

WEEKLY GRID OPERATING PROGRAM (GOP) MONITORING

WEEKLY OPERATING PROGRAM

Period Covered: **8-Dec-18** to **14-Dec-18**

No of Units/MegaWatts not Available

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DATE	DECEMBER						
	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri
LUZON POWER OUTLOOK							
Available Capacity (MW)	11569	11029	11719	11694	11694	11694	11694
Coal	5166	5166	5316	5316	5316	5316	5316
Oil-based	839	839	839	814	814	814	814
Oil Thermal	0	0	0	0	0	0	0
Diesel	454	454	454	454	454	454	454
Combined Cycle (CC)/ Gas Turbine(GT)	385	385	385	360	360	360	360
Natural Gas	2864	2864	2864	2864	2864	2864	2864
Renewable Energy	2690	2150	2690	2690	2690	2690	2690
Geothermal	423	423	423	423	423	423	423
Hydro	2200	1660	2200	2200	2200	2200	2200
Biomass	67	67	67	67	67	67	67
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)	8646	7937	9580	9629	9723	9730	9636
Gross Reserve/Deficiency (MW)	2923	3092	2139	2065	1971	1964	2058
Limitations	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Regulating Reserve	345.84	317.48	383.20	385.16	388.92	389.20	385.44
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	DECEMBER														
	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri	
LUZON OUTAGE DATA															
No. of Units/ MW not available due to Outages		10	1550	10	1550	10	1550	10	1425	9	1385	9	1385	9	1385
Coal	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	3	585	3	585	3	585	2	435	2	435	2	435	2	435
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	1	70
	Unplanned	1	25	1	25	1	25	2	50	2	50	2	50	2	50
Natural Gas	Planned	1	420	1	420	1	420	1	420	1	420	1	420	1	420
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewable Energy															
Geothermal	Planned	1	40	1	40	1	40	1	40	1	40	1	40	1	40
	Unplanned	1	40	1	40	1	40	1	40	0	0	0	0	0	0
Hydro	Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unplanned	1	50	1	50	1	50	1	50	1	50	1	50	1	50
Biomass	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
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	DECEMBER						
	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri
VISAYAS POWER OUTLOOK¹							
Available Capacity (MW)	2043	2043	2079	2182	2182	2182	2182
Coal	940	940	940	1043	1043	1043	1043
Oil-based	300	300	300	300	300	300	300
Oil Thermal							
Diesel	300	300	300	300	300	300	300
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	803	803	839	839	839	839	839
Geothermal	708	708	745	745	745	745	745
Hydro	5	5	5	5	5	5	5
Biomass	43	43	43	43	43	43	43
Wind	47	47	47	47	47	47	47
Solar	0	0	0	0	0	0	0
System Load (MW)	1834	1726	1940	1961	1989	1976	1965
Gross Reserve/Deficiency (MW)	208	317	139	222	194	206	217
Transmission Line Limitation	76	88	61	56	53	58	63
Net Reserve/Deficiency (MW)	132	229	78	166	141	148	154
Required Regulating Reserve	8.34	12.68	5.57	8.87	7.75	8.25	8.68
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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	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri	
VISAYAS OUTAGE DATA															
No. of Units/ MW not available due to Outages	1	103	1	103	1	103	2	141	2	141	2	141	2	141	
Coal	Planned	1	103	1	103	1	103	1	103	1	103	1	103	1	103
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oil-based															
Oil Thermal	Planned	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	
Diesel	Planned	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	
Combined Cycle (CC)/ Gas Turbine(GT)	Planned	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	
Natural Gas	Planned	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	
Renewable Energy															
Geothermal	Planned	0	0	0	0	0	0	1	38	1	38	1	38	1	38
	Unplanned	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	
	Unplanned	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	
	Unplanned	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	
	Unplanned	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	
	Unplanned	0	0	0	0	0	0	0	0	0	0	0	0	0	

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	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri
MINDANAO POWER OUTLOOK							
Available Capacity (MW)	2392	2392	2464	2404	2404	2404	2404
Coal	1231	1231	1231	1231	1231	1231	1231
Oil-based	432	432	504	504	504	504	504
Oil Thermal							
Diesel*	432	432	504	504	504	504	504
Combined Cycle (CC)/ Gas Turbine(GT)							
Natural Gas							
Renewable Energy	730	730	730	670	670	670	670
Geothermal	98	98	98	98	98	98	98
Hydro*	623	623	623	563	563	563	563
Biomass	9	9	9	9	9	9	9
Wind							
Solar*	0	0	0	0	0	0	0
System Load (MW)	1714	1593	1819	1836	1856	1859	1825
Gross Reserve/Deficiency (MW)	678	799	645	568	548	545	579
Transmission Line Limitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Regulating Reserve	68.55	63.72	72.77	73.46	74.24	74.36	73.01
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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	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri	8 Sat	9 Sun	10 Mon	11 Tue	12 Wed	13 Thu	14 Fri
MINDANAO OUTAGE DATA														
No. of Units/MW not available due to Outages	7	360	7	360	7	360	8	445	8	445	9	505	9	505
Coal	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	1	125	1	125	1	125	1	125	1	125	1	125	1
Oil-based														
Oil Thermal	<i>Planned</i>													
	<i>Unplanned</i>													
Diesel	<i>Planned</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
	<i>Unplanned</i>	2	71	2	71	2	71	2	71	2	71	2	71	2
Combined Cycle (CC)/ Gas Turbine(GT)	<i>Planned</i>													
	<i>Unplanned</i>													
Natural Gas	<i>Planned</i>													
	<i>Unplanned</i>													
Renewable Energy														
Geothermal	<i>Planned</i>	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
Hydro	<i>Planned</i>	3	138	3	138	3	138	3	138	3	138	4	198	4
	<i>Unplanned</i>	1	27	1	27	1	27	2	112	2	112	2	112	2
Biomass	<i>Planned</i>	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
Wind	<i>Planned</i>													
	<i>Unplanned</i>													
Solar	<i>Planned</i>	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