

WEEKLY GRID OPERATING PROGRAM (GOP) MONITORING

WEEKLY OPERATING PROGRAM

Period Covered: 18-May-19 to 24-May-19

Based on the available data as of 2pm of May 17, 2019

DATE	MAY						
	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri
LUZON POWER OUTLOOK							
Available Capacity (MW)	12050	11421	12031	11967	12033	11961	12019
Coal	5351	5351	5351	5351	5351	5351	5351
Oil-based	1100	1100	1100	1100	1100	1100	1100
Oil Thermal	0	0	0	0	0	0	0
Diesel	535	535	535	535	535	535	535
Combined Cycle (CC)/ Gas Turbine(GT)	565	565	565	565	565	565	565
Natural Gas	3287	3287	3287	3287	3287	3287	3287
Renewable Energy	2212	1583	2193	2129	2195	2123	2181
Geothermal	445	445	445	445	445	445	445
Hydro	1502	902	1502	1442	1502	1442	1502
Biomass	66	66	66	66	66	66	66
Wind	0	0	0	0	0	0	0
Solar	199	170	180	176	182	170	168
HVDC	100	100	100	100	100	100	100
System Load (MW)	9965	8936	11280	11316	11403	11229	11103
Operating Margin (MW)	2085	2485	751	651	630	732	916
Required Regulating Reserve	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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.

No of Units/MegaWatts not Available

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DATE	MAY														
	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri	
LUZON OUTAGE DATA															
No. of Units/ MW not available due to Outages	6	946	6	946	6	946	6	946	6	946	6	946	6	946	
Coal	<i>Planned</i>	1	300	1	300	1	300	1	300	1	300	1	300	1	300
	<i>Unplanned</i>	1	316	1	316	1	316	1	316	1	316	1	316	1	316
Oil-based															
Oil Thermal	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	1	150	1	150	1	150	1	150	1	150	1	150	1	150
Diesel	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined Cycle (CC)/ Gas Turbine(GT)	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	1	25	1	25	1	25	1	25	1	25	1	25	1	25
Natural Gas	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewable Energy															
Geothermal	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro	<i>Planned</i>	2	155	2	155	2	155	2	155	2	155	2	155	2	155
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biomass	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solar	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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DATE	MAY						
	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri
VISAYAS POWER OUTLOOK¹							
Available Capacity (MW)	2280	2280	2280	2267	2267	2267	2267
Coal	1192	1192	1192	1192	1192	1192	1192
Oil-based	314	314	314	301	301	301	301
Oil Thermal							
Diesel	314	314	314	301	301	301	301
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	775	775	775	775	775	775	775
Geothermal	744	744	744	744	744	744	744
Hydro	3	3	3	3	3	3	3
Biomass	23	23	23	23	23	23	23
Wind	4	4	4	4	4	4	4
Solar	0	0	0	0	0	0	0
System Load (MW)	2008	1939	2089	2099	2105	2106	2095
Gross Reserve/Deficiency (MW)	272	341	191	168	162	161	172
Transmission Line Limitation	0	0	0	0	0	0	0
Operating Margin (MW)	272	341	191	168	162	161	172
Required Regulating Reserve	10.89	13.63	7.63	6.74	6.49	6.44	6.88
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.

No of Units/MegaWatts not Available

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	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri
VISAYAS OUTAGE DATA							
No. of Units/ MW not available due to Outages	0	0	0	0	0	1	13
Coal	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Oil-based	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Oil Thermal	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Diesel	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	1	13	1
Combined Cycle (CC)/ Gas Turbine(GT)	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Natural Gas	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Renewable Energy	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Geothermal	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Hydro	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Biomass	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Wind	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0
Solar	Planned	0	0	0	0	0	0
	Unplanned	0	0	0	0	0	0

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DATE	MAY						
	18 Sat	19 Sun	20 Mon	21 Tue	22 Wed	23 Thu	24 Fri
MINDANAO POWER OUTLOOK							
Available Capacity (MW)	2287	2260	2288	2242	2243	2241	2241
Coal	1374	1374	1374	1374	1374	1374	1374
Oil-based	467	467	467	419	419	419	419
Oil Thermal							
Diesel*	467	467	467	419	419	419	419
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	446	419	448	450	451	448	448
Geothermal	93	93	93	93	93	93	93
Hydro*	312	313	312	312	312	312	312
Biomass	14	14	14	14	14	14	14
Wind							
Solar*	27	0	29	31	32	30	30
System Load (MW)	1700	1630	1910	1933	1935	1940	1921
Operating Margin (MW)	587	630	378	309	308	301	320
Transmission Line Limitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Regulating Reserve	68.00	65.20	76.40	77.31	77.40	77.60	76.84
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

Some Mindanao Hydro Plants are on Reserved Shutdown due to low water elevation.

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MINDANAO OUTAGE DATA														
No. of Units/MW not available due to Outages	10	504	10	504	10	504	12	637	13	687	14	739	14	739
Coal	Planned		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
Oil-based	Planned													
	Unplanned													
Oil Thermal	Planned													
	Unplanned													
Diesel	Planned		0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned		0	0	0	0	0	1	48	1	48	1	48	1
Combined Cycle (CC)/ Gas Turbine(GT)	Planned													
	Unplanned													
Natural Gas	Planned													
	Unplanned													
Renewable Energy	Planned		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
Geothermal	Planned		0	0	0	0	0	1	85	2	135	3	187	3
	Unplanned		10	504	10	504	10	504	10	504	10	504	10	504
Hydro	Planned		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
Biomass	Planned													
	Unplanned													
Wind	Planned													
	Unplanned													
Solar	Planned		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