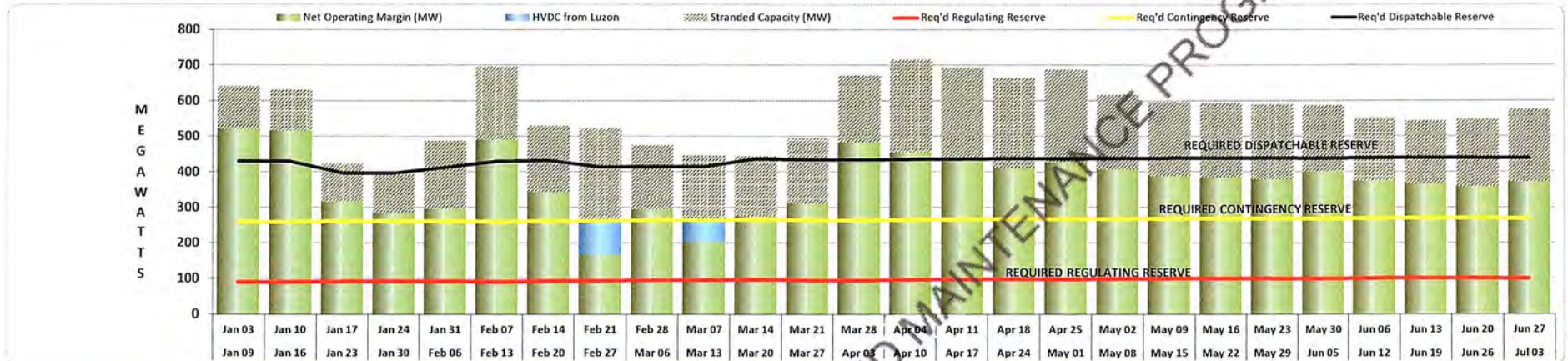




## VISAYAS GRID 2022 Weekly Demand, Supply and Operating Margin Profile Afternoon Peak Scenario



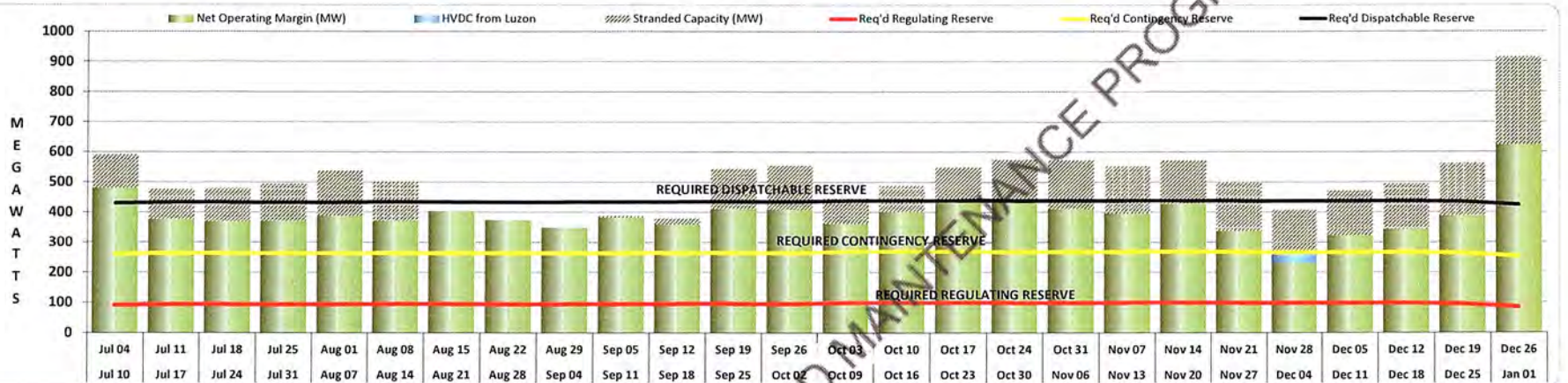
2022	JANUARY TO JUNE 2022																									
	Jan 03	Jan 10	Jan 17	Jan 24	Jan 31	Feb 07	Feb 14	Feb 21	Feb 28	Mar 07	Mar 14	Mar 21	Mar 28	Apr 04	Apr 11	Apr 18	Apr 25	May 02	May 09	May 16	May 23	May 30	Jun 06	Jun 13	Jun 20	Jun 27
	Jan 09	Jan 16	Jan 23	Jan 30	Feb 06	Feb 13	Feb 20	Feb 27	Mar 06	Mar 13	Mar 20	Mar 27	Apr 03	Apr 10	Apr 17	Apr 24	May 01	May 08	May 15	May 22	May 29	Jun 05	Jun 12	Jun 19	Jun 26	Jul 03
Available Capacity (MW)	2,917	2,917	2,748	2,712	2,816	2,978	2,875	2,795	2,882	2,782	2,904	2,900	3,054	3,150	3,147	3,150	3,150	3,106	3,105	3,105	3,106	3,073	3,073	3,073	3,073	3,073
Thermal	1,211	1,211	1,042	1,042	1,110	1,279	1,176	1,089	1,110	1,007	1,136	1,136	1,279	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361
Geothermal	727	727	727	691	691	691	691	691	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727
Diesel	456	456	456	456	456	450	450	456	456	456	456	450	446	456	456	456	456	456	456	456	456	456	456	456	456	456
Power Barges	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Hydro	22	22	22	22	22	22	22	22	19	22	22	22	22	22	19	22	22	22	21	21	22	22	22	22	22	22
Biomass	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153
Solar	230	230	230	230	274	274	274	274	304	304	304	304	304	304	325	325	325	325	302	302	302	302	259	259	259	259
Wind	42	42	42	42	34	34	34	34	37	37	37	37	37	37	30	30	30	30	9	9	9	9	19	19	19	19
BESS																										
System Load (MW)	2,275	2,285	2,324	2,317	2,328	2,282	2,346	2,365	2,406	2,394	2,460	2,404	2,381	2,432	2,453	2,484	2,462	2,488	2,507	2,510	2,515	2,484	2,519	2,528	2,524	2,495
Operating Margin (MW)	642	632	424	395	488	696	529	430	476	388	444	496	673	718	694	666	688	618	598	595	591	589	554	545	549	578
Stranded Capacity (MW)	119	115	106	109	190	205	185	260	180	182	168	183	189	260	255	254	261	210	208	209	211	187	178	178	189	204
Net Operating Margin (MW)	523	517	318	286	298	491	344	170	296	206	276	313	484	458	439	412	427	408	390	386	380	402	376	367	360	374
HVDC from Luzon	0	0	0	0	0	0	0	94	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Req'd Regulating Reserve	91	91	93	93	93	91	94	95	96	96	98	96	95	97	98	99	98	100	100	100	101	99	101	101	101	100
Req'd Contingency Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169
Req'd Dispatchable Reserve	169	169	135	135	150	169	169	150	150	150	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169

1. Peak Demand Forecast at 2,528 MW to occur in June 2022 based from the DOE Peak Demand Forecast 2020-2040
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. HVDC Capacity from Luzon was based on the available capacity at the time of occurrence of the peak demand in Visayas

DOE APPROVED VISAYAS GRID MAINTENANCE PROGRAM



## VISAYAS GRID 2022 Weekly Demand, Supply and Operating Margin Profile Afternoon Peak Scenario

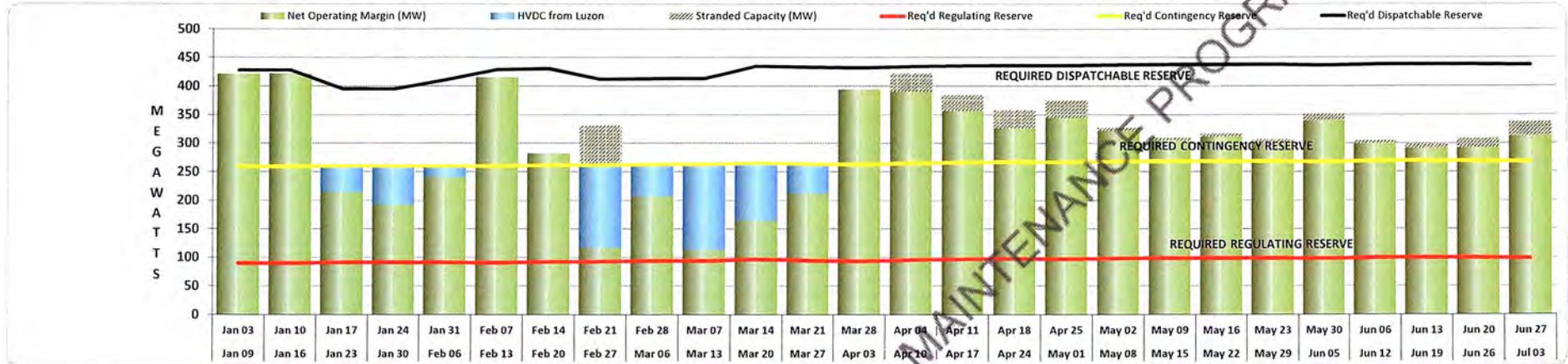


2022	JULY TO DECEMBER 2022																											
	Jul 04	Jul 11	Jul 18	Jul 25	Aug 01	Aug 08	Aug 15	Aug 22	Aug 29	Sep 05	Sep 12	Sep 19	Sep 26	Oct 03	Oct 10	Oct 17	Oct 24	Oct 31	Nov 07	Nov 14	Nov 21	Nov 28	Dec 05	Dec 12	Dec 19	Dec 26		
	Jul 10	Jul 17	Jul 24	Jul 31	Aug 07	Aug 14	Aug 21	Aug 28	Sep 04	Sep 11	Sep 18	Sep 25	Oct 02	Oct 09	Oct 16	Oct 23	Oct 30	Nov 06	Nov 13	Nov 20	Nov 27	Dec 04	Dec 11	Dec 18	Dec 25	Jan 01		
Available Capacity (MW)	2,911	2,861	2,861	2,857	2,910	2,910	2,798	2,758	2,745	2,787	2,802	2,964	2,964	2,961	3,003	3,077	3,077	3,061	3,061	3,095	2,992	2,832	2,931	2,971	2,971	3,074		
Thermal	1,279	1,279	1,279	1,279	1,279	1,279	1,144	1,144	1,144	1,144	1,144	1,279	1,279	1,279	1,361	1,361	1,361	1,321	1,321	1,361	1,258	1,155	1,258	1,258	1,258	1,361		
Geothermal	708	658	658	658	677	677	707	667	667	667	687	707	707	687	647	727	727	727	727	727	727	691	687	727	727	727		
Diesel	456	456	456	452	456	456	449	449	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456		
Power Barges	76	76	76	76	76	76	76	76	69	76	63	70	70	76	76	70	70	76	76	70	70	76	76	76	76	76		
Hydro	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
Biomass	96	96	96	96	96	96	96	96	105	140	148	148	148	148	148	148	148	153	153	153	153	153	153	153	153			
Solar	248	248	248	248	274	274	274	274	262	262	262	262	262	279	279	279	279	265	265	265	265	238	238	238	238	238		
Wind	26	26	26	26	30	30	30	30	20	20	20	20	20	14	14	14	14	41	41	41	41	41	41	41	41	41		
BESS																												
System Load (MW)	2,319	2,381	2,379	2,362	2,371	2,408	2,393	2,383	2,395	2,398	2,421	2,419	2,409	2,513	2,514	2,527	2,502	2,487	2,507	2,522	2,493	2,458	2,459	2,476	2,408	2,158		
Operating Margin (MW)	592	480	482	495	539	502	405	375	350	389	381	545	555	448	489	550	575	574	554	573	499	374	472	495	563	916		
Stranded Capacity (MW)	110	101	110	122	148	129	0	0	0	5	18	131	143	83	86	113	130	160	157	144	160	141	147	150	172	291		
Net Operating Margin (MW)	482	379	372	373	391	373	405	375	350	384	363	414	412	365	403	437	445	414	397	429	339	233	325	345	391	625		
HVDC from Luzon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0		
Req'd Regulating Reserve	93	95	95	94	95	96	96	95	96	96	97	97	96	101	101	101	100	99	100	101	100	98	98	99	96	86		
Req'd Contingency Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		
Req'd Dispatchable Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		

1. Peak Demand Forecast at 2,528 MW to occur in June 2022 based from the DOE Peak Demand Forecast 2020-2040
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. HVDC Capacity from Luzon was based on the available capacity at the time of occurrence of the peak demand in Visayas



## VISAYAS GRID 2022 Weekly Demand, Supply and Operating Margin Profile Evening Peak Scenario



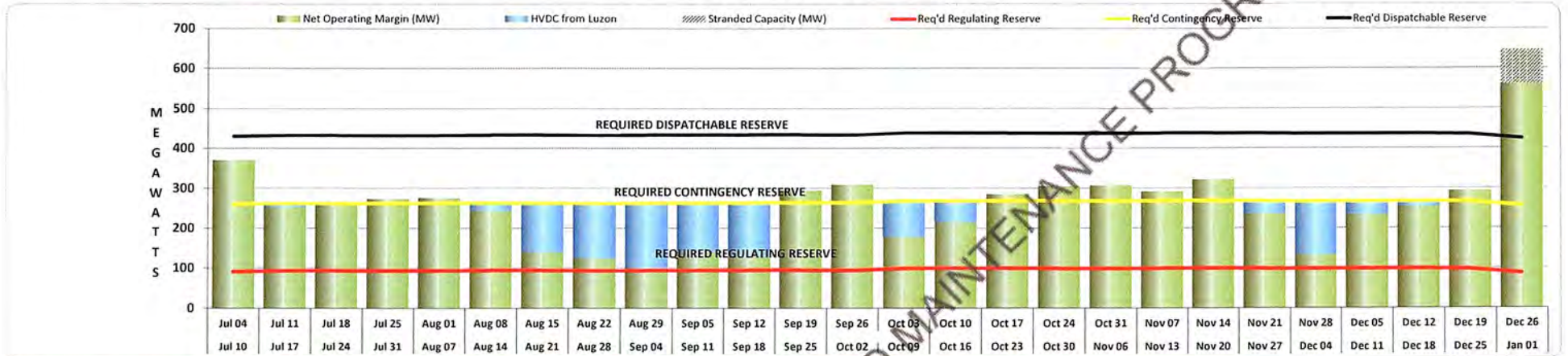
2022	JANUARY TO JUNE 2022																											
	Jan 03	Jan 10	Jan 17	Jan 24	Jan 31	Feb 07	Feb 14	Feb 21	Feb 28	Mar 07	Mar 14	Mar 21	Mar 28	Apr 04	Apr 11	Apr 18	Apr 25	May 02	May 09	May 16	May 23	May 30	Jun 06	Jun 13	Jun 20	Jun 27		
	Jan 09	Jan 16	Jan 23	Jan 30	Feb 06	Feb 13	Feb 20	Feb 27	Mar 06	Mar 13	Mar 20	Mar 27	Apr 03	Apr 10	Apr 17	Apr 24	May 01	May 08	May 15	May 22	May 29	Jun 05	Jun 12	Jun 19	Jun 26	Jul 03		
Available Capacity (MW)	2,678	2,678	2,509	2,473	2,537	2,686	2,596	2,516	2,573	2,473	2,595	2,591	2,745	2,823	2,820	2,823	2,823	2,805	2,804	2,804	2,805	2,813	2,813	2,813	2,813	2,813		
Thermal	1,211	1,211	1,042	1,042	1,110	1,279	1,176	1,089	1,110	1,007	1,136	1,136	1,279	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361		
Geothermal	727	727	727	691	691	691	691	691	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727	727		
Diesel	456	456	456	456	456	437	450	456	456	456	450	446	456	456	456	456	456	456	456	456	456	456	456	456	456	456		
Power Barges	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76		
Hydro	22	22	22	22	22	22	22	22	19	22	22	22	22	22	19	22	22	22	21	21	22	22	22	22	22	22		
Biomass	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153	153		
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Wind	33	33	33	33	29	29	29	29	32	32	32	32	32	28	28	28	28	10	10	10	10	18	18	18	18	18		
BESS																												
System Load (MW)	2,256	2,255	2,293	2,279	2,295	2,270	2,314	2,327	2,364	2,358	2,429	2,378	2,350	2,400	2,436	2,464	2,446	2,477	2,494	2,486	2,497	2,461	2,507	2,512	2,504	2,475		
Operating Margin (MW)	422	423	216	194	242	416	282	189	209	115	166	213	395	423	384	359	377	328	310	318	308	352	306	301	309	338		
Stranded Capacity (MW)	0	0	0	0	0	0	0	70	0	0	0	0	0	32	27	31	32	5	4	5	5	11	6	9	16	24		
Net Operating Margin (MW)	422	423	216	194	242	416	282	119	209	115	166	213	395	391	357	328	345	323	306	313	303	341	300	292	293	314		
HVDC from Luzon	0	0	45	66	19	0	0	143	55	149	100	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Req'd Regulating Reserve	90	90	92	91	92	91	93	93	95	94	97	95	94	96	97	99	98	99	100	99	100	98	100	100	100	99		
Req'd Contingency Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		
Req'd Dispatchable Reserve	169	169	135	135	150	169	169	150	150	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		

1. Peak Demand Forecast at 2,528 MW to occur in June 2022 based from the DOE Peak Demand Forecast 2020-2040
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. Evening Peak was considered in the outlook, hence, Solar Capacity not included.
5. HVDC Capacity from Luzon was based on the available capacity at the time of occurrence of the peak demand in Visayas

DOE APPROVED GRID OPERATING MAINTENANCE PROGRAM



## VISAYAS GRID 2022 Weekly Demand, Supply and Operating Margin Profile Evening Peak Scenario



2022	JULY TO DECEMBER 2022																											
	Jul 04	Jul 11	Jul 18	Jul 25	Aug 01	Aug 08	Aug 15	Aug 22	Aug 29	Sep 05	Sep 12	Sep 19	Sep 26	Oct 03	Oct 10	Oct 17	Oct 24	Oct 31	Nov 07	Nov 14	Nov 21	Nov 28	Dec 05	Dec 12	Dec 19	Dec 26		
	Jul 10	Jul 17	Jul 24	Jul 31	Aug 07	Aug 14	Aug 21	Aug 28	Sep 04	Sep 11	Sep 18	Sep 25	Oct 02	Oct 09	Oct 16	Oct 23	Oct 30	Nov 06	Nov 13	Nov 20	Nov 27	Dec 04	Dec 11	Dec 18	Dec 25	Jan 01		
Available Capacity (MW)	2,662	2,612	2,612	2,608	2,632	2,632	2,520	2,480	2,479	2,521	2,528	2,698	2,698	2,680	2,722	2,796	2,796	2,789	2,789	2,823	2,720	2,587	2,688	2,728	2,728	2,831		
Thermal	1,279	1,279	1,279	1,279	1,279	1,279	1,144	1,144	1,144	1,144	1,144	1,144	1,279	1,279	1,279	1,361	1,361	1,361	1,321	1,321	1,361	1,258	1,155	1,258	1,258	1,361		
Geothermal	708	658	658	658	677	677	707	667	667	667	687	707	707	687	647	727	727	727	727	727	727	691	687	727	727	727		
Diesel	456	456	456	452	456	456	449	449	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456		
Power Barges	76	76	76	76	76	76	76	76	69	76	63	70	70	76	76	70	70	76	76	70	70	76	76	76	76	76		
Hydro	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
Biomass	96	96	96	96	96	96	96	96	105	140	140	148	148	148	148	148	148	153	153	153	153	153	153	153	153			
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Wind	25	25	25	25	26	26	26	26	16	16	16	16	16	12	12	12	12	34	34	34	34	34	36	36	36	36		
BESS																												
System Load (MW)	2,291	2,357	2,353	2,334	2,355	2,386	2,378	2,353	2,376	2,379	2,397	2,403	2,388	2,499	2,505	2,510	2,490	2,481	2,496	2,501	2,482	2,453	2,453	2,473	2,434	2,185		
Operating Margin (MW)	371	255	259	274	277	246	142	127	103	142	131	295	310	181	217	286	306	308	293	322	238	134	235	255	294	646		
Stranded Capacity (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85		
Net Operating Margin (MW)	371	255	259	274	277	246	142	127	103	142	131	295	310	181	217	286	306	308	293	322	238	134	235	255	294	561		
HVDC from Luzon	0	9	4	0	0	19	122	136	161	122	134	0	0	88	53	0	0	0	0	0	31	133	32	13	0	0		
Req'd Regulating Reserve	92	94	94	93	94	95	95	94	95	95	96	96	96	100	100	100	100	100	99	100	99	98	98	99	97	87		
Req'd Contingency Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		
Req'd Dispatchable Reserve	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169		

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