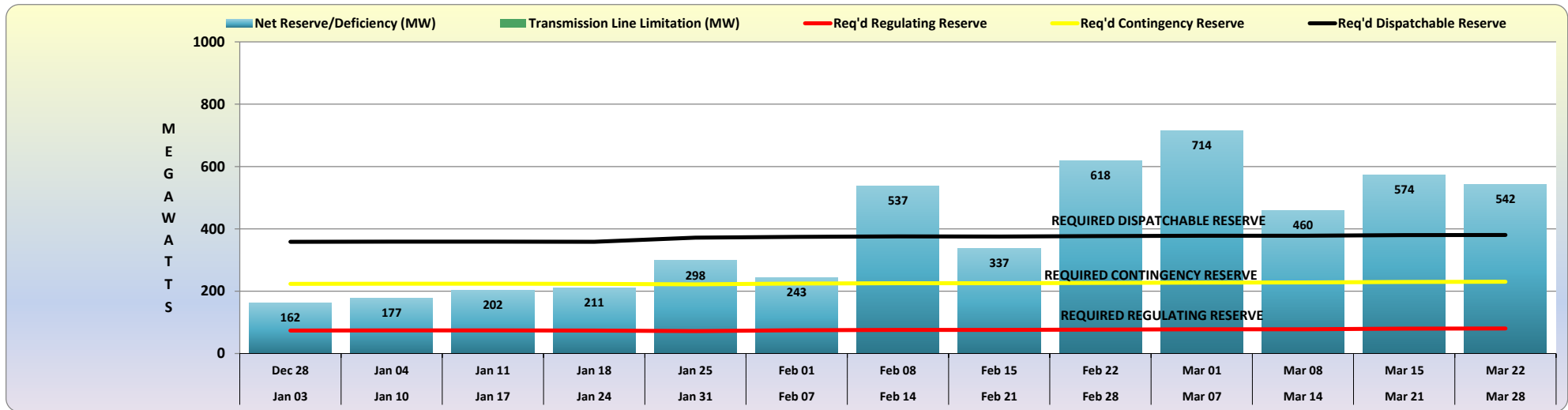


# VISAYAS GRID (Actual Data) 2019 1st Quarter Reserve Profile

REVISION 1

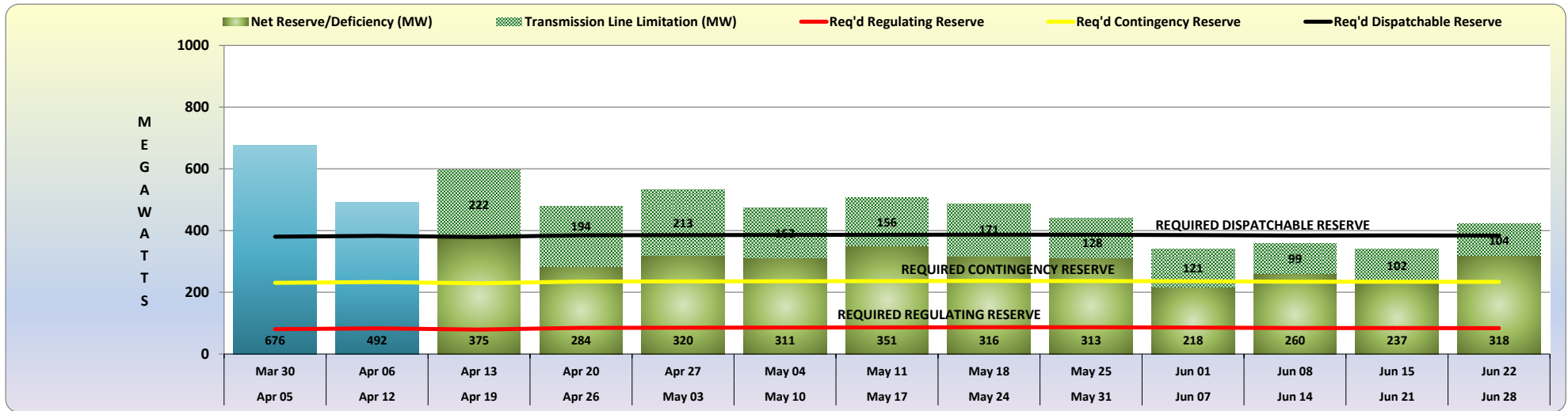


2018	1ST QUARTER													
	Dec 28	Jan 04	Jan 11	Jan 18	Jan 25	Feb 01	Feb 08	Feb 15	Feb 22	Mar 01	Mar 08	Mar 15	Mar 22	
	Jan 03	Jan 10	Jan 17	Jan 24	Jan 31	Feb 07	Feb 14	Feb 21	Feb 28	Mar 07	Mar 14	Mar 21	Mar 28	
<b>Available Capacity (MW)</b>	2,004	2,026	2,055	2,049	2,098	2,107	2,431	2,227	2,537	2,656	2,407	2,567	2,552	
Coal	762	733	760	770	840	840	926	1,026	1,025	1,112	860	1,008	995	
Geothermal	735	768	756	744	746	734	761	756	730	736	725	713	730	
Diesel	395	362	376	412	404	418	403	330	386	408	397	431	446	
Power Barges	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydro	10	8	9	7	7	7	7	7	7	5	3	5	6	
Biomass	22	72	74	76	67	68	70	73	71	70	71	64	63	
Solar	-	-	-	-	-	-	213	-	272	254	288	278	262	
Wind	80	83	80	40	34	40	51	35	46	71	63	68	50	
<b>System Load (MW)</b>	1,842	1,849	1,853	1,838	1,800	1,864	1,894	1,890	1,919	1,942	1,947	1,993	2,010	
<b>Gross Reserve/Deficiency (MW)</b>	162	177	202	211	298	243	537	337	618	714	460	574	542	
<b>Transmission Line Limitation (MW)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Net Reserve/Deficiency (MW)</b>	162	177	202	211	298	243	537	337	618	714	460	574	542	
<b>Req'd Regulating Reserve</b>	74	74	74	74	72	75	76	76	77	78	78	80	80	
<b>Req'd Contingency Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150	
<b>Req'd Dispatchable Reserve</b>	135	135	135	135	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,299 MW to occur in November 2019 based from the DOE Forecast.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.

# VISAYAS GRID 2019 2nd Quarter Reserve Profile

REVISION 1

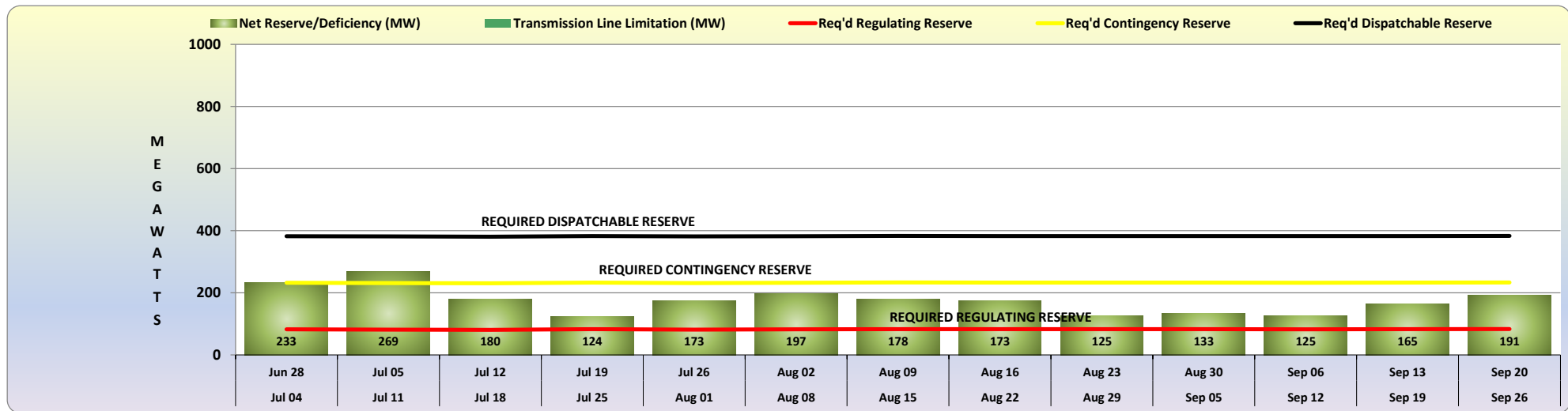


2018	2ND QUARTER												
	Mar 29	Apr 05	Apr 12	Apr 19	Apr 26	May 03	May 10	May 17	May 24	May 31	Jun 07	Jun 14	Jun 21
	Apr 04	Apr 11	Apr 18	Apr 25	May 02	May 09	May 16	May 23	May 30	Jun 06	Jun 13	Jun 20	Jun 27
<b>Available Capacity (MW)</b>	2,686	2,568	2,577	2,599	2,665	2,620	2,665	2,659	2,605	2,481	2,462	2,446	2,516
Coal	1,113	1,114	1,091	1,091	1,173	1,173	1,173	1,173	1,173	1,091	1,091	1,091	1,173
Geothermal	730	704	739	759	743	743	779	779	724	724	724	724	706
Diesel	442	437	250	250	250	250	260	254	254	254	234	254	260
Power Barges	-	-	76	76	76	76	76	76	76	76	76	76	76
Hydro	5	7	14	16	16	16	15	15	16	16	16	16	16
Biomass	63	64	60	60	60	49	49	49	49	38	38	3	3
Solar	276	195	319	319	319	296	296	296	296	275	275	275	275
Wind	57	47	28	28	28	17	17	17	17	7	7	7	7
<b>System Load (MW)</b>	2,010	2,076	1,980	2,121	2,132	2,146	2,158	2,172	2,164	2,142	2,103	2,107	2,094
<b>Gross Reserve/Deficiency (MW)</b>	676	492	597	478	533	474	507	487	441	339	359	339	422
<b>Transmission Line Limitation (MW)</b>	0	0	222	194	213	163	156	171	128	121	99	102	104
<b>Net Reserve/Deficiency (MW)</b>	676	492	375	284	320	311	351	316	313	218	260	237	318
<b>Req'd Regulating Reserve</b>	80	83	79	85	85	86	86	87	87	86	84	84	84
<b>Req'd Contingency Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150
<b>Req'd Dispatchable Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150

1. Peak Demand Forecast at 2,299 MW to occur in November 2019 based from the DOE Forecast.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.

# VISAYAS GRID 2019 3rd Quarter Reserve Profile

REVISION 1

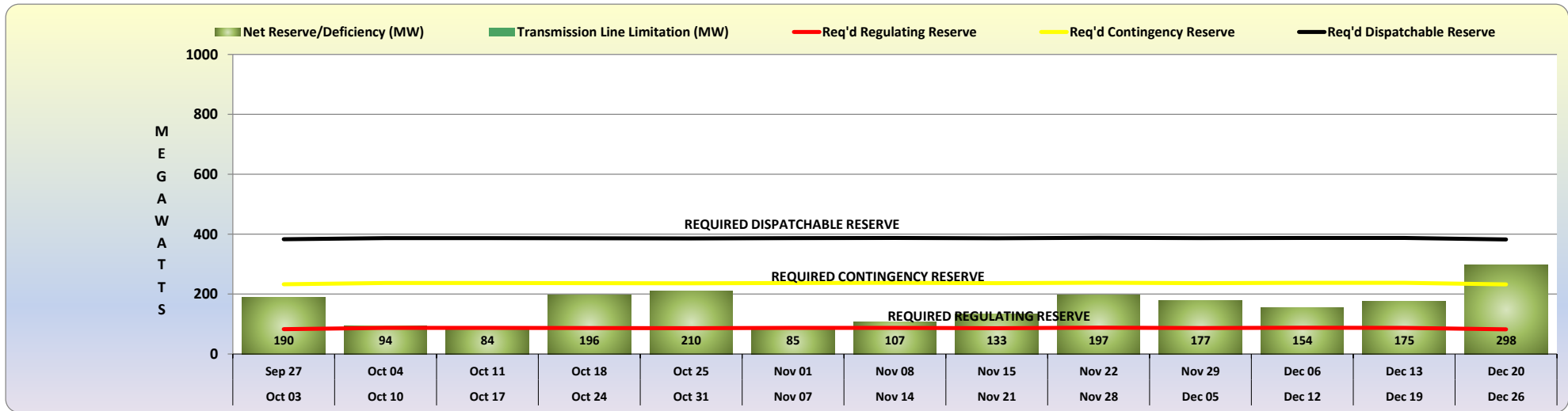


2018	3RD QUARTER													
	Jun 28	Jul 05	Jul 12	Jul 19	Jul 26	Aug 02	Aug 09	Aug 16	Aug 23	Aug 30	Sep 06	Sep 13	Sep 20	
	Jul 04	Jul 11	Jul 18	Jul 25	Aug 01	Aug 08	Aug 15	Aug 22	Aug 29	Sep 05	Sep 12	Sep 19	Sep 26	
<b>Available Capacity (MW)</b>	2,293	2,307	2,196	2,196	2,212	2,257	2,257	2,247	2,198	2,206	2,188	2,238	2,273	
Coal	1,173	1,173	1,091	1,091	1,091	1,091	1,091	1,091	1,038	1,038	1,038	1,038	1,070	
Geothermal	755	779	734	734	734	779	779	779	779	779	779	779	779	
Diesel	254	244	260	260	260	260	260	250	254	260	242	257	260	
Power Barges	76	76	76	76	76	76	76	76	76	76	76	76	76	
Hydro	16	16	16	16	16	16	16	16	16	16	16	16	16	
Biomass	3	3	3	3	9	9	9	9	9	25	25	60	60	
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wind	16	16	16	16	26	26	26	26	26	12	12	12	12	
<b>System Load (MW)</b>	2,060	2,038	2,016	2,072	2,039	2,060	2,079	2,074	2,073	2,073	2,063	2,073	2,082	
<b>Gross Reserve/Deficiency (MW)</b>	233	269	180	124	173	197	178	173	125	133	125	165	191	
<b>Transmission Line Limitation (MW)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Net Reserve/Deficiency (MW)</b>	233	269	180	124	173	197	178	173	125	133	125	165	191	
<b>Req'd Regulating Reserve</b>	82	82	81	83	82	82	83	83	83	83	83	83	83	
<b>Req'd Contingency Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150	
<b>Req'd Dispatchable Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,299 MW to occur in November 2019 based from the DOE Forecast.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. Evening Peak Scenario

# VISAYAS GRID 2019 4th Quarter Reserve Profile

REVISION 1



2018	4TH QUARTER													
	Sep 27	Oct 04	Oct 11	Oct 18	Oct 25	Nov 01	Nov 08	Nov 15	Nov 22	Nov 29	Dec 06	Dec 13	Dec 20	
	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	
<b>Available Capacity (MW)</b>	2,265	2,268	2,258	2,357	2,357	2,260	2,290	2,290	2,396	2,345	2,345	2,358	2,358	
Coal	1,070	1,070	1,070	1,173	1,173	1,070	1,070	1,070	1,173	1,133	1,133	1,133	1,133	
Geothermal	779	779	779	755	755	761	779	779	779	779	779	779	779	
Diesel	247	250	240	260	260	245	257	257	260	247	247	260	260	
Power Barges	76	76	76	76	76	76	76	76	76	76	76	76	76	
Hydro	16	16	16	16	16	16	16	16	16	16	16	16	16	
Biomass	59	59	59	59	59	60	60	60	60	60	60	60	60	
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wind	18	18	18	18	18	32	32	32	32	34	34	34	34	
<b>System Load (MW)</b>	2,075	2,174	2,174	2,161	2,147	2,175	2,183	2,157	2,199	2,168	2,191	2,183	2,060	
<b>Gross Reserve/Deficiency (MW)</b>	190	94	84	196	210	85	107	133	197	177	154	175	298	
<b>Transmission Line Limitation (MW)</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Net Reserve/Deficiency (MW)</b>	190	94	84	196	210	85	107	133	197	177	154	175	298	
<b>Req'd Regulating Reserve</b>	83	87	87	86	86	87	87	86	88	87	88	87	82	
<b>Req'd Contingency Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150	
<b>Req'd Dispatchable Reserve</b>	150	150	150	150	150	150	150	150	150	150	150	150	150	

1. Peak Demand Forecast at 2,299 MW to occur in November 2019 based from the DOE Forecast.
2. Preventive Maintenance of Power Plants considered.
3. Embedded Generators considered.
4. Evening Peak Scenario