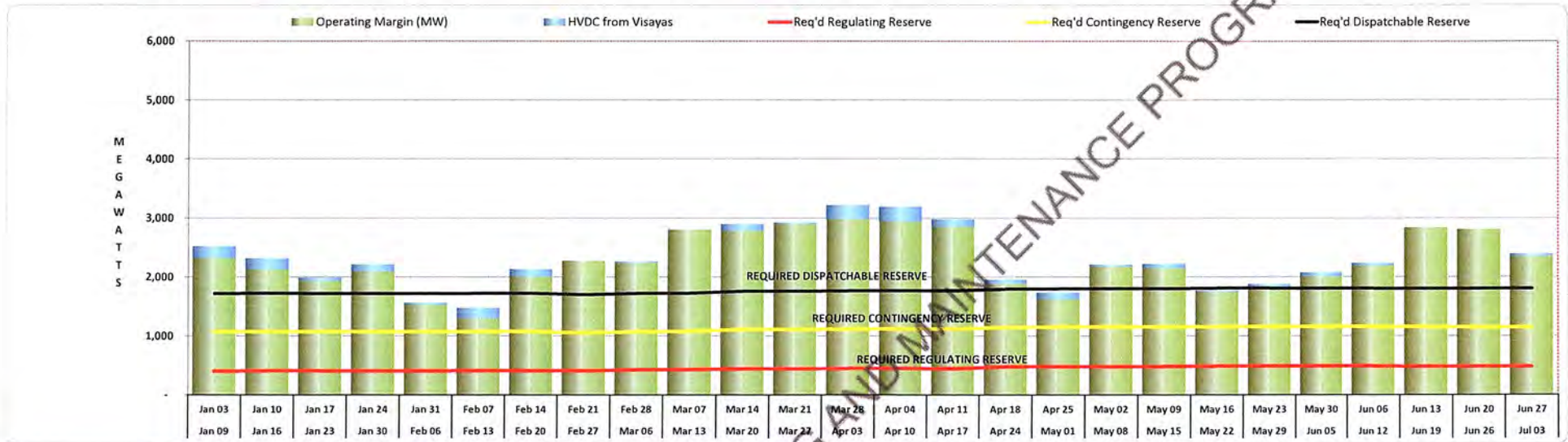




LUZON GRID 2022 Weekly Demand, Supply and Operating Margin Profile

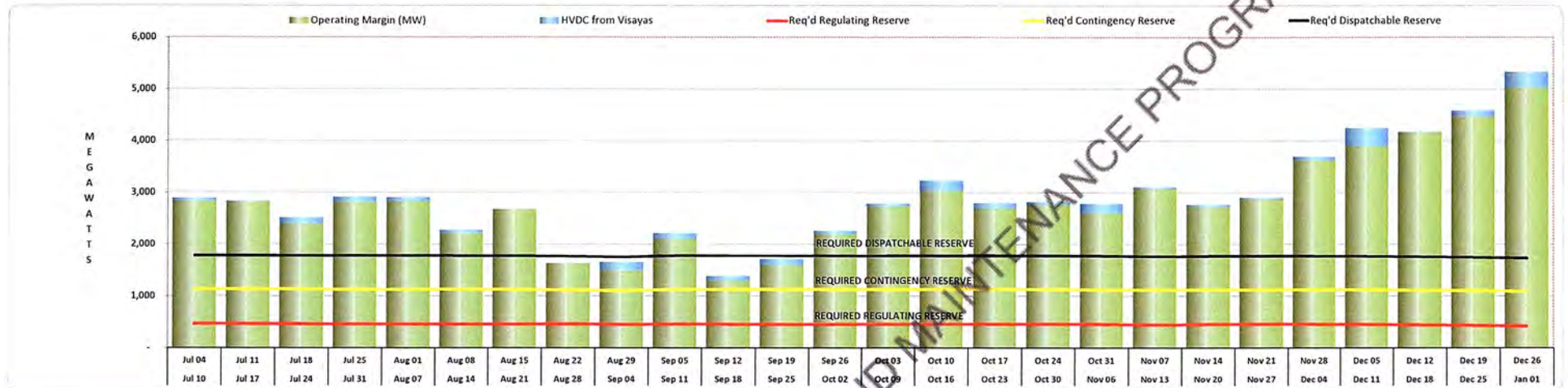


2022	JANUARY TO JUNE 2022																											
	Jan 03	Jan 10	Jan 17	Jan 24	Jan 31	Feb 07	Feb 14	Feb 21	Feb 28	Mar 07	Mar 14	Mar 21	Mar 28	Apr 04	Apr 11	Apr 18	Apr 25	May 02	May 09	May 16	May 23	May 30	Jun 06	Jun 13	Jun 20	Jun 27		
	Jan 09	Jan 16	Jan 23	Jan 30	Feb 06	Feb 13	Feb 20	Feb 27	Mar 06	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)	12,546	12,534	12,154	12,302	11,635	11,763	12,354	12,446	12,906	13,603	13,970	14,045	14,523	14,517	14,240	13,993	13,926	14,390	14,414	14,133	14,269	14,417	14,566	15,009	14,883	14,454		
Thermal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Coal	5,104	5,089	5,089	5,563	4,968	5,460	6,423	5,878	6,028	6,444	7,012	7,012	7,472	7,472	7,472	7,472	7,472	8,072	8,072	8,072	8,072	8,072	8,072	8,072	8,072	7,587		
Gas Turbine/Diesel	700	653	731	731	731	731	731	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778		
Combined Cycle/NatGas	3,488	3,398	3,136	3,136	3,136	2,871	2,871	3,133	3,223	3,488	3,222	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,398		
Geothermal	412	412	412	412	373	342	342	381	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	368		
Wind Farm	120	271	254	76	139	161	40	85	22	138	256	219	226	190	23	47	48	154	124	55	22	14	95	95	34	56		
Biomass	161	188	148	81	197	177	191	211	192	201	164	111	195	205	161	111	163	175	182	155	208	187	77	125	116	148		
Solar	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
Hydro	122	122	122	122	133	127	107	98	116	122	122	105	122	133	133	133	133	133	133	133	133	133	133	133	133	122		
BESS	2,176	2,144	2,140	1,998	1,855	1,650	1,455	1,813	2,005	2,010	1,789	1,787	1,491	1,483	1,547	1,369	1,217	1,037	1,046	918	995	1,159	1,365	1,797	1,740	1,893		
System Load (MW)	10,027	10,217	10,165	10,087	10,071	10,285	10,216	10,173	10,641	10,796	11,072	11,119	11,304	11,322	11,258	12,034	12,191	12,177	12,189	12,363	12,387	12,341	12,329	12,171	12,073	12,061		
Operating Margin (MW)	2,519	2,317	1,990	2,215	1,564	1,478	2,138	2,273	2,264	2,807	2,898	2,927	3,219	3,195	2,982	1,959	1,735	2,213	2,225	1,770	1,882	2,076	2,236	2,839	2,810	2,393		
HVDC from Visayas	193	187	52	113	32	175	125	-	20	-	105	23	229	248	116	74	106	32	70	13	51	64	36	-	35			
Req'd Regulating Reserve	401	409	407	403	409	411	409	407	426	432	443	445	452	453	450	481	488	487	488	495	495	494	493	487	483	482		
Req'd Contingency Reserve	668	668	668	668	668	668	668	647	647	647	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668		
Req'd Dispatchable Reserve	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647		

1. Peak Demand Forecast at 12,387 MW to occur in May 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 Visayas was based on the available capacity at the time of occurrence of the peak demand in Luzon



LUZON GRID 2022 Weekly Demand, Supply and Operating Margin Profile



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	Jan 01	
Available Capacity (MW)	14,512	14,505	14,140	14,357	14,343	13,850	14,209	13,438	13,065	13,766	13,026	13,223	13,912	14,506	14,844	14,504	14,465	14,361	14,374	14,197	14,411	15,173	15,610	15,366	15,524	15,838		
Thermal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coal	7,205	7,205	7,205	7,390	6,985	6,985	6,985	6,196	6,196	7,246	6,294	6,294	6,749	6,914	7,035	6,735	6,975	6,781	6,931	6,931	6,931	7,356	7,356	7,550	7,700	7,700		
Gas Turbine/Diesel	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	
Combined Cycle/NatGas	3,785	3,785	3,275	3,365	3,760	3,340	3,735	3,760	3,160	2,929	2,928	3,185	3,385	3,785	3,785	3,785	3,695	3,785	3,785	3,521	3,785	3,785	3,785	3,779	3,827	3,875		
Geothermal	368	452	452	452	373	373	373	413	413	393	353	274	392	437	437	437	437	437	437	437	452	452	452	452	452	452		
Wind Farm	19	15	49	7	43	149	149	135	41	90	115	39	43	51	104	175	147	132	228	230	182	184	284	281	125	252		
Biomass	131	84	76	65	128	36	66	62	122	94	111	153	152	169	180	194	182	197	140	157	102	180	244	171	180	132		
Solar	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	60	60	70	70	70	70	70	70	70	
Hydro	122	122	122	122	122	104	93	133	133	133	133	133	133	133	133	133	133	133	133	118	118	133	133	133	133	133		
BESS	1,992	1,986	2,011	2,014	2,021	1,954	1,950	1,931	2,004	1,977	2,162	2,189	2,155	2,122	2,131	2,096	1,998	1,873	1,847	1,921	1,966	2,163	2,164	2,145	2,151	2,147		
System Load (MW)	11,621	11,668	11,625	11,437	11,437	11,573	11,527	11,802	11,410	11,548	11,634	11,506	11,646	11,711	11,608	11,701	11,643	11,568	11,257	11,428	11,506	11,476	11,359	11,188	10,941	10,512		
Operating Margin (MW)	2,890	2,836	2,515	2,919	2,906	2,277	2,683	1,636	1,655	2,218	1,392	1,717	2,266	2,795	3,236	2,803	2,822	2,793	3,117	2,770	2,905	3,697	4,251	4,178	4,583	5,325		
HVDC from Visayas	43	8	103	94	63	43	-	148	97	82	108	55	47	191	102	50	186	35	35	28	73	345	7	109	300			
Req'd Regulating Reserve	465	467	465	457	457	463	467	472	456	462	465	460	466	468	464	468	466	463	450	457	460	459	454	448	438	420		
Req'd Contingency Reserve	668	668	668	668	668	668	668	647	647	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668		
Req'd Dispatchable Reserve	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647		

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DOE - APPROVED GRID OPERATING AND MAINTENANCE PROGRAM