	89	150	150	20
Visayas	2027	8	18	24	84	150	150	20
Visayas	2027	8	19	1	80	150	150	20
Visayas	2027	8	19	2	75	150	150	20
Visayas	2027	8	19	3	73	150	150	20
Visayas	2027	8	19	4	72	150	150	20
Visayas	2027	8	19	5	73	150	150	20
Visayas	2027	8	19	6	76	150	150	20
Visayas	2027	8	19	7	76	150	150	20
Visayas	2027	8	19	8	91	150	150	20
Visayas	2027	8	19	9	112	150	150	20
Visayas	2027	8	19	10	119	150	150	20
Visayas	2027	8	19	11	128	150	150	20
Visayas	2027	8	19	12	121	150	150	20
Visayas	2027	8	19	13	121	150	150	20
Visayas	2027	8	19	14	129	150	150	20
Visayas	2027	8	19	15	128	150	150	20
Visayas	2027	8	19	16	123	150	150	20
Visayas	2027	8	19	17	114	150	150	20
Visayas	2027	8	19	18	110	150	150	20
Visayas	2027	8	19	19	118	150	150	20
Visayas	2027	8	19	20	111	150	150	20
Visayas	2027	8	19	21	110	150	150	20
Visayas	2027	8	19	22	99	150	150	20
Visayas	2027	8	19	23	92	150	150	20
Visayas	2027	8	19	24	85	150	150	20
Visayas	2027	8	20	1	81	150	150	20
Visayas	2027	8	20	2	76	150	150	20
Visayas	2027	8	20	3	73	150	150	20
Visayas	2027	8	20	4	71	150	150	20
Visayas	2027	8	20	5	72	150	150	20
Visayas	2027	8	20	6	75	150	150	20
Visayas	2027	8	20	7	76	150	150	20
Visayas	2027	8	20	8	91	150	150	20
Visayas	2027	8	20	9	110	150	150	20
Visayas	2027	8	20	10	119	150	150	20
Visayas	2027	8	20	11	125	150	150	20
Visayas	2027	8	20	12	120	150	150	20
Visayas	2027	8	20	13	123	150	150	20
Visayas	2027	8	20	14	129	150	150	20
Visayas	2027	8	20	15	129	150	150	20
Visayas	2027	8	20	16	126	150	150	20
Visayas	2027	8	20	17	116	150	150	20
Visayas	2027	8	20	18	112	150	150	20
Visayas	2027	8	20	19	119	150	150	20
Visayas	2027	8	20	20	114	150	150	20
Visayas	2027	8	20	21	111	150	150	20
Visayas	2027	8	20	22	103	150	150	20
Visayas	2027	8	20	23	97	150	150	20
Visayas	2027	8	20	24	90	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	21	1	77	150	150	20
Visayas	2027	8	21	2	73	150	150	20
Visayas	2027	8	21	3	70	150	150	20
Visayas	2027	8	21	4	68	150	150	20
Visayas	2027	8	21	5	68	150	150	20
Visayas	2027	8	21	6	69	150	150	20
Visayas	2027	8	21	7	69	150	150	20
Visayas	2027	8	21	8	78	150	150	20
Visayas	2027	8	21	9	91	150	150	20
Visayas	2027	8	21	10	98	150	150	20
Visayas	2027	8	21	11	103	150	150	20
Visayas	2027	8	21	12	100	150	150	20
Visayas	2027	8	21	13	103	150	150	20
Visayas	2027	8	21	14	103	150	150	20
Visayas	2027	8	21	15	107	150	150	20
Visayas	2027	8	21	16	104	150	150	20
Visayas	2027	8	21	17	100	150	150	20
Visayas	2027	8	21	18	102	150	150	20
Visayas	2027	8	21	19	104	150	150	20
Visayas	2027	8	21	20	101	150	150	20
Visayas	2027	8	21	21	97	150	150	20
Visayas	2027	8	21	22	94	150	150	20
Visayas	2027	8	21	23	87	150	150	20
Visayas	2027	8	21	24	83	150	150	20
Visayas	2027	8	22	1	78	150	150	20
Visayas	2027	8	22	2	75	150	150	20
Visayas	2027	8	22	3	71	150	150	20
Visayas	2027	8	22	4	68	150	150	20
Visayas	2027	8	22	5	67	150	150	20
Visayas	2027	8	22	6	67	150	150	20
Visayas	2027	8	22	7	65	150	150	20
Visayas	2027	8	22	8	71	150	150	20
Visayas	2027	8	22	9	78	150	150	20
Visayas	2027	8	22	10	84	150	150	20
Visayas	2027	8	22	11	90	150	150	20
Visayas	2027	8	22	12	91	150	150	20
Visayas	2027	8	22	13	91	150	150	20
Visayas	2027	8	22	14	94	150	150	20
Visayas	2027	8	22	15	95	150	150	20
Visayas	2027	8	22	16	88	150	150	20
Visayas	2027	8	22	17	88	150	150	20
Visayas	2027	8	22	18	95	150	150	20
Visayas	2027	8	22	19	106	150	150	20
Visayas	2027	8	22	20	102	150	150	20
Visayas	2027	8	22	21	101	150	150	20
Visayas	2027	8	22	22	94	150	150	20
Visayas	2027	8	22	23	89	150	150	20
Visayas	2027	8	22	24	83	150	150	20
Visayas	2027	8	23	1	77	150	150	20
Visayas	2027	8	23	2	72	150	150	20
Visayas	2027	8	23	3	70	150	150	20
Visayas	2027	8	23	4	68	150	150	20
Visayas	2027	8	23	5	70	150	150	20
Visayas	2027	8	23	6	73	150	150	20
Visayas	2027	8	23	7	74	150	150	20
Visayas	2027	8	23	8	90	150	150	20
Visayas	2027	8	23	9	111	150	150	20
Visayas	2027	8	23	10	121	150	150	20
Visayas	2027	8	23	11	126	150	150	20
Visayas	2027	8	23	12	123	150	150	20
Visayas	2027	8	23	13	124	150	150	20
Visayas	2027	8	23	14	130	150	150	20
Visayas	2027	8	23	15	127	150	150	20
Visayas	2027	8	23	16	124	150	150	20
Visayas	2027	8	23	17	114	150	150	20
Visayas	2027	8	23	18	105	150	150	20
Visayas	2027	8	23	19	115	150	150	20
Visayas	2027	8	23	20	111	150	150	20
Visayas	2027	8	23	21	107	150	150	20
Visayas	2027	8	23	22	100	150	150	20
Visayas	2027	8	23	23	92	150	150	20
Visayas	2027	8	23	24	86	150	150	20
Visayas	2027	8	24	1	77	150	150	20
Visayas	2027	8	24	2	73	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	24	3	70	150	150	20
Visayas	2027	8	24	4	68	150	150	20
Visayas	2027	8	24	5	71	150	150	20
Visayas	2027	8	24	6	75	150	150	20
Visayas	2027	8	24	7	75	150	150	20
Visayas	2027	8	24	8	92	150	150	20
Visayas	2027	8	24	9	113	150	150	20
Visayas	2027	8	24	10	120	150	150	20
Visayas	2027	8	24	11	125	150	150	20
Visayas	2027	8	24	12	123	150	150	20
Visayas	2027	8	24	13	126	150	150	20
Visayas	2027	8	24	14	132	150	150	20
Visayas	2027	8	24	15	129	150	150	20
Visayas	2027	8	24	16	125	150	150	20
Visayas	2027	8	24	17	111	150	150	20
Visayas	2027	8	24	18	104	150	150	20
Visayas	2027	8	24	19	108	150	150	20
Visayas	2027	8	24	20	105	150	150	20
Visayas	2027	8	24	21	103	150	150	20
Visayas	2027	8	24	22	97	150	150	20
Visayas	2027	8	24	23	90	150	150	20
Visayas	2027	8	24	24	85	150	150	20
Visayas	2027	8	25	1	79	150	150	20
Visayas	2027	8	25	2	75	150	150	20
Visayas	2027	8	25	3	71	150	150	20
Visayas	2027	8	25	4	70	150	150	20
Visayas	2027	8	25	5	71	150	150	20
Visayas	2027	8	25	6	73	150	150	20
Visayas	2027	8	25	7	75	150	150	20
Visayas	2027	8	25	8	91	150	150	20
Visayas	2027	8	25	9	110	150	150	20
Visayas	2027	8	25	10	119	150	150	20
Visayas	2027	8	25	11	122	150	150	20
Visayas	2027	8	25	12	119	150	150	20
Visayas	2027	8	25	13	116	150	150	20
Visayas	2027	8	25	14	122	150	150	20
Visayas	2027	8	25	15	125	150	150	20
Visayas	2027	8	25	16	120	150	150	20
Visayas	2027	8	25	17	112	150	150	20
Visayas	2027	8	25	18	113	150	150	20
Visayas	2027	8	25	19	117	150	150	20
Visayas	2027	8	25	20	113	150	150	20
Visayas	2027	8	25	21	106	150	150	20
Visayas	2027	8	25	22	98	150	150	20
Visayas	2027	8	25	23	92	150	150	20
Visayas	2027	8	25	24	86	150	150	20
Visayas	2027	8	26	1	82	150	150	20
Visayas	2027	8	26	2	78	150	150	20
Visayas	2027	8	26	3	75	150	150	20
Visayas	2027	8	26	4	71	150	150	20
Visayas	2027	8	26	5	74	150	150	20
Visayas	2027	8	26	6	78	150	150	20
Visayas	2027	8	26	7	76	150	150	20
Visayas	2027	8	26	8	97	150	150	20
Visayas	2027	8	26	9	115	150	150	20
Visayas	2027	8	26	10	123	150	150	20
Visayas	2027	8	26	11	129	150	150	20
Visayas	2027	8	26	12	126	150	150	20
Visayas	2027	8	26	13	127	150	150	20
Visayas	2027	8	26	14	133	150	150	20
Visayas	2027	8	26	15	131	150	150	20
Visayas	2027	8	26	16	130	150	150	20
Visayas	2027	8	26	17	117	150	150	20
Visayas	2027	8	26	18	116	150	150	20
Visayas	2027	8	26	19	122	150	150	20
Visayas	2027	8	26	20	117	150	150	20
Visayas	2027	8	26	21	113	150	150	20
Visayas	2027	8	26	22	105	150	150	20
Visayas	2027	8	26	23	98	150	150	20
Visayas	2027	8	26	24	91	150	150	20
Visayas	2027	8	27	1	85	150	150	20
Visayas	2027	8	27	2	81	150	150	20
Visayas	2027	8	27	3	76	150	150	20
Visayas	2027	8	27	4	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	27	5	76	150	150	20
Visayas	2027	8	27	6	78	150	150	20
Visayas	2027	8	27	7	79	150	150	20
Visayas	2027	8	27	8	95	150	150	20
Visayas	2027	8	27	9	114	150	150	20
Visayas	2027	8	27	10	122	150	150	20
Visayas	2027	8	27	11	128	150	150	20
Visayas	2027	8	27	12	128	150	150	20
Visayas	2027	8	27	13	127	150	150	20
Visayas	2027	8	27	14	136	150	150	20
Visayas	2027	8	27	15	132	150	150	20
Visayas	2027	8	27	16	129	150	150	20
Visayas	2027	8	27	17	122	150	150	20
Visayas	2027	8	27	18	119	150	150	20
Visayas	2027	8	27	19	126	150	150	20
Visayas	2027	8	27	20	119	150	150	20
Visayas	2027	8	27	21	116	150	150	20
Visayas	2027	8	27	22	109	150	150	20
Visayas	2027	8	27	23	99	150	150	20
Visayas	2027	8	27	24	94	150	150	20
Visayas	2027	8	28	1	88	150	150	20
Visayas	2027	8	28	2	85	150	150	20
Visayas	2027	8	28	3	80	150	150	20
Visayas	2027	8	28	4	77	150	150	20
Visayas	2027	8	28	5	77	150	150	20
Visayas	2027	8	28	6	77	150	150	20
Visayas	2027	8	28	7	77	150	150	20
Visayas	2027	8	28	8	86	150	150	20
Visayas	2027	8	28	9	100	150	150	20
Visayas	2027	8	28	10	109	150	150	20
Visayas	2027	8	28	11	113	150	150	20
Visayas	2027	8	28	12	108	150	150	20
Visayas	2027	8	28	13	109	150	150	20
Visayas	2027	8	28	14	116	150	150	20
Visayas	2027	8	28	15	116	150	150	20
Visayas	2027	8	28	16	113	150	150	20
Visayas	2027	8	28	17	107	150	150	20
Visayas	2027	8	28	18	112	150	150	20
Visayas	2027	8	28	19	116	150	150	20
Visayas	2027	8	28	20	110	150	150	20
Visayas	2027	8	28	21	108	150	150	20
Visayas	2027	8	28	22	102	150	150	20
Visayas	2027	8	28	23	95	150	150	20
Visayas	2027	8	28	24	88	150	150	20
Visayas	2027	8	29	1	83	150	150	20
Visayas	2027	8	29	2	78	150	150	20
Visayas	2027	8	29	3	74	150	150	20
Visayas	2027	8	29	4	72	150	150	20
Visayas	2027	8	29	5	71	150	150	20
Visayas	2027	8	29	6	70	150	150	20
Visayas	2027	8	29	7	70	150	150	20
Visayas	2027	8	29	8	73	150	150	20
Visayas	2027	8	29	9	82	150	150	20
Visayas	2027	8	29	10	86	150	150	20
Visayas	2027	8	29	11	92	150	150	20
Visayas	2027	8	29	12	89	150	150	20
Visayas	2027	8	29	13	86	150	150	20
Visayas	2027	8	29	14	88	150	150	20
Visayas	2027	8	29	15	85	150	150	20
Visayas	2027	8	29	16	89	150	150	20
Visayas	2027	8	29	17	92	150	150	20
Visayas	2027	8	29	18	101	150	150	20
Visayas	2027	8	29	19	101	150	150	20
Visayas	2027	8	29	20	95	150	150	20
Visayas	2027	8	29	21	92	150	150	20
Visayas	2027	8	29	22	88	150	150	20
Visayas	2027	8	29	23	80	150	150	20
Visayas	2027	8	29	24	76	150	150	20
Visayas	2027	8	30	1	70	150	150	20
Visayas	2027	8	30	2	68	150	150	20
Visayas	2027	8	30	3	65	150	150	20
Visayas	2027	8	30	4	60	150	150	20
Visayas	2027	8	30	5	64	150	150	20
Visayas	2027	8	30	6	65	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	8	30	7	65	150	150	20
Visayas	2027	8	30	8	71	150	150	20
Visayas	2027	8	30	9	79	150	150	20
Visayas	2027	8	30	10	83	150	150	20
Visayas	2027	8	30	11	85	150	150	20
Visayas	2027	8	30	12	82	150	150	20
Visayas	2027	8	30	13	84	150	150	20
Visayas	2027	8	30	14	84	150	150	20
Visayas	2027	8	30	15	88	150	150	20
Visayas	2027	8	30	16	87	150	150	20
Visayas	2027	8	30	17	86	150	150	20
Visayas	2027	8	30	18	97	150	150	20
Visayas	2027	8	30	19	99	150	150	20
Visayas	2027	8	30	20	94	150	150	20
Visayas	2027	8	30	21	88	150	150	20
Visayas	2027	8	30	22	82	150	150	20
Visayas	2027	8	30	23	74	150	150	20
Visayas	2027	8	30	24	69	150	150	20
Visayas	2027	8	31	1	66	150	150	20
Visayas	2027	8	31	2	64	150	150	20
Visayas	2027	8	31	3	63	150	150	20
Visayas	2027	8	31	4	61	150	150	20
Visayas	2027	8	31	5	65	150	150	20
Visayas	2027	8	31	6	69	150	150	20
Visayas	2027	8	31	7	67	150	150	20
Visayas	2027	8	31	8	83	150	150	20
Visayas	2027	8	31	9	98	150	150	20
Visayas	2027	8	31	10	105	150	150	20
Visayas	2027	8	31	11	105	150	150	20
Visayas	2027	8	31	12	104	150	150	20
Visayas	2027	8	31	13	103	150	150	20
Visayas	2027	8	31	14	110	150	150	20
Visayas	2027	8	31	15	107	150	150	20
Visayas	2027	8	31	16	105	150	150	20
Visayas	2027	8	31	17	101	150	150	20
Visayas	2027	8	31	18	107	150	150	20
Visayas	2027	8	31	19	107	150	150	20
Visayas	2027	8	31	20	100	150	150	20
Visayas	2027	8	31	21	97	150	150	20
Visayas	2027	8	31	22	87	150	150	20
Visayas	2027	8	31	23	80	150	150	20
Visayas	2027	8	31	24	75	150	150	20
Visayas	2027	9	1	1	71	150	150	20
Visayas	2027	9	1	2	68	150	150	20
Visayas	2027	9	1	3	67	150	150	20
Visayas	2027	9	1	4	66	150	150	20
Visayas	2027	9	1	5	69	150	150	20
Visayas	2027	9	1	6	74	150	150	20
Visayas	2027	9	1	7	70	150	150	20
Visayas	2027	9	1	8	88	150	150	20
Visayas	2027	9	1	9	104	150	150	20
Visayas	2027	9	1	10	116	150	150	20
Visayas	2027	9	1	11	118	150	150	20
Visayas	2027	9	1	12	113	150	150	20
Visayas	2027	9	1	13	116	150	150	20
Visayas	2027	9	1	14	121	150	150	20
Visayas	2027	9	1	15	122	150	150	20
Visayas	2027	9	1	16	121	150	150	20
Visayas	2027	9	1	17	111	150	150	20
Visayas	2027	9	1	18	112	150	150	20
Visayas	2027	9	1	19	116	150	150	20
Visayas	2027	9	1	20	111	150	150	20
Visayas	2027	9	1	21	106	150	150	20
Visayas	2027	9	1	22	97	150	150	20
Visayas	2027	9	1	23	89	150	150	20
Visayas	2027	9	1	24	82	150	150	20
Visayas	2027	9	2	1	77	150	150	20
Visayas	2027	9	2	2	74	150	150	20
Visayas	2027	9	2	3	71	150	150	20
Visayas	2027	9	2	4	70	150	150	20
Visayas	2027	9	2	5	74	150	150	20
Visayas	2027	9	2	6	78	150	150	20
Visayas	2027	9	2	7	73	150	150	20
Visayas	2027	9	2	8	88	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	2	9	110	150	150	20
Visayas	2027	9	2	10	115	150	150	20
Visayas	2027	9	2	11	122	150	150	20
Visayas	2027	9	2	12	116	150	150	20
Visayas	2027	9	2	13	122	150	150	20
Visayas	2027	9	2	14	131	150	150	20
Visayas	2027	9	2	15	126	150	150	20
Visayas	2027	9	2	16	126	150	150	20
Visayas	2027	9	2	17	117	150	150	20
Visayas	2027	9	2	18	118	150	150	20
Visayas	2027	9	2	19	121	150	150	20
Visayas	2027	9	2	20	115	150	150	20
Visayas	2027	9	2	21	113	150	150	20
Visayas	2027	9	2	22	106	150	150	20
Visayas	2027	9	2	23	98	150	150	20
Visayas	2027	9	2	24	90	150	150	20
Visayas	2027	9	3	1	84	150	150	20
Visayas	2027	9	3	2	81	150	150	20
Visayas	2027	9	3	3	79	150	150	20
Visayas	2027	9	3	4	79	150	150	20
Visayas	2027	9	3	5	79	150	150	20
Visayas	2027	9	3	6	82	150	150	20
Visayas	2027	9	3	7	77	150	150	20
Visayas	2027	9	3	8	94	150	150	20
Visayas	2027	9	3	9	115	150	150	20
Visayas	2027	9	3	10	125	150	150	20
Visayas	2027	9	3	11	130	150	150	20
Visayas	2027	9	3	12	126	150	150	20
Visayas	2027	9	3	13	128	150	150	20
Visayas	2027	9	3	14	136	150	150	20
Visayas	2027	9	3	15	134	150	150	20
Visayas	2027	9	3	16	129	150	150	20
Visayas	2027	9	3	17	119	150	150	20
Visayas	2027	9	3	18	116	150	150	20
Visayas	2027	9	3	19	122	150	150	20
Visayas	2027	9	3	20	115	150	150	20
Visayas	2027	9	3	21	112	150	150	20
Visayas	2027	9	3	22	106	150	150	20
Visayas	2027	9	3	23	98	150	150	20
Visayas	2027	9	3	24	91	150	150	20
Visayas	2027	9	4	1	87	150	150	20
Visayas	2027	9	4	2	84	150	150	20
Visayas	2027	9	4	3	80	150	150	20
Visayas	2027	9	4	4	77	150	150	20
Visayas	2027	9	4	5	77	150	150	20
Visayas	2027	9	4	6	77	150	150	20
Visayas	2027	9	4	7	76	150	150	20
Visayas	2027	9	4	8	86	150	150	20
Visayas	2027	9	4	9	101	150	150	20
Visayas	2027	9	4	10	110	150	150	20
Visayas	2027	9	4	11	111	150	150	20
Visayas	2027	9	4	12	109	150	150	20
Visayas	2027	9	4	13	111	150	150	20
Visayas	2027	9	4	14	113	150	150	20
Visayas	2027	9	4	15	115	150	150	20
Visayas	2027	9	4	16	112	150	150	20
Visayas	2027	9	4	17	106	150	150	20
Visayas	2027	9	4	18	113	150	150	20
Visayas	2027	9	4	19	117	150	150	20
Visayas	2027	9	4	20	112	150	150	20
Visayas	2027	9	4	21	110	150	150	20
Visayas	2027	9	4	22	105	150	150	20
Visayas	2027	9	4	23	96	150	150	20
Visayas	2027	9	4	24	91	150	150	20
Visayas	2027	9	5	1	86	150	150	20
Visayas	2027	9	5	2	81	150	150	20
Visayas	2027	9	5	3	78	150	150	20
Visayas	2027	9	5	4	75	150	150	20
Visayas	2027	9	5	5	76	150	150	20
Visayas	2027	9	5	6	74	150	150	20
Visayas	2027	9	5	7	71	150	150	20
Visayas	2027	9	5	8	77	150	150	20
Visayas	2027	9	5	9	82	150	150	20
Visayas	2027	9	5	10	93	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	5	11	93	150	150	20
Visayas	2027	9	5	12	95	150	150	20
Visayas	2027	9	5	13	97	150	150	20
Visayas	2027	9	5	14	99	150	150	20
Visayas	2027	9	5	15	101	150	150	20
Visayas	2027	9	5	16	98	150	150	20
Visayas	2027	9	5	17	98	150	150	20
Visayas	2027	9	5	18	102	150	150	20
Visayas	2027	9	5	19	110	150	150	20
Visayas	2027	9	5	20	110	150	150	20
Visayas	2027	9	5	21	109	150	150	20
Visayas	2027	9	5	22	102	150	150	20
Visayas	2027	9	5	23	94	150	150	20
Visayas	2027	9	5	24	86	150	150	20
Visayas	2027	9	6	1	83	150	150	20
Visayas	2027	9	6	2	78	150	150	20
Visayas	2027	9	6	3	75	150	150	20
Visayas	2027	9	6	4	74	150	150	20
Visayas	2027	9	6	5	79	150	150	20
Visayas	2027	9	6	6	83	150	150	20
Visayas	2027	9	6	7	72	150	150	20
Visayas	2027	9	6	8	89	150	150	20
Visayas	2027	9	6	9	113	150	150	20
Visayas	2027	9	6	10	125	150	150	20
Visayas	2027	9	6	11	130	150	150	20
Visayas	2027	9	6	12	124	150	150	20
Visayas	2027	9	6	13	125	150	150	20
Visayas	2027	9	6	14	133	150	150	20
Visayas	2027	9	6	15	133	150	150	20
Visayas	2027	9	6	16	129	150	150	20
Visayas	2027	9	6	17	119	150	150	20
Visayas	2027	9	6	18	123	150	150	20
Visayas	2027	9	6	19	124	150	150	20
Visayas	2027	9	6	20	120	150	150	20
Visayas	2027	9	6	21	117	150	150	20
Visayas	2027	9	6	22	108	150	150	20
Visayas	2027	9	6	23	100	150	150	20
Visayas	2027	9	6	24	92	150	150	20
Visayas	2027	9	7	1	86	150	150	20
Visayas	2027	9	7	2	82	150	150	20
Visayas	2027	9	7	3	79	150	150	20
Visayas	2027	9	7	4	77	150	150	20
Visayas	2027	9	7	5	81	150	150	20
Visayas	2027	9	7	6	85	150	150	20
Visayas	2027	9	7	7	78	150	150	20
Visayas	2027	9	7	8	95	150	150	20
Visayas	2027	9	7	9	116	150	150	20
Visayas	2027	9	7	10	124	150	150	20
Visayas	2027	9	7	11	131	150	150	20
Visayas	2027	9	7	12	128	150	150	20
Visayas	2027	9	7	13	132	150	150	20
Visayas	2027	9	7	14	137	150	150	20
Visayas	2027	9	7	15	135	150	150	20
Visayas	2027	9	7	16	131	150	150	20
Visayas	2027	9	7	17	123	150	150	20
Visayas	2027	9	7	18	125	150	150	20
Visayas	2027	9	7	19	127	150	150	20
Visayas	2027	9	7	20	122	150	150	20
Visayas	2027	9	7	21	117	150	150	20
Visayas	2027	9	7	22	109	150	150	20
Visayas	2027	9	7	23	100	150	150	20
Visayas	2027	9	7	24	92	150	150	20
Visayas	2027	9	8	1	88	150	150	20
Visayas	2027	9	8	2	84	150	150	20
Visayas	2027	9	8	3	79	150	150	20
Visayas	2027	9	8	4	77	150	150	20
Visayas	2027	9	8	5	82	150	150	20
Visayas	2027	9	8	6	85	150	150	20
Visayas	2027	9	8	7	77	150	150	20
Visayas	2027	9	8	8	94	150	150	20
Visayas	2027	9	8	9	117	150	150	20
Visayas	2027	9	8	10	127	150	150	20
Visayas	2027	9	8	11	134	150	150	20
Visayas	2027	9	8	12	131	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	8	13	132	150	150	20
Visayas	2027	9	8	14	138	150	150	20
Visayas	2027	9	8	15	137	150	150	20
Visayas	2027	9	8	16	133	150	150	20
Visayas	2027	9	8	17	123	150	150	20
Visayas	2027	9	8	18	127	150	150	20
Visayas	2027	9	8	19	128	150	150	20
Visayas	2027	9	8	20	124	150	150	20
Visayas	2027	9	8	21	120	150	150	20
Visayas	2027	9	8	22	110	150	150	20
Visayas	2027	9	8	23	102	150	150	20
Visayas	2027	9	8	24	93	150	150	20
Visayas	2027	9	9	1	89	150	150	20
Visayas	2027	9	9	2	84	150	150	20
Visayas	2027	9	9	3	79	150	150	20
Visayas	2027	9	9	4	77	150	150	20
Visayas	2027	9	9	5	81	150	150	20
Visayas	2027	9	9	6	84	150	150	20
Visayas	2027	9	9	7	77	150	150	20
Visayas	2027	9	9	8	95	150	150	20
Visayas	2027	9	9	9	115	150	150	20
Visayas	2027	9	9	10	125	150	150	20
Visayas	2027	9	9	11	127	150	150	20
Visayas	2027	9	9	12	126	150	150	20
Visayas	2027	9	9	13	128	150	150	20
Visayas	2027	9	9	14	135	150	150	20
Visayas	2027	9	9	15	136	150	150	20
Visayas	2027	9	9	16	132	150	150	20
Visayas	2027	9	9	17	118	150	150	20
Visayas	2027	9	9	18	124	150	150	20
Visayas	2027	9	9	19	128	150	150	20
Visayas	2027	9	9	20	123	150	150	20
Visayas	2027	9	9	21	119	150	150	20
Visayas	2027	9	9	22	110	150	150	20
Visayas	2027	9	9	23	101	150	150	20
Visayas	2027	9	9	24	93	150	150	20
Visayas	2027	9	10	1	89	150	150	20
Visayas	2027	9	10	2	85	150	150	20
Visayas	2027	9	10	3	80	150	150	20
Visayas	2027	9	10	4	79	150	150	20
Visayas	2027	9	10	5	81	150	150	20
Visayas	2027	9	10	6	83	150	150	20
Visayas	2027	9	10	7	78	150	150	20
Visayas	2027	9	10	8	97	150	150	20
Visayas	2027	9	10	9	114	150	150	20
Visayas	2027	9	10	10	125	150	150	20
Visayas	2027	9	10	11	130	150	150	20
Visayas	2027	9	10	12	126	150	150	20
Visayas	2027	9	10	13	126	150	150	20
Visayas	2027	9	10	14	130	150	150	20
Visayas	2027	9	10	15	127	150	150	20
Visayas	2027	9	10	16	123	150	150	20
Visayas	2027	9	10	17	114	150	150	20
Visayas	2027	9	10	18	116	150	150	20
Visayas	2027	9	10	19	118	150	150	20
Visayas	2027	9	10	20	113	150	150	20
Visayas	2027	9	10	21	107	150	150	20
Visayas	2027	9	10	22	100	150	150	20
Visayas	2027	9	10	23	94	150	150	20
Visayas	2027	9	10	24	86	150	150	20
Visayas	2027	9	11	1	84	150	150	20
Visayas	2027	9	11	2	78	150	150	20
Visayas	2027	9	11	3	75	150	150	20
Visayas	2027	9	11	4	72	150	150	20
Visayas	2027	9	11	5	72	150	150	20
Visayas	2027	9	11	6	71	150	150	20
Visayas	2027	9	11	7	72	150	150	20
Visayas	2027	9	11	8	84	150	150	20
Visayas	2027	9	11	9	91	150	150	20
Visayas	2027	9	11	10	101	150	150	20
Visayas	2027	9	11	11	105	150	150	20
Visayas	2027	9	11	12	109	150	150	20
Visayas	2027	9	11	13	111	150	150	20
Visayas	2027	9	11	14	110	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	11	15	114	150	150	20
Visayas	2027	9	11	16	109	150	150	20
Visayas	2027	9	11	17	104	150	150	20
Visayas	2027	9	11	18	112	150	150	20
Visayas	2027	9	11	19	115	150	150	20
Visayas	2027	9	11	20	111	150	150	20
Visayas	2027	9	11	21	108	150	150	20
Visayas	2027	9	11	22	101	150	150	20
Visayas	2027	9	11	23	94	150	150	20
Visayas	2027	9	11	24	88	150	150	20
Visayas	2027	9	12	1	84	150	150	20
Visayas	2027	9	12	2	79	150	150	20
Visayas	2027	9	12	3	75	150	150	20
Visayas	2027	9	12	4	70	150	150	20
Visayas	2027	9	12	5	69	150	150	20
Visayas	2027	9	12	6	67	150	150	20
Visayas	2027	9	12	7	67	150	150	20
Visayas	2027	9	12	8	70	150	150	20
Visayas	2027	9	12	9	78	150	150	20
Visayas	2027	9	12	10	86	150	150	20
Visayas	2027	9	12	11	92	150	150	20
Visayas	2027	9	12	12	92	150	150	20
Visayas	2027	9	12	13	93	150	150	20
Visayas	2027	9	12	14	96	150	150	20
Visayas	2027	9	12	15	96	150	150	20
Visayas	2027	9	12	16	93	150	150	20
Visayas	2027	9	12	17	94	150	150	20
Visayas	2027	9	12	18	104	150	150	20
Visayas	2027	9	12	19	110	150	150	20
Visayas	2027	9	12	20	108	150	150	20
Visayas	2027	9	12	21	104	150	150	20
Visayas	2027	9	12	22	97	150	150	20
Visayas	2027	9	12	23	90	150	150	20
Visayas	2027	9	12	24	83	150	150	20
Visayas	2027	9	13	1	75	150	150	20
Visayas	2027	9	13	2	72	150	150	20
Visayas	2027	9	13	3	69	150	150	20
Visayas	2027	9	13	4	68	150	150	20
Visayas	2027	9	13	5	73	150	150	20
Visayas	2027	9	13	6	76	150	150	20
Visayas	2027	9	13	7	71	150	150	20
Visayas	2027	9	13	8	89	150	150	20
Visayas	2027	9	13	9	111	150	150	20
Visayas	2027	9	13	10	122	150	150	20
Visayas	2027	9	13	11	127	150	150	20
Visayas	2027	9	13	12	125	150	150	20
Visayas	2027	9	13	13	127	150	150	20
Visayas	2027	9	13	14	134	150	150	20
Visayas	2027	9	13	15	131	150	150	20
Visayas	2027	9	13	16	123	150	150	20
Visayas	2027	9	13	17	113	150	150	20
Visayas	2027	9	13	18	118	150	150	20
Visayas	2027	9	13	19	119	150	150	20
Visayas	2027	9	13	20	115	150	150	20
Visayas	2027	9	13	21	109	150	150	20
Visayas	2027	9	13	22	101	150	150	20
Visayas	2027	9	13	23	93	150	150	20
Visayas	2027	9	13	24	86	150	150	20
Visayas	2027	9	14	1	82	150	150	20
Visayas	2027	9	14	2	77	150	150	20
Visayas	2027	9	14	3	74	150	150	20
Visayas	2027	9	14	4	73	150	150	20
Visayas	2027	9	14	5	78	150	150	20
Visayas	2027	9	14	6	83	150	150	20
Visayas	2027	9	14	7	76	150	150	20
Visayas	2027	9	14	8	92	150	150	20
Visayas	2027	9	14	9	112	150	150	20
Visayas	2027	9	14	10	122	150	150	20
Visayas	2027	9	14	11	127	150	150	20
Visayas	2027	9	14	12	123	150	150	20
Visayas	2027	9	14	13	123	150	150	20
Visayas	2027	9	14	14	131	150	150	20
Visayas	2027	9	14	15	130	150	150	20
Visayas	2027	9	14	16	120	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	14	17	113	150	150	20
Visayas	2027	9	14	18	117	150	150	20
Visayas	2027	9	14	19	113	150	150	20
Visayas	2027	9	14	20	109	150	150	20
Visayas	2027	9	14	21	105	150	150	20
Visayas	2027	9	14	22	96	150	150	20
Visayas	2027	9	14	23	88	150	150	20
Visayas	2027	9	14	24	82	150	150	20
Visayas	2027	9	15	1	79	150	150	20
Visayas	2027	9	15	2	75	150	150	20
Visayas	2027	9	15	3	71	150	150	20
Visayas	2027	9	15	4	71	150	150	20
Visayas	2027	9	15	5	75	150	150	20
Visayas	2027	9	15	6	80	150	150	20
Visayas	2027	9	15	7	73	150	150	20
Visayas	2027	9	15	8	92	150	150	20
Visayas	2027	9	15	9	112	150	150	20
Visayas	2027	9	15	10	120	150	150	20
Visayas	2027	9	15	11	125	150	150	20
Visayas	2027	9	15	12	119	150	150	20
Visayas	2027	9	15	13	118	150	150	20
Visayas	2027	9	15	14	117	150	150	20
Visayas	2027	9	15	15	117	150	150	20
Visayas	2027	9	15	16	114	150	150	20
Visayas	2027	9	15	17	109	150	150	20
Visayas	2027	9	15	18	114	150	150	20
Visayas	2027	9	15	19	112	150	150	20
Visayas	2027	9	15	20	107	150	150	20
Visayas	2027	9	15	21	102	150	150	20
Visayas	2027	9	15	22	93	150	150	20
Visayas	2027	9	15	23	87	150	150	20
Visayas	2027	9	15	24	80	150	150	20
Visayas	2027	9	16	1	77	150	150	20
Visayas	2027	9	16	2	72	150	150	20
Visayas	2027	9	16	3	67	150	150	20
Visayas	2027	9	16	4	65	150	150	20
Visayas	2027	9	16	5	70	150	150	20
Visayas	2027	9	16	6	76	150	150	20
Visayas	2027	9	16	7	69	150	150	20
Visayas	2027	9	16	8	86	150	150	20
Visayas	2027	9	16	9	105	150	150	20
Visayas	2027	9	16	10	116	150	150	20
Visayas	2027	9	16	11	120	150	150	20
Visayas	2027	9	16	12	116	150	150	20
Visayas	2027	9	16	13	116	150	150	20
Visayas	2027	9	16	14	125	150	150	20
Visayas	2027	9	16	15	123	150	150	20
Visayas	2027	9	16	16	119	150	150	20
Visayas	2027	9	16	17	112	150	150	20
Visayas	2027	9	16	18	117	150	150	20
Visayas	2027	9	16	19	116	150	150	20
Visayas	2027	9	16	20	112	150	150	20
Visayas	2027	9	16	21	106	150	150	20
Visayas	2027	9	16	22	96	150	150	20
Visayas	2027	9	16	23	89	150	150	20
Visayas	2027	9	16	24	82	150	150	20
Visayas	2027	9	17	1	77	150	150	20
Visayas	2027	9	17	2	74	150	150	20
Visayas	2027	9	17	3	70	150	150	20
Visayas	2027	9	17	4	69	150	150	20
Visayas	2027	9	17	5	73	150	150	20
Visayas	2027	9	17	6	78	150	150	20
Visayas	2027	9	17	7	72	150	150	20
Visayas	2027	9	17	8	88	150	150	20
Visayas	2027	9	17	9	107	150	150	20
Visayas	2027	9	17	10	116	150	150	20
Visayas	2027	9	17	11	122	150	150	20
Visayas	2027	9	17	12	118	150	150	20
Visayas	2027	9	17	13	121	150	150	20
Visayas	2027	9	17	14	127	150	150	20
Visayas	2027	9	17	15	125	150	150	20
Visayas	2027	9	17	16	122	150	150	20
Visayas	2027	9	17	17	114	150	150	20
Visayas	2027	9	17	18	118	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	17	19	117	150	150	20
Visayas	2027	9	17	20	110	150	150	20
Visayas	2027	9	17	21	105	150	150	20
Visayas	2027	9	17	22	96	150	150	20
Visayas	2027	9	17	23	90	150	150	20
Visayas	2027	9	17	24	84	150	150	20
Visayas	2027	9	18	1	80	150	150	20
Visayas	2027	9	18	2	76	150	150	20
Visayas	2027	9	18	3	72	150	150	20
Visayas	2027	9	18	4	70	150	150	20
Visayas	2027	9	18	5	70	150	150	20
Visayas	2027	9	18	6	68	150	150	20
Visayas	2027	9	18	7	66	150	150	20
Visayas	2027	9	18	8	76	150	150	20
Visayas	2027	9	18	9	89	150	150	20
Visayas	2027	9	18	10	98	150	150	20
Visayas	2027	9	18	11	103	150	150	20
Visayas	2027	9	18	12	100	150	150	20
Visayas	2027	9	18	13	103	150	150	20
Visayas	2027	9	18	14	108	150	150	20
Visayas	2027	9	18	15	106	150	150	20
Visayas	2027	9	18	16	103	150	150	20
Visayas	2027	9	18	17	100	150	150	20
Visayas	2027	9	18	18	110	150	150	20
Visayas	2027	9	18	19	112	150	150	20
Visayas	2027	9	18	20	107	150	150	20
Visayas	2027	9	18	21	100	150	150	20
Visayas	2027	9	18	22	94	150	150	20
Visayas	2027	9	18	23	87	150	150	20
Visayas	2027	9	18	24	83	150	150	20
Visayas	2027	9	19	1	77	150	150	20
Visayas	2027	9	19	2	74	150	150	20
Visayas	2027	9	19	3	71	150	150	20
Visayas	2027	9	19	4	69	150	150	20
Visayas	2027	9	19	5	68	150	150	20
Visayas	2027	9	19	6	66	150	150	20
Visayas	2027	9	19	7	65	150	150	20
Visayas	2027	9	19	8	69	150	150	20
Visayas	2027	9	19	9	78	150	150	20
Visayas	2027	9	19	10	84	150	150	20
Visayas	2027	9	19	11	89	150	150	20
Visayas	2027	9	19	12	92	150	150	20
Visayas	2027	9	19	13	93	150	150	20
Visayas	2027	9	19	14	95	150	150	20
Visayas	2027	9	19	15	96	150	150	20
Visayas	2027	9	19	16	92	150	150	20
Visayas	2027	9	19	17	95	150	150	20
Visayas	2027	9	19	18	109	150	150	20
Visayas	2027	9	19	19	111	150	150	20
Visayas	2027	9	19	20	108	150	150	20
Visayas	2027	9	19	21	104	150	150	20
Visayas	2027	9	19	22	97	150	150	20
Visayas	2027	9	19	23	90	150	150	20
Visayas	2027	9	19	24	82	150	150	20
Visayas	2027	9	20	1	76	150	150	20
Visayas	2027	9	20	2	71	150	150	20
Visayas	2027	9	20	3	68	150	150	20
Visayas	2027	9	20	4	67	150	150	20
Visayas	2027	9	20	5	72	150	150	20
Visayas	2027	9	20	6	78	150	150	20
Visayas	2027	9	20	7	72	150	150	20
Visayas	2027	9	20	8	91	150	150	20
Visayas	2027	9	20	9	113	150	150	20
Visayas	2027	9	20	10	124	150	150	20
Visayas	2027	9	20	11	128	150	150	20
Visayas	2027	9	20	12	123	150	150	20
Visayas	2027	9	20	13	126	150	150	20
Visayas	2027	9	20	14	134	150	150	20
Visayas	2027	9	20	15	133	150	150	20
Visayas	2027	9	20	16	128	150	150	20
Visayas	2027	9	20	17	120	150	150	20
Visayas	2027	9	20	18	125	150	150	20
Visayas	2027	9	20	19	124	150	150	20
Visayas	2027	9	20	20	121	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	20	21	115	150	150	20
Visayas	2027	9	20	22	104	150	150	20
Visayas	2027	9	20	23	95	150	150	20
Visayas	2027	9	20	24	88	150	150	20
Visayas	2027	9	21	1	82	150	150	20
Visayas	2027	9	21	2	78	150	150	20
Visayas	2027	9	21	3	74	150	150	20
Visayas	2027	9	21	4	71	150	150	20
Visayas	2027	9	21	5	76	150	150	20
Visayas	2027	9	21	6	80	150	150	20
Visayas	2027	9	21	7	73	150	150	20
Visayas	2027	9	21	8	92	150	150	20
Visayas	2027	9	21	9	113	150	150	20
Visayas	2027	9	21	10	125	150	150	20
Visayas	2027	9	21	11	129	150	150	20
Visayas	2027	9	21	12	126	150	150	20
Visayas	2027	9	21	13	128	150	150	20
Visayas	2027	9	21	14	135	150	150	20
Visayas	2027	9	21	15	133	150	150	20
Visayas	2027	9	21	16	129	150	150	20
Visayas	2027	9	21	17	120	150	150	20
Visayas	2027	9	21	18	126	150	150	20
Visayas	2027	9	21	19	124	150	150	20
Visayas	2027	9	21	20	120	150	150	20
Visayas	2027	9	21	21	114	150	150	20
Visayas	2027	9	21	22	104	150	150	20
Visayas	2027	9	21	23	96	150	150	20
Visayas	2027	9	21	24	88	150	150	20
Visayas	2027	9	22	1	82	150	150	20
Visayas	2027	9	22	2	79	150	150	20
Visayas	2027	9	22	3	75	150	150	20
Visayas	2027	9	22	4	74	150	150	20
Visayas	2027	9	22	5	78	150	150	20
Visayas	2027	9	22	6	81	150	150	20
Visayas	2027	9	22	7	77	150	150	20
Visayas	2027	9	22	8	94	150	150	20
Visayas	2027	9	22	9	114	150	150	20
Visayas	2027	9	22	10	124	150	150	20
Visayas	2027	9	22	11	131	150	150	20
Visayas	2027	9	22	12	128	150	150	20
Visayas	2027	9	22	13	130	150	150	20
Visayas	2027	9	22	14	132	150	150	20
Visayas	2027	9	22	15	134	150	150	20
Visayas	2027	9	22	16	130	150	150	20
Visayas	2027	9	22	17	121	150	150	20
Visayas	2027	9	22	18	125	150	150	20
Visayas	2027	9	22	19	123	150	150	20
Visayas	2027	9	22	20	118	150	150	20
Visayas	2027	9	22	21	107	150	150	20
Visayas	2027	9	22	22	98	150	150	20
Visayas	2027	9	22	23	92	150	150	20
Visayas	2027	9	22	24	87	150	150	20
Visayas	2027	9	23	1	82	150	150	20
Visayas	2027	9	23	2	78	150	150	20
Visayas	2027	9	23	3	74	150	150	20
Visayas	2027	9	23	4	73	150	150	20
Visayas	2027	9	23	5	77	150	150	20
Visayas	2027	9	23	6	83	150	150	20
Visayas	2027	9	23	7	76	150	150	20
Visayas	2027	9	23	8	89	150	150	20
Visayas	2027	9	23	9	108	150	150	20
Visayas	2027	9	23	10	115	150	150	20
Visayas	2027	9	23	11	118	150	150	20
Visayas	2027	9	23	12	115	150	150	20
Visayas	2027	9	23	13	117	150	150	20
Visayas	2027	9	23	14	123	150	150	20
Visayas	2027	9	23	15	123	150	150	20
Visayas	2027	9	23	16	120	150	150	20
Visayas	2027	9	23	17	115	150	150	20
Visayas	2027	9	23	18	123	150	150	20
Visayas	2027	9	23	19	119	150	150	20
Visayas	2027	9	23	20	115	150	150	20
Visayas	2027	9	23	21	109	150	150	20
Visayas	2027	9	23	22	99	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	23	23	92	150	150	20
Visayas	2027	9	23	24	85	150	150	20
Visayas	2027	9	24	1	80	150	150	20
Visayas	2027	9	24	2	77	150	150	20
Visayas	2027	9	24	3	72	150	150	20
Visayas	2027	9	24	4	70	150	150	20
Visayas	2027	9	24	5	73	150	150	20
Visayas	2027	9	24	6	78	150	150	20
Visayas	2027	9	24	7	74	150	150	20
Visayas	2027	9	24	8	86	150	150	20
Visayas	2027	9	24	9	103	150	150	20
Visayas	2027	9	24	10	111	150	150	20
Visayas	2027	9	24	11	117	150	150	20
Visayas	2027	9	24	12	115	150	150	20
Visayas	2027	9	24	13	113	150	150	20
Visayas	2027	9	24	14	121	150	150	20
Visayas	2027	9	24	15	119	150	150	20
Visayas	2027	9	24	16	116	150	150	20
Visayas	2027	9	24	17	109	150	150	20
Visayas	2027	9	24	18	116	150	150	20
Visayas	2027	9	24	19	112	150	150	20
Visayas	2027	9	24	20	105	150	150	20
Visayas	2027	9	24	21	100	150	150	20
Visayas	2027	9	24	22	92	150	150	20
Visayas	2027	9	24	23	84	150	150	20
Visayas	2027	9	24	24	79	150	150	20
Visayas	2027	9	25	1	74	150	150	20
Visayas	2027	9	25	2	71	150	150	20
Visayas	2027	9	25	3	68	150	150	20
Visayas	2027	9	25	4	67	150	150	20
Visayas	2027	9	25	5	68	150	150	20
Visayas	2027	9	25	6	68	150	150	20
Visayas	2027	9	25	7	68	150	150	20
Visayas	2027	9	25	8	80	150	150	20
Visayas	2027	9	25	9	93	150	150	20
Visayas	2027	9	25	10	100	150	150	20
Visayas	2027	9	25	11	103	150	150	20
Visayas	2027	9	25	12	101	150	150	20
Visayas	2027	9	25	13	100	150	150	20
Visayas	2027	9	25	14	103	150	150	20
Visayas	2027	9	25	15	101	150	150	20
Visayas	2027	9	25	16	98	150	150	20
Visayas	2027	9	25	17	97	150	150	20
Visayas	2027	9	25	18	108	150	150	20
Visayas	2027	9	25	19	106	150	150	20
Visayas	2027	9	25	20	100	150	150	20
Visayas	2027	9	25	21	95	150	150	20
Visayas	2027	9	25	22	88	150	150	20
Visayas	2027	9	25	23	82	150	150	20
Visayas	2027	9	25	24	75	150	150	20
Visayas	2027	9	26	1	73	150	150	20
Visayas	2027	9	26	2	70	150	150	20
Visayas	2027	9	26	3	67	150	150	20
Visayas	2027	9	26	4	65	150	150	20
Visayas	2027	9	26	5	65	150	150	20
Visayas	2027	9	26	6	66	150	150	20
Visayas	2027	9	26	7	65	150	150	20
Visayas	2027	9	26	8	69	150	150	20
Visayas	2027	9	26	9	76	150	150	20
Visayas	2027	9	26	10	84	150	150	20
Visayas	2027	9	26	11	87	150	150	20
Visayas	2027	9	26	12	87	150	150	20
Visayas	2027	9	26	13	88	150	150	20
Visayas	2027	9	26	14	90	150	150	20
Visayas	2027	9	26	15	90	150	150	20
Visayas	2027	9	26	16	88	150	150	20
Visayas	2027	9	26	17	90	150	150	20
Visayas	2027	9	26	18	107	150	150	20
Visayas	2027	9	26	19	104	150	150	20
Visayas	2027	9	26	20	102	150	150	20
Visayas	2027	9	26	21	98	150	150	20
Visayas	2027	9	26	22	90	150	150	20
Visayas	2027	9	26	23	83	150	150	20
Visayas	2027	9	26	24	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	27	1	73	150	150	20
Visayas	2027	9	27	2	69	150	150	20
Visayas	2027	9	27	3	67	150	150	20
Visayas	2027	9	27	4	66	150	150	20
Visayas	2027	9	27	5	71	150	150	20
Visayas	2027	9	27	6	76	150	150	20
Visayas	2027	9	27	7	71	150	150	20
Visayas	2027	9	27	8	90	150	150	20
Visayas	2027	9	27	9	109	150	150	20
Visayas	2027	9	27	10	121	150	150	20
Visayas	2027	9	27	11	124	150	150	20
Visayas	2027	9	27	12	120	150	150	20
Visayas	2027	9	27	13	123	150	150	20
Visayas	2027	9	27	14	129	150	150	20
Visayas	2027	9	27	15	124	150	150	20
Visayas	2027	9	27	16	118	150	150	20
Visayas	2027	9	27	17	113	150	150	20
Visayas	2027	9	27	18	120	150	150	20
Visayas	2027	9	27	19	116	150	150	20
Visayas	2027	9	27	20	110	150	150	20
Visayas	2027	9	27	21	104	150	150	20
Visayas	2027	9	27	22	96	150	150	20
Visayas	2027	9	27	23	89	150	150	20
Visayas	2027	9	27	24	82	150	150	20
Visayas	2027	9	28	1	78	150	150	20
Visayas	2027	9	28	2	73	150	150	20
Visayas	2027	9	28	3	71	150	150	20
Visayas	2027	9	28	4	70	150	150	20
Visayas	2027	9	28	5	75	150	150	20
Visayas	2027	9	28	6	80	150	150	20
Visayas	2027	9	28	7	73	150	150	20
Visayas	2027	9	28	8	91	150	150	20
Visayas	2027	9	28	9	111	150	150	20
Visayas	2027	9	28	10	122	150	150	20
Visayas	2027	9	28	11	128	150	150	20
Visayas	2027	9	28	12	123	150	150	20
Visayas	2027	9	28	13	114	150	150	20
Visayas	2027	9	28	14	131	150	150	20
Visayas	2027	9	28	15	131	150	150	20
Visayas	2027	9	28	16	127	150	150	20
Visayas	2027	9	28	17	117	150	150	20
Visayas	2027	9	28	18	125	150	150	20
Visayas	2027	9	28	19	121	150	150	20
Visayas	2027	9	28	20	115	150	150	20
Visayas	2027	9	28	21	108	150	150	20
Visayas	2027	9	28	22	99	150	150	20
Visayas	2027	9	28	23	93	150	150	20
Visayas	2027	9	28	24	86	150	150	20
Visayas	2027	9	29	1	81	150	150	20
Visayas	2027	9	29	2	78	150	150	20
Visayas	2027	9	29	3	74	150	150	20
Visayas	2027	9	29	4	72	150	150	20
Visayas	2027	9	29	5	77	150	150	20
Visayas	2027	9	29	6	81	150	150	20
Visayas	2027	9	29	7	76	150	150	20
Visayas	2027	9	29	8	90	150	150	20
Visayas	2027	9	29	9	110	150	150	20
Visayas	2027	9	29	10	121	150	150	20
Visayas	2027	9	29	11	125	150	150	20
Visayas	2027	9	29	12	122	150	150	20
Visayas	2027	9	29	13	122	150	150	20
Visayas	2027	9	29	14	131	150	150	20
Visayas	2027	9	29	15	127	150	150	20
Visayas	2027	9	29	16	123	150	150	20
Visayas	2027	9	29	17	114	150	150	20
Visayas	2027	9	29	18	123	150	150	20
Visayas	2027	9	29	19	119	150	150	20
Visayas	2027	9	29	20	114	150	150	20
Visayas	2027	9	29	21	108	150	150	20
Visayas	2027	9	29	22	99	150	150	20
Visayas	2027	9	29	23	91	150	150	20
Visayas	2027	9	29	24	85	150	150	20
Visayas	2027	9	30	1	80	150	150	20
Visayas	2027	9	30	2	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	9	30	3	73	150	150	20
Visayas	2027	9	30	4	72	150	150	20
Visayas	2027	9	30	5	75	150	150	20
Visayas	2027	9	30	6	80	150	150	20
Visayas	2027	9	30	7	75	150	150	20
Visayas	2027	9	30	8	91	150	150	20
Visayas	2027	9	30	9	110	150	150	20
Visayas	2027	9	30	10	120	150	150	20
Visayas	2027	9	30	11	126	150	150	20
Visayas	2027	9	30	12	123	150	150	20
Visayas	2027	9	30	13	124	150	150	20
Visayas	2027	9	30	14	126	150	150	20
Visayas	2027	9	30	15	126	150	150	20
Visayas	2027	9	30	16	119	150	150	20
Visayas	2027	9	30	17	114	150	150	20
Visayas	2027	9	30	18	122	150	150	20
Visayas	2027	9	30	19	117	150	150	20
Visayas	2027	9	30	20	112	150	150	20
Visayas	2027	9	30	21	106	150	150	20
Visayas	2027	9	30	22	98	150	150	20
Visayas	2027	9	30	23	90	150	150	20
Visayas	2027	9	30	24	85	150	150	20
Visayas	2027	10	1	1	78	150	150	20
Visayas	2027	10	1	2	74	150	150	20
Visayas	2027	10	1	3	73	150	150	20
Visayas	2027	10	1	4	71	150	150	20
Visayas	2027	10	1	5	76	150	150	20
Visayas	2027	10	1	6	80	150	150	20
Visayas	2027	10	1	7	76	150	150	20
Visayas	2027	10	1	8	91	150	150	20
Visayas	2027	10	1	9	110	150	150	20
Visayas	2027	10	1	10	121	150	150	20
Visayas	2027	10	1	11	127	150	150	20
Visayas	2027	10	1	12	121	150	150	20
Visayas	2027	10	1	13	125	150	150	20
Visayas	2027	10	1	14	128	150	150	20
Visayas	2027	10	1	15	123	150	150	20
Visayas	2027	10	1	16	118	150	150	20
Visayas	2027	10	1	17	115	150	150	20
Visayas	2027	10	1	18	122	150	150	20
Visayas	2027	10	1	19	117	150	150	20
Visayas	2027	10	1	20	111	150	150	20
Visayas	2027	10	1	21	106	150	150	20
Visayas	2027	10	1	22	99	150	150	20
Visayas	2027	10	1	23	91	150	150	20
Visayas	2027	10	1	24	85	150	150	20
Visayas	2027	10	2	1	80	150	150	20
Visayas	2027	10	2	2	76	150	150	20
Visayas	2027	10	2	3	73	150	150	20
Visayas	2027	10	2	4	71	150	150	20
Visayas	2027	10	2	5	72	150	150	20
Visayas	2027	10	2	6	73	150	150	20
Visayas	2027	10	2	7	72	150	150	20
Visayas	2027	10	2	8	82	150	150	20
Visayas	2027	10	2	9	94	150	150	20
Visayas	2027	10	2	10	103	150	150	20
Visayas	2027	10	2	11	110	150	150	20
Visayas	2027	10	2	12	107	150	150	20
Visayas	2027	10	2	13	107	150	150	20
Visayas	2027	10	2	14	112	150	150	20
Visayas	2027	10	2	15	109	150	150	20
Visayas	2027	10	2	16	107	150	150	20
Visayas	2027	10	2	17	105	150	150	20
Visayas	2027	10	2	18	118	150	150	20
Visayas	2027	10	2	19	114	150	150	20
Visayas	2027	10	2	20	110	150	150	20
Visayas	2027	10	2	21	105	150	150	20
Visayas	2027	10	2	22	98	150	150	20
Visayas	2027	10	2	23	91	150	150	20
Visayas	2027	10	2	24	86	150	150	20
Visayas	2027	10	3	1	81	150	150	20
Visayas	2027	10	3	2	77	150	150	20
Visayas	2027	10	3	3	72	150	150	20
Visayas	2027	10	3	4	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	3	5	67	150	150	20
Visayas	2027	10	3	6	65	150	150	20
Visayas	2027	10	3	7	65	150	150	20
Visayas	2027	10	3	8	68	150	150	20
Visayas	2027	10	3	9	76	150	150	20
Visayas	2027	10	3	10	81	150	150	20
Visayas	2027	10	3	11	84	150	150	20
Visayas	2027	10	3	12	85	150	150	20
Visayas	2027	10	3	13	88	150	150	20
Visayas	2027	10	3	14	89	150	150	20
Visayas	2027	10	3	15	90	150	150	20
Visayas	2027	10	3	16	86	150	150	20
Visayas	2027	10	3	17	87	150	150	20
Visayas	2027	10	3	18	104	150	150	20
Visayas	2027	10	3	19	104	150	150	20
Visayas	2027	10	3	20	106	150	150	20
Visayas	2027	10	3	21	102	150	150	20
Visayas	2027	10	3	22	96	150	150	20
Visayas	2027	10	3	23	88	150	150	20
Visayas	2027	10	3	24	82	150	150	20
Visayas	2027	10	4	1	78	150	150	20
Visayas	2027	10	4	2	73	150	150	20
Visayas	2027	10	4	3	70	150	150	20
Visayas	2027	10	4	4	69	150	150	20
Visayas	2027	10	4	5	72	150	150	20
Visayas	2027	10	4	6	77	150	150	20
Visayas	2027	10	4	7	72	150	150	20
Visayas	2027	10	4	8	87	150	150	20
Visayas	2027	10	4	9	108	150	150	20
Visayas	2027	10	4	10	118	150	150	20
Visayas	2027	10	4	11	122	150	150	20
Visayas	2027	10	4	12	120	150	150	20
Visayas	2027	10	4	13	121	150	150	20
Visayas	2027	10	4	14	130	150	150	20
Visayas	2027	10	4	15	129	150	150	20
Visayas	2027	10	4	16	126	150	150	20
Visayas	2027	10	4	17	118	150	150	20
Visayas	2027	10	4	18	126	150	150	20
Visayas	2027	10	4	19	121	150	150	20
Visayas	2027	10	4	20	116	150	150	20
Visayas	2027	10	4	21	111	150	150	20
Visayas	2027	10	4	22	103	150	150	20
Visayas	2027	10	4	23	96	150	150	20
Visayas	2027	10	4	24	88	150	150	20
Visayas	2027	10	5	1	85	150	150	20
Visayas	2027	10	5	2	81	150	150	20
Visayas	2027	10	5	3	78	150	150	20
Visayas	2027	10	5	4	76	150	150	20
Visayas	2027	10	5	5	81	150	150	20
Visayas	2027	10	5	6	84	150	150	20
Visayas	2027	10	5	7	79	150	150	20
Visayas	2027	10	5	8	94	150	150	20
Visayas	2027	10	5	9	115	150	150	20
Visayas	2027	10	5	10	125	150	150	20
Visayas	2027	10	5	11	132	150	150	20
Visayas	2027	10	5	12	129	150	150	20
Visayas	2027	10	5	13	131	150	150	20
Visayas	2027	10	5	14	136	150	150	20
Visayas	2027	10	5	15	135	150	150	20
Visayas	2027	10	5	16	132	150	150	20
Visayas	2027	10	5	17	123	150	150	20
Visayas	2027	10	5	18	131	150	150	20
Visayas	2027	10	5	19	125	150	150	20
Visayas	2027	10	5	20	121	150	150	20
Visayas	2027	10	5	21	115	150	150	20
Visayas	2027	10	5	22	105	150	150	20
Visayas	2027	10	5	23	97	150	150	20
Visayas	2027	10	5	24	90	150	150	20
Visayas	2027	10	6	1	85	150	150	20
Visayas	2027	10	6	2	82	150	150	20
Visayas	2027	10	6	3	78	150	150	20
Visayas	2027	10	6	4	76	150	150	20
Visayas	2027	10	6	5	81	150	150	20
Visayas	2027	10	6	6	84	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	6	7	79	150	150	20
Visayas	2027	10	6	8	99	150	150	20
Visayas	2027	10	6	9	118	150	150	20
Visayas	2027	10	6	10	127	150	150	20
Visayas	2027	10	6	11	132	150	150	20
Visayas	2027	10	6	12	129	150	150	20
Visayas	2027	10	6	13	131	150	150	20
Visayas	2027	10	6	14	137	150	150	20
Visayas	2027	10	6	15	136	150	150	20
Visayas	2027	10	6	16	133	150	150	20
Visayas	2027	10	6	17	125	150	150	20
Visayas	2027	10	6	18	133	150	150	20
Visayas	2027	10	6	19	128	150	150	20
Visayas	2027	10	6	20	123	150	150	20
Visayas	2027	10	6	21	117	150	150	20
Visayas	2027	10	6	22	107	150	150	20
Visayas	2027	10	6	23	99	150	150	20
Visayas	2027	10	6	24	92	150	150	20
Visayas	2027	10	7	1	87	150	150	20
Visayas	2027	10	7	2	82	150	150	20
Visayas	2027	10	7	3	79	150	150	20
Visayas	2027	10	7	4	77	150	150	20
Visayas	2027	10	7	5	79	150	150	20
Visayas	2027	10	7	6	82	150	150	20
Visayas	2027	10	7	7	82	150	150	20
Visayas	2027	10	7	8	98	150	150	20
Visayas	2027	10	7	9	117	150	150	20
Visayas	2027	10	7	10	128	150	150	20
Visayas	2027	10	7	11	134	150	150	20
Visayas	2027	10	7	12	131	150	150	20
Visayas	2027	10	7	13	133	150	150	20
Visayas	2027	10	7	14	140	150	150	20
Visayas	2027	10	7	15	139	150	150	20
Visayas	2027	10	7	16	135	150	150	20
Visayas	2027	10	7	17	125	150	150	20
Visayas	2027	10	7	18	133	150	150	20
Visayas	2027	10	7	19	127	150	150	20
Visayas	2027	10	7	20	123	150	150	20
Visayas	2027	10	7	21	117	150	150	20
Visayas	2027	10	7	22	109	150	150	20
Visayas	2027	10	7	23	100	150	150	20
Visayas	2027	10	7	24	93	150	150	20
Visayas	2027	10	8	1	87	150	150	20
Visayas	2027	10	8	2	83	150	150	20
Visayas	2027	10	8	3	80	150	150	20
Visayas	2027	10	8	4	78	150	150	20
Visayas	2027	10	8	5	80	150	150	20
Visayas	2027	10	8	6	82	150	150	20
Visayas	2027	10	8	7	80	150	150	20
Visayas	2027	10	8	8	98	150	150	20
Visayas	2027	10	8	9	118	150	150	20
Visayas	2027	10	8	10	130	150	150	20
Visayas	2027	10	8	11	135	150	150	20
Visayas	2027	10	8	12	132	150	150	20
Visayas	2027	10	8	13	133	150	150	20
Visayas	2027	10	8	14	140	150	150	20
Visayas	2027	10	8	15	136	150	150	20
Visayas	2027	10	8	16	132	150	150	20
Visayas	2027	10	8	17	124	150	150	20
Visayas	2027	10	8	18	130	150	150	20
Visayas	2027	10	8	19	127	150	150	20
Visayas	2027	10	8	20	122	150	150	20
Visayas	2027	10	8	21	116	150	150	20
Visayas	2027	10	8	22	108	150	150	20
Visayas	2027	10	8	23	99	150	150	20
Visayas	2027	10	8	24	92	150	150	20
Visayas	2027	10	9	1	87	150	150	20
Visayas	2027	10	9	2	83	150	150	20
Visayas	2027	10	9	3	78	150	150	20
Visayas	2027	10	9	4	77	150	150	20
Visayas	2027	10	9	5	76	150	150	20
Visayas	2027	10	9	6	73	150	150	20
Visayas	2027	10	9	7	74	150	150	20
Visayas	2027	10	9	8	85	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	9	9	102	150	150	20
Visayas	2027	10	9	10	115	150	150	20
Visayas	2027	10	9	11	117	150	150	20
Visayas	2027	10	9	12	113	150	150	20
Visayas	2027	10	9	13	115	150	150	20
Visayas	2027	10	9	14	119	150	150	20
Visayas	2027	10	9	15	115	150	150	20
Visayas	2027	10	9	16	112	150	150	20
Visayas	2027	10	9	17	109	150	150	20
Visayas	2027	10	9	18	122	150	150	20
Visayas	2027	10	9	19	118	150	150	20
Visayas	2027	10	9	20	114	150	150	20
Visayas	2027	10	9	21	109	150	150	20
Visayas	2027	10	9	22	102	150	150	20
Visayas	2027	10	9	23	95	150	150	20
Visayas	2027	10	9	24	88	150	150	20
Visayas	2027	10	10	1	83	150	150	20
Visayas	2027	10	10	2	79	150	150	20
Visayas	2027	10	10	3	75	150	150	20
Visayas	2027	10	10	4	71	150	150	20
Visayas	2027	10	10	5	71	150	150	20
Visayas	2027	10	10	6	69	150	150	20
Visayas	2027	10	10	7	67	150	150	20
Visayas	2027	10	10	8	75	150	150	20
Visayas	2027	10	10	9	87	150	150	20
Visayas	2027	10	10	10	96	150	150	20
Visayas	2027	10	10	11	99	150	150	20
Visayas	2027	10	10	12	99	150	150	20
Visayas	2027	10	10	13	99	150	150	20
Visayas	2027	10	10	14	103	150	150	20
Visayas	2027	10	10	15	104	150	150	20
Visayas	2027	10	10	16	101	150	150	20
Visayas	2027	10	10	17	102	150	150	20
Visayas	2027	10	10	18	118	150	150	20
Visayas	2027	10	10	19	114	150	150	20
Visayas	2027	10	10	20	112	150	150	20
Visayas	2027	10	10	21	109	150	150	20
Visayas	2027	10	10	22	101	150	150	20
Visayas	2027	10	10	23	94	150	150	20
Visayas	2027	10	10	24	86	150	150	20
Visayas	2027	10	11	1	81	150	150	20
Visayas	2027	10	11	2	76	150	150	20
Visayas	2027	10	11	3	73	150	150	20
Visayas	2027	10	11	4	72	150	150	20
Visayas	2027	10	11	5	77	150	150	20
Visayas	2027	10	11	6	82	150	150	20
Visayas	2027	10	11	7	76	150	150	20
Visayas	2027	10	11	8	93	150	150	20
Visayas	2027	10	11	9	116	150	150	20
Visayas	2027	10	11	10	126	150	150	20
Visayas	2027	10	11	11	131	150	150	20
Visayas	2027	10	11	12	127	150	150	20
Visayas	2027	10	11	13	129	150	150	20
Visayas	2027	10	11	14	133	150	150	20
Visayas	2027	10	11	15	134	150	150	20
Visayas	2027	10	11	16	131	150	150	20
Visayas	2027	10	11	17	124	150	150	20
Visayas	2027	10	11	18	132	150	150	20
Visayas	2027	10	11	19	126	150	150	20
Visayas	2027	10	11	20	122	150	150	20
Visayas	2027	10	11	21	116	150	150	20
Visayas	2027	10	11	22	103	150	150	20
Visayas	2027	10	11	23	95	150	150	20
Visayas	2027	10	11	24	86	150	150	20
Visayas	2027	10	12	1	83	150	150	20
Visayas	2027	10	12	2	80	150	150	20
Visayas	2027	10	12	3	77	150	150	20
Visayas	2027	10	12	4	75	150	150	20
Visayas	2027	10	12	5	79	150	150	20
Visayas	2027	10	12	6	83	150	150	20
Visayas	2027	10	12	7	78	150	150	20
Visayas	2027	10	12	8	97	150	150	20
Visayas	2027	10	12	9	117	150	150	20
Visayas	2027	10	12	10	125	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	12	11	124	150	150	20
Visayas	2027	10	12	12	119	150	150	20
Visayas	2027	10	12	13	116	150	150	20
Visayas	2027	10	12	14	117	150	150	20
Visayas	2027	10	12	15	114	150	150	20
Visayas	2027	10	12	16	114	150	150	20
Visayas	2027	10	12	17	112	150	150	20
Visayas	2027	10	12	18	118	150	150	20
Visayas	2027	10	12	19	110	150	150	20
Visayas	2027	10	12	20	105	150	150	20
Visayas	2027	10	12	21	97	150	150	20
Visayas	2027	10	12	22	87	150	150	20
Visayas	2027	10	12	23	82	150	150	20
Visayas	2027	10	12	24	76	150	150	20
Visayas	2027	10	13	1	72	150	150	20
Visayas	2027	10	13	2	69	150	150	20
Visayas	2027	10	13	3	66	150	150	20
Visayas	2027	10	13	4	66	150	150	20
Visayas	2027	10	13	5	71	150	150	20
Visayas	2027	10	13	6	78	150	150	20
Visayas	2027	10	13	7	72	150	150	20
Visayas	2027	10	13	8	87	150	150	20
Visayas	2027	10	13	9	106	150	150	20
Visayas	2027	10	13	10	116	150	150	20
Visayas	2027	10	13	11	121	150	150	20
Visayas	2027	10	13	12	118	150	150	20
Visayas	2027	10	13	13	115	150	150	20
Visayas	2027	10	13	14	122	150	150	20
Visayas	2027	10	13	15	121	150	150	20
Visayas	2027	10	13	16	119	150	150	20
Visayas	2027	10	13	17	115	150	150	20
Visayas	2027	10	13	18	124	150	150	20
Visayas	2027	10	13	19	117	150	150	20
Visayas	2027	10	13	20	111	150	150	20
Visayas	2027	10	13	21	104	150	150	20
Visayas	2027	10	13	22	96	150	150	20
Visayas	2027	10	13	23	87	150	150	20
Visayas	2027	10	13	24	82	150	150	20
Visayas	2027	10	14	1	77	150	150	20
Visayas	2027	10	14	2	74	150	150	20
Visayas	2027	10	14	3	71	150	150	20
Visayas	2027	10	14	4	69	150	150	20
Visayas	2027	10	14	5	74	150	150	20
Visayas	2027	10	14	6	80	150	150	20
Visayas	2027	10	14	7	76	150	150	20
Visayas	2027	10	14	8	91	150	150	20
Visayas	2027	10	14	9	111	150	150	20
Visayas	2027	10	14	10	120	150	150	20
Visayas	2027	10	14	11	128	150	150	20
Visayas	2027	10	14	12	125	150	150	20
Visayas	2027	10	14	13	127	150	150	20
Visayas	2027	10	14	14	134	150	150	20
Visayas	2027	10	14	15	134	150	150	20
Visayas	2027	10	14	16	129	150	150	20
Visayas	2027	10	14	17	122	150	150	20
Visayas	2027	10	14	18	130	150	150	20
Visayas	2027	10	14	19	122	150	150	20
Visayas	2027	10	14	20	120	150	150	20
Visayas	2027	10	14	21	113	150	150	20
Visayas	2027	10	14	22	104	150	150	20
Visayas	2027	10	14	23	96	150	150	20
Visayas	2027	10	14	24	88	150	150	20
Visayas	2027	10	15	1	83	150	150	20
Visayas	2027	10	15	2	79	150	150	20
Visayas	2027	10	15	3	76	150	150	20
Visayas	2027	10	15	4	75	150	150	20
Visayas	2027	10	15	5	79	150	150	20
Visayas	2027	10	15	6	82	150	150	20
Visayas	2027	10	15	7	77	150	150	20
Visayas	2027	10	15	8	93	150	150	20
Visayas	2027	10	15	9	113	150	150	20
Visayas	2027	10	15	10	125	150	150	20
Visayas	2027	10	15	11	130	150	150	20
Visayas	2027	10	15	12	126	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	15	13	127	150	150	20
Visayas	2027	10	15	14	132	150	150	20
Visayas	2027	10	15	15	129	150	150	20
Visayas	2027	10	15	16	124	150	150	20
Visayas	2027	10	15	17	117	150	150	20
Visayas	2027	10	15	18	126	150	150	20
Visayas	2027	10	15	19	120	150	150	20
Visayas	2027	10	15	20	115	150	150	20
Visayas	2027	10	15	21	109	150	150	20
Visayas	2027	10	15	22	101	150	150	20
Visayas	2027	10	15	23	93	150	150	20
Visayas	2027	10	15	24	88	150	150	20
Visayas	2027	10	16	1	83	150	150	20
Visayas	2027	10	16	2	79	150	150	20
Visayas	2027	10	16	3	76	150	150	20
Visayas	2027	10	16	4	74	150	150	20
Visayas	2027	10	16	5	74	150	150	20
Visayas	2027	10	16	6	75	150	150	20
Visayas	2027	10	16	7	73	150	150	20
Visayas	2027	10	16	8	86	150	150	20
Visayas	2027	10	16	9	99	150	150	20
Visayas	2027	10	16	10	108	150	150	20
Visayas	2027	10	16	11	115	150	150	20
Visayas	2027	10	16	12	112	150	150	20
Visayas	2027	10	16	13	112	150	150	20
Visayas	2027	10	16	14	112	150	150	20
Visayas	2027	10	16	15	108	150	150	20
Visayas	2027	10	16	16	107	150	150	20
Visayas	2027	10	16	17	102	150	150	20
Visayas	2027	10	16	18	117	150	150	20
Visayas	2027	10	16	19	112	150	150	20
Visayas	2027	10	16	20	107	150	150	20
Visayas	2027	10	16	21	102	150	150	20
Visayas	2027	10	16	22	95	150	150	20
Visayas	2027	10	16	23	87	150	150	20
Visayas	2027	10	16	24	81	150	150	20
Visayas	2027	10	17	1	76	150	150	20
Visayas	2027	10	17	2	73	150	150	20
Visayas	2027	10	17	3	69	150	150	20
Visayas	2027	10	17	4	67	150	150	20
Visayas	2027	10	17	5	67	150	150	20
Visayas	2027	10	17	6	65	150	150	20
Visayas	2027	10	17	7	66	150	150	20
Visayas	2027	10	17	8	70	150	150	20
Visayas	2027	10	17	9	80	150	150	20
Visayas	2027	10	17	10	89	150	150	20
Visayas	2027	10	17	11	92	150	150	20
Visayas	2027	10	17	12	92	150	150	20
Visayas	2027	10	17	13	94	150	150	20
Visayas	2027	10	17	14	98	150	150	20
Visayas	2027	10	17	15	96	150	150	20
Visayas	2027	10	17	16	93	150	150	20
Visayas	2027	10	17	17	93	150	150	20
Visayas	2027	10	17	18	110	150	150	20
Visayas	2027	10	17	19	106	150	150	20
Visayas	2027	10	17	20	105	150	150	20
Visayas	2027	10	17	21	102	150	150	20
Visayas	2027	10	17	22	96	150	150	20
Visayas	2027	10	17	23	87	150	150	20
Visayas	2027	10	17	24	80	150	150	20
Visayas	2027	10	18	1	77	150	150	20
Visayas	2027	10	18	2	72	150	150	20
Visayas	2027	10	18	3	68	150	150	20
Visayas	2027	10	18	4	67	150	150	20
Visayas	2027	10	18	5	71	150	150	20
Visayas	2027	10	18	6	76	150	150	20
Visayas	2027	10	18	7	70	150	150	20
Visayas	2027	10	18	8	86	150	150	20
Visayas	2027	10	18	9	107	150	150	20
Visayas	2027	10	18	10	116	150	150	20
Visayas	2027	10	18	11	121	150	150	20
Visayas	2027	10	18	12	119	150	150	20
Visayas	2027	10	18	13	119	150	150	20
Visayas	2027	10	18	14	126	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	18	15	125	150	150	20
Visayas	2027	10	18	16	118	150	150	20
Visayas	2027	10	18	17	110	150	150	20
Visayas	2027	10	18	18	119	150	150	20
Visayas	2027	10	18	19	110	150	150	20
Visayas	2027	10	18	20	106	150	150	20
Visayas	2027	10	18	21	100	150	150	20
Visayas	2027	10	18	22	92	150	150	20
Visayas	2027	10	18	23	85	150	150	20
Visayas	2027	10	18	24	78	150	150	20
Visayas	2027	10	19	1	75	150	150	20
Visayas	2027	10	19	2	71	150	150	20
Visayas	2027	10	19	3	68	150	150	20
Visayas	2027	10	19	4	67	150	150	20
Visayas	2027	10	19	5	72	150	150	20
Visayas	2027	10	19	6	76	150	150	20
Visayas	2027	10	19	7	71	150	150	20
Visayas	2027	10	19	8	88	150	150	20
Visayas	2027	10	19	9	109	150	150	20
Visayas	2027	10	19	10	120	150	150	20
Visayas	2027	10	19	11	126	150	150	20
Visayas	2027	10	19	12	121	150	150	20
Visayas	2027	10	19	13	120	150	150	20
Visayas	2027	10	19	14	126	150	150	20
Visayas	2027	10	19	15	127	150	150	20
Visayas	2027	10	19	16	125	150	150	20
Visayas	2027	10	19	17	117	150	150	20
Visayas	2027	10	19	18	126	150	150	20
Visayas	2027	10	19	19	121	150	150	20
Visayas	2027	10	19	20	115	150	150	20
Visayas	2027	10	19	21	107	150	150	20
Visayas	2027	10	19	22	99	150	150	20
Visayas	2027	10	19	23	90	150	150	20
Visayas	2027	10	19	24	83	150	150	20
Visayas	2027	10	20	1	79	150	150	20
Visayas	2027	10	20	2	74	150	150	20
Visayas	2027	10	20	3	71	150	150	20
Visayas	2027	10	20	4	70	150	150	20
Visayas	2027	10	20	5	73	150	150	20
Visayas	2027	10	20	6	79	150	150	20
Visayas	2027	10	20	7	72	150	150	20
Visayas	2027	10	20	8	89	150	150	20
Visayas	2027	10	20	9	109	150	150	20
Visayas	2027	10	20	10	120	150	150	20
Visayas	2027	10	20	11	125	150	150	20
Visayas	2027	10	20	12	122	150	150	20
Visayas	2027	10	20	13	124	150	150	20
Visayas	2027	10	20	14	131	150	150	20
Visayas	2027	10	20	15	132	150	150	20
Visayas	2027	10	20	16	128	150	150	20
Visayas	2027	10	20	17	120	150	150	20
Visayas	2027	10	20	18	129	150	150	20
Visayas	2027	10	20	19	121	150	150	20
Visayas	2027	10	20	20	117	150	150	20
Visayas	2027	10	20	21	110	150	150	20
Visayas	2027	10	20	22	101	150	150	20
Visayas	2027	10	20	23	93	150	150	20
Visayas	2027	10	20	24	87	150	150	20
Visayas	2027	10	21	1	82	150	150	20
Visayas	2027	10	21	2	78	150	150	20
Visayas	2027	10	21	3	74	150	150	20
Visayas	2027	10	21	4	72	150	150	20
Visayas	2027	10	21	5	77	150	150	20
Visayas	2027	10	21	6	80	150	150	20
Visayas	2027	10	21	7	74	150	150	20
Visayas	2027	10	21	8	93	150	150	20
Visayas	2027	10	21	9	113	150	150	20
Visayas	2027	10	21	10	123	150	150	20
Visayas	2027	10	21	11	128	150	150	20
Visayas	2027	10	21	12	123	150	150	20
Visayas	2027	10	21	13	127	150	150	20
Visayas	2027	10	21	14	133	150	150	20
Visayas	2027	10	21	15	133	150	150	20
Visayas	2027	10	21	16	130	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	21	17	120	150	150	20
Visayas	2027	10	21	18	130	150	150	20
Visayas	2027	10	21	19	122	150	150	20
Visayas	2027	10	21	20	117	150	150	20
Visayas	2027	10	21	21	112	150	150	20
Visayas	2027	10	21	22	102	150	150	20
Visayas	2027	10	21	23	94	150	150	20
Visayas	2027	10	21	24	87	150	150	20
Visayas	2027	10	22	1	82	150	150	20
Visayas	2027	10	22	2	78	150	150	20
Visayas	2027	10	22	3	74	150	150	20
Visayas	2027	10	22	4	72	150	150	20
Visayas	2027	10	22	5	76	150	150	20
Visayas	2027	10	22	6	78	150	150	20
Visayas	2027	10	22	7	76	150	150	20
Visayas	2027	10	22	8	92	150	150	20
Visayas	2027	10	22	9	111	150	150	20
Visayas	2027	10	22	10	122	150	150	20
Visayas	2027	10	22	11	128	150	150	20
Visayas	2027	10	22	12	125	150	150	20
Visayas	2027	10	22	13	128	150	150	20
Visayas	2027	10	22	14	133	150	150	20
Visayas	2027	10	22	15	133	150	150	20
Visayas	2027	10	22	16	129	150	150	20
Visayas	2027	10	22	17	120	150	150	20
Visayas	2027	10	22	18	129	150	150	20
Visayas	2027	10	22	19	122	150	150	20
Visayas	2027	10	22	20	116	150	150	20
Visayas	2027	10	22	21	111	150	150	20
Visayas	2027	10	22	22	102	150	150	20
Visayas	2027	10	22	23	94	150	150	20
Visayas	2027	10	22	24	88	150	150	20
Visayas	2027	10	23	1	82	150	150	20
Visayas	2027	10	23	2	78	150	150	20
Visayas	2027	10	23	3	75	150	150	20
Visayas	2027	10	23	4	72	150	150	20
Visayas	2027	10	23	5	73	150	150	20
Visayas	2027	10	23	6	73	150	150	20
Visayas	2027	10	23	7	72	150	150	20
Visayas	2027	10	23	8	82	150	150	20
Visayas	2027	10	23	9	97	150	150	20
Visayas	2027	10	23	10	108	150	150	20
Visayas	2027	10	23	11	114	150	150	20
Visayas	2027	10	23	12	113	150	150	20
Visayas	2027	10	23	13	113	150	150	20
Visayas	2027	10	23	14	116	150	150	20
Visayas	2027	10	23	15	115	150	150	20
Visayas	2027	10	23	16	108	150	150	20
Visayas	2027	10	23	17	107	150	150	20
Visayas	2027	10	23	18	118	150	150	20
Visayas	2027	10	23	19	112	150	150	20
Visayas	2027	10	23	20	106	150	150	20
Visayas	2027	10	23	21	102	150	150	20
Visayas	2027	10	23	22	93	150	150	20
Visayas	2027	10	23	23	86	150	150	20
Visayas	2027	10	23	24	81	150	150	20
Visayas	2027	10	24	1	77	150	150	20
Visayas	2027	10	24	2	72	150	150	20
Visayas	2027	10	24	3	69	150	150	20
Visayas	2027	10	24	4	68	150	150	20
Visayas	2027	10	24	5	67	150	150	20
Visayas	2027	10	24	6	66	150	150	20
Visayas	2027	10	24	7	66	150	150	20
Visayas	2027	10	24	8	70	150	150	20
Visayas	2027	10	24	9	80	150	150	20
Visayas	2027	10	24	10	87	150	150	20
Visayas	2027	10	24	11	92	150	150	20
Visayas	2027	10	24	12	93	150	150	20
Visayas	2027	10	24	13	94	150	150	20
Visayas	2027	10	24	14	96	150	150	20
Visayas	2027	10	24	15	95	150	150	20
Visayas	2027	10	24	16	93	150	150	20
Visayas	2027	10	24	17	97	150	150	20
Visayas	2027	10	24	18	111	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	24	19	108	150	150	20
Visayas	2027	10	24	20	103	150	150	20
Visayas	2027	10	24	21	97	150	150	20
Visayas	2027	10	24	22	91	150	150	20
Visayas	2027	10	24	23	83	150	150	20
Visayas	2027	10	24	24	78	150	150	20
Visayas	2027	10	25	1	74	150	150	20
Visayas	2027	10	25	2	70	150	150	20
Visayas	2027	10	25	3	68	150	150	20
Visayas	2027	10	25	4	66	150	150	20
Visayas	2027	10	25	5	71	150	150	20
Visayas	2027	10	25	6	77	150	150	20
Visayas	2027	10	25	7	71	150	150	20
Visayas	2027	10	25	8	88	150	150	20
Visayas	2027	10	25	9	109	150	150	20
Visayas	2027	10	25	10	120	150	150	20
Visayas	2027	10	25	11	127	150	150	20
Visayas	2027	10	25	12	124	150	150	20
Visayas	2027	10	25	13	125	150	150	20
Visayas	2027	10	25	14	128	150	150	20
Visayas	2027	10	25	15	126	150	150	20
Visayas	2027	10	25	16	121	150	150	20
Visayas	2027	10	25	17	116	150	150	20
Visayas	2027	10	25	18	125	150	150	20
Visayas	2027	10	25	19	119	150	150	20
Visayas	2027	10	25	20	112	150	150	20
Visayas	2027	10	25	21	106	150	150	20
Visayas	2027	10	25	22	97	150	150	20
Visayas	2027	10	25	23	90	150	150	20
Visayas	2027	10	25	24	84	150	150	20
Visayas	2027	10	26	1	80	150	150	20
Visayas	2027	10	26	2	75	150	150	20
Visayas	2027	10	26	3	72	150	150	20
Visayas	2027	10	26	4	71	150	150	20
Visayas	2027	10	26	5	76	150	150	20
Visayas	2027	10	26	6	81	150	150	20
Visayas	2027	10	26	7	76	150	150	20
Visayas	2027	10	26	8	93	150	150	20
Visayas	2027	10	26	9	112	150	150	20
Visayas	2027	10	26	10	123	150	150	20
Visayas	2027	10	26	11	129	150	150	20
Visayas	2027	10	26	12	126	150	150	20
Visayas	2027	10	26	13	128	150	150	20
Visayas	2027	10	26	14	135	150	150	20
Visayas	2027	10	26	15	133	150	150	20
Visayas	2027	10	26	16	130	150	150	20
Visayas	2027	10	26	17	123	150	150	20
Visayas	2027	10	26	18	133	150	150	20
Visayas	2027	10	26	19	126	150	150	20
Visayas	2027	10	26	20	121	150	150	20
Visayas	2027	10	26	21	115	150	150	20
Visayas	2027	10	26	22	105	150	150	20
Visayas	2027	10	26	23	97	150	150	20
Visayas	2027	10	26	24	89	150	150	20
Visayas	2027	10	27	1	85	150	150	20
Visayas	2027	10	27	2	79	150	150	20
Visayas	2027	10	27	3	76	150	150	20
Visayas	2027	10	27	4	73	150	150	20
Visayas	2027	10	27	5	78	150	150	20
Visayas	2027	10	27	6	82	150	150	20
Visayas	2027	10	27	7	78	150	150	20
Visayas	2027	10	27	8	96	150	150	20
Visayas	2027	10	27	9	116	150	150	20
Visayas	2027	10	27	10	127	150	150	20
Visayas	2027	10	27	11	132	150	150	20
Visayas	2027	10	27	12	129	150	150	20
Visayas	2027	10	27	13	132	150	150	20
Visayas	2027	10	27	14	138	150	150	20
Visayas	2027	10	27	15	136	150	150	20
Visayas	2027	10	27	16	133	150	150	20
Visayas	2027	10	27	17	126	150	150	20
Visayas	2027	10	27	18	134	150	150	20
Visayas	2027	10	27	19	122	150	150	20
Visayas	2027	10	27	20	113	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	27	21	107	150	150	20
Visayas	2027	10	27	22	101	150	150	20
Visayas	2027	10	27	23	95	150	150	20
Visayas	2027	10	27	24	88	150	150	20
Visayas	2027	10	28	1	82	150	150	20
Visayas	2027	10	28	2	79	150	150	20
Visayas	2027	10	28	3	74	150	150	20
Visayas	2027	10	28	4	74	150	150	20
Visayas	2027	10	28	5	77	150	150	20
Visayas	2027	10	28	6	81	150	150	20
Visayas	2027	10	28	7	76	150	150	20
Visayas	2027	10	28	8	94	150	150	20
Visayas	2027	10	28	9	116	150	150	20
Visayas	2027	10	28	10	126	150	150	20
Visayas	2027	10	28	11	131	150	150	20
Visayas	2027	10	28	12	128	150	150	20
Visayas	2027	10	28	13	131	150	150	20
Visayas	2027	10	28	14	136	150	150	20
Visayas	2027	10	28	15	136	150	150	20
Visayas	2027	10	28	16	131	150	150	20
Visayas	2027	10	28	17	125	150	150	20
Visayas	2027	10	28	18	133	150	150	20
Visayas	2027	10	28	19	125	150	150	20
Visayas	2027	10	28	20	120	150	150	20
Visayas	2027	10	28	21	115	150	150	20
Visayas	2027	10	28	22	104	150	150	20
Visayas	2027	10	28	23	98	150	150	20
Visayas	2027	10	28	24	90	150	150	20
Visayas	2027	10	29	1	86	150	150	20
Visayas	2027	10	29	2	81	150	150	20
Visayas	2027	10	29	3	76	150	150	20
Visayas	2027	10	29	4	74	150	150	20
Visayas	2027	10	29	5	78	150	150	20
Visayas	2027	10	29	6	82	150	150	20
Visayas	2027	10	29	7	78	150	150	20
Visayas	2027	10	29	8	93	150	150	20
Visayas	2027	10	29	9	114	150	150	20
Visayas	2027	10	29	10	125	150	150	20
Visayas	2027	10	29	11	131	150	150	20
Visayas	2027	10	29	12	129	150	150	20
Visayas	2027	10	29	13	129	150	150	20
Visayas	2027	10	29	14	139	150	150	20
Visayas	2027	10	29	15	136	150	150	20
Visayas	2027	10	29	16	132	150	150	20
Visayas	2027	10	29	17	122	150	150	20
Visayas	2027	10	29	18	132	150	150	20
Visayas	2027	10	29	19	123	150	150	20
Visayas	2027	10	29	20	119	150	150	20
Visayas	2027	10	29	21	113	150	150	20
Visayas	2027	10	29	22	105	150	150	20
Visayas	2027	10	29	23	97	150	150	20
Visayas	2027	10	29	24	89	150	150	20
Visayas	2027	10	30	1	84	150	150	20
Visayas	2027	10	30	2	81	150	150	20
Visayas	2027	10	30	3	77	150	150	20
Visayas	2027	10	30	4	75	150	150	20
Visayas	2027	10	30	5	76	150	150	20
Visayas	2027	10	30	6	75	150	150	20
Visayas	2027	10	30	7	77	150	150	20
Visayas	2027	10	30	8	88	150	150	20
Visayas	2027	10	30	9	105	150	150	20
Visayas	2027	10	30	10	114	150	150	20
Visayas	2027	10	30	11	119	150	150	20
Visayas	2027	10	30	12	117	150	150	20
Visayas	2027	10	30	13	119	150	150	20
Visayas	2027	10	30	14	125	150	150	20
Visayas	2027	10	30	15	122	150	150	20
Visayas	2027	10	30	16	118	150	150	20
Visayas	2027	10	30	17	113	150	150	20
Visayas	2027	10	30	18	123	150	150	20
Visayas	2027	10	30	19	117	150	150	20
Visayas	2027	10	30	20	114	150	150	20
Visayas	2027	10	30	21	108	150	150	20
Visayas	2027	10	30	22	102	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	10	30	23	96	150	150	20
Visayas	2027	10	30	24	89	150	150	20
Visayas	2027	10	31	1	84	150	150	20
Visayas	2027	10	31	2	80	150	150	20
Visayas	2027	10	31	3	76	150	150	20
Visayas	2027	10	31	4	73	150	150	20
Visayas	2027	10	31	5	73	150	150	20
Visayas	2027	10	31	6	72	150	150	20
Visayas	2027	10	31	7	71	150	150	20
Visayas	2027	10	31	8	78	150	150	20
Visayas	2027	10	31	9	86	150	150	20
Visayas	2027	10	31	10	95	150	150	20
Visayas	2027	10	31	11	100	150	150	20
Visayas	2027	10	31	12	99	150	150	20
Visayas	2027	10	31	13	102	150	150	20
Visayas	2027	10	31	14	104	150	150	20
Visayas	2027	10	31	15	102	150	150	20
Visayas	2027	10	31	16	99	150	150	20
Visayas	2027	10	31	17	99	150	150	20
Visayas	2027	10	31	18	114	150	150	20
Visayas	2027	10	31	19	108	150	150	20
Visayas	2027	10	31	20	105	150	150	20
Visayas	2027	10	31	21	100	150	150	20
Visayas	2027	10	31	22	93	150	150	20
Visayas	2027	10	31	23	87	150	150	20
Visayas	2027	10	31	24	82	150	150	20
Visayas	2027	11	1	1	72	150	150	20
Visayas	2027	11	1	2	69	150	150	20
Visayas	2027	11	1	3	66	150	150	20
Visayas	2027	11	1	4	64	150	150	20
Visayas	2027	11	1	5	65	150	150	20
Visayas	2027	11	1	6	65	150	150	20
Visayas	2027	11	1	7	65	150	150	20
Visayas	2027	11	1	8	68	150	150	20
Visayas	2027	11	1	9	75	150	150	20
Visayas	2027	11	1	10	81	150	150	20
Visayas	2027	11	1	11	86	150	150	20
Visayas	2027	11	1	12	88	150	150	20
Visayas	2027	11	1	13	91	150	150	20
Visayas	2027	11	1	14	93	150	150	20
Visayas	2027	11	1	15	93	150	150	20
Visayas	2027	11	1	16	89	150	150	20
Visayas	2027	11	1	17	88	150	150	20
Visayas	2027	11	1	18	101	150	150	20
Visayas	2027	11	1	19	98	150	150	20
Visayas	2027	11	1	20	98	150	150	20
Visayas	2027	11	1	21	93	150	150	20
Visayas	2027	11	1	22	89	150	150	20
Visayas	2027	11	1	23	85	150	150	20
Visayas	2027	11	1	24	80	150	150	20
Visayas	2027	11	2	1	70	150	150	20
Visayas	2027	11	2	2	68	150	150	20
Visayas	2027	11	2	3	65	150	150	20
Visayas	2027	11	2	4	64	150	150	20
Visayas	2027	11	2	5	64	150	150	20
Visayas	2027	11	2	6	65	150	150	20
Visayas	2027	11	2	7	67	150	150	20
Visayas	2027	11	2	8	79	150	150	20
Visayas	2027	11	2	9	91	150	150	20
Visayas	2027	11	2	10	99	150	150	20
Visayas	2027	11	2	11	105	150	150	20
Visayas	2027	11	2	12	106	150	150	20
Visayas	2027	11	2	13	107	150	150	20
Visayas	2027	11	2	14	109	150	150	20
Visayas	2027	11	2	15	108	150	150	20
Visayas	2027	11	2	16	104	150	150	20
Visayas	2027	11	2	17	101	150	150	20
Visayas	2027	11	2	18	113	150	150	20
Visayas	2027	11	2	19	106	150	150	20
Visayas	2027	11	2	20	102	150	150	20
Visayas	2027	11	2	21	97	150	150	20
Visayas	2027	11	2	22	91	150	150	20
Visayas	2027	11	2	23	84	150	150	20
Visayas	2027	11	2	24	78	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	3	1	84	150	150	20
Visayas	2027	11	3	2	81	150	150	20
Visayas	2027	11	3	3	77	150	150	20
Visayas	2027	11	3	4	74	150	150	20
Visayas	2027	11	3	5	80	150	150	20
Visayas	2027	11	3	6	83	150	150	20
Visayas	2027	11	3	7	78	150	150	20
Visayas	2027	11	3	8	90	150	150	20
Visayas	2027	11	3	9	107	150	150	20
Visayas	2027	11	3	10	115	150	150	20
Visayas	2027	11	3	11	118	150	150	20
Visayas	2027	11	3	12	114	150	150	20
Visayas	2027	11	3	13	115	150	150	20
Visayas	2027	11	3	14	124	150	150	20
Visayas	2027	11	3	15	121	150	150	20
Visayas	2027	11	3	16	121	150	150	20
Visayas	2027	11	3	17	118	150	150	20
Visayas	2027	11	3	18	129	150	150	20
Visayas	2027	11	3	19	120	150	150	20
Visayas	2027	11	3	20	115	150	150	20
Visayas	2027	11	3	21	109	150	150	20
Visayas	2027	11	3	22	99	150	150	20
Visayas	2027	11	3	23	91	150	150	20
Visayas	2027	11	3	24	85	150	150	20
Visayas	2027	11	4	1	74	150	150	20
Visayas	2027	11	4	2	71	150	150	20
Visayas	2027	11	4	3	68	150	150	20
Visayas	2027	11	4	4	66	150	150	20
Visayas	2027	11	4	5	66	150	150	20
Visayas	2027	11	4	6	66	150	150	20
Visayas	2027	11	4	7	66	150	150	20
Visayas	2027	11	4	8	72	150	150	20
Visayas	2027	11	4	9	83	150	150	20
Visayas	2027	11	4	10	92	150	150	20
Visayas	2027	11	4	11	97	150	150	20
Visayas	2027	11	4	12	97	150	150	20
Visayas	2027	11	4	13	101	150	150	20
Visayas	2027	11	4	14	104	150	150	20
Visayas	2027	11	4	15	104	150	150	20
Visayas	2027	11	4	16	101	150	150	20
Visayas	2027	11	4	17	99	150	150	20
Visayas	2027	11	4	18	114	150	150	20
Visayas	2027	11	4	19	108	150	150	20
Visayas	2027	11	4	20	107	150	150	20
Visayas	2027	11	4	21	102	150	150	20
Visayas	2027	11	4	22	97	150	150	20
Visayas	2027	11	4	23	89	150	150	20
Visayas	2027	11	4	24	83	150	150	20
Visayas	2027	11	5	1	77	150	150	20
Visayas	2027	11	5	2	74	150	150	20
Visayas	2027	11	5	3	71	150	150	20
Visayas	2027	11	5	4	69	150	150	20
Visayas	2027	11	5	5	70	150	150	20
Visayas	2027	11	5	6	71	150	150	20
Visayas	2027	11	5	7	74	150	150	20
Visayas	2027	11	5	8	91	150	150	20
Visayas	2027	11	5	9	109	150	150	20
Visayas	2027	11	5	10	123	150	150	20
Visayas	2027	11	5	11	128	150	150	20
Visayas	2027	11	5	12	127	150	150	20
Visayas	2027	11	5	13	129	150	150	20
Visayas	2027	11	5	14	134	150	150	20
Visayas	2027	11	5	15	133	150	150	20
Visayas	2027	11	5	16	129	150	150	20
Visayas	2027	11	5	17	120	150	150	20
Visayas	2027	11	5	18	131	150	150	20
Visayas	2027	11	5	19	123	150	150	20
Visayas	2027	11	5	20	119	150	150	20
Visayas	2027	11	5	21	114	150	150	20
Visayas	2027	11	5	22	105	150	150	20
Visayas	2027	11	5	23	97	150	150	20
Visayas	2027	11	5	24	90	150	150	20
Visayas	2027	11	6	1	85	150	150	20
Visayas	2027	11	6	2	76	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	6	3	72	150	150	20
Visayas	2027	11	6	4	75	150	150	20
Visayas	2027	11	6	5	75	150	150	20
Visayas	2027	11	6	6	76	150	150	20
Visayas	2027	11	6	7	76	150	150	20
Visayas	2027	11	6	8	87	150	150	20
Visayas	2027	11	6	9	101	150	150	20
Visayas	2027	11	6	10	109	150	150	20
Visayas	2027	11	6	11	115	150	150	20
Visayas	2027	11	6	12	111	150	150	20
Visayas	2027	11	6	13	113	150	150	20
Visayas	2027	11	6	14	117	150	150	20
Visayas	2027	11	6	15	116	150	150	20
Visayas	2027	11	6	16	112	150	150	20
Visayas	2027	11	6	17	108	150	150	20
Visayas	2027	11	6	18	121	150	150	20
Visayas	2027	11	6	19	115	150	150	20
Visayas	2027	11	6	20	111	150	150	20
Visayas	2027	11	6	21	106	150	150	20
Visayas	2027	11	6	22	98	150	150	20
Visayas	2027	11	6	23	91	150	150	20
Visayas	2027	11	6	24	85	150	150	20
Visayas	2027	11	7	1	80	150	150	20
Visayas	2027	11	7	2	77	150	150	20
Visayas	2027	11	7	3	73	150	150	20
Visayas	2027	11	7	4	70	150	150	20
Visayas	2027	11	7	5	70	150	150	20
Visayas	2027	11	7	6	69	150	150	20
Visayas	2027	11	7	7	68	150	150	20
Visayas	2027	11	7	8	74	150	150	20
Visayas	2027	11	7	9	84	150	150	20
Visayas	2027	11	7	10	88	150	150	20
Visayas	2027	11	7	11	94	150	150	20
Visayas	2027	11	7	12	94	150	150	20
Visayas	2027	11	7	13	96	150	150	20
Visayas	2027	11	7	14	100	150	150	20
Visayas	2027	11	7	15	101	150	150	20
Visayas	2027	11	7	16	99	150	150	20
Visayas	2027	11	7	17	99	150	150	20
Visayas	2027	11	7	18	116	150	150	20
Visayas	2027	11	7	19	109	150	150	20
Visayas	2027	11	7	20	108	150	150	20
Visayas	2027	11	7	21	104	150	150	20
Visayas	2027	11	7	22	98	150	150	20
Visayas	2027	11	7	23	91	150	150	20
Visayas	2027	11	7	24	84	150	150	20
Visayas	2027	11	8	1	79	150	150	20
Visayas	2027	11	8	2	76	150	150	20
Visayas	2027	11	8	3	72	150	150	20
Visayas	2027	11	8	4	71	150	150	20
Visayas	2027	11	8	5	76	150	150	20
Visayas	2027	11	8	6	82	150	150	20
Visayas	2027	11	8	7	77	150	150	20
Visayas	2027	11	8	8	97	150	150	20
Visayas	2027	11	8	9	117	150	150	20
Visayas	2027	11	8	10	128	150	150	20
Visayas	2027	11	8	11	132	150	150	20
Visayas	2027	11	8	12	128	150	150	20
Visayas	2027	11	8	13	130	150	150	20
Visayas	2027	11	8	14	137	150	150	20
Visayas	2027	11	8	15	135	150	150	20
Visayas	2027	11	8	16	134	150	150	20
Visayas	2027	11	8	17	126	150	150	20
Visayas	2027	11	8	18	135	150	150	20
Visayas	2027	11	8	19	128	150	150	20
Visayas	2027	11	8	20	123	150	150	20
Visayas	2027	11	8	21	116	150	150	20
Visayas	2027	11	8	22	109	150	150	20
Visayas	2027	11	8	23	100	150	150	20
Visayas	2027	11	8	24	93	150	150	20
Visayas	2027	11	9	1	85	150	150	20
Visayas	2027	11	9	2	82	150	150	20
Visayas	2027	11	9	3	79	150	150	20
Visayas	2027	11	9	4	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	9	5	82	150	150	20
Visayas	2027	11	9	6	86	150	150	20
Visayas	2027	11	9	7	80	150	150	20
Visayas	2027	11	9	8	95	150	150	20
Visayas	2027	11	9	9	116	150	150	20
Visayas	2027	11	9	10	123	150	150	20
Visayas	2027	11	9	11	127	150	150	20
Visayas	2027	11	9	12	121	150	150	20
Visayas	2027	11	9	13	122	150	150	20
Visayas	2027	11	9	14	128	150	150	20
Visayas	2027	11	9	15	128	150	150	20
Visayas	2027	11	9	16	125	150	150	20
Visayas	2027	11	9	17	121	150	150	20
Visayas	2027	11	9	18	130	150	150	20
Visayas	2027	11	9	19	121	150	150	20
Visayas	2027	11	9	20	118	150	150	20
Visayas	2027	11	9	21	111	150	150	20
Visayas	2027	11	9	22	103	150	150	20
Visayas	2027	11	9	23	94	150	150	20
Visayas	2027	11	9	24	87	150	150	20
Visayas	2027	11	10	1	84	150	150	20
Visayas	2027	11	10	2	81	150	150	20
Visayas	2027	11	10	3	77	150	150	20
Visayas	2027	11	10	4	74	150	150	20
Visayas	2027	11	10	5	80	150	150	20
Visayas	2027	11	10	6	83	150	150	20
Visayas	2027	11	10	7	78	150	150	20
Visayas	2027	11	10	8	90	150	150	20
Visayas	2027	11	10	9	107	150	150	20
Visayas	2027	11	10	10	115	150	150	20
Visayas	2027	11	10	11	118	150	150	20
Visayas	2027	11	10	12	114	150	150	20
Visayas	2027	11	10	13	115	150	150	20
Visayas	2027	11	10	14	124	150	150	20
Visayas	2027	11	10	15	121	150	150	20
Visayas	2027	11	10	16	121	150	150	20
Visayas	2027	11	10	17	118	150	150	20
Visayas	2027	11	10	18	129	150	150	20
Visayas	2027	11	10	19	120	150	150	20
Visayas	2027	11	10	20	115	150	150	20
Visayas	2027	11	10	21	109	150	150	20
Visayas	2027	11	10	22	99	150	150	20
Visayas	2027	11	10	23	91	150	150	20
Visayas	2027	11	10	24	85	150	150	20
Visayas	2027	11	11	1	80	150	150	20
Visayas	2027	11	11	2	76	150	150	20
Visayas	2027	11	11	3	74	150	150	20
Visayas	2027	11	11	4	73	150	150	20
Visayas	2027	11	11	5	78	150	150	20
Visayas	2027	11	11	6	83	150	150	20
Visayas	2027	11	11	7	78	150	150	20
Visayas	2027	11	11	8	96	150	150	20
Visayas	2027	11	11	9	115	150	150	20
Visayas	2027	11	11	10	123	150	150	20
Visayas	2027	11	11	11	130	150	150	20
Visayas	2027	11	11	12	126	150	150	20
Visayas	2027	11	11	13	127	150	150	20
Visayas	2027	11	11	14	134	150	150	20
Visayas	2027	11	11	15	133	150	150	20
Visayas	2027	11	11	16	132	150	150	20
Visayas	2027	11	11	17	124	150	150	20
Visayas	2027	11	11	18	134	150	150	20
Visayas	2027	11	11	19	127	150	150	20
Visayas	2027	11	11	20	123	150	150	20
Visayas	2027	11	11	21	114	150	150	20
Visayas	2027	11	11	22	107	150	150	20
Visayas	2027	11	11	23	98	150	150	20
Visayas	2027	11	11	24	91	150	150	20
Visayas	2027	11	12	1	85	150	150	20
Visayas	2027	11	12	2	79	150	150	20
Visayas	2027	11	12	3	76	150	150	20
Visayas	2027	11	12	4	76	150	150	20
Visayas	2027	11	12	5	78	150	150	20
Visayas	2027	11	12	6	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	12	7	78	150	150	20
Visayas	2027	11	12	8	95	150	150	20
Visayas	2027	11	12	9	116	150	150	20
Visayas	2027	11	12	10	127	150	150	20
Visayas	2027	11	12	11	130	150	150	20
Visayas	2027	11	12	12	127	150	150	20
Visayas	2027	11	12	13	129	150	150	20
Visayas	2027	11	12	14	136	150	150	20
Visayas	2027	11	12	15	137	150	150	20
Visayas	2027	11	12	16	134	150	150	20
Visayas	2027	11	12	17	125	150	150	20
Visayas	2027	11	12	18	133	150	150	20
Visayas	2027	11	12	19	125	150	150	20
Visayas	2027	11	12	20	121	150	150	20
Visayas	2027	11	12	21	114	150	150	20
Visayas	2027	11	12	22	106	150	150	20
Visayas	2027	11	12	23	98	150	150	20
Visayas	2027	11	12	24	91	150	150	20
Visayas	2027	11	13	1	87	150	150	20
Visayas	2027	11	13	2	83	150	150	20
Visayas	2027	11	13	3	79	150	150	20
Visayas	2027	11	13	4	76	150	150	20
Visayas	2027	11	13	5	78	150	150	20
Visayas	2027	11	13	6	78	150	150	20
Visayas	2027	11	13	7	76	150	150	20
Visayas	2027	11	13	8	87	150	150	20
Visayas	2027	11	13	9	101	150	150	20
Visayas	2027	11	13	10	110	150	150	20
Visayas	2027	11	13	11	114	150	150	20
Visayas	2027	11	13	12	111	150	150	20
Visayas	2027	11	13	13	113	150	150	20
Visayas	2027	11	13	14	121	150	150	20
Visayas	2027	11	13	15	119	150	150	20
Visayas	2027	11	13	16	115	150	150	20
Visayas	2027	11	13	17	112	150	150	20
Visayas	2027	11	13	18	127	150	150	20
Visayas	2027	11	13	19	118	150	150	20
Visayas	2027	11	13	20	115	150	150	20
Visayas	2027	11	13	21	110	150	150	20
Visayas	2027	11	13	22	103	150	150	20
Visayas	2027	11	13	23	97	150	150	20
Visayas	2027	11	13	24	90	150	150	20
Visayas	2027	11	14	1	84	150	150	20
Visayas	2027	11	14	2	81	150	150	20
Visayas	2027	11	14	3	77	150	150	20
Visayas	2027	11	14	4	74	150	150	20
Visayas	2027	11	14	5	74	150	150	20
Visayas	2027	11	14	6	74	150	150	20
Visayas	2027	11	14	7	74	150	150	20
Visayas	2027	11	14	8	79	150	150	20
Visayas	2027	11	14	9	85	150	150	20
Visayas	2027	11	14	10	93	150	150	20
Visayas	2027	11	14	11	98	150	150	20
Visayas	2027	11	14	12	99	150	150	20
Visayas	2027	11	14	13	101	150	150	20
Visayas	2027	11	14	14	104	150	150	20
Visayas	2027	11	14	15	104	150	150	20
Visayas	2027	11	14	16	101	150	150	20
Visayas	2027	11	14	17	101	150	150	20
Visayas	2027	11	14	18	119	150	150	20
Visayas	2027	11	14	19	113	150	150	20
Visayas	2027	11	14	20	111	150	150	20
Visayas	2027	11	14	21	107	150	150	20
Visayas	2027	11	14	22	102	150	150	20
Visayas	2027	11	14	23	94	150	150	20
Visayas	2027	11	14	24	88	150	150	20
Visayas	2027	11	15	1	82	150	150	20
Visayas	2027	11	15	2	78	150	150	20
Visayas	2027	11	15	3	73	150	150	20
Visayas	2027	11	15	4	72	150	150	20
Visayas	2027	11	15	5	77	150	150	20
Visayas	2027	11	15	6	81	150	150	20
Visayas	2027	11	15	7	76	150	150	20
Visayas	2027	11	15	8	94	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	15	9	117	150	150	20
Visayas	2027	11	15	10	126	150	150	20
Visayas	2027	11	15	11	132	150	150	20
Visayas	2027	11	15	12	131	150	150	20
Visayas	2027	11	15	13	132	150	150	20
Visayas	2027	11	15	14	138	150	150	20
Visayas	2027	11	15	15	137	150	150	20
Visayas	2027	11	15	16	135	150	150	20
Visayas	2027	11	15	17	127	150	150	20
Visayas	2027	11	15	18	135	150	150	20
Visayas	2027	11	15	19	130	150	150	20
Visayas	2027	11	15	20	126	150	150	20
Visayas	2027	11	15	21	118	150	150	20
Visayas	2027	11	15	22	109	150	150	20
Visayas	2027	11	15	23	97	150	150	20
Visayas	2027	11	15	24	92	150	150	20
Visayas	2027	11	16	1	87	150	150	20
Visayas	2027	11	16	2	84	150	150	20
Visayas	2027	11	16	3	80	150	150	20
Visayas	2027	11	16	4	78	150	150	20
Visayas	2027	11	16	5	82	150	150	20
Visayas	2027	11	16	6	86	150	150	20
Visayas	2027	11	16	7	81	150	150	20
Visayas	2027	11	16	8	96	150	150	20
Visayas	2027	11	16	9	116	150	150	20
Visayas	2027	11	16	10	125	150	150	20
Visayas	2027	11	16	11	128	150	150	20
Visayas	2027	11	16	12	125	150	150	20
Visayas	2027	11	16	13	127	150	150	20
Visayas	2027	11	16	14	136	150	150	20
Visayas	2027	11	16	15	134	150	150	20
Visayas	2027	11	16	16	131	150	150	20
Visayas	2027	11	16	17	125	150	150	20
Visayas	2027	11	16	18	133	150	150	20
Visayas	2027	11	16	19	125	150	150	20
Visayas	2027	11	16	20	121	150	150	20
Visayas	2027	11	16	21	114	150	150	20
Visayas	2027	11	16	22	105	150	150	20
Visayas	2027	11	16	23	97	150	150	20
Visayas	2027	11	16	24	90	150	150	20
Visayas	2027	11	17	1	85	150	150	20
Visayas	2027	11	17	2	82	150	150	20
Visayas	2027	11	17	3	79	150	150	20
Visayas	2027	11	17	4	77	150	150	20
Visayas	2027	11	17	5	81	150	150	20
Visayas	2027	11	17	6	86	150	150	20
Visayas	2027	11	17	7	81	150	150	20
Visayas	2027	11	17	8	97	150	150	20
Visayas	2027	11	17	9	118	150	150	20
Visayas	2027	11	17	10	127	150	150	20
Visayas	2027	11	17	11	129	150	150	20
Visayas	2027	11	17	12	127	150	150	20
Visayas	2027	11	17	13	128	150	150	20
Visayas	2027	11	17	14	135	150	150	20
Visayas	2027	11	17	15	134	150	150	20
Visayas	2027	11	17	16	131	150	150	20
Visayas	2027	11	17	17	124	150	150	20
Visayas	2027	11	17	18	134	150	150	20
Visayas	2027	11	17	19	127	150	150	20
Visayas	2027	11	17	20	121	150	150	20
Visayas	2027	11	17	21	116	150	150	20
Visayas	2027	11	17	22	107	150	150	20
Visayas	2027	11	17	23	97	150	150	20
Visayas	2027	11	17	24	92	150	150	20
Visayas	2027	11	18	1	86	150	150	20
Visayas	2027	11	18	2	82	150	150	20
Visayas	2027	11	18	3	78	150	150	20
Visayas	2027	11	18	4	77	150	150	20
Visayas	2027	11	18	5	80	150	150	20
Visayas	2027	11	18	6	85	150	150	20
Visayas	2027	11	18	7	80	150	150	20
Visayas	2027	11	18	8	95	150	150	20
Visayas	2027	11	18	9	113	150	150	20
Visayas	2027	11	18	10	120	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	18	11	123	150	150	20
Visayas	2027	11	18	12	117	150	150	20
Visayas	2027	11	18	13	116	150	150	20
Visayas	2027	11	18	14	120	150	150	20
Visayas	2027	11	18	15	119	150	150	20
Visayas	2027	11	18	16	116	150	150	20
Visayas	2027	11	18	17	114	150	150	20
Visayas	2027	11	18	18	121	150	150	20
Visayas	2027	11	18	19	112	150	150	20
Visayas	2027	11	18	20	107	150	150	20
Visayas	2027	11	18	21	100	150	150	20
Visayas	2027	11	18	22	93	150	150	20
Visayas	2027	11	18	23	86	150	150	20
Visayas	2027	11	18	24	81	150	150	20
Visayas	2027	11	19	1	76	150	150	20
Visayas	2027	11	19	2	72	150	150	20
Visayas	2027	11	19	3	70	150	150	20
Visayas	2027	11	19	4	69	150	150	20
Visayas	2027	11	19	5	73	150	150	20
Visayas	2027	11	19	6	79	150	150	20
Visayas	2027	11	19	7	76	150	150	20
Visayas	2027	11	19	8	91	150	150	20
Visayas	2027	11	19	9	109	150	150	20
Visayas	2027	11	19	10	120	150	150	20
Visayas	2027	11	19	11	123	150	150	20
Visayas	2027	11	19	12	120	150	150	20
Visayas	2027	11	19	13	119	150	150	20
Visayas	2027	11	19	14	130	150	150	20
Visayas	2027	11	19	15	128	150	150	20
Visayas	2027	11	19	16	126	150	150	20
Visayas	2027	11	19	17	120	150	150	20
Visayas	2027	11	19	18	129	150	150	20
Visayas	2027	11	19	19	118	150	150	20
Visayas	2027	11	19	20	113	150	150	20
Visayas	2027	11	19	21	108	150	150	20
Visayas	2027	11	19	22	100	150	150	20
Visayas	2027	11	19	23	92	150	150	20
Visayas	2027	11	19	24	87	150	150	20
Visayas	2027	11	20	1	82	150	150	20
Visayas	2027	11	20	2	79	150	150	20
Visayas	2027	11	20	3	75	150	150	20
Visayas	2027	11	20	4	74	150	150	20
Visayas	2027	11	20	5	74	150	150	20
Visayas	2027	11	20	6	77	150	150	20
Visayas	2027	11	20	7	75	150	150	20
Visayas	2027	11	20	8	83	150	150	20
Visayas	2027	11	20	9	95	150	150	20
Visayas	2027	11	20	10	99	150	150	20
Visayas	2027	11	20	11	100	150	150	20
Visayas	2027	11	20	12	94	150	150	20
Visayas	2027	11	20	13	92	150	150	20
Visayas	2027	11	20	14	97	150	150	20
Visayas	2027	11	20	15	95	150	150	20
Visayas	2027	11	20	16	95	150	150	20
Visayas	2027	11	20	17	98	150	150	20
Visayas	2027	11	20	18	108	150	150	20
Visayas	2027	11	20	19	103	150	150	20
Visayas	2027	11	20	20	95	150	150	20
Visayas	2027	11	20	21	91	150	150	20
Visayas	2027	11	20	22	84	150	150	20
Visayas	2027	11	20	23	78	150	150	20
Visayas	2027	11	20	24	73	150	150	20
Visayas	2027	11	21	1	69	150	150	20
Visayas	2027	11	21	2	67	150	150	20
Visayas	2027	11	21	3	64	150	150	20
Visayas	2027	11	21	4	64	150	150	20
Visayas	2027	11	21	5	64	150	150	20
Visayas	2027	11	21	6	65	150	150	20
Visayas	2027	11	21	7	63	150	150	20
Visayas	2027	11	21	8	66	150	150	20
Visayas	2027	11	21	9	73	150	150	20
Visayas	2027	11	21	10	79	150	150	20
Visayas	2027	11	21	11	82	150	150	20
Visayas	2027	11	21	12	82	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	21	13	83	150	150	20
Visayas	2027	11	21	14	83	150	150	20
Visayas	2027	11	21	15	81	150	150	20
Visayas	2027	11	21	16	83	150	150	20
Visayas	2027	11	21	17	88	150	150	20
Visayas	2027	11	21	18	104	150	150	20
Visayas	2027	11	21	19	99	150	150	20
Visayas	2027	11	21	20	96	150	150	20
Visayas	2027	11	21	21	90	150	150	20
Visayas	2027	11	21	22	83	150	150	20
Visayas	2027	11	21	23	76	150	150	20
Visayas	2027	11	21	24	70	150	150	20
Visayas	2027	11	22	1	66	150	150	20
Visayas	2027	11	22	2	64	150	150	20
Visayas	2027	11	22	3	62	150	150	20
Visayas	2027	11	22	4	62	150	150	20
Visayas	2027	11	22	5	65	150	150	20
Visayas	2027	11	22	6	70	150	150	20
Visayas	2027	11	22	7	69	150	150	20
Visayas	2027	11	22	8	79	150	150	20
Visayas	2027	11	22	9	96	150	150	20
Visayas	2027	11	22	10	105	150	150	20
Visayas	2027	11	22	11	108	150	150	20
Visayas	2027	11	22	12	107	150	150	20
Visayas	2027	11	22	13	107	150	150	20
Visayas	2027	11	22	14	114	150	150	20
Visayas	2027	11	22	15	114	150	150	20
Visayas	2027	11	22	16	111	150	150	20
Visayas	2027	11	22	17	109	150	150	20
Visayas	2027	11	22	18	119	150	150	20
Visayas	2027	11	22	19	108	150	150	20
Visayas	2027	11	22	20	103	150	150	20
Visayas	2027	11	22	21	96	150	150	20
Visayas	2027	11	22	22	90	150	150	20
Visayas	2027	11	22	23	83	150	150	20
Visayas	2027	11	22	24	77	150	150	20
Visayas	2027	11	23	1	73	150	150	20
Visayas	2027	11	23	2	70	150	150	20
Visayas	2027	11	23	3	68	150	150	20
Visayas	2027	11	23	4	67	150	150	20
Visayas	2027	11	23	5	68	150	150	20
Visayas	2027	11	23	6	76	150	150	20
Visayas	2027	11	23	7	71	150	150	20
Visayas	2027	11	23	8	85	150	150	20
Visayas	2027	11	23	9	102	150	150	20
Visayas	2027	11	23	10	111	150	150	20
Visayas	2027	11	23	11	114	150	150	20
Visayas	2027	11	23	12	109	150	150	20
Visayas	2027	11	23	13	108	150	150	20
Visayas	2027	11	23	14	113	150	150	20
Visayas	2027	11	23	15	112	150	150	20
Visayas	2027	11	23	16	109	150	150	20
Visayas	2027	11	23	17	110	150	150	20
Visayas	2027	11	23	18	120	150	150	20
Visayas	2027	11	23	19	110	150	150	20
Visayas	2027	11	23	20	104	150	150	20
Visayas	2027	11	23	21	98	150	150	20
Visayas	2027	11	23	22	89	150	150	20
Visayas	2027	11	23	23	82	150	150	20
Visayas	2027	11	23	24	75	150	150	20
Visayas	2027	11	24	1	72	150	150	20
Visayas	2027	11	24	2	69	150	150	20
Visayas	2027	11	24	3	67	150	150	20
Visayas	2027	11	24	4	67	150	150	20
Visayas	2027	11	24	5	70	150	150	20
Visayas	2027	11	24	6	78	150	150	20
Visayas	2027	11	24	7	73	150	150	20
Visayas	2027	11	24	8	88	150	150	20
Visayas	2027	11	24	9	105	150	150	20
Visayas	2027	11	24	10	114	150	150	20
Visayas	2027	11	24	11	119	150	150	20
Visayas	2027	11	24	12	114	150	150	20
Visayas	2027	11	24	13	118	150	150	20
Visayas	2027	11	24	14	124	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	24	15	122	150	150	20
Visayas	2027	11	24	16	119	150	150	20
Visayas	2027	11	24	17	115	150	150	20
Visayas	2027	11	24	18	125	150	150	20
Visayas	2027	11	24	19	115	150	150	20
Visayas	2027	11	24	20	110	150	150	20
Visayas	2027	11	24	21	102	150	150	20
Visayas	2027	11	24	22	94	150	150	20
Visayas	2027	11	24	23	87	150	150	20
Visayas	2027	11	24	24	81	150	150	20
Visayas	2027	11	25	1	77	150	150	20
Visayas	2027	11	25	2	72	150	150	20
Visayas	2027	11	25	3	70	150	150	20
Visayas	2027	11	25	4	69	150	150	20
Visayas	2027	11	25	5	73	150	150	20
Visayas	2027	11	25	6	79	150	150	20
Visayas	2027	11	25	7	75	150	150	20
Visayas	2027	11	25	8	91	150	150	20
Visayas	2027	11	25	9	110	150	150	20
Visayas	2027	11	25	10	120	150	150	20
Visayas	2027	11	25	11	126	150	150	20
Visayas	2027	11	25	12	123	150	150	20
Visayas	2027	11	25	13	126	150	150	20
Visayas	2027	11	25	14	135	150	150	20
Visayas	2027	11	25	15	135	150	150	20
Visayas	2027	11	25	16	131	150	150	20
Visayas	2027	11	25	17	125	150	150	20
Visayas	2027	11	25	18	134	150	150	20
Visayas	2027	11	25	19	125	150	150	20
Visayas	2027	11	25	20	122	150	150	20
Visayas	2027	11	25	21	114	150	150	20
Visayas	2027	11	25	22	104	150	150	20
Visayas	2027	11	25	23	96	150	150	20
Visayas	2027	11	25	24	89	150	150	20
Visayas	2027	11	26	1	84	150	150	20
Visayas	2027	11	26	2	80	150	150	20
Visayas	2027	11	26	3	75	150	150	20
Visayas	2027	11	26	4	74	150	150	20
Visayas	2027	11	26	5	78	150	150	20
Visayas	2027	11	26	6	82	150	150	20
Visayas	2027	11	26	7	78	150	150	20
Visayas	2027	11	26	8	93	150	150	20
Visayas	2027	11	26	9	113	150	150	20
Visayas	2027	11	26	10	120	150	150	20
Visayas	2027	11	26	11	124	150	150	20
Visayas	2027	11	26	12	121	150	150	20
Visayas	2027	11	26	13	119	150	150	20
Visayas	2027	11	26	14	124	150	150	20
Visayas	2027	11	26	15	123	150	150	20
Visayas	2027	11	26	16	118	150	150	20
Visayas	2027	11	26	17	113	150	150	20
Visayas	2027	11	26	18	124	150	150	20
Visayas	2027	11	26	19	116	150	150	20
Visayas	2027	11	26	20	111	150	150	20
Visayas	2027	11	26	21	106	150	150	20
Visayas	2027	11	26	22	98	150	150	20
Visayas	2027	11	26	23	90	150	150	20
Visayas	2027	11	26	24	84	150	150	20
Visayas	2027	11	27	1	79	150	150	20
Visayas	2027	11	27	2	74	150	150	20
Visayas	2027	11	27	3	69	150	150	20
Visayas	2027	11	27	4	67	150	150	20
Visayas	2027	11	27	5	68	150	150	20
Visayas	2027	11	27	6	68	150	150	20
Visayas	2027	11	27	7	67	150	150	20
Visayas	2027	11	27	8	78	150	150	20
Visayas	2027	11	27	9	90	150	150	20
Visayas	2027	11	27	10	99	150	150	20
Visayas	2027	11	27	11	104	150	150	20
Visayas	2027	11	27	12	100	150	150	20
Visayas	2027	11	27	13	101	150	150	20
Visayas	2027	11	27	14	107	150	150	20
Visayas	2027	11	27	15	105	150	150	20
Visayas	2027	11	27	16	102	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	27	17	102	150	150	20
Visayas	2027	11	27	18	117	150	150	20
Visayas	2027	11	27	19	112	150	150	20
Visayas	2027	11	27	20	108	150	150	20
Visayas	2027	11	27	21	104	150	150	20
Visayas	2027	11	27	22	96	150	150	20
Visayas	2027	11	27	23	88	150	150	20
Visayas	2027	11	27	24	83	150	150	20
Visayas	2027	11	28	1	79	150	150	20
Visayas	2027	11	28	2	74	150	150	20
Visayas	2027	11	28	3	71	150	150	20
Visayas	2027	11	28	4	68	150	150	20
Visayas	2027	11	28	5	69	150	150	20
Visayas	2027	11	28	6	68	150	150	20
Visayas	2027	11	28	7	66	150	150	20
Visayas	2027	11	28	8	71	150	150	20
Visayas	2027	11	28	9	78	150	150	20
Visayas	2027	11	28	10	85	150	150	20
Visayas	2027	11	28	11	87	150	150	20
Visayas	2027	11	28	12	88	150	150	20
Visayas	2027	11	28	13	88	150	150	20
Visayas	2027	11	28	14	92	150	150	20
Visayas	2027	11	28	15	90	150	150	20
Visayas	2027	11	28	16	91	150	150	20
Visayas	2027	11	28	17	94	150	150	20
Visayas	2027	11	28	18	110	150	150	20
Visayas	2027	11	28	19	105	150	150	20
Visayas	2027	11	28	20	101	150	150	20
Visayas	2027	11	28	21	98	150	150	20
Visayas	2027	11	28	22	91	150	150	20
Visayas	2027	11	28	23	84	150	150	20
Visayas	2027	11	28	24	79	150	150	20
Visayas	2027	11	29	1	78	150	150	20
Visayas	2027	11	29	2	73	150	150	20
Visayas	2027	11	29	3	69	150	150	20
Visayas	2027	11	29	4	69	150	150	20
Visayas	2027	11	29	5	72	150	150	20
Visayas	2027	11	29	6	78	150	150	20
Visayas	2027	11	29	7	74	150	150	20
Visayas	2027	11	29	8	87	150	150	20
Visayas	2027	11	29	9	109	150	150	20
Visayas	2027	11	29	10	120	150	150	20
Visayas	2027	11	29	11	124	150	150	20
Visayas	2027	11	29	12	120	150	150	20
Visayas	2027	11	29	13	121	150	150	20
Visayas	2027	11	29	14	130	150	150	20
Visayas	2027	11	29	15	129	150	150	20
Visayas	2027	11	29	16	126	150	150	20
Visayas	2027	11	29	17	123	150	150	20
Visayas	2027	11	29	18	132	150	150	20
Visayas	2027	11	29	19	125	150	150	20
Visayas	2027	11	29	20	121	150	150	20
Visayas	2027	11	29	21	115	150	150	20
Visayas	2027	11	29	22	105	150	150	20
Visayas	2027	11	29	23	97	150	150	20
Visayas	2027	11	29	24	89	150	150	20
Visayas	2027	11	30	1	75	150	150	20
Visayas	2027	11	30	2	71	150	150	20
Visayas	2027	11	30	3	68	150	150	20
Visayas	2027	11	30	4	66	150	150	20
Visayas	2027	11	30	5	67	150	150	20
Visayas	2027	11	30	6	69	150	150	20
Visayas	2027	11	30	7	69	150	150	20
Visayas	2027	11	30	8	78	150	150	20
Visayas	2027	11	30	9	91	150	150	20
Visayas	2027	11	30	10	93	150	150	20
Visayas	2027	11	30	11	105	150	150	20
Visayas	2027	11	30	12	105	150	150	20
Visayas	2027	11	30	13	106	150	150	20
Visayas	2027	11	30	14	112	150	150	20
Visayas	2027	11	30	15	111	150	150	20
Visayas	2027	11	30	16	107	150	150	20
Visayas	2027	11	30	17	106	150	150	20
Visayas	2027	11	30	18	123	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	11	30	19	117	150	150	20
Visayas	2027	11	30	20	114	150	150	20
Visayas	2027	11	30	21	110	150	150	20
Visayas	2027	11	30	22	100	150	150	20
Visayas	2027	11	30	23	92	150	150	20
Visayas	2027	11	30	24	86	150	150	20
Visayas	2027	12	1	1	86	150	150	20
Visayas	2027	12	1	2	82	150	150	20
Visayas	2027	12	1	3	72	150	150	20
Visayas	2027	12	1	4	77	150	150	20
Visayas	2027	12	1	5	81	150	150	20
Visayas	2027	12	1	6	85	150	150	20
Visayas	2027	12	1	7	80	150	150	20
Visayas	2027	12	1	8	97	150	150	20
Visayas	2027	12	1	9	116	150	150	20
Visayas	2027	12	1	10	125	150	150	20
Visayas	2027	12	1	11	130	150	150	20
Visayas	2027	12	1	12	127	150	150	20
Visayas	2027	12	1	13	125	150	150	20
Visayas	2027	12	1	14	132	150	150	20
Visayas	2027	12	1	15	130	150	150	20
Visayas	2027	12	1	16	128	150	150	20
Visayas	2027	12	1	17	123	150	150	20
Visayas	2027	12	1	18	132	150	150	20
Visayas	2027	12	1	19	123	150	150	20
Visayas	2027	12	1	20	120	150	150	20
Visayas	2027	12	1	21	115	150	150	20
Visayas	2027	12	1	22	105	150	150	20
Visayas	2027	12	1	23	96	150	150	20
Visayas	2027	12	1	24	88	150	150	20
Visayas	2027	12	2	1	83	150	150	20
Visayas	2027	12	2	2	79	150	150	20
Visayas	2027	12	2	3	76	150	150	20
Visayas	2027	12	2	4	74	150	150	20
Visayas	2027	12	2	5	78	150	150	20
Visayas	2027	12	2	6	82	150	150	20
Visayas	2027	12	2	7	77	150	150	20
Visayas	2027	12	2	8	91	150	150	20
Visayas	2027	12	2	9	113	150	150	20
Visayas	2027	12	2	10	120	150	150	20
Visayas	2027	12	2	11	125	150	150	20
Visayas	2027	12	2	12	122	150	150	20
Visayas	2027	12	2	13	124	150	150	20
Visayas	2027	12	2	14	130	150	150	20
Visayas	2027	12	2	15	129	150	150	20
Visayas	2027	12	2	16	125	150	150	20
Visayas	2027	12	2	17	120	150	150	20
Visayas	2027	12	2	18	131	150	150	20
Visayas	2027	12	2	19	124	150	150	20
Visayas	2027	12	2	20	118	150	150	20
Visayas	2027	12	2	21	113	150	150	20
Visayas	2027	12	2	22	104	150	150	20
Visayas	2027	12	2	23	97	150	150	20
Visayas	2027	12	2	24	90	150	150	20
Visayas	2027	12	3	1	85	150	150	20
Visayas	2027	12	3	2	81	150	150	20
Visayas	2027	12	3	3	77	150	150	20
Visayas	2027	12	3	4	75	150	150	20
Visayas	2027	12	3	5	79	150	150	20
Visayas	2027	12	3	6	83	150	150	20
Visayas	2027	12	3	7	79	150	150	20
Visayas	2027	12	3	8	93	150	150	20
Visayas	2027	12	3	9	111	150	150	20
Visayas	2027	12	3	10	123	150	150	20
Visayas	2027	12	3	11	125	150	150	20
Visayas	2027	12	3	12	121	150	150	20
Visayas	2027	12	3	13	123	150	150	20
Visayas	2027	12	3	14	133	150	150	20
Visayas	2027	12	3	15	131	150	150	20
Visayas	2027	12	3	16	126	150	150	20
Visayas	2027	12	3	17	120	150	150	20
Visayas	2027	12	3	18	129	150	150	20
Visayas	2027	12	3	19	122	150	150	20
Visayas	2027	12	3	20	117	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	3	21	114	150	150	20
Visayas	2027	12	3	22	105	150	150	20
Visayas	2027	12	3	23	96	150	150	20
Visayas	2027	12	3	24	90	150	150	20
Visayas	2027	12	4	1	84	150	150	20
Visayas	2027	12	4	2	79	150	150	20
Visayas	2027	12	4	3	75	150	150	20
Visayas	2027	12	4	4	74	150	150	20
Visayas	2027	12	4	5	75	150	150	20
Visayas	2027	12	4	6	76	150	150	20
Visayas	2027	12	4	7	74	150	150	20
Visayas	2027	12	4	8	82	150	150	20
Visayas	2027	12	4	9	96	150	150	20
Visayas	2027	12	4	10	104	150	150	20
Visayas	2027	12	4	11	109	150	150	20
Visayas	2027	12	4	12	105	150	150	20
Visayas	2027	12	4	13	107	150	150	20
Visayas	2027	12	4	14	114	150	150	20
Visayas	2027	12	4	15	113	150	150	20
Visayas	2027	12	4	16	109	150	150	20
Visayas	2027	12	4	17	106	150	150	20
Visayas	2027	12	4	18	122	150	150	20
Visayas	2027	12	4	19	114	150	150	20
Visayas	2027	12	4	20	112	150	150	20
Visayas	2027	12	4	21	107	150	150	20
Visayas	2027	12	4	22	100	150	150	20
Visayas	2027	12	4	23	91	150	150	20
Visayas	2027	12	4	24	85	150	150	20
Visayas	2027	12	5	1	80	150	150	20
Visayas	2027	12	5	2	75	150	150	20
Visayas	2027	12	5	3	71	150	150	20
Visayas	2027	12	5	4	70	150	150	20
Visayas	2027	12	5	5	69	150	150	20
Visayas	2027	12	5	6	69	150	150	20
Visayas	2027	12	5	7	69	150	150	20
Visayas	2027	12	5	8	73	150	150	20
Visayas	2027	12	5	9	81	150	150	20
Visayas	2027	12	5	10	87	150	150	20
Visayas	2027	12	5	11	91	150	150	20
Visayas	2027	12	5	12	92	150	150	20
Visayas	2027	12	5	13	94	150	150	20
Visayas	2027	12	5	14	94	150	150	20
Visayas	2027	12	5	15	95	150	150	20
Visayas	2027	12	5	16	94	150	150	20
Visayas	2027	12	5	17	94	150	150	20
Visayas	2027	12	5	18	114	150	150	20
Visayas	2027	12	5	19	110	150	150	20
Visayas	2027	12	5	20	107	150	150	20
Visayas	2027	12	5	21	104	150	150	20
Visayas	2027	12	5	22	96	150	150	20
Visayas	2027	12	5	23	88	150	150	20
Visayas	2027	12	5	24	83	150	150	20
Visayas	2027	12	6	1	78	150	150	20
Visayas	2027	12	6	2	73	150	150	20
Visayas	2027	12	6	3	69	150	150	20
Visayas	2027	12	6	4	69	150	150	20
Visayas	2027	12	6	5	72	150	150	20
Visayas	2027	12	6	6	78	150	150	20
Visayas	2027	12	6	7	74	150	150	20
Visayas	2027	12	6	8	87	150	150	20
Visayas	2027	12	6	9	109	150	150	20
Visayas	2027	12	6	10	120	150	150	20
Visayas	2027	12	6	11	124	150	150	20
Visayas	2027	12	6	12	120	150	150	20
Visayas	2027	12	6	13	121	150	150	20
Visayas	2027	12	6	14	130	150	150	20
Visayas	2027	12	6	15	129	150	150	20
Visayas	2027	12	6	16	126	150	150	20
Visayas	2027	12	6	17	123	150	150	20
Visayas	2027	12	6	18	132	150	150	20
Visayas	2027	12	6	19	125	150	150	20
Visayas	2027	12	6	20	121	150	150	20
Visayas	2027	12	6	21	115	150	150	20
Visayas	2027	12	6	22	105	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	6	23	97	150	150	20
Visayas	2027	12	6	24	89	150	150	20
Visayas	2027	12	7	1	84	150	150	20
Visayas	2027	12	7	2	79	150	150	20
Visayas	2027	12	7	3	76	150	150	20
Visayas	2027	12	7	4	75	150	150	20
Visayas	2027	12	7	5	79	150	150	20
Visayas	2027	12	7	6	83	150	150	20
Visayas	2027	12	7	7	78	150	150	20
Visayas	2027	12	7	8	94	150	150	20
Visayas	2027	12	7	9	115	150	150	20
Visayas	2027	12	7	10	125	150	150	20
Visayas	2027	12	7	11	131	150	150	20
Visayas	2027	12	7	12	128	150	150	20
Visayas	2027	12	7	13	127	150	150	20
Visayas	2027	12	7	14	137	150	150	20
Visayas	2027	12	7	15	135	150	150	20
Visayas	2027	12	7	16	133	150	150	20
Visayas	2027	12	7	17	124	150	150	20
Visayas	2027	12	7	18	135	150	150	20
Visayas	2027	12	7	19	128	150	150	20
Visayas	2027	12	7	20	122	150	150	20
Visayas	2027	12	7	21	117	150	150	20
Visayas	2027	12	7	22	107	150	150	20
Visayas	2027	12	7	23	98	150	150	20
Visayas	2027	12	7	24	91	150	150	20
Visayas	2027	12	8	1	78	150	150	20
Visayas	2027	12	8	2	73	150	150	20
Visayas	2027	12	8	3	71	150	150	20
Visayas	2027	12	8	4	69	150	150	20
Visayas	2027	12	8	5	70	150	150	20
Visayas	2027	12	8	6	72	150	150	20
Visayas	2027	12	8	7	72	150	150	20
Visayas	2027	12	8	8	81	150	150	20
Visayas	2027	12	8	9	93	150	150	20
Visayas	2027	12	8	10	101	150	150	20
Visayas	2027	12	8	11	108	150	150	20
Visayas	2027	12	8	12	108	150	150	20
Visayas	2027	12	8	13	110	150	150	20
Visayas	2027	12	8	14	115	150	150	20
Visayas	2027	12	8	15	114	150	150	20
Visayas	2027	12	8	16	112	150	150	20
Visayas	2027	12	8	17	110	150	150	20
Visayas	2027	12	8	18	124	150	150	20
Visayas	2027	12	8	19	118	150	150	20
Visayas	2027	12	8	20	113	150	150	20
Visayas	2027	12	8	21	109	150	150	20
Visayas	2027	12	8	22	101	150	150	20
Visayas	2027	12	8	23	93	150	150	20
Visayas	2027	12	8	24	88	150	150	20
Visayas	2027	12	9	1	80	150	150	20
Visayas	2027	12	9	2	74	150	150	20
Visayas	2027	12	9	3	72	150	150	20
Visayas	2027	12	9	4	71	150	150	20
Visayas	2027	12	9	5	74	150	150	20
Visayas	2027	12	9	6	81	150	150	20
Visayas	2027	12	9	7	76	150	150	20
Visayas	2027	12	9	8	90	150	150	20
Visayas	2027	12	9	9	109	150	150	20
Visayas	2027	12	9	10	119	150	150	20
Visayas	2027	12	9	11	124	150	150	20
Visayas	2027	12	9	12	119	150	150	20
Visayas	2027	12	9	13	120	150	150	20
Visayas	2027	12	9	14	128	150	150	20
Visayas	2027	12	9	15	126	150	150	20
Visayas	2027	12	9	16	124	150	150	20
Visayas	2027	12	9	17	118	150	150	20
Visayas	2027	12	9	18	128	150	150	20
Visayas	2027	12	9	19	118	150	150	20
Visayas	2027	12	9	20	112	150	150	20
Visayas	2027	12	9	21	106	150	150	20
Visayas	2027	12	9	22	98	150	150	20
Visayas	2027	12	9	23	90	150	150	20
Visayas	2027	12	9	24	83	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	10	1	89	150	150	20
Visayas	2027	12	10	2	85	150	150	20
Visayas	2027	12	10	3	81	150	150	20
Visayas	2027	12	10	4	78	150	150	20
Visayas	2027	12	10	5	80	150	150	20
Visayas	2027	12	10	6	84	150	150	20
Visayas	2027	12	10	7	83	150	150	20
Visayas	2027	12	10	8	95	150	150	20
Visayas	2027	12	10	9	114	150	150	20
Visayas	2027	12	10	10	120	150	150	20
Visayas	2027	12	10	11	124	150	150	20
Visayas	2027	12	10	12	124	150	150	20
Visayas	2027	12	10	13	124	150	150	20
Visayas	2027	12	10	14	132	150	150	20
Visayas	2027	12	10	15	134	150	150	20
Visayas	2027	12	10	16	131	150	150	20
Visayas	2027	12	10	17	124	150	150	20
Visayas	2027	12	10	18	136	150	150	20
Visayas	2027	12	10	19	130	150	150	20
Visayas	2027	12	10	20	125	150	150	20
Visayas	2027	12	10	21	118	150	150	20
Visayas	2027	12	10	22	109	150	150	20
Visayas	2027	12	10	23	102	150	150	20
Visayas	2027	12	10	24	94	150	150	20
Visayas	2027	12	11	1	84	150	150	20
Visayas	2027	12	11	2	80	150	150	20
Visayas	2027	12	11	3	76	150	150	20
Visayas	2027	12	11	4	74	150	150	20
Visayas	2027	12	11	5	74	150	150	20
Visayas	2027	12	11	6	76	150	150	20
Visayas	2027	12	11	7	74	150	150	20
Visayas	2027	12	11	8	81	150	150	20
Visayas	2027	12	11	9	95	150	150	20
Visayas	2027	12	11	10	104	150	150	20
Visayas	2027	12	11	11	110	150	150	20
Visayas	2027	12	11	12	108	150	150	20
Visayas	2027	12	11	13	110	150	150	20
Visayas	2027	12	11	14	115	150	150	20
Visayas	2027	12	11	15	113	150	150	20
Visayas	2027	12	11	16	112	150	150	20
Visayas	2027	12	11	17	111	150	150	20
Visayas	2027	12	11	18	126	150	150	20
Visayas	2027	12	11	19	119	150	150	20
Visayas	2027	12	11	20	115	150	150	20
Visayas	2027	12	11	21	110	150	150	20
Visayas	2027	12	11	22	103	150	150	20
Visayas	2027	12	11	23	95	150	150	20
Visayas	2027	12	11	24	89	150	150	20
Visayas	2027	12	12	1	84	150	150	20
Visayas	2027	12	12	2	80	150	150	20
Visayas	2027	12	12	3	76	150	150	20
Visayas	2027	12	12	4	73	150	150	20
Visayas	2027	12	12	5	74	150	150	20
Visayas	2027	12	12	6	75	150	150	20
Visayas	2027	12	12	7	71	150	150	20
Visayas	2027	12	12	8	73	150	150	20
Visayas	2027	12	12	9	80	150	150	20
Visayas	2027	12	12	10	87	150	150	20
Visayas	2027	12	12	11	91	150	150	20
Visayas	2027	12	12	12	93	150	150	20
Visayas	2027	12	12	13	95	150	150	20
Visayas	2027	12	12	14	99	150	150	20
Visayas	2027	12	12	15	100	150	150	20
Visayas	2027	12	12	16	98	150	150	20
Visayas	2027	12	12	17	99	150	150	20
Visayas	2027	12	12	18	118	150	150	20
Visayas	2027	12	12	19	114	150	150	20
Visayas	2027	12	12	20	110	150	150	20
Visayas	2027	12	12	21	107	150	150	20
Visayas	2027	12	12	22	100	150	150	20
Visayas	2027	12	12	23	91	150	150	20
Visayas	2027	12	12	24	84	150	150	20
Visayas	2027	12	13	1	79	150	150	20
Visayas	2027	12	13	2	75	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	13	3	72	150	150	20
Visayas	2027	12	13	4	70	150	150	20
Visayas	2027	12	13	5	73	150	150	20
Visayas	2027	12	13	6	80	150	150	20
Visayas	2027	12	13	7	76	150	150	20
Visayas	2027	12	13	8	91	150	150	20
Visayas	2027	12	13	9	111	150	150	20
Visayas	2027	12	13	10	122	150	150	20
Visayas	2027	12	13	11	127	150	150	20
Visayas	2027	12	13	12	125	150	150	20
Visayas	2027	12	13	13	126	150	150	20
Visayas	2027	12	13	14	135	150	150	20
Visayas	2027	12	13	15	134	150	150	20
Visayas	2027	12	13	16	131	150	150	20
Visayas	2027	12	13	17	124	150	150	20
Visayas	2027	12	13	18	133	150	150	20
Visayas	2027	12	13	19	126	150	150	20
Visayas	2027	12	13	20	120	150	150	20
Visayas	2027	12	13	21	115	150	150	20
Visayas	2027	12	13	22	105	150	150	20
Visayas	2027	12	13	23	97	150	150	20
Visayas	2027	12	13	24	89	150	150	20
Visayas	2027	12	14	1	84	150	150	20
Visayas	2027	12	14	2	81	150	150	20
Visayas	2027	12	14	3	78	150	150	20
Visayas	2027	12	14	4	75	150	150	20
Visayas	2027	12	14	5	79	150	150	20
Visayas	2027	12	14	6	82	150	150	20
Visayas	2027	12	14	7	78	150	150	20
Visayas	2027	12	14	8	92	150	150	20
Visayas	2027	12	14	9	113	150	150	20
Visayas	2027	12	14	10	123	150	150	20
Visayas	2027	12	14	11	128	150	150	20
Visayas	2027	12	14	12	123	150	150	20
Visayas	2027	12	14	13	126	150	150	20
Visayas	2027	12	14	14	134	150	150	20
Visayas	2027	12	14	15	132	150	150	20
Visayas	2027	12	14	16	130	150	150	20
Visayas	2027	12	14	17	122	150	150	20
Visayas	2027	12	14	18	132	150	150	20
Visayas	2027	12	14	19	126	150	150	20
Visayas	2027	12	14	20	122	150	150	20
Visayas	2027	12	14	21	117	150	150	20
Visayas	2027	12	14	22	108	150	150	20
Visayas	2027	12	14	23	98	150	150	20
Visayas	2027	12	14	24	91	150	150	20
Visayas	2027	12	15	1	85	150	150	20
Visayas	2027	12	15	2	81	150	150	20
Visayas	2027	12	15	3	78	150	150	20
Visayas	2027	12	15	4	75	150	150	20
Visayas	2027	12	15	5	78	150	150	20
Visayas	2027	12	15	6	82	150	150	20
Visayas	2027	12	15	7	79	150	150	20
Visayas	2027	12	15	8	93	150	150	20
Visayas	2027	12	15	9	113	150	150	20
Visayas	2027	12	15	10	124	150	150	20
Visayas	2027	12	15	11	128	150	150	20
Visayas	2027	12	15	12	127	150	150	20
Visayas	2027	12	15	13	127	150	150	20
Visayas	2027	12	15	14	134	150	150	20
Visayas	2027	12	15	15	133	150	150	20
Visayas	2027	12	15	16	131	150	150	20
Visayas	2027	12	15	17	123	150	150	20
Visayas	2027	12	15	18	134	150	150	20
Visayas	2027	12	15	19	129	150	150	20
Visayas	2027	12	15	20	124	150	150	20
Visayas	2027	12	15	21	119	150	150	20
Visayas	2027	12	15	22	109	150	150	20
Visayas	2027	12	15	23	100	150	150	20
Visayas	2027	12	15	24	93	150	150	20
Visayas	2027	12	16	1	88	150	150	20
Visayas	2027	12	16	2	83	150	150	20
Visayas	2027	12	16	3	79	150	150	20
Visayas	2027	12	16	4	77	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	16	5	79	150	150	20
Visayas	2027	12	16	6	83	150	150	20
Visayas	2027	12	16	7	81	150	150	20
Visayas	2027	12	16	8	93	150	150	20
Visayas	2027	12	16	9	114	150	150	20
Visayas	2027	12	16	10	124	150	150	20
Visayas	2027	12	16	11	128	150	150	20
Visayas	2027	12	16	12	126	150	150	20
Visayas	2027	12	16	13	128	150	150	20
Visayas	2027	12	16	14	135	150	150	20
Visayas	2027	12	16	15	137	150	150	20
Visayas	2027	12	16	16	134	150	150	20
Visayas	2027	12	16	17	127	150	150	20
Visayas	2027	12	16	18	137	150	150	20
Visayas	2027	12	16	19	130	150	150	20
Visayas	2027	12	16	20	125	150	150	20
Visayas	2027	12	16	21	120	150	150	20
Visayas	2027	12	16	22	110	150	150	20
Visayas	2027	12	16	23	103	150	150	20
Visayas	2027	12	16	24	96	150	150	20
Visayas	2027	12	17	1	89	150	150	20
Visayas	2027	12	17	2	85	150	150	20
Visayas	2027	12	17	3	81	150	150	20
Visayas	2027	12	17	4	78	150	150	20
Visayas	2027	12	17	5	80	150	150	20
Visayas	2027	12	17	6	84	150	150	20
Visayas	2027	12	17	7	83	150	150	20
Visayas	2027	12	17	8	95	150	150	20
Visayas	2027	12	17	9	114	150	150	20
Visayas	2027	12	17	10	120	150	150	20
Visayas	2027	12	17	11	124	150	150	20
Visayas	2027	12	17	12	124	150	150	20
Visayas	2027	12	17	13	124	150	150	20
Visayas	2027	12	17	14	132	150	150	20
Visayas	2027	12	17	15	134	150	150	20
Visayas	2027	12	17	16	131	150	150	20
Visayas	2027	12	17	17	124	150	150	20
Visayas	2027	12	17	18	136	150	150	20
Visayas	2027	12	17	19	130	150	150	20
Visayas	2027	12	17	20	125	150	150	20
Visayas	2027	12	17	21	118	150	150	20
Visayas	2027	12	17	22	109	150	150	20
Visayas	2027	12	17	23	102	150	150	20
Visayas	2027	12	17	24	94	150	150	20
Visayas	2027	12	18	1	89	150	150	20
Visayas	2027	12	18	2	83	150	150	20
Visayas	2027	12	18	3	80	150	150	20
Visayas	2027	12	18	4	77	150	150	20
Visayas	2027	12	18	5	76	150	150	20
Visayas	2027	12	18	6	79	150	150	20
Visayas	2027	12	18	7	78	150	150	20
Visayas	2027	12	18	8	85	150	150	20
Visayas	2027	12	18	9	100	150	150	20
Visayas	2027	12	18	10	110	150	150	20
Visayas	2027	12	18	11	117	150	150	20
Visayas	2027	12	18	12	113	150	150	20
Visayas	2027	12	18	13	114	150	150	20
Visayas	2027	12	18	14	119	150	150	20
Visayas	2027	12	18	15	119	150	150	20
Visayas	2027	12	18	16	115	150	150	20
Visayas	2027	12	18	17	111	150	150	20
Visayas	2027	12	18	18	125	150	150	20
Visayas	2027	12	18	19	120	150	150	20
Visayas	2027	12	18	20	115	150	150	20
Visayas	2027	12	18	21	112	150	150	20
Visayas	2027	12	18	22	105	150	150	20
Visayas	2027	12	18	23	96	150	150	20
Visayas	2027	12	18	24	90	150	150	20
Visayas	2027	12	19	1	84	150	150	20
Visayas	2027	12	19	2	80	150	150	20
Visayas	2027	12	19	3	76	150	150	20
Visayas	2027	12	19	4	73	150	150	20
Visayas	2027	12	19	5	72	150	150	20
Visayas	2027	12	19	6	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	19	7	72	150	150	20
Visayas	2027	12	19	8	76	150	150	20
Visayas	2027	12	19	9	82	150	150	20
Visayas	2027	12	19	10	88	150	150	20
Visayas	2027	12	19	11	89	150	150	20
Visayas	2027	12	19	12	89	150	150	20
Visayas	2027	12	19	13	90	150	150	20
Visayas	2027	12	19	14	90	150	150	20
Visayas	2027	12	19	15	90	150	150	20
Visayas	2027	12	19	16	90	150	150	20
Visayas	2027	12	19	17	93	150	150	20
Visayas	2027	12	19	18	109	150	150	20
Visayas	2027	12	19	19	106	150	150	20
Visayas	2027	12	19	20	104	150	150	20
Visayas	2027	12	19	21	100	150	150	20
Visayas	2027	12	19	22	95	150	150	20
Visayas	2027	12	19	23	88	150	150	20
Visayas	2027	12	19	24	82	150	150	20
Visayas	2027	12	20	1	78	150	150	20
Visayas	2027	12	20	2	74	150	150	20
Visayas	2027	12	20	3	70	150	150	20
Visayas	2027	12	20	4	69	150	150	20
Visayas	2027	12	20	5	67	150	150	20
Visayas	2027	12	20	6	71	150	150	20
Visayas	2027	12	20	7	74	150	150	20
Visayas	2027	12	20	8	84	150	150	20
Visayas	2027	12	20	9	98	150	150	20
Visayas	2027	12	20	10	107	150	150	20
Visayas	2027	12	20	11	108	150	150	20
Visayas	2027	12	20	12	103	150	150	20
Visayas	2027	12	20	13	100	150	150	20
Visayas	2027	12	20	14	105	150	150	20
Visayas	2027	12	20	15	106	150	150	20
Visayas	2027	12	20	16	105	150	150	20
Visayas	2027	12	20	17	107	150	150	20
Visayas	2027	12	20	18	113	150	150	20
Visayas	2027	12	20	19	105	150	150	20
Visayas	2027	12	20	20	102	150	150	20
Visayas	2027	12	20	21	96	150	150	20
Visayas	2027	12	20	22	88	150	150	20
Visayas	2027	12	20	23	81	150	150	20
Visayas	2027	12	20	24	76	150	150	20
Visayas	2027	12	21	1	71	150	150	20
Visayas	2027	12	21	2	69	150	150	20
Visayas	2027	12	21	3	68	150	150	20
Visayas	2027	12	21	4	68	150	150	20
Visayas	2027	12	21	5	69	150	150	20
Visayas	2027	12	21	6	72	150	150	20
Visayas	2027	12	21	7	76	150	150	20
Visayas	2027	12	21	8	89	150	150	20
Visayas	2027	12	21	9	108	150	150	20
Visayas	2027	12	21	10	114	150	150	20
Visayas	2027	12	21	11	117	150	150	20
Visayas	2027	12	21	12	113	150	150	20
Visayas	2027	12	21	13	112	150	150	20
Visayas	2027	12	21	14	119	150	150	20
Visayas	2027	12	21	15	122	150	150	20
Visayas	2027	12	21	16	120	150	150	20
Visayas	2027	12	21	17	116	150	150	20
Visayas	2027	12	21	18	126	150	150	20
Visayas	2027	12	21	19	118	150	150	20
Visayas	2027	12	21	20	111	150	150	20
Visayas	2027	12	21	21	107	150	150	20
Visayas	2027	12	21	22	99	150	150	20
Visayas	2027	12	21	23	91	150	150	20
Visayas	2027	12	21	24	85	150	150	20
Visayas	2027	12	22	1	80	150	150	20
Visayas	2027	12	22	2	74	150	150	20
Visayas	2027	12	22	3	73	150	150	20
Visayas	2027	12	22	4	72	150	150	20
Visayas	2027	12	22	5	73	150	150	20
Visayas	2027	12	22	6	76	150	150	20
Visayas	2027	12	22	7	78	150	150	20
Visayas	2027	12	22	8	91	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	22	9	109	150	150	20
Visayas	2027	12	22	10	120	150	150	20
Visayas	2027	12	22	11	124	150	150	20
Visayas	2027	12	22	12	121	150	150	20
Visayas	2027	12	22	13	122	150	150	20
Visayas	2027	12	22	14	130	150	150	20
Visayas	2027	12	22	15	128	150	150	20
Visayas	2027	12	22	16	126	150	150	20
Visayas	2027	12	22	17	119	150	150	20
Visayas	2027	12	22	18	129	150	150	20
Visayas	2027	12	22	19	122	150	150	20
Visayas	2027	12	22	20	115	150	150	20
Visayas	2027	12	22	21	113	150	150	20
Visayas	2027	12	22	22	103	150	150	20
Visayas	2027	12	22	23	95	150	150	20
Visayas	2027	12	22	24	88	150	150	20
Visayas	2027	12	23	1	81	150	150	20
Visayas	2027	12	23	2	78	150	150	20
Visayas	2027	12	23	3	74	150	150	20
Visayas	2027	12	23	4	72	150	150	20
Visayas	2027	12	23	5	73	150	150	20
Visayas	2027	12	23	6	73	150	150	20
Visayas	2027	12	23	7	76	150	150	20
Visayas	2027	12	23	8	93	150	150	20
Visayas	2027	12	23	9	110	150	150	20
Visayas	2027	12	23	10	119	150	150	20
Visayas	2027	12	23	11	125	150	150	20
Visayas	2027	12	23	12	122	150	150	20
Visayas	2027	12	23	13	123	150	150	20
Visayas	2027	12	23	14	130	150	150	20
Visayas	2027	12	23	15	130	150	150	20
Visayas	2027	12	23	16	128	150	150	20
Visayas	2027	12	23	17	120	150	150	20
Visayas	2027	12	23	18	131	150	150	20
Visayas	2027	12	23	19	123	150	150	20
Visayas	2027	12	23	20	119	150	150	20
Visayas	2027	12	23	21	114	150	150	20
Visayas	2027	12	23	22	105	150	150	20
Visayas	2027	12	23	23	98	150	150	20
Visayas	2027	12	23	24	91	150	150	20
Visayas	2027	12	24	1	84	150	150	20
Visayas	2027	12	24	2	80	150	150	20
Visayas	2027	12	24	3	77	150	150	20
Visayas	2027	12	24	4	75	150	150	20
Visayas	2027	12	24	5	74	150	150	20
Visayas	2027	12	24	6	77	150	150	20
Visayas	2027	12	24	7	79	150	150	20
Visayas	2027	12	24	8	92	150	150	20
Visayas	2027	12	24	9	111	150	150	20
Visayas	2027	12	24	10	117	150	150	20
Visayas	2027	12	24	11	122	150	150	20
Visayas	2027	12	24	12	119	150	150	20
Visayas	2027	12	24	13	121	150	150	20
Visayas	2027	12	24	14	127	150	150	20
Visayas	2027	12	24	15	126	150	150	20
Visayas	2027	12	24	16	123	150	150	20
Visayas	2027	12	24	17	118	150	150	20
Visayas	2027	12	24	18	129	150	150	20
Visayas	2027	12	24	19	121	150	150	20
Visayas	2027	12	24	20	117	150	150	20
Visayas	2027	12	24	21	112	150	150	20
Visayas	2027	12	24	22	104	150	150	20
Visayas	2027	12	24	23	97	150	150	20
Visayas	2027	12	24	24	90	150	150	20
Visayas	2027	12	25	1	77	150	150	20
Visayas	2027	12	25	2	73	150	150	20
Visayas	2027	12	25	3	70	150	150	20
Visayas	2027	12	25	4	67	150	150	20
Visayas	2027	12	25	5	65	150	150	20
Visayas	2027	12	25	6	65	150	150	20
Visayas	2027	12	25	7	64	150	150	20
Visayas	2027	12	25	8	64	150	150	20
Visayas	2027	12	25	9	68	150	150	20
Visayas	2027	12	25	10	71	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	25	11	74	150	150	20
Visayas	2027	12	25	12	75	150	150	20
Visayas	2027	12	25	13	74	150	150	20
Visayas	2027	12	25	14	76	150	150	20
Visayas	2027	12	25	15	76	150	150	20
Visayas	2027	12	25	16	77	150	150	20
Visayas	2027	12	25	17	80	150	150	20
Visayas	2027	12	25	18	96	150	150	20
Visayas	2027	12	25	19	94	150	150	20
Visayas	2027	12	25	20	91	150	150	20
Visayas	2027	12	25	21	86	150	150	20
Visayas	2027	12	25	22	81	150	150	20
Visayas	2027	12	25	23	76	150	150	20
Visayas	2027	12	25	24	72	150	150	20
Visayas	2027	12	26	1	80	150	150	20
Visayas	2027	12	26	2	75	150	150	20
Visayas	2027	12	26	3	72	150	150	20
Visayas	2027	12	26	4	70	150	150	20
Visayas	2027	12	26	5	70	150	150	20
Visayas	2027	12	26	6	70	150	150	20
Visayas	2027	12	26	7	69	150	150	20
Visayas	2027	12	26	8	74	150	150	20
Visayas	2027	12	26	9	80	150	150	20
Visayas	2027	12	26	10	86	150	150	20
Visayas	2027	12	26	11	88	150	150	20
Visayas	2027	12	26	12	89	150	150	20
Visayas	2027	12	26	13	92	150	150	20
Visayas	2027	12	26	14	93	150	150	20
Visayas	2027	12	26	15	94	150	150	20
Visayas	2027	12	26	16	94	150	150	20
Visayas	2027	12	26	17	95	150	150	20
Visayas	2027	12	26	18	110	150	150	20
Visayas	2027	12	26	19	103	150	150	20
Visayas	2027	12	26	20	95	150	150	20
Visayas	2027	12	26	21	89	150	150	20
Visayas	2027	12	26	22	86	150	150	20
Visayas	2027	12	26	23	83	150	150	20
Visayas	2027	12	26	24	81	150	150	20
Visayas	2027	12	27	1	78	150	150	20
Visayas	2027	12	27	2	74	150	150	20
Visayas	2027	12	27	3	70	150	150	20
Visayas	2027	12	27	4	69	150	150	20
Visayas	2027	12	27	5	67	150	150	20
Visayas	2027	12	27	6	71	150	150	20
Visayas	2027	12	27	7	74	150	150	20
Visayas	2027	12	27	8	84	150	150	20
Visayas	2027	12	27	9	98	150	150	20
Visayas	2027	12	27	10	107	150	150	20
Visayas	2027	12	27	11	108	150	150	20
Visayas	2027	12	27	12	103	150	150	20
Visayas	2027	12	27	13	100	150	150	20
Visayas	2027	12	27	14	105	150	150	20
Visayas	2027	12	27	15	106	150	150	20
Visayas	2027	12	27	16	105	150	150	20
Visayas	2027	12	27	17	107	150	150	20
Visayas	2027	12	27	18	113	150	150	20
Visayas	2027	12	27	19	105	150	150	20
Visayas	2027	12	27	20	102	150	150	20
Visayas	2027	12	27	21	96	150	150	20
Visayas	2027	12	27	22	88	150	150	20
Visayas	2027	12	27	23	81	150	150	20
Visayas	2027	12	27	24	76	150	150	20
Visayas	2027	12	28	1	68	150	150	20
Visayas	2027	12	28	2	65	150	150	20
Visayas	2027	12	28	3	64	150	150	20
Visayas	2027	12	28	4	63	150	150	20
Visayas	2027	12	28	5	63	150	150	20
Visayas	2027	12	28	6	64	150	150	20
Visayas	2027	12	28	7	66	150	150	20
Visayas	2027	12	28	8	72	150	150	20
Visayas	2027	12	28	9	85	150	150	20
Visayas	2027	12	28	10	91	150	150	20
Visayas	2027	12	28	11	97	150	150	20
Visayas	2027	12	28	12	97	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	28	13	95	150	150	20
Visayas	2027	12	28	14	99	150	150	20
Visayas	2027	12	28	15	97	150	150	20
Visayas	2027	12	28	16	97	150	150	20
Visayas	2027	12	28	17	98	150	150	20
Visayas	2027	12	28	18	112	150	150	20
Visayas	2027	12	28	19	109	150	150	20
Visayas	2027	12	28	20	105	150	150	20
Visayas	2027	12	28	21	100	150	150	20
Visayas	2027	12	28	22	93	150	150	20
Visayas	2027	12	28	23	86	150	150	20
Visayas	2027	12	28	24	80	150	150	20
Visayas	2027	12	29	1	74	150	150	20
Visayas	2027	12	29	2	71	150	150	20
Visayas	2027	12	29	3	69	150	150	20
Visayas	2027	12	29	4	67	150	150	20
Visayas	2027	12	29	5	67	150	150	20
Visayas	2027	12	29	6	70	150	150	20
Visayas	2027	12	29	7	73	150	150	20
Visayas	2027	12	29	8	83	150	150	20
Visayas	2027	12	29	9	101	150	150	20
Visayas	2027	12	29	10	110	150	150	20
Visayas	2027	12	29	11	114	150	150	20
Visayas	2027	12	29	12	112	150	150	20
Visayas	2027	12	29	13	114	150	150	20
Visayas	2027	12	29	14	117	150	150	20
Visayas	2027	12	29	15	116	150	150	20
Visayas	2027	12	29	16	113	150	150	20
Visayas	2027	12	29	17	109	150	150	20
Visayas	2027	12	29	18	115	150	150	20
Visayas	2027	12	29	19	108	150	150	20
Visayas	2027	12	29	20	105	150	150	20
Visayas	2027	12	29	21	100	150	150	20
Visayas	2027	12	29	22	93	150	150	20
Visayas	2027	12	29	23	86	150	150	20
Visayas	2027	12	29	24	80	150	150	20
Visayas	2027	12	30	1	80	150	150	20
Visayas	2027	12	30	2	76	150	150	20
Visayas	2027	12	30	3	73	150	150	20
Visayas	2027	12	30	4	71	150	150	20
Visayas	2027	12	30	5	70	150	150	20
Visayas	2027	12	30	6	71	150	150	20
Visayas	2027	12	30	7	72	150	150	20
Visayas	2027	12	30	8	78	150	150	20
Visayas	2027	12	30	9	86	150	150	20
Visayas	2027	12	30	10	93	150	150	20
Visayas	2027	12	30	11	98	150	150	20
Visayas	2027	12	30	12	97	150	150	20
Visayas	2027	12	30	13	98	150	150	20
Visayas	2027	12	30	14	102	150	150	20
Visayas	2027	12	30	15	101	150	150	20
Visayas	2027	12	30	16	98	150	150	20
Visayas	2027	12	30	17	98	150	150	20
Visayas	2027	12	30	18	114	150	150	20
Visayas	2027	12	30	19	112	150	150	20
Visayas	2027	12	30	20	108	150	150	20
Visayas	2027	12	30	21	104	150	150	20
Visayas	2027	12	30	22	97	150	150	20
Visayas	2027	12	30	23	90	150	150	20
Visayas	2027	12	30	24	85	150	150	20
Visayas	2027	12	31	1	79	150	150	20
Visayas	2027	12	31	2	75	150	150	20
Visayas	2027	12	31	3	71	150	150	20
Visayas	2027	12	31	4	69	150	150	20
Visayas	2027	12	31	5	68	150	150	20
Visayas	2027	12	31	6	67	150	150	20
Visayas	2027	12	31	7	69	150	150	20
Visayas	2027	12	31	8	74	150	150	20
Visayas	2027	12	31	9	83	150	150	20
Visayas	2027	12	31	10	86	150	150	20
Visayas	2027	12	31	11	90	150	150	20
Visayas	2027	12	31	12	92	150	150	20
Visayas	2027	12	31	13	95	150	150	20
Visayas	2027	12	31	14	97	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.

ANNEX E Three Year Projected Hourly Levels of AS Requirement for Visayas

GRID	YEAR	MONTH	DAY	HOUR	REGULATING RESERVE (MW)	CONTINGENCY RESERVE (MW)	DISPATCHABLE RESERVE (MW)	BLACK START (Min MW per Restoration Highway)
Visayas	2027	12	31	15	99	150	150	20
Visayas	2027	12	31	16	99	150	150	20
Visayas	2027	12	31	17	99	150	150	20
Visayas	2027	12	31	18	113	150	150	20
Visayas	2027	12	31	19	109	150	150	20
Visayas	2027	12	31	20	102	150	150	20
Visayas	2027	12	31	21	97	150	150	20
Visayas	2027	12	31	22	98	150	150	20
Visayas	2027	12	31	23	96	150	150	20
Visayas	2027	12	31	24	95	150	150	20

NOTE: RR Requirement is equivalent to the hourly average per month of the 4% Demand Projection, based on Plexos Profiles using DOE's 2020-2040 Annual Peak Demand for Luzon, Visayas and Mindanao Grids, dated August 24, 2020. CR and DR are based on Net Capacity of the projected highest and second highest generating unit, respectively, for succeeding years.