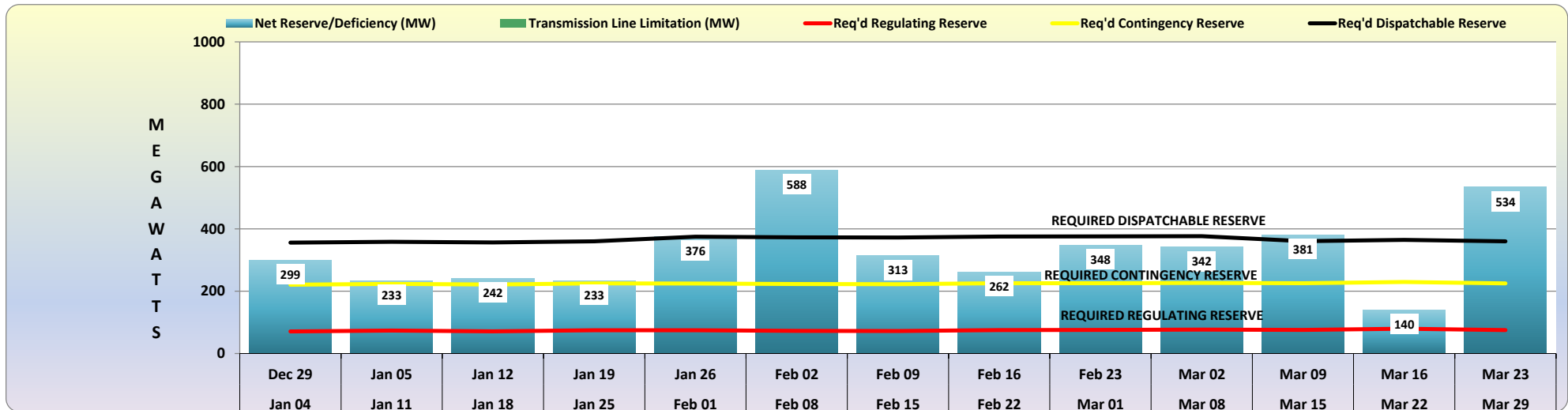


VISAYAS GRID (Actual Data) 2018 1st Quarter Reserve Profile

REVISION 2

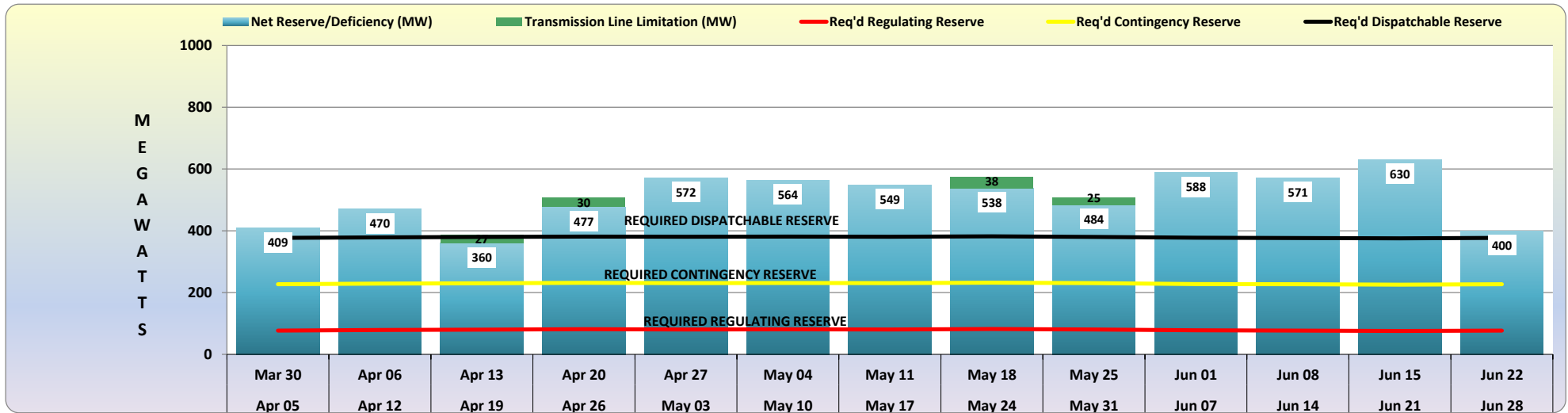


2018	1ST QUARTER													
	Dec 29	Jan 05	Jan 12	Jan 19	Jan 26	Feb 02	Feb 09	Feb 16	Feb 23	Mar 02	Mar 09	Mar 16	Mar 23	
	Jan 04	Jan 11	Jan 18	Jan 25	Feb 01	Feb 08	Feb 15	Feb 22	Mar 01	Mar 08	Mar 15	Mar 22	Mar 29	
Available Capacity (MW)	2,070	2,073	2,024	2,103	2,242	2,407	2,124	2,146	2,243	2,256	2,268	2,129	2,410	
Coal	895	864	895	893	896	963	933	888	942	1,005	1,015	964	963	
Geothermal	460	455	472	511	570	570	619	586	617	613	613	658	697	
Diesel	395	424	341	396	407	426	262	411	400	404	420	434	372	
Power Barges	221	204	200	172	36	98	51	158	(87)	(108)	(137)	(253)	-	
Hydro	17	15	17	11	9	9	10	8	12	6	7	8	7	
Biomass	22	63	68	70	65	70	63	72	71	72	72	72	70	
Solar	-	-	-	-	207	217	151	-	253	232	235	206	238	
Wind	61	49	32	51	52	55	35	23	35	33	44	40	63	
System Load (MW)	1,771	1,840	1,782	1,870	1,866	1,819	1,810	1,884	1,895	1,914	1,887	1,989	1,876	
Gross Reserve/Deficiency (MW)	299	233	242	233	376	588	313	262	348	342	381	140	534	
Transmission Line Limitation (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Reserve/Deficiency (MW)	299	233	242	233	376	588	313	262	348	342	381	140	534	
Req'd Regulating Reserve	71	74	71	75	75	73	72	75	76	77	75	80	75	
Req'd Contingency Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	
Req'd Dispatchable Reserve	135	135	135	135	150	150	150	150	150	150	135	135	135	

1. Peak Demand Forecast at 2,143 MW to occur in December 2018 based from the approved DOE Forecast for the Power Development Plan 2016 – 2040.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.

VISAYAS GRID (Actual Data) 2018 2nd Quarter Reserve Profile

REVISION 2

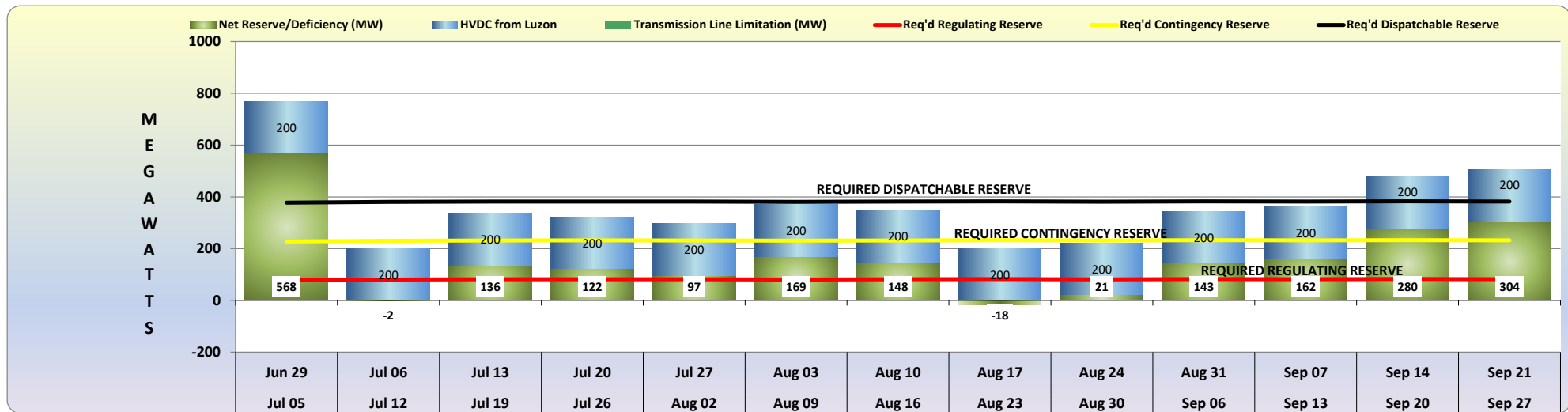


2018	2ND QUARTER													
	Mar 30	Apr 06	Apr 13	Apr 20	Apr 27	May 04	May 11	May 18	May 25	Jun 01	Jun 08	Jun 15	Jun 22	
	Apr 05	Apr 12	Apr 19	Apr 26	May 03	May 10	May 17	May 24	May 31	Jun 07	Jun 14	Jun 21	Jun 28	
Available Capacity (MW)	2,334	2,443	2,390	2,543	2,585	2,594	2,568	2,629	2,520	2,532	2,493	2,521	2,329	
Coal	963	860	834	965	962	1,046	1,045	985	983	1,015	1,042	994	830	
Geothermal	728	703	717	737	732	737	733	741	743	741	751	757	760	
Diesel	323	438	409	451	443	448	425	433	439	426	426	450	447	
Power Barges	(76)	75	-	-	-	-	-	-	-	-	-	-	-	
Hydro	7	7	7	5	8	9	7	7	6	9	9	12	14	
Biomass	70	67	66	61	72	71	71	60	59	53	5	3	-	
Solar	300	244	313	289	310	248	257	375	263	272	188	264	261	
Wind	20	49	44	35	58	35	30	28	27	16	72	41	17	
System Load (MW)	1,925	1,973	2,003	2,036	2,013	2,030	2,019	2,053	2,011	1,944	1,922	1,891	1,929	
Gross Reserve/Deficiency (MW)	409	470	387	507	572	564	549	576	509	588	571	630	400	
Transmission Line Limitation (MW)	0	0	27	30	0	0	0	38	25	0	0	0	0	
Net Reserve/Deficiency (MW)	409	470	360	477	572	564	549	538	484	588	571	630	400	
Req'd Regulating Reserve	77	79	80	81	81	81	81	82	80	78	77	76	77	
Req'd Contingency Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	
Req'd Dispatchable Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,143 MW to occur in December 2018 based from the approved DOE Forecast for the Power Development Plan 2016 – 2040.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.

VISAYAS GRID 2018 3rd Quarter Reserve Profile

REVISION 2

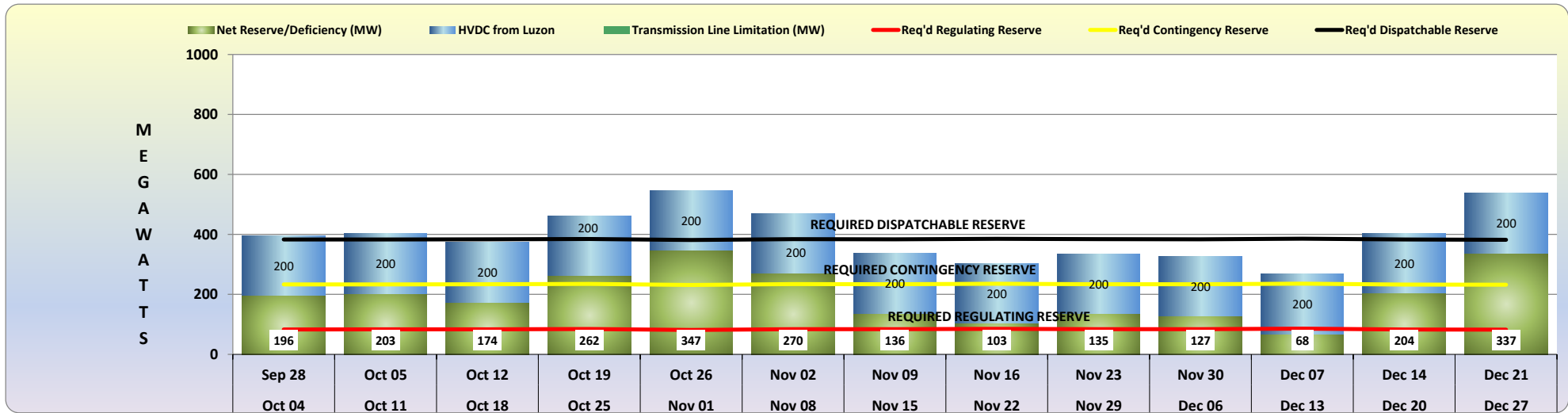


2018	3RD QUARTER													
	Jun 29	Jul 06	Jul 13	Jul 20	Jul 27	Aug 03	Aug 10	Aug 17	Aug 24	Aug 31	Sep 07	Sep 14	Sep 21	
	Jul 05	Jul 12	Jul 19	Jul 26	Aug 02	Aug 09	Aug 16	Aug 23	Aug 30	Sep 06	Sep 13	Sep 20	Sep 27	
Available Capacity (MW)	2,508	2,011	2,175	2,175	2,141	2,186	2,191	2,050	2,056	2,211	2,215	2,350	2,350	
Coal	1,045	879	1,043	1,043	1,043	1,043	1,043	908	908	1,058	1,058	1,193	1,193	
Geothermal	756	714	714	714	674	719	719	719	719	719	719	719	719	
Diesel	443	276	276	276	276	271	276	270	276	272	276	276	276	
Power Barges	-	80	80	80	80	80	80	80	80	80	80	80	80	
Hydro	9	16	16	16	16	16	16	16	16	16	16	16	16	
Biomass	-	31	31	31	37	32	32	32	32	52	52	52	52	
Solar	229	-	-	-	-	-	-	-	-	-	-	-	-	
Wind	26	15	15	15	15	25	25	25	25	14	14	14	14	
System Load (MW)	1,940	2,013	2,039	2,053	2,044	2,017	2,043	2,068	2,035	2,068	2,053	2,070	2,046	
Gross Reserve/Deficiency (MW)	568	-2	136	122	97	169	148	-18	21	143	162	280	304	
Transmission Line Limitation (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Reserve/Deficiency (MW)	568	-2	136	122	97	169	148	-18	21	143	162	280	304	
Req'd Regulating Reserve	78	81	82	82	82	81	82	83	81	83	82	83	82	
Req'd Contingency Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	
Req'd Dispatchable Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,143 MW to occur in December 2018 based from the approved DOE Forecast for the Power Development Plan 2016 – 2040.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. Solar Plants Capacity (250MW) not considered. Expected peak demand to occur during the evening.
5. HVDC Capacity from Luzon at an average of 200MW considered.

VISAYAS GRID 2018 4th Quarter Reserve Profile

REVISION 2



2018	4TH QUARTER													
	Sep 28	Oct 05	Oct 12	Oct 19	Oct 26	Nov 02	Nov 09	Nov 16	Nov 23	Nov 30	Dec 07	Dec 14	Dec 21	
	Oct 04	Oct 11	Oct 18	Oct 25	Nov 01	Nov 08	Nov 15	Nov 22	Nov 29	Dec 06	Dec 13	Dec 20	Dec 27	
Available Capacity (MW)	2,274	2,286	2,266	2,382	2,382	2,373	2,230	2,235	2,235	2,224	2,211	2,278	2,391	
Coal	1,111	1,111	1,111	1,193	1,193	1,193	1,090	1,090	1,090	1,090	1,090	1,090	1,193	
Geothermal	719	755	719	755	755	719	684	684	684	684	684	738	738	
Diesel	276	252	273	266	266	276	271	276	276	266	253	266	276	
Power Barges	80	80	75	80	80	80	80	80	80	80	80	80	80	
Hydro	16	16	16	16	16	16	16	16	16	16	16	16	16	
Biomass	51	51	51	51	51	60	60	60	60	60	60	60	60	
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wind	21	21	21	21	21	29	29	29	29	28	28	28	28	
System Load (MW)	2,078	2,083	2,092	2,120	2,035	2,103	2,094	2,132	2,100	2,097	2,143	2,074	2,054	
Gross Reserve/Deficiency (MW)	196	203	174	262	347	270	136	103	135	127	68	204	337	
Transmission Line Limitation (MW)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Reserve/Deficiency (MW)	196	203	174	262	347	270	136	103	135	127	68	204	337	
Req'd Regulating Reserve	83	83	84	85	81	84	84	85	84	84	86	83	82	
Req'd Contingency Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	
Req'd Dispatchable Reserve	150	150	150	150	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,143 MW to occur in December 2018 based from the approved DOE Forecast for the Power Development Plan 2016 – 2040.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. Solar Plants Capacity (250MW) not considered. Expected peak demand to occur during the evening.
5. HVDC Capacity from Luzon at an average of 200MW considered.