

WEEKLY GRID OPERATING PROGRAM (GOP) MONITORING

WEEKLY OPERATING PROGRAM

Period Covered: 16-Feb-19 to 22-Feb-19

No of Units/MegaWatts not Available

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DATE	FEBRUARY						
	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri
LUZON POWER OUTLOOK							
Available Capacity (MW)	10408	10038	10443	11028	11073	11030	11030
Coal	4557	4557	4567	4717	4867	4867	4867
Oil-based	834	834	834	834	834	834	834
Oil Thermal	0	0	0	0	0	0	0
Diesel	359	359	359	359	359	359	359
Combined Cycle (CC)/ Gas Turbine(GT)	475	475	475	475	475	475	475
Natural Gas	3027	3027	3027	3027	3027	2984	2984
Renewable Energy	1980	1610	2005	2440	2335	2335	2335
Geothermal	417	417	417	417	417	417	417
Hydro	1497	1137	1532	1967	1862	1862	1862
Biomass	66	56	56	56	56	56	56
Wind	0	0	0	0	0	0	0
Solar	0	0	0	0	0	0	0
Battery Storage	10	10	10	10	10	10	10
System Load (MW)	8336	7503	9068	9098	9170	9084	9021
Gross Reserve/Deficiency (MW)	2072	2535	1375	1930	1903	1946	2009
Limitations	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Regulating Reserve	333.44	300.12	362.72	363.92	366.80	363.36	360.84
Required Contingency Reserve	647.00	647.00	647.00	647.00	647.00	647.00	647.00
Required Dispatchable Reserve	647.00	647.00	647.00	647.00	647.00	647.00	647.00

*HVDC import/export will depend on power situation in Luzon and Visayas Grid.

DATE	FEBRUARY														
	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	
LUZON OUTAGE DATA															
No. of Units/ MW not available due to Outages		16	2829	18	2874	17	2839	13	2369	15	2174	15	2109	15	2109
Coal	Planned	2	450	2	450	2	450	2	450	2	450	2	450	2	450
	Unplanned	4	1005	4	1005	4	1005	4	1005	3	705	3	705	3	705
Oil-based															
Oil Thermal	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	1	320	1	320	1	320	1	320	1	320	1	320	1	320
Diesel	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined Cycle (CC)/ Gas Turbine(GT)	Planned	1	70	1	70	1	70	1	70	1	70	1	70	0	0
	Unplanned	1	25	1	25	1	25	1	25	1	25	1	25	2	95
Natural Gas	Planned	1	265	1	265	1	265	1	265	1	265	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	1	200	1
Renewable Energy															
Geothermal	Planned	1	44	1	44	1	44	1	44	1	44	1	44	1	44
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro	Planned	2	215	3	250	2	215	1	180	4	285	4	285	4	285
	Unplanned	3	435	3	435	3	435	0	0	0	0	0	0	0	0
Biomass	Planned	0	0	1	10	1	10	1	10	1	10	1	10	1	10
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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DATE	FEBRUARY						
	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri
VISAYAS POWER OUTLOOK¹							
Available Capacity (MW)	2110	2110	2110	2110	2110	2110	2192
Coal	941	941	941	941	941	941	1023
Oil-based	299	299	299	299	299	299	299
Oil Thermal							
Diesel	299	299	299	299	299	299	299
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	870	870	870	870	870	870	870
Geothermal	767	767	767	767	767	767	767
Hydro	6	6	6	6	6	6	6
Biomass	41	41	41	41	41	41	41
Wind	57	57	57	57	57	57	57
Solar	0	0	0	0	0	0	0
System Load (MW)	1787	1720	1840	1863	1880	1881	1873
Gross Reserve/Deficiency (MW)	323	390	270	246	230	228	319
Transmission Line Limitation	91	100	98	96	99	96	100
Net Reserve/Deficiency (MW)	232	290	172	150	131	132	219
Required Regulating Reserve	12.92	15.58	10.79	9.86	9.21	9.14	12.75
Required Contingency Reserve	150.00	150.00	150.00	150.00	150.00	150.00	150.00
Required Dispatchable Reserve	135.00	135.00	135.00	135.00	135.00	135.00	135.00

¹ Power Outlook of Visayas does not consider HVDC export power and Solar capability. (Evening Peak Scenario).

*HVDC import/export will depend on power situation in Luzon and Visayas Grid.

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	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri			
VISAYAS OUTAGE DATA																	
No. of Units/ MW not available due to Outages	1	82	1	82	1	82	1	82	1	82	1	82	1	82	0	0	
Coal	Planned	1	82	1	82	1	82	1	82	1	82	1	82	1	82	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil-based	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil Thermal	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined Cycle (CC)/ Gas Turbine(GT)	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewable Energy	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biomass	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri
MINDANAO POWER OUTLOOK							
Available Capacity (MW)	2650	2638	2638	2650	2650	2650	2650
Coal	1219	1219	1219	1219	1219	1219	1219
Oil-based	522	510	510	522	522	522	522
Oil Thermal							
Diesel*	522	510	510	522	522	522	522
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	909	909	909	909	909	909	909
Geothermal	95	95	95	95	95	95	95
Hydro*	801	801	801	801	801	801	801
Biomass	14	14	14	14	14	14	14
Wind							
Solar*	0	0	0	0	0	0	0
System Load (MW)	1600	1531	1670	1695	1700	1715	1680
Gross Reserve/Deficiency (MW)	1050	1107	968	955	950	935	970
Transmission Line Limitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Regulating Reserve	64.00	61.24	66.80	67.80	68.00	68.60	67.20
Required Contingency Reserve	132.00	132.00	132.00	132.00	132.00	132.00	132.00
Required Dispatchable Reserve	132.00	132.00	132.00	132.00	132.00	132.00	132.00

* Grid & Embedded

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	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	16 Sat	17 Sun	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri
MINDANAO OUTAGE DATA														
No. of Units/MW not available due to Outages	6	271	6	271	6	271	6	271	6	271	6	271	6	271
Coal	<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>	
Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coal	1	125	1	125	1	125	1	125	1	125	1	125	1	125
Oil-based	<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>	
Oil Thermal														
Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel	2	80	2	80	2	80	2	80	2	80	2	80	2	80
Combined Cycle (CC)/ Gas Turbine(GT)	<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>	
Natural Gas														
Natural Gas														
Renewable Energy	<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>		<i>Unplanned</i>		<i>Planned</i>	
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro	1	27	1	27	1	27	1	27	1	27	1	27	1	27
Hydro	2	40	2	40	2	40	2	40	2	40	2	40	2	40
Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind														
Wind														
Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0