



MONTHLY MARKET ASSESSMENT HIGHLIGHTS

26 May to 25 June 2024

AUGUST 2024









Document Information Classification: Public

The information contained in this document is based on data that are subject to continuous verification by the Philippine Electricity Market Corporation (PEMC). The same information is subject to change as updated figures come in.

SUMMARY OF OBSERVATIONS

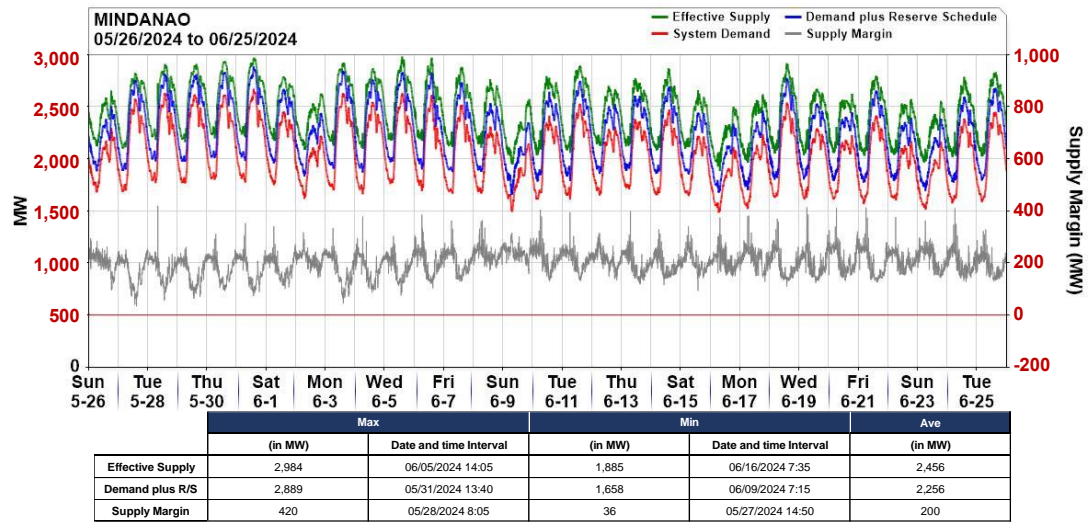
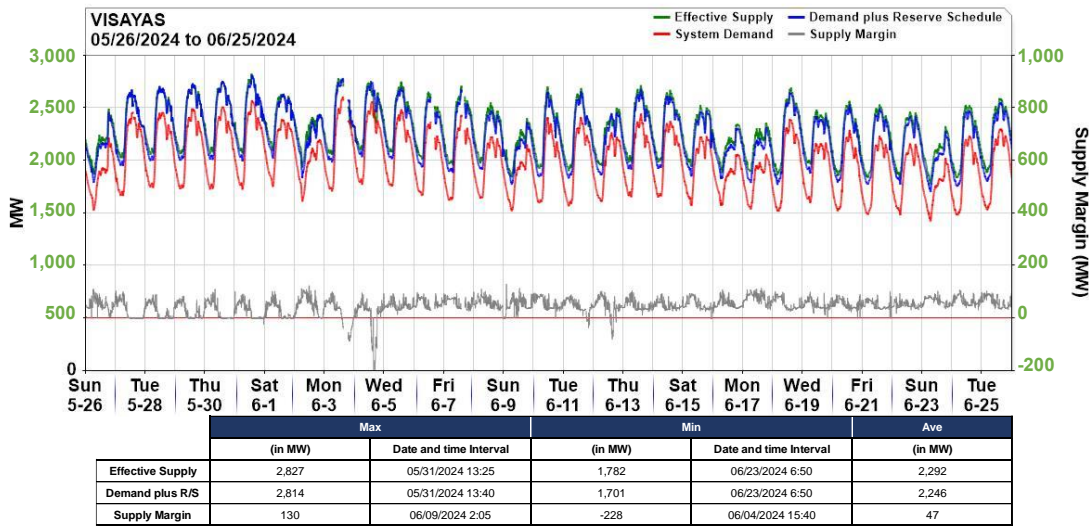
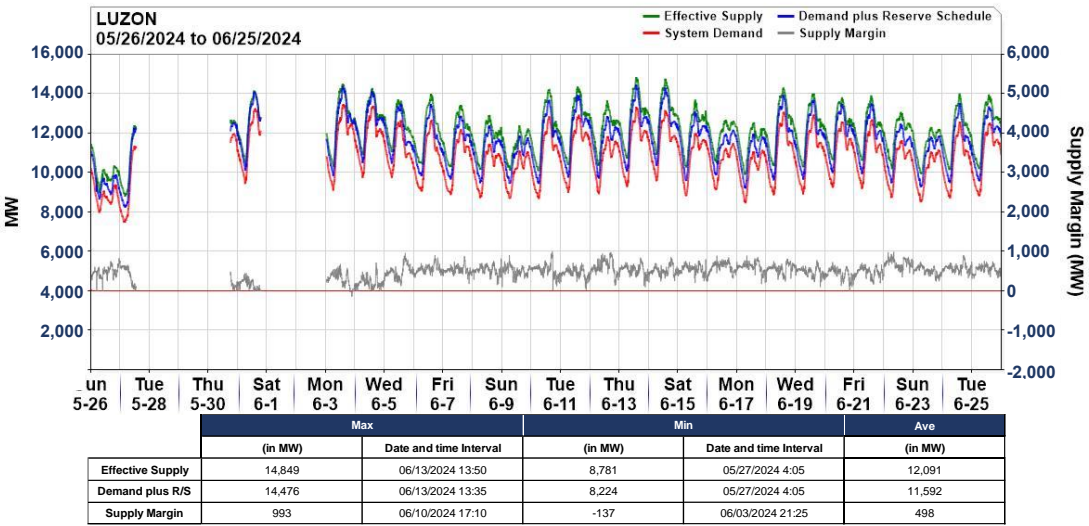
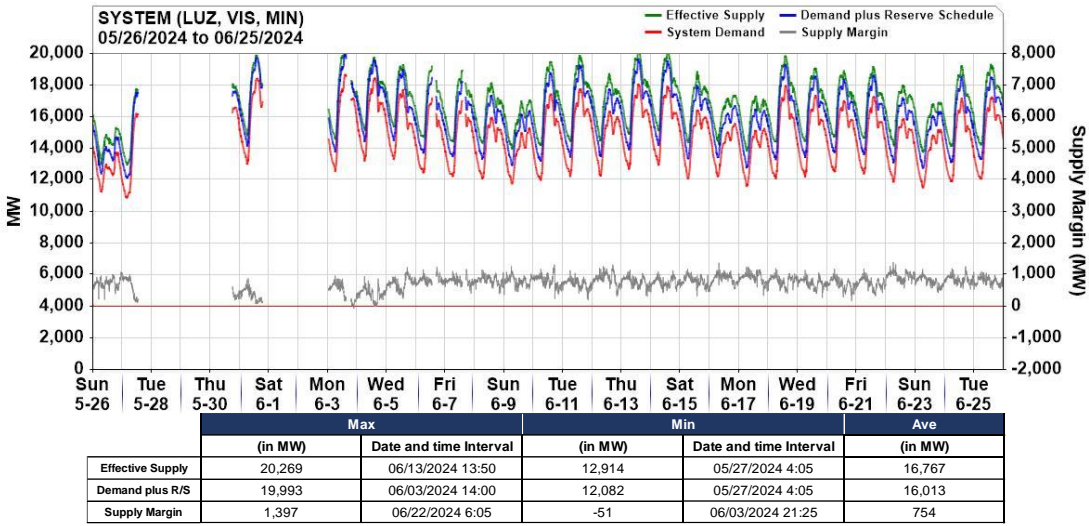
- **Secondary Price Cap impositions:**
 - System-wide: 589 trading intervals; and Visayas-Mindanao: 421 trading intervals
- **Yellow Alert** notice issuances by the System Operator
 - Luzon: 26 – 31 May, and 1, 3, 4, and 5 June 2024; Visayas: 28, 29, and 31 May 2024
- **Red Alert** notice issuances by the System Operator in Luzon on 27, 28, 29, and 31 May, and 1 June 2024
- **ERC declaration of Market Suspension** in Luzon on 27 May to 3 June 2024 following the System Operator’s issuance of red alert notices
- **Declaration of Market Intervention events** by:
 - SO – Visayas on 27 May and 3, 6, 7, June 2024 affecting 122 trading intervals
 - MO – System-wide (Luzon, Visayas, and Mindanao) on 11 June 2024 affecting 2 trading intervals
- Notable congestions: Maasin-Ubay line 1 for 2,941 trading intervals (33% of the time); Samboan-Amlan Line 1 for 686 trading intervals (8% of the time); Barotac-Viejo lines 1 and 2 for 581 and 399 trading intervals (7% and 4% of the time), respectively.

AT A GLANCE

<div></div> <div>Total registered capacity (in MW) 28,304.4  0.08% Previous Month: 28,281.3 MW</div>	<div></div> <div>Capacity on Outage (in MW) 2,565 9.10% of the total registered capacity Previous Month: 2,847 MW</div>	<div></div> <div>Capacity of Plants on Commissioning (in MW) 1,714 6.06% of the total registered capacity Previous Month: 1,575 MW</div>
<div></div> <div>Capacity <u>Not</u> Offered/Nominated (in MW) 4,658 16.46% of the total registered capacity Previous Month: 4,396 MW</div>	<div></div> <div>Capacity Offered/Nominated (in MW) 19,358 68.39% of the total registered capacity Previous Month: 19,044 MW</div>	<div></div> <div>System-wide Load Weighted Average Price (LWAP) (in PHP/MWh) 6,145.58  25.21% Previous Month: 8,217.56</div>

MARKET OUTCOME

SUPPLY AND DEMAND

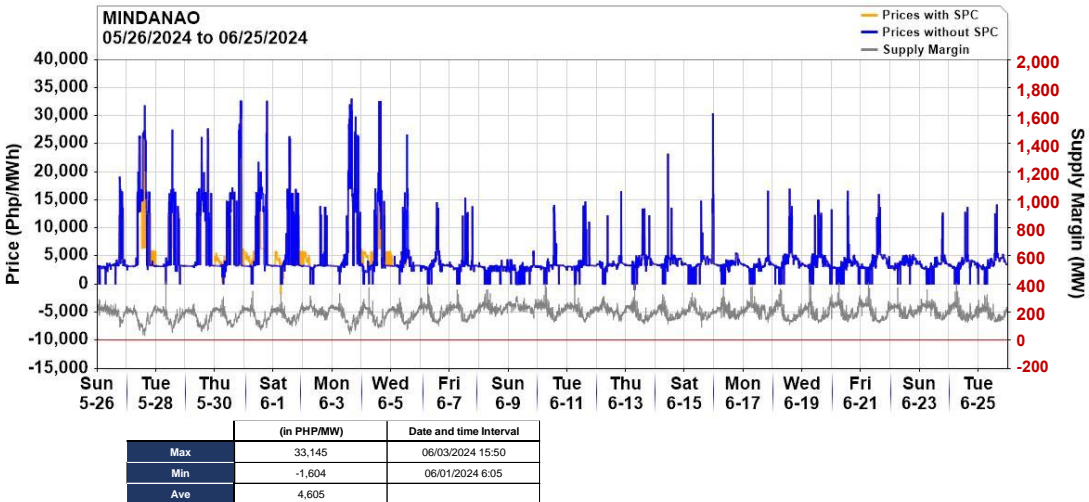
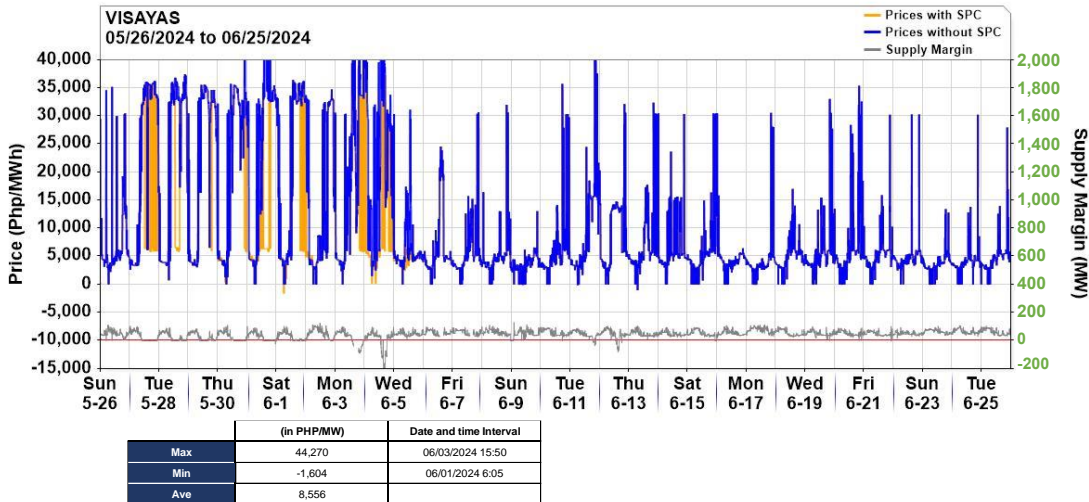
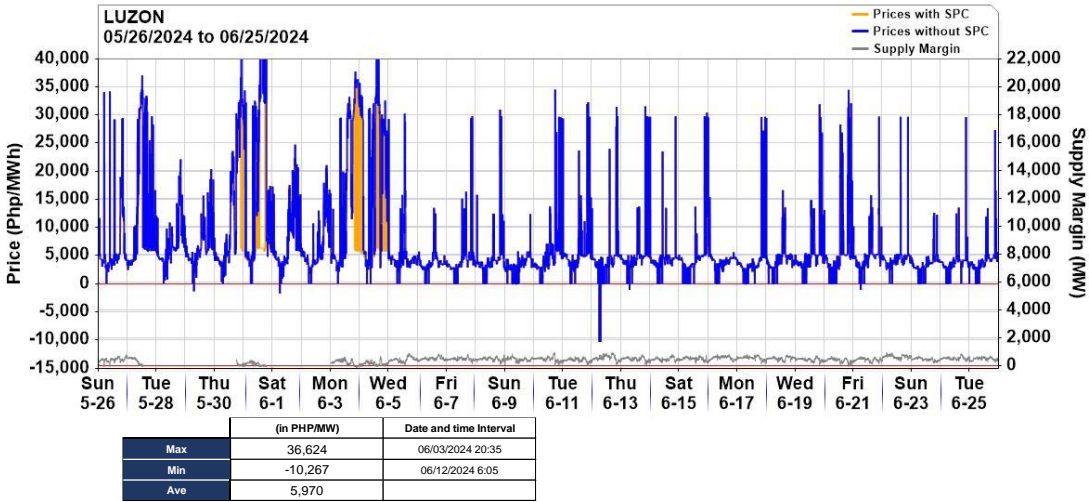
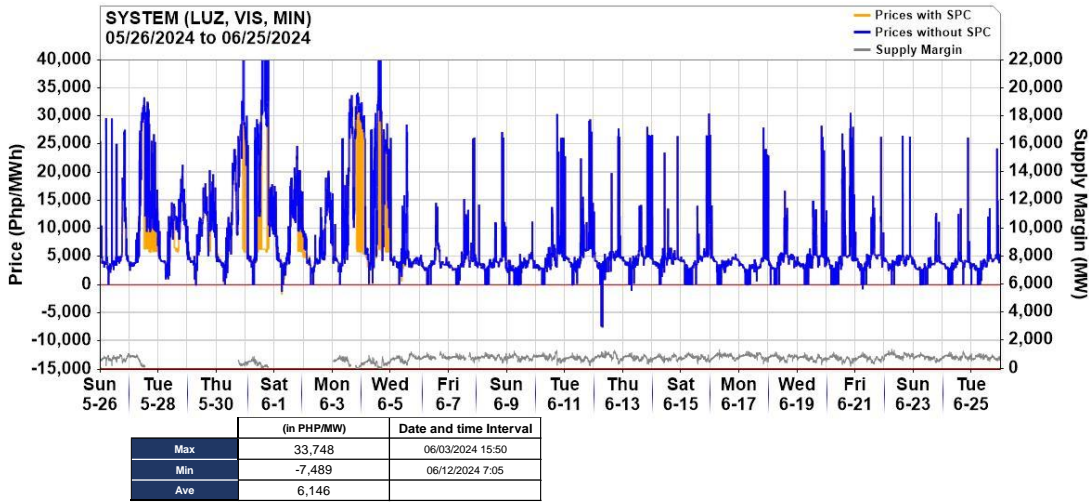


System-wide effective supply fell by 4.59% for the June billing period due to forced outages of major coal and natural gas plants, combined with the scheduled/planned maintenance of large hydro plants all within the Luzon region. This significantly reduced supply margin by 19.12%. Meanwhile, the rainy season contributed to a 4.48% decline in electricity demand for the billing month.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

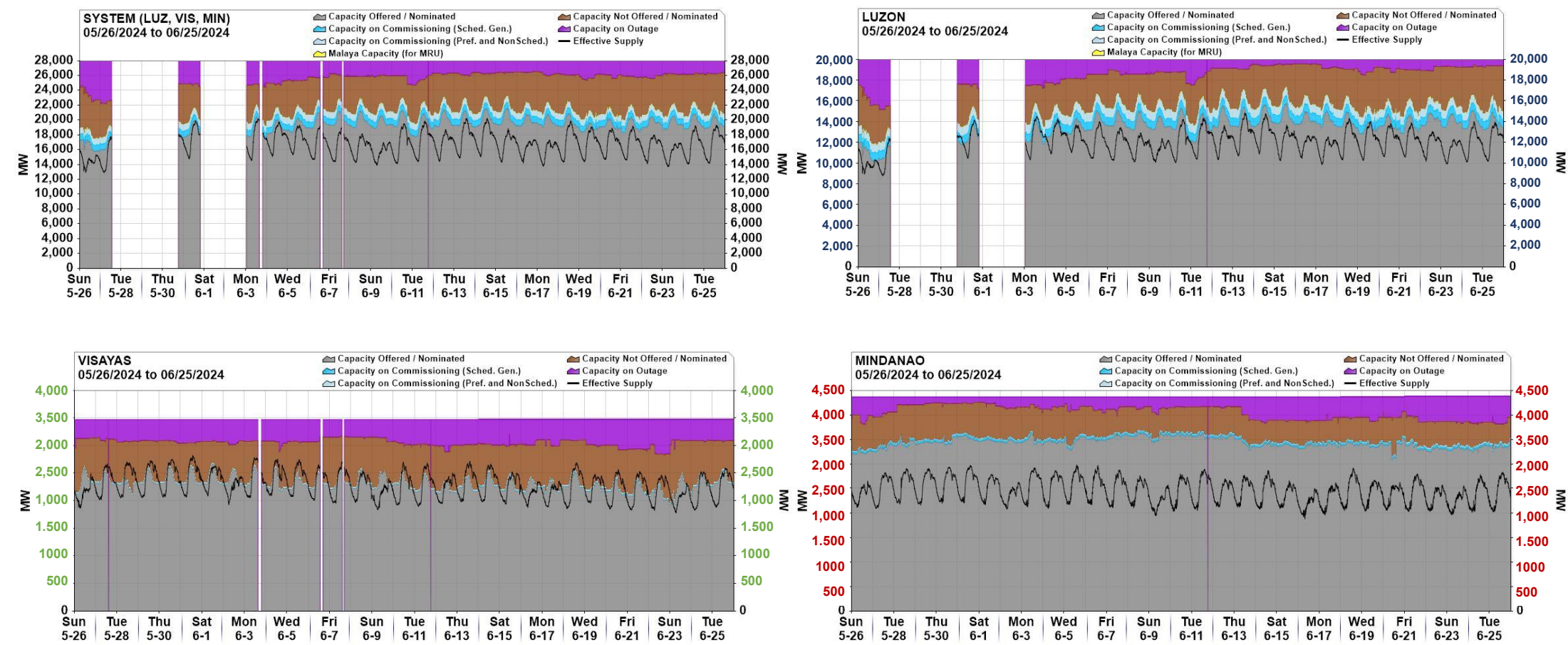
MARKET PRICE



There were instances of price spikes observed in all regions, primarily due to the lack of enough supply margin. Despite the reduction in the system's supply margin, average prices still managed to decrease by 25.21%. The data suggests that the secondary price cap, which affected 29% of trading intervals, contributed to the overall price reduction. Moreover, market prices beyond the offer price floor and cap were driven by the application of costs of losses and congestion resulting from the current locational marginal pricing design of the system.

MARKET OUTCOME

CAPACITY PROFILE



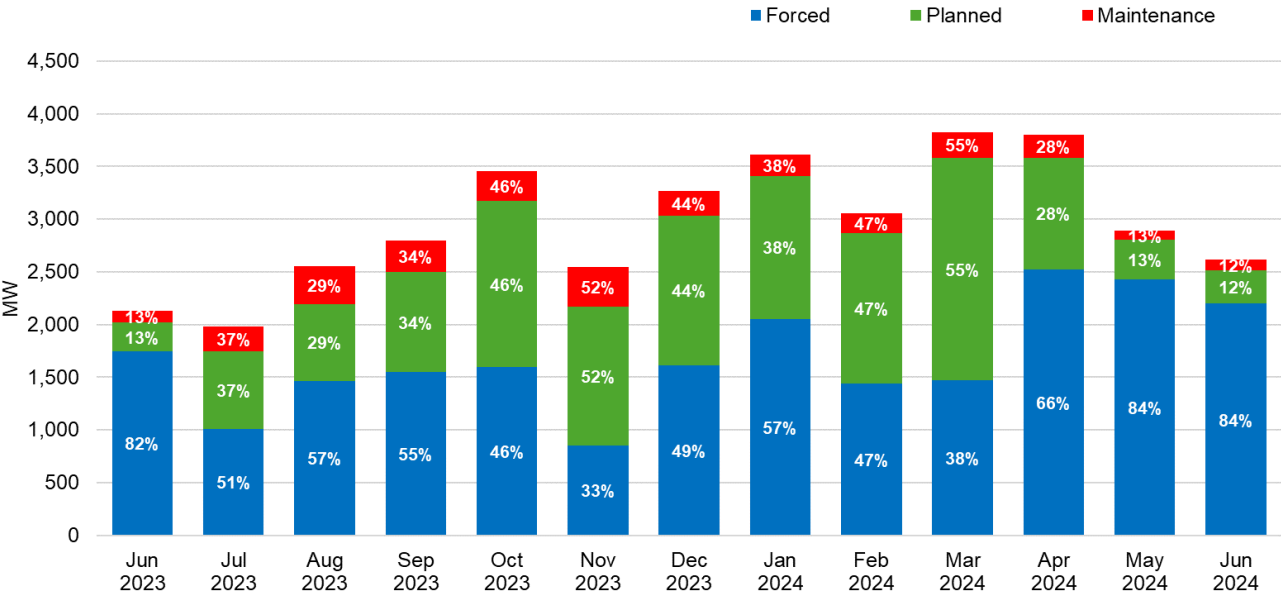
A 0.08% net increase in the total system registered capacity, reaching 28,304.4 MW, was noted during the current billing period. This increase was due to the increase in maximum capacity of two (2) plants (1 hydroelectric plant and 1 coal plant) and entry of one (1) new geothermal power plant. However, 16.36% of the capacity (4,658 MW) was notably not offered or nominated, likely due to resource limitations. The Enforcement and Compliance Office of PEMC will further investigate these capacities under constraints.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

CAPACITY ON OUTAGE

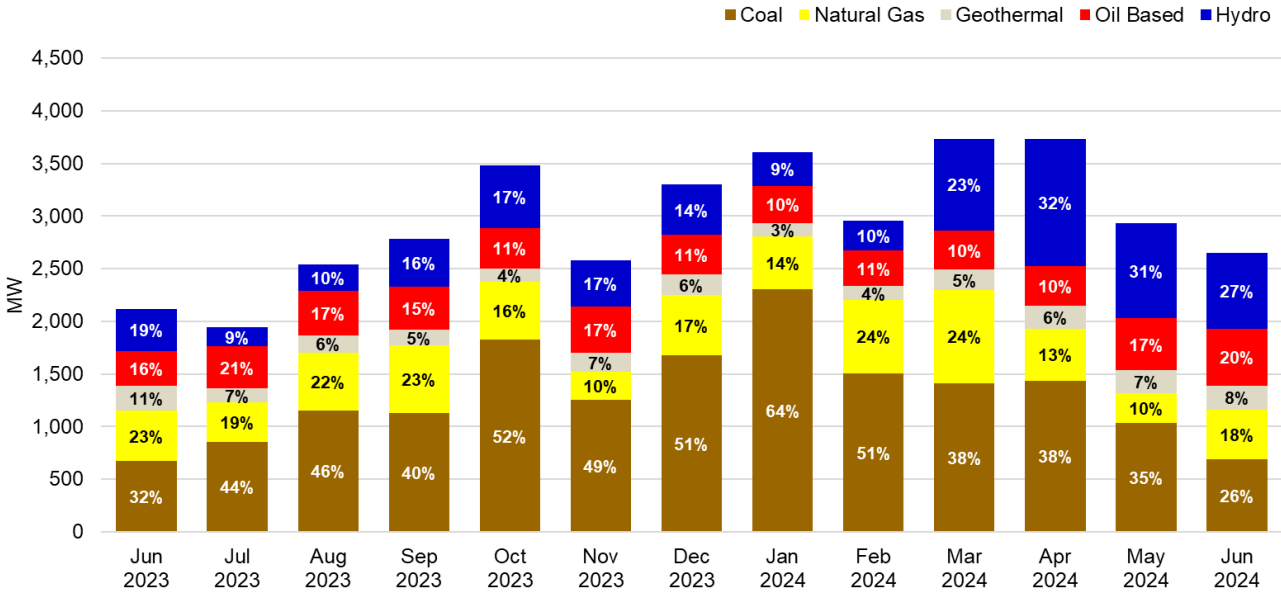
MONTHLY AND BY CATEGORY



An analysis of the past thirteen (13) months indicates that about 58% of averages outages were categorized as forced outages, with planned outages constituting 34% of the total observations.

Of all outages in the past 13 months, 44% were contributed by coal-fired plants, while hydroelectric and natural gas plants each contributed 18%.

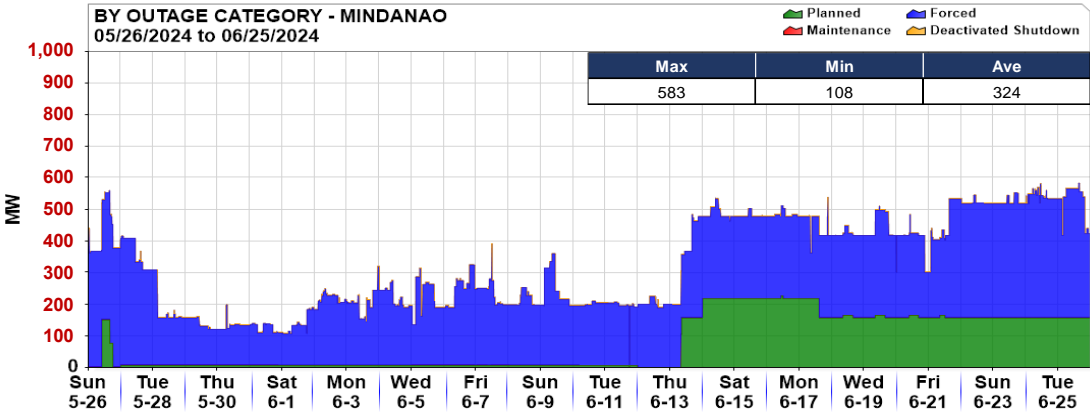
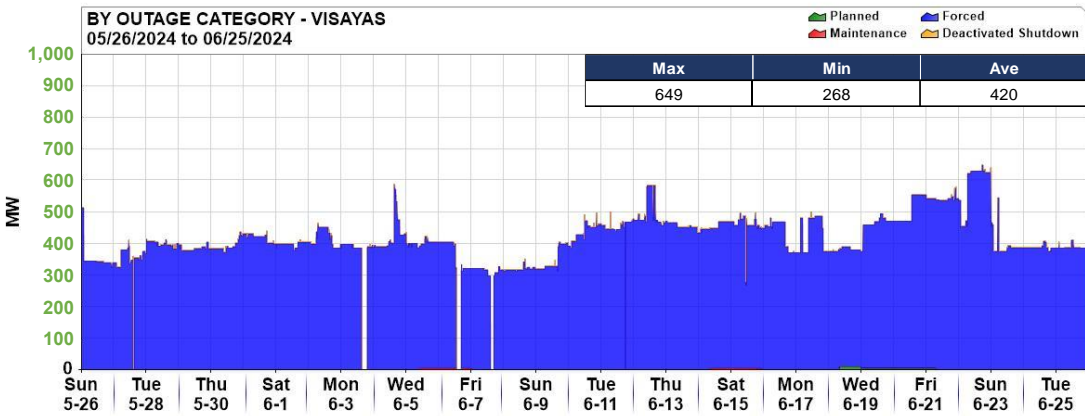
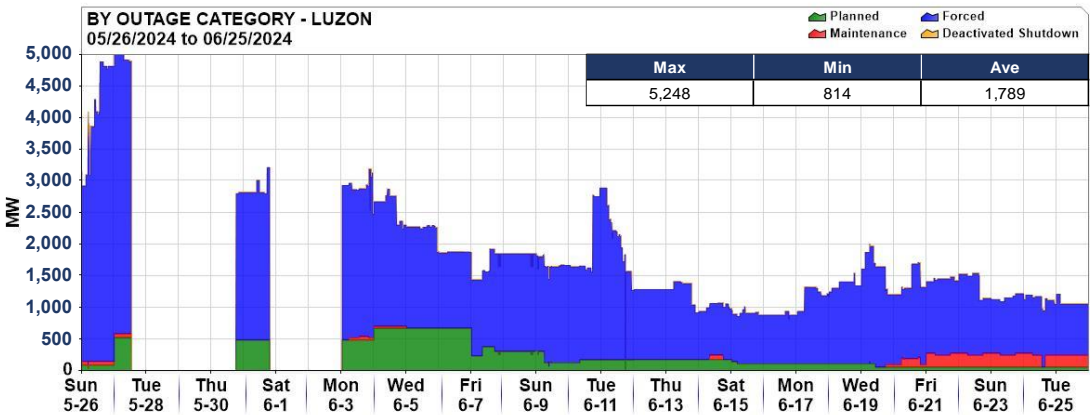
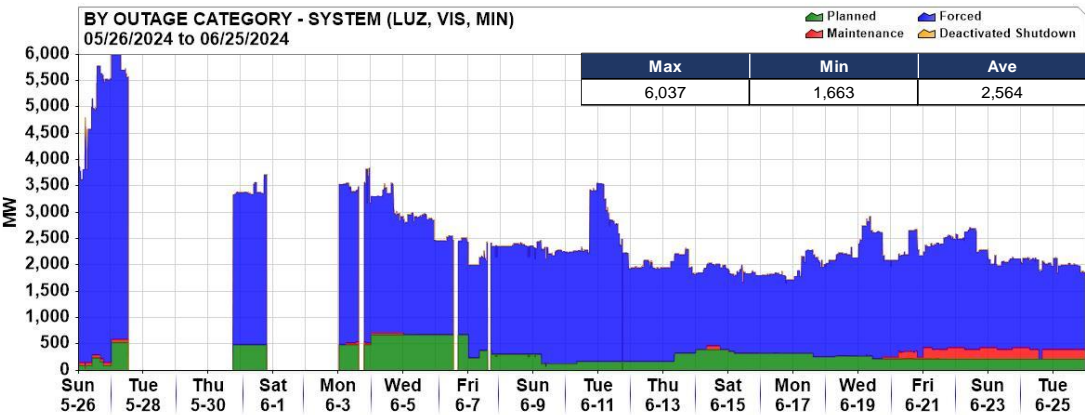
MONTHLY AND BY PLANT TYPE



MARKET OUTCOME

CAPACITY ON OUTAGE

BY CATEGORY



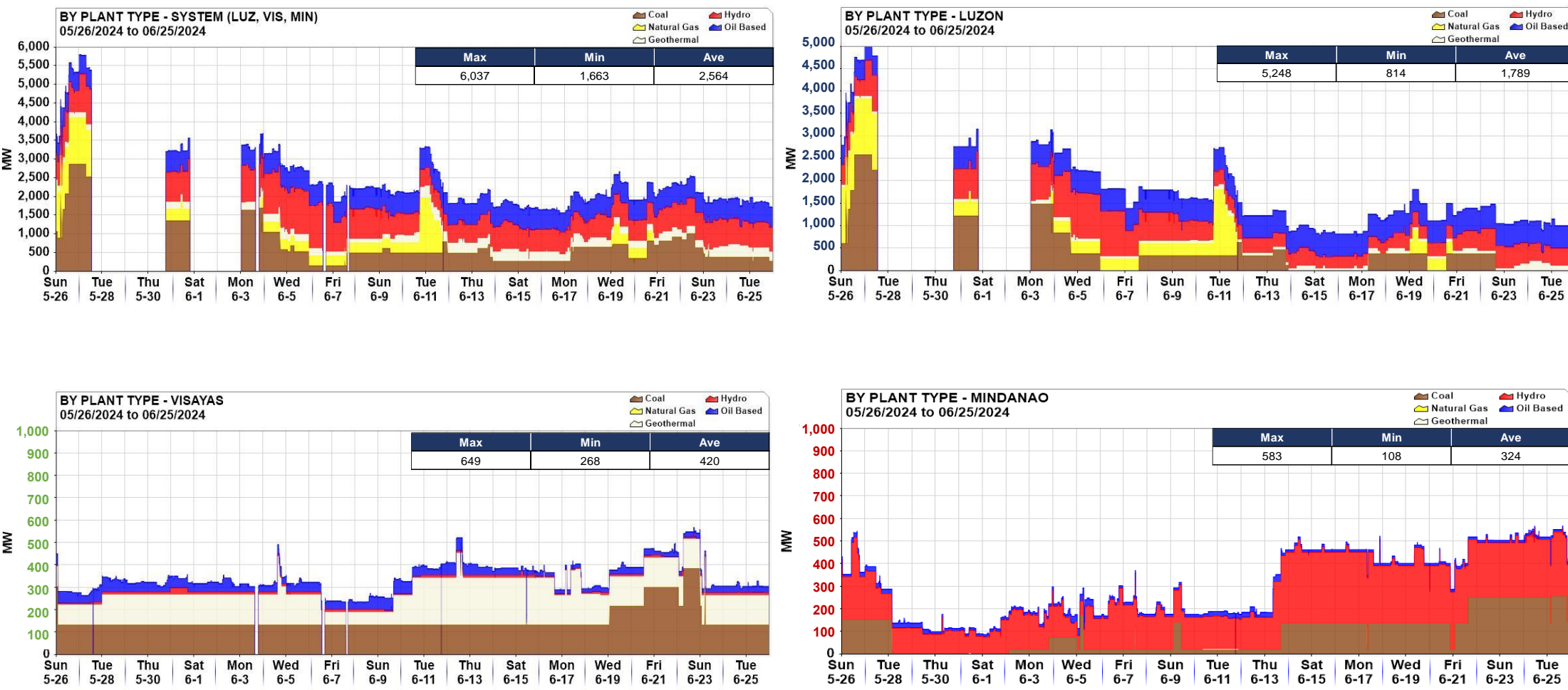
Of the 8,928 total trading intervals, 10% or 1,351 intervals experienced outage levels exceeding 3,000 MW, a 41.77% decrease in the number of affected intervals from the previous month. When outage levels were below 3,000 MW, the average supply margin was 802 MW, and the average price was PHP4,660/MWh. Conversely, during periods of higher outages (above 3,000 MW), the average supply margin decreased to 547 MW while the average price increased to PHP8,666/MWh.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

CAPACITY ON OUTAGE

BY PLANT TYPE

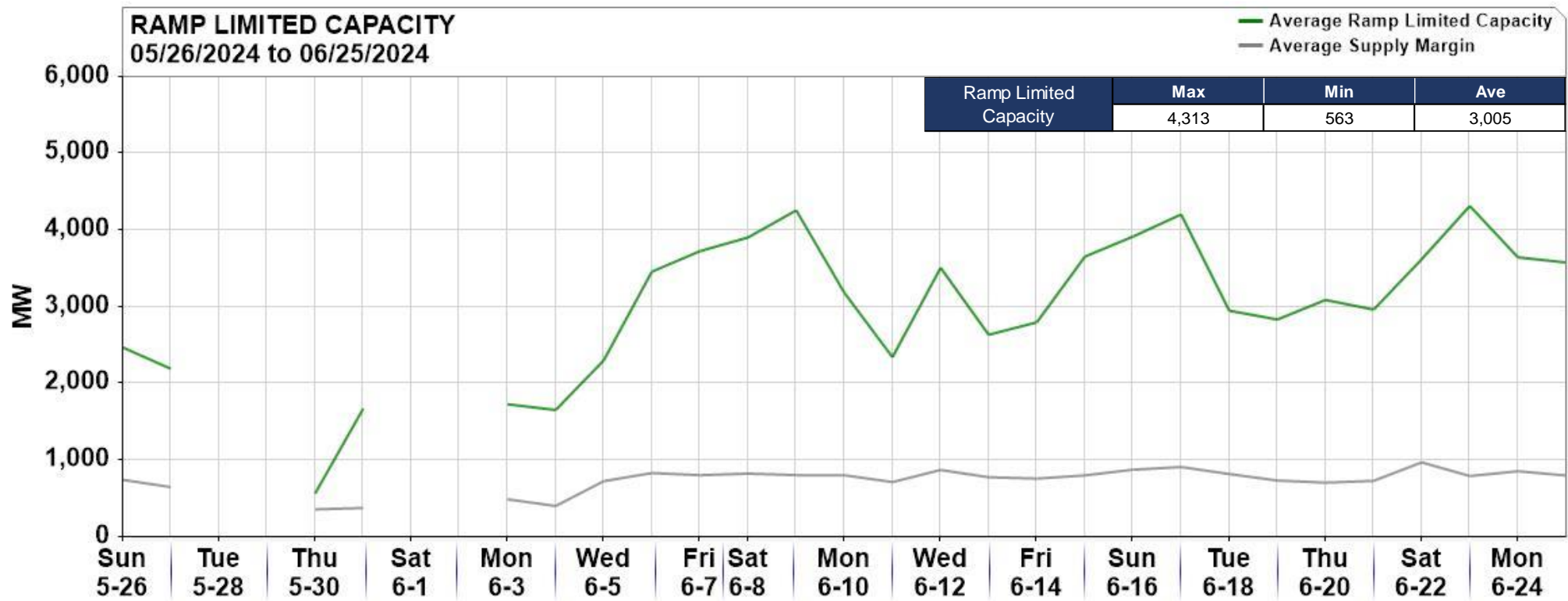


While some plants have returned to operations, overall capacity on outage remained relatively high, particularly in Luzon. Coal and natural gas plants account for the largest share of these outages due to unplanned shutdowns. Additionally, the start of the rainy season has reduced hydropower plant outages by approximately 19%.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

RAMP LIMITED CAPACITY

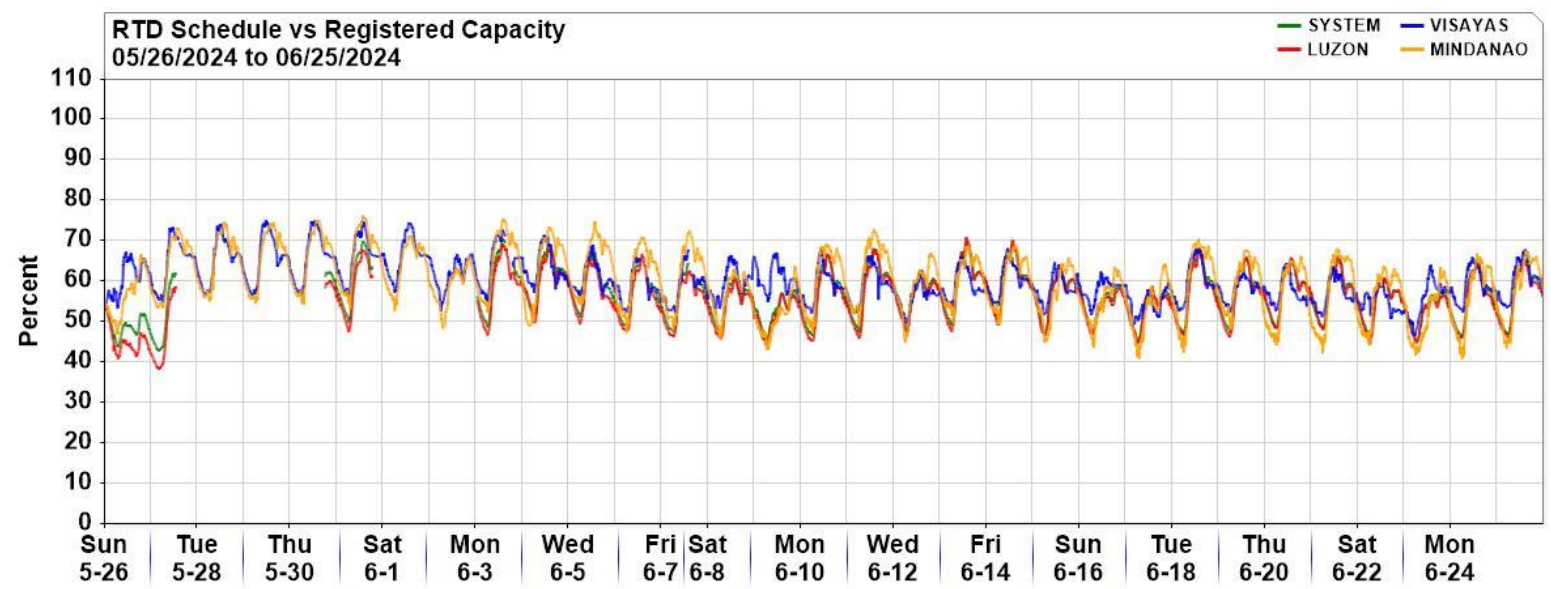
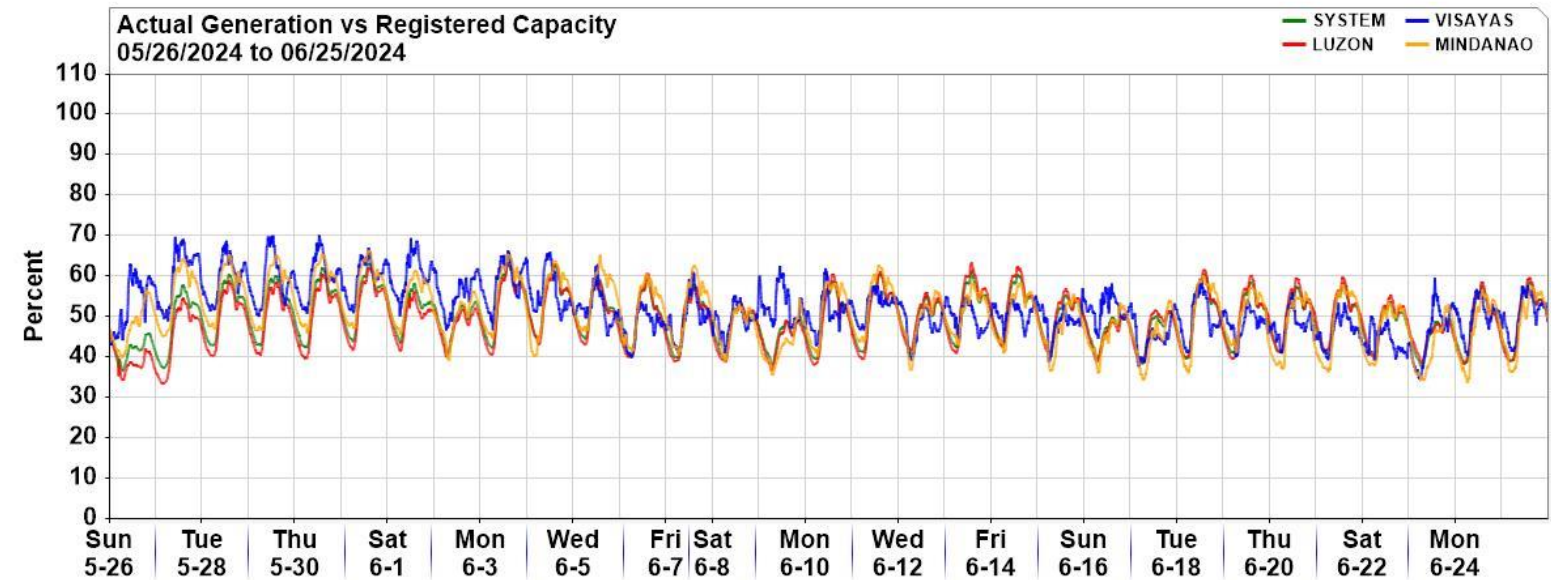


The average Ramp Limited capacity was observed to have increased by an average of 46.01%, from an average of 2,057 MW last billing month, due to resource and technical limitations.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

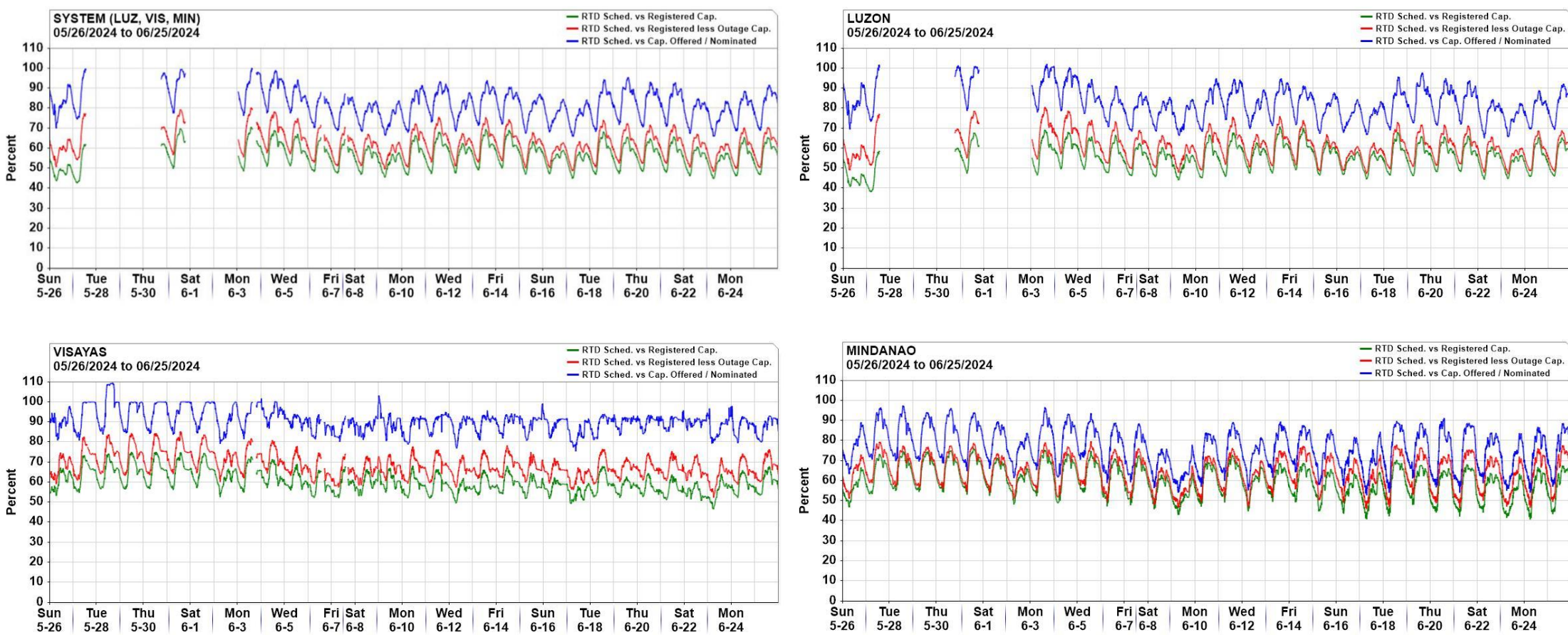
CAPACITY FACTOR



Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

CAPACITY FACTOR



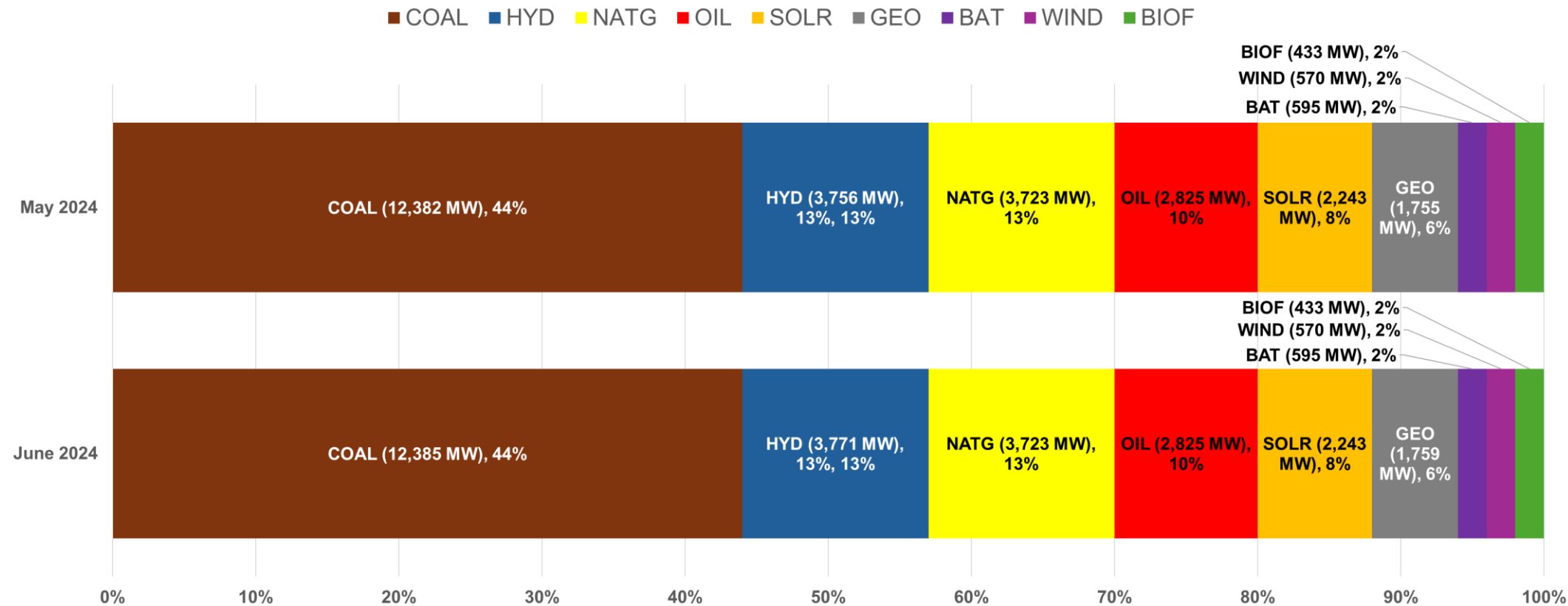
System-wide comparisons of RTD schedules, registered capacity, and capacity offered/nominated showed an average decline of 5.23% compared to the previous month. While there were fluctuations in capacity factors based on the day of the week, with weekdays seeing higher utilization (84%) than weekends and holidays (78%), overall capacity utilization remained to be high.

Capacity factors exceeding 100% were primarily caused by plants under commissioning, which received RTD schedules despite not submitting market offers due to system constraints or inaccessibility of the market participant interface.

Note: Data points missing values indicate market intervention and/or suspension periods.

MARKET OUTCOME

REGISTERED CAPACITY

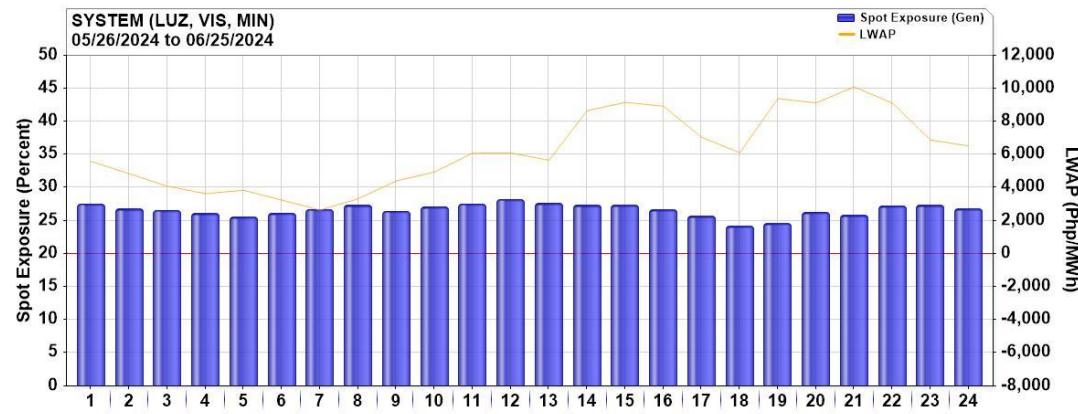


Total registered capacity increased by 23.1 MW in June 2024 billing month, primarily driven by increase of capacity for one (1) hydroelectric plant in Luzon and (1) one coal plant in Mindanao coupled with the (1) one new geothermal power plant in Visayas.

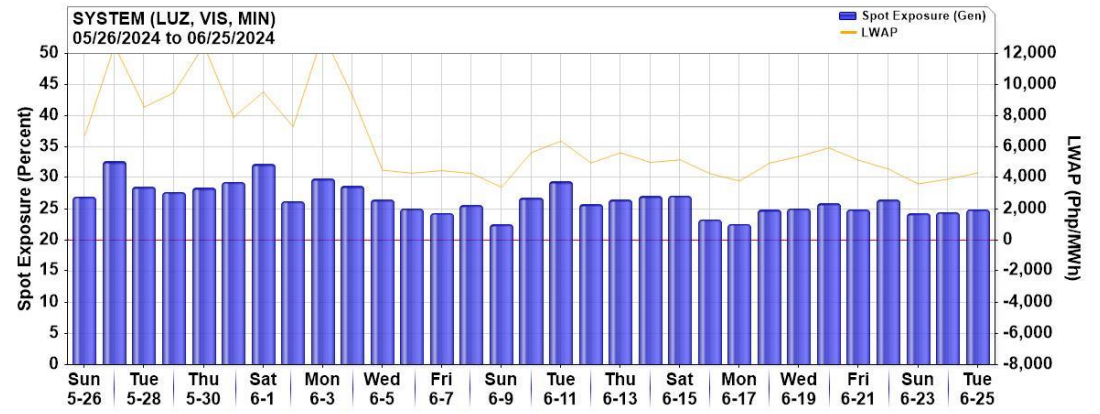
MARKET OUTCOME

SPOT EXPOSURE

HOURLY SPOT

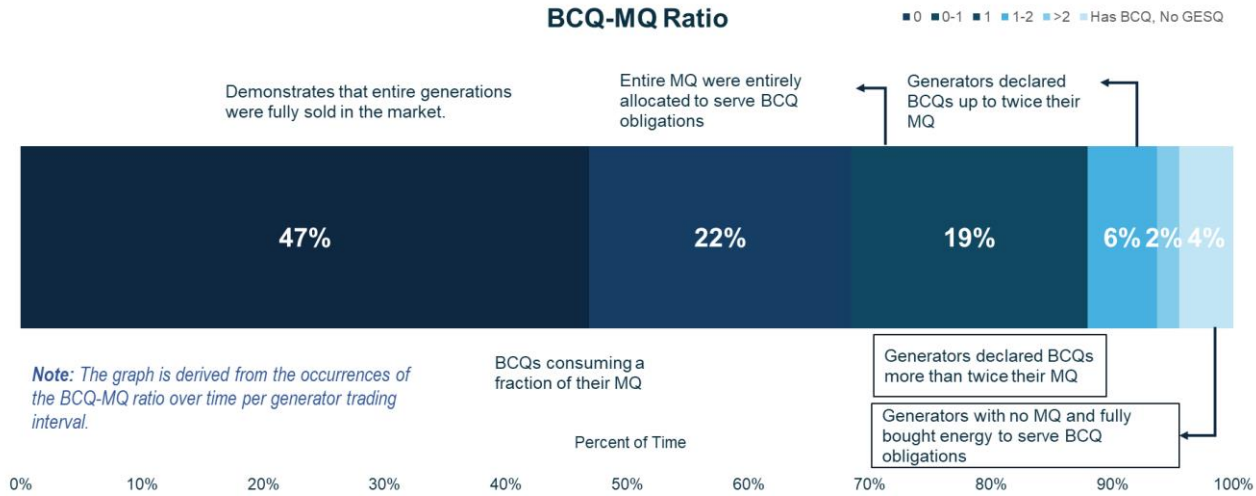


DAILY SPOT



Total spot quantities of generator participants for the June 2024 billing period were at an average of 26.69% with an average price of PHP4,848/MWh during off-peak hours while during peak hours, the average exposure was at 26.62% with an average price of PHP7,610/MWh. In addition, spot exposures during weekends posted an average of 26.06% with an average price of PHP5,474/MWh while it was at an average of 27.01% during weekdays with an average price of PHP6,976/MWh. Moreover, during holidays posted an average of 24.13% with an average price of PHP4,411/MWh.

BCQ-MQ Ratio

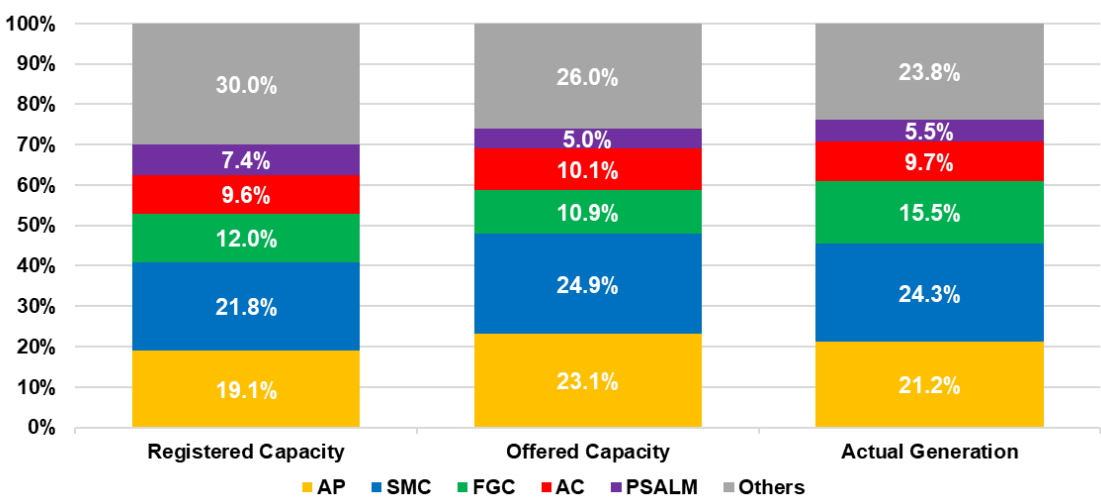


June 2024 billing period breakdown of metered quantities vis-à-vis bilateral contract declarations. Majority of which were sold directly to the spot market.

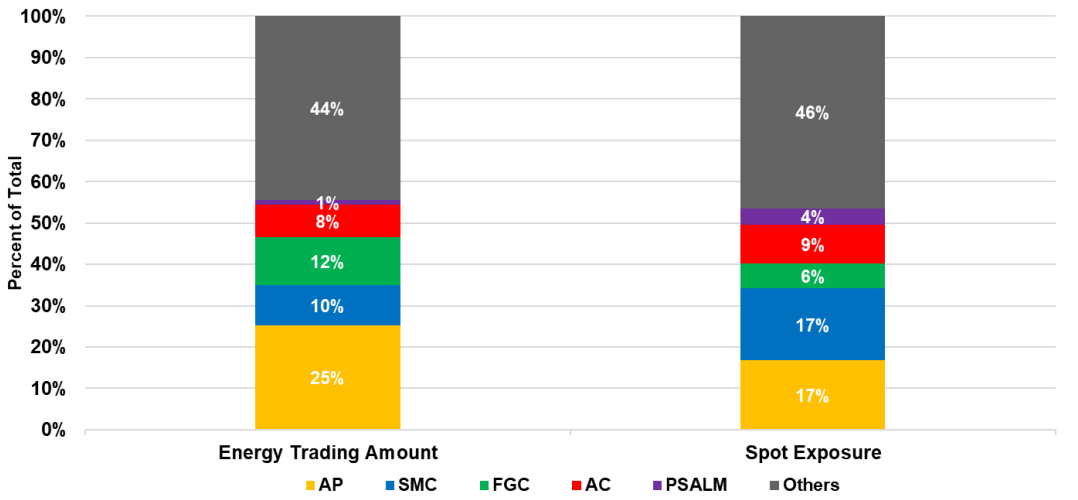
MARKET OUTCOME

STRUCTURAL COMPETITION

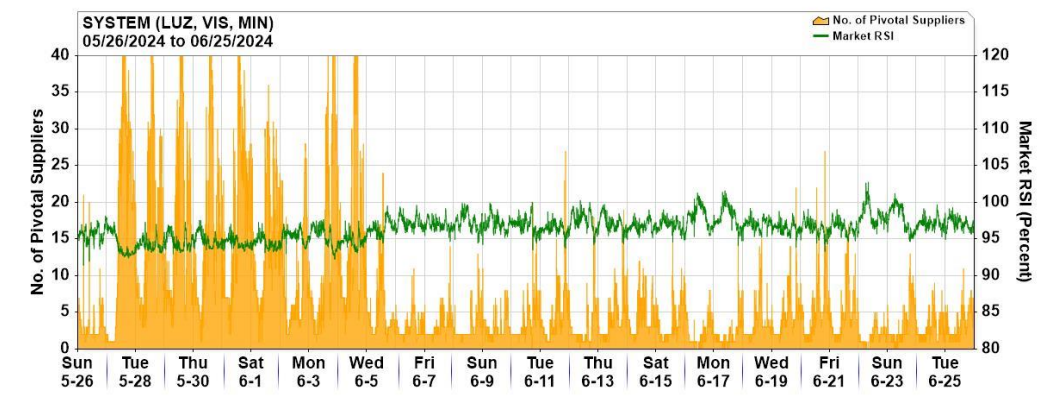
SYSTEM MARKET SHARES



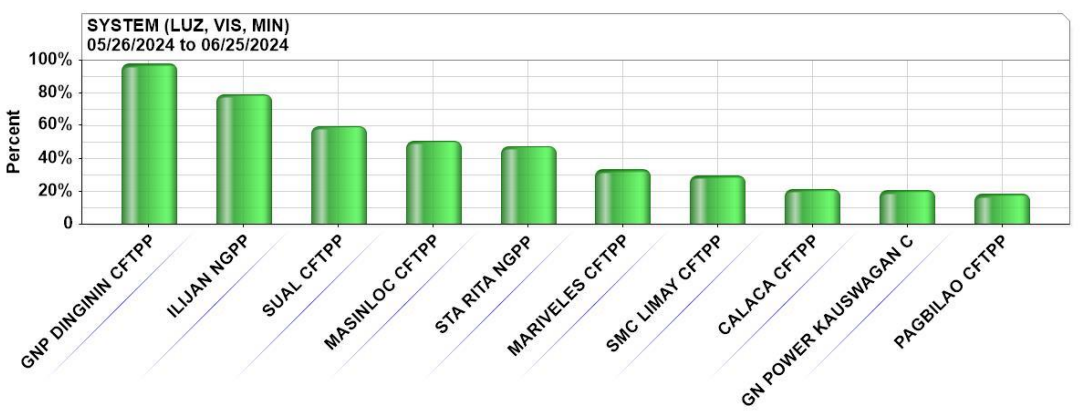
ETA AND SPOT EXPOSURE



SYSTEM RSI



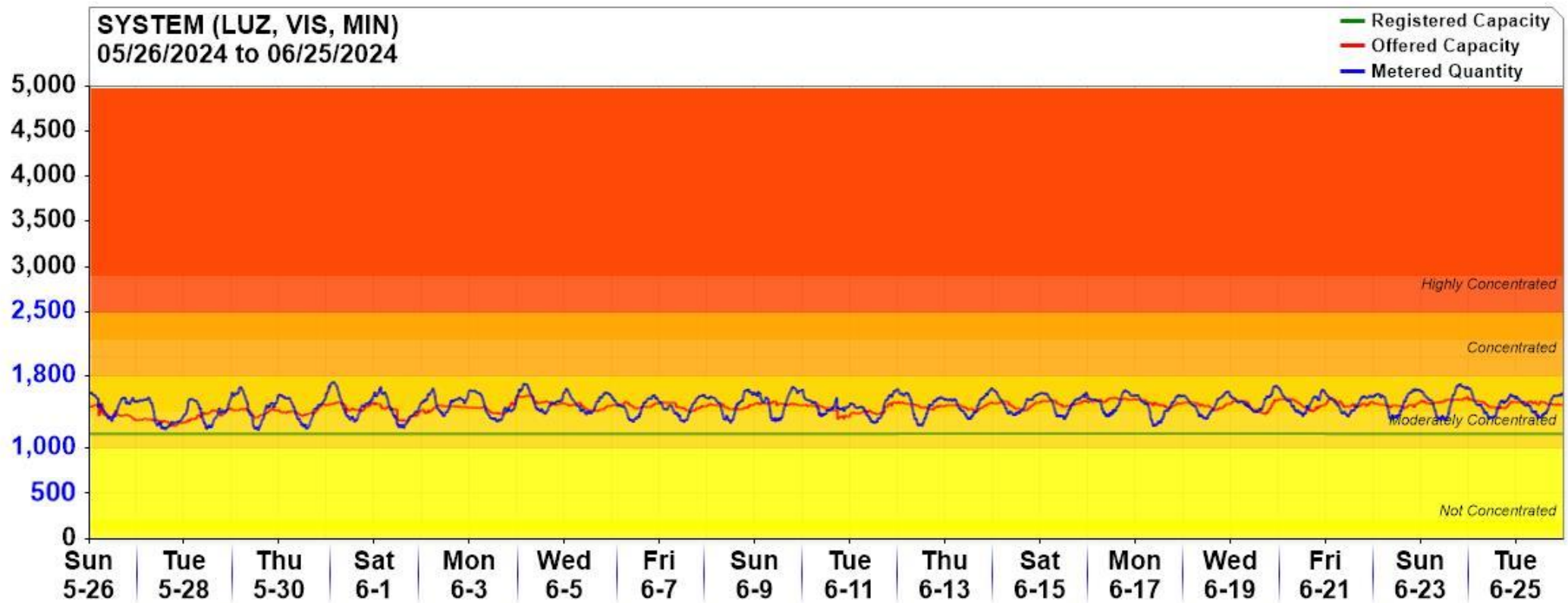
SYSTEM PIVOTAL SUPPLIERS



When RSI is below 100, indicating a tight supply situation with potential market power, the average price is significantly higher (PHP6,188/MWh). Conversely, when RSI is 100 or above, suggesting a more competitive market with ample supply, the average price is significantly lower (PHP2,723/MWh)

MARKET OUTCOME

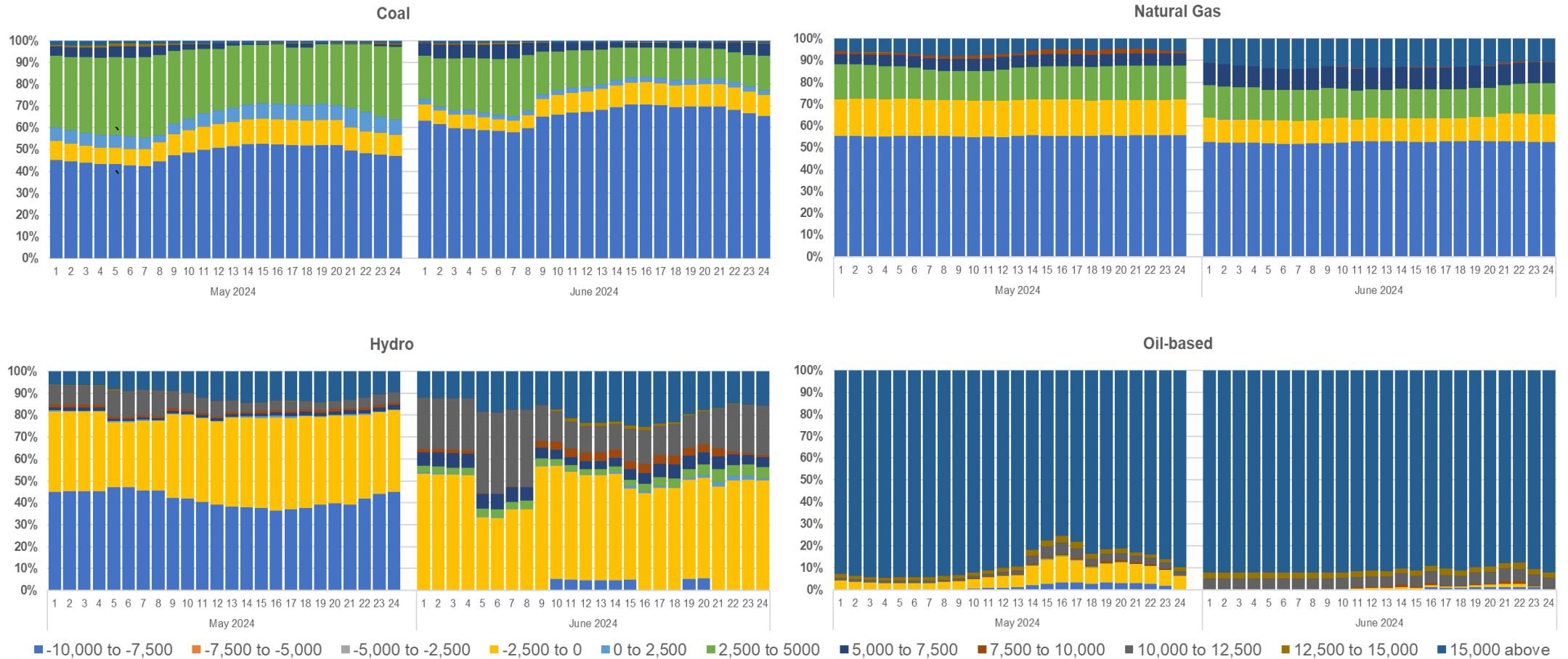
STRUCTURAL INDICES



The **Herfindahl-Hirschman Index (HHI)**, measured in terms of major participant groups as identified by the Energy Regulatory Commission, indicated a moderately concentrated market across all measures: Registered Capacity, Offered Capacity, and Actual Generation, during the June 2024 billing period.

MARKET OUTCOME

STRUCTURAL INDICES



Coal power plants posted a decline in their respective offer prices. While natural gas, hydroelectric, and oil-based power plants increased their price offers. Moreover, even with the onset of the rainy season, it can be depicted in the graph that hydroelectric power plants had higher offer price as compared to the previous month with variations highly observed during intervals 0500h to 0800h of the day.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
OIL	Ingrid 6	28	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
OIL	Ingrid 5	22	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
OIL	Ingrid 4	28	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
OIL	Ingrid 3	22	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
OIL	Ingrid 2	22	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
OIL	Ingrid 1	28	06/24/2024 23:54	06/25/2024 2:54	1	Forced Outage	Affected by the emergency shutdown of Malaya 230kV Bus A
HYD	MATUNO 1	8.7	06/24/2024 8:05			Forced Outage	Emergency shutdown to conduct repair of tunnel inlet.
GEO	PALAYAN BINARY	31	06/23/2024 15:28	06/24/2024 14:04	1	Forced Outage	The unit tripped due to low make up water at cooling tower.
GEO	Bacman 1	60	06/23/2024 9:42			Forced Outage	Exciter Problem.
HYD	BINENG 1	19.8	06/21/2024 8:07	06/24/2024 17:56	3	Forced Outage	The units were declared unavailable due to insufficient water supply.
HYD	Kalayaan 3	184.6	06/21/2024 0:00			Maintenance Outage	Maintenance Outage until June 30 2024.
COAL	Pagbilao 1	382	06/20/2024 13:11	06/22/2024 15:03	2	Forced Outage	Emergency shutdown due to boiler tube leak.
GEO	MEC 1	32.9	06/19/2024 6:00	06/24/2024 10:04	5	Maintenance Outage	Maintenance Outage until June 23 2024.
NATG	San Lorenzo 1	265	06/19/2024 0:06	06/20/2024 19:34	1	Forced Outage	The unit tripped due to the activation of condenser protection.
GEO	Tiwi 1	60	06/18/2024 0:11			Forced Outage	Steam supply diverted to Unit 2.
BIOF	VS Gripal	5.4	06/17/2024 8:32	06/19/2024 10:02	2	Forced Outage	Manual trip due to trouble on gasket condensate
COAL	Pagbilao 1	382	06/17/2024 5:52	06/19/2024 17:40	2	Forced Outage	Emergency shutdown due to boiler tube leak.
HYD	BINENG 1	19.8	06/15/2024 17:17	06/17/2024 14:19	2	Forced Outage	Insufficient water supply
WIND	N Wind 2	18.8	06/14/2024 19:36	06/15/2024 12:00	1	Forced Outage	Affected by the tripping of Laoag-Bangui 69kV Line.
WIND	N Wind	32.4	06/14/2024 19:36	06/15/2024 10:45	1	Forced Outage	Affected by the tripping of Laoag-Bangui 69kV Line.
BIOF	Hypergreen	10	06/14/2024 14:01			Forced Outage	Lack of Fuel
GEO	Makban 1	57	06/14/2024 5:30	06/15/2024 0:39	1	Forced Outage	Affected by the planned outage of Bay-Makban Plant A.
HYD	BINENG 1	19.8	06/11/2024 0:52	06/14/2024 22:26	3	Forced Outage	Insufficient water supply
BIOF	Hypergreen	10	06/12/2024 0:01	06/13/2024 11:52	1	Forced Outage	Insufficient rice husk
SOLR	SOLARACE1	89.4	06/10/2024 22:44	06/11/2024 3:58	1	Forced Outage	Affected by planned outage of Bay 69kV Bus.
GEO	Makban Ormat 2	3	06/10/2024 22:42	06/11/2024 3:54	1	Forced Outage	Affected by planned outage of Bay 69kV bus.
GEO	Makban Ormat 1	3	06/10/2024 22:42	06/11/2024 3:54	1	Forced Outage	Affected by planned outage of Bay 69kV bus.
GEO	Makban 9	20	06/10/2024 22:43	06/11/2024 3:55	1	Forced Outage	Affected by planned outage of Bay 69kV bus.
GEO	Makban 10	20	06/10/2024 22:43	06/11/2024 3:55	1	Forced Outage	Affected by planned outage of Bay 69kV bus.
NATG	Ilijan B3	220	06/10/2024 17:17	06/11/2024 5:22	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
NATG	Ilijan B2	190	06/10/2024 17:17	06/11/2024 7:46	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
NATG	Ilijan B1	190	06/10/2024 17:17	06/11/2024 4:05	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
NATG	Ilijan A3	220	06/10/2024 17:17	06/11/2024 15:22	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
NATG	Ilijan A2	190	06/10/2024 17:17	06/11/2024 14:22	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
NATG	Ilijan A1	190	06/10/2024 17:17	06/11/2024 17:07	1	Forced Outage	Isolated due to tripping of Ilijan-Tayabas and Ilijan-Dasmarinas (Ilijan side only) 500kV Lines
GEO	Bacman 3	20	06/10/2024 13:20	06/11/2024 13:29	1	Forced Outage	Tripped due to high bearing metal temperature.
HYD	MATUNO 1	8.7	06/10/2024 7:15	06/13/2024 10:48	3	Forced Outage	Stop generator turbine part of testing. (On-going test and commissioning)
GEO	Bacman 3	20	06/09/2024 17:50	06/10/2024 0:58	1	Forced Outage	Tripped due to high temperature of turbine bearing.
HYD	BINENG 1	19.8	06/09/2024 4:36	06/10/2024 18:18	1	Forced Outage	Insufficient water flow.
COAL	Masinloc 1	344	06/07/2024 13:27	06/13/2024 18:38	6	Forced Outage	Emergency shutdown due to boiler tube leak.
HYD	MAJAY 1	2.19	06/06/2024 10:35	06/07/2024 17:44	1	Forced Outage	Line feeder trouble
BIOF	IPower 2	10.8	06/05/2024 14:56	06/06/2024 0:51	1	Forced Outage	Affected by tripping of Cabanatuan-Fatima 69kV Line

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
HYD	MATUNO 1	8.7	06/04/2024 10:48			Forced Outage	On-going test and commissioning.
HYD	Angat M 2	50	06/04/2024 8:22	06/10/2024 0:11	6	Forced Outage	Unit is available but with no IDR from NIA.
HYD	Angat M 1	50	06/04/2024 8:22	06/10/2024 0:11	6	Forced Outage	Unit is available but with no IDR from NIA.
HYD	Kalayaan 3	184.6	06/04/2024 0:01	06/09/2024 5:40	5	Planned Outage	Semi Annual PM.
HYD	MATUNO 1	8.7	06/03/2024 19:24	06/04/2024 9:45	1	Forced Outage	On-going test and commissioning.
GEO	PALAYAN BINARY	31	06/03/2024 5:24	06/05/2024 0:31	2	Maintenance Outage	On commissioning test.
HYD	BINENG 1	19.8	06/02/2024 4:11	06/05/2024 14:56	3	Forced Outage	Insufficient water supply.
COAL	Sual 1	647	06/02/2024 3:05	06/03/2024 21:04	1	Forced Outage	Emergency shutdown for BCP 1A and 1C motor cavity temp repair/strainer cleaning
OIL	Ingrid 6	28	06/01/2024 23:05	06/02/2024 10:45	1	Forced Outage	Unavailable due to fuel constraint.
OIL	Ingrid 5	22	06/01/2024 23:05	06/02/2024 10:45	1	Forced Outage	Unavailable due to fuel constraint.
OIL	Ingrid 4	28	06/01/2024 23:05	06/02/2024 10:45	1	Forced Outage	Unavailable due to fuel constraint.
OIL	Ingrid 3	22	06/01/2024 23:05	06/02/2024 9:05	1	Forced Outage	Unavailable due to fuel constraint.
OIL	Ingrid 2	22	06/01/2024 23:05	06/02/2024 9:05	1	Forced Outage	Unavailable due to fuel constraint.
OIL	Ingrid 1	28	06/01/2024 23:05	06/02/2024 9:05	1	Forced Outage	Unavailable due to fuel constraint.
OIL	TMO Unit 4	52	06/01/2024 19:12	06/02/2024 3:49	1	Forced Outage	Due to Low voltage for replacement and scada failure
NATG	Ilijan A3	220	06/01/2024 11:08	06/02/2024 2:06	1	Forced Outage	Tripped due to LNG fuel terminal restriction.
NATG	Ilijan A2	190	06/01/2024 11:08	06/02/2024 3:57	1	Forced Outage	Tripped due to LNG fuel terminal restriction.
NATG	Ilijan A1	190	06/01/2024 11:08	06/02/2024 1:05	1	Forced Outage	Tripped due to LNG fuel terminal restriction.
HYD	Kalayaan 3	184.6	06/01/2024 3:18	06/02/2024 5:20	1	Forced Outage	Low Caliraya Dam Elevation.
HYD	Kalayaan 1	183	06/01/2024 3:18	06/02/2024 5:20	1	Forced Outage	Low Caliraya Dam Elevation.
HYD	Angat M 2	50	05/31/2024 17:00	06/03/2024 7:34	3	Forced Outage	Consumed 6cms NIA water allocation.
HYD	Angat M 1	50	05/31/2024 17:00	06/03/2024 7:34	3	Forced Outage	Consumed 6cms NIA water allocation.
OIL	Limay 7	60	05/28/2024 20:58			Forced Outage	Tripped due to high vibration alarm.
COAL	Masinloc 3	335	05/29/2024 20:34	05/30/2024 12:41	1	Forced Outage	Air heater rotor guide speed low low alarm.
OIL	Limay 7	60	05/28/2024 20:58			Forced Outage	Tripped due to high vibration alam.
NATG	Ilijan A2	190	05/27/2024 22:55	05/28/2024 1:05	1	Forced Outage	The unit tripped while on load stabilization.
NATG	San Lorenzo 1	265	05/27/2024 17:28	05/31/2024 20:19	4	Forced Outage	Overheated expansion belows connecting gas turbine exhaust to boiler.
HYD	San Roque 3	145	05/27/2024 0:01	06/07/2024 0:00	11	Planned Outage	Planned Outage until June 10 2024
HYD	San Roque 2	145	05/27/2024 0:01	06/07/2024 0:00	11	Planned Outage	Planned Outage until June 10 2024
HYD	San Roque 1	145	05/27/2024 0:01	06/07/2024 0:00	11	Planned Outage	Planned Outage until June 10 2024.
NATG	Avion 2	45.8	05/26/2024 19:09	06/01/2024 20:00	6	Forced Outage	High pressure compressor bleed system trouble.
COAL	Masinloc 3	335	05/26/2024 13:19	05/27/2024 7:05	1	Forced Outage	Low boiler feed water flow.
COAL	SBPL	455	05/26/2024 13:05	05/27/2024 16:10	1	Forced Outage	CWP A & B trip while lowering load to minimim.Affected by Tropical Storm Aghon .
COAL	Pagbilao 3	420	05/26/2024 9:26	05/29/2024 12:57	3	Forced Outage	Affected by tripping of Pagbilao EHV-Pagbilao 230kV L1 & L2 due to passing of Tropical Storm Aghon .
COAL	Pagbilao 1	382	05/26/2024 5:18	06/01/2024 13:53	6	Forced Outage	The unit tripped while on load stabilization. Affected by the passage of TS Aghon .
HYD	SLANGN 1	2.4	12/11/2023 19:57			Forced Outage	Unplanned outage due to insufficient water supply.
OIL	Republic 1	5.5	04/04/2024 19:20			Forced Outage	Declared unavailable due to unsual sound and smoke came out at turbocharger side
HYD	Pantabangan 2	60	05/14/2024 0:00			Forced Outage	No IDR.
HYD	Pantabangan 1	60	05/14/2024 0:00			Forced Outage	No IDR.
HYD	MATUNO 1	8.7	05/25/2024 16:08	05/26/2024 11:24	1	Forced Outage	On-going test and commissioning.(RECLASSIFIED FROM FORCE / OMC OUTAGE)(RECLASSIFIED FROM FORCE / OMC OUTAGE)
HYD	Masiway	12	05/21/2024 17:01			Forced Outage	No IDR
OIL	Malaya 2	130	04/18/2024 20:00			Forced Outage	Shutdown due to furnace pressure high.
OIL	Malaya 1	300	05/03/2019 18:21			Forced Outage	Declared unavailable due to motorization of unit generator caused by the non-opening of phase B of PCB 8-05CB08MAL

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
SOLR	LAOAG SOLAR	58.6	05/21/2024 10:00	05/28/2024 16:39	7	Maintenance Outage	On-going test and commssioning for new plants.
NATG	Ilijan B3	220	05/25/2024 16:36	05/28/2024 11:06	3	Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan B2	190	05/25/2024 1:17	05/28/2024 12:26	3	Forced Outage	Emergency shutdown due to gas restriction
NATG	Ilijan B1	190	05/25/2024 16:46	05/28/2024 9:33	3	Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan A3	220	05/25/2024 16:36	05/28/2024 2:34	3	Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan A2	190	05/25/2024 16:59	05/27/2024 22:46	2	Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan A1	190	05/25/2024 0:31	05/28/2024 4:55	3	Forced Outage	Emergency shutdown due to gas restriction
BIOF	Hypergreen	10	05/26/2024 0:03	05/30/2024 10:37	4	Forced Outage	Insufficient fuel
BIOF	GFII	15.8	05/18/2024 20:04			Forced Outage	Insufficient fuel
BIOF	CLEANG 1	10.8	02/13/2024 0:00			Forced Outage	Unplanned shutdown due to insufficient fuel.
HYD	BUTAO 1	1.3	03/23/2024 11:17			Forced Outage	Insufficient water supply
HYD	Binga 4	35	05/23/2024 22:01	05/26/2024 15:56	3	Forced Outage	Hydrological constraint
HYD	Binga 1	35	05/19/2024 18:01	05/26/2024 15:56	7	Forced Outage	Declared unavailable due to hydrological constraints.
NATG	Avion 2	45.8	05/25/2024 21:43	05/26/2024 12:17	1	Forced Outage	High pressure compressor bleed system trouble.
HYD	Angat M 4	50	02/14/2022 0:00			Planned Outage	Planned outage.
HYD	Angat M 2	50	05/24/2024 11:38	05/30/2024 5:20	6	Forced Outage	No NIA IDR allocation.
HYD	Angat M 1	50	05/24/2024 11:38	05/30/2024 5:20	6	Forced Outage	No NIA IDR allocation.
HYD	Angat A 2	6	11/06/2023 8:01			Planned Outage	Total Plant shutdown (Planned Outage)
BAT	ALAMINOS BAT1	20	02/18/2024 9:30			Forced Outage	Unit problem on investigation.
Visayas							
HYD	TIMBABAN HEP1	18.9	06/25/2024 23:43			Forced Outage	Affected by line fault
OIL	TPC (Carmen) U4	10	06/24/2024 19:20			Forced Outage	Auto-tripped due to Piston Scuffing on Cylinder 11
OIL	PDPP3 E	12	06/23/2024 11:16	06/25/2024 10:15	2	Forced Outage	Emergency cut-out due to abnormal sound of turbo charger
HYD	THC 1	5	06/22/2024 19:26			Forced Outage	due to activation of collective fault from synchronization device.
HYD	THC 3	5.1	06/22/2024 19:10			Forced Outage	due to activation of collective fault from synchronization device.
OIL	CENPRI 4	6.7	06/22/2024 8:27	06/23/2024 0:39	1	Forced Outage	To conduct replacement of cylinder head and liner.
OIL	PDPP1 Unit 3	5	06/21/2024 21:22	06/22/2024 0:09	1	Forced Outage	Excessive water leak at jacket water cooling outlet cylinder 9
HYD	SMHC U2	1.25	06/20/2024 21:05	06/21/2024 12:59	1	Forced Outage	AFFECTED TRIPPING OF TAGBILARAN GARCIA 69 KV LINE.
COAL	CEDC 1	83.2	06/20/2024 13:10	06/22/2024 1:18	2	Forced Outage	Tripped due to busted feed water line
OIL	PDPP3 C	12	06/19/2024 13:52	06/21/2024 0:07	2	Forced Outage	Emergency cut-out due HT water leak at Cylinder B3
COAL	CEDC 3	83.1	06/19/2024 0:58	06/23/2024 1:23	4	Forced Outage	Emergency shutdown due to heavy leak on the main steamline pipe causing unsafe operational conditions.
HYD	THC 2	5.1	06/18/2024 7:01	06/21/2024 6:52	3	Planned Outage	Scheduled PMS.
GEO	Mahanagdong A2	5	06/17/2024 13:37	06/18/2024 16:01	1	Forced Outage	To effect troubleshooting and repair of its defective DCS module.
HYD	THC 3	5.1	06/16/2024 21:48	06/22/2024 18:47	6	Forced Outage	Activation of collective fault synchronization device.
HYD	THC 2	5.1	06/15/2024 20:22	06/16/2024 21:56	1	Forced Outage	Water low level
BIOF	San Carlos Bio	19.5	06/14/2024 14:26			Forced Outage	Offline due to main compressor problem.
OIL	BDPP Unit 2	4	06/14/2024 8:01	06/15/2024 22:28	1	Maintenance Outage	REPLACEMENT OF CYLINDER LINER NO. 12.
OIL	PDPP3 E	12	06/14/2024 0:57	06/15/2024 2:07	1	Forced Outage	Abnormal sound at TC A bank
OIL	PDPP1 Unit 3	5	06/12/2024 22:38	06/13/2024 8:24	1	Forced Outage	Excessive fuel leak at CYLINDER 1
OIL	PDPP3 H	13	06/12/2024 21:04	06/13/2024 8:24	1	Forced Outage	Excessive fuel leak at cyl A6
OIL	PB101 Unit 1	6	06/11/2024 23:06	06/12/2024 17:24	1	Forced Outage	Emergency cut-out due to red hot of all exhaust pipe left bank
OIL	CENPRI 2	4.5	06/11/2024 22:00	06/12/2024 1:16	1	Forced Outage	Cooling system trouble.
OIL	PDPP1 Unit 3	5	06/11/2024 16:50	06/12/2024 8:44	1	Forced Outage	OFF-LINE (High jacket water cooling temperature)

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Visayas							
OIL	PDPP3 E	12	06/11/2024 16:45	06/13/2024 22:40	2	Forced Outage	Emergency stop due to abnormal sound TC A bank
OIL	TPC (Carmen) U2	10	06/11/2024 15:00	06/12/2024 21:37	1	Forced Outage	Failed to cut-in due to Turbo Charger problem
OIL	PDPP1 Unit 3	5	06/10/2024 21:02	06/11/2024 0:07	1	Forced Outage	Auto tripped (High jacket water cooling temperature)
HYD	THC 2	5.1	06/10/2024 20:08	06/15/2024 19:14	5	Forced Outage	Due to alarm collective fault from synchronization device.
OIL	PDPP1 Unit 2	5	06/10/2024 13:24	06/11/2024 9:07	1	Forced Outage	Emergency cutout due to abnormal sound at turbo charger b-bank
GEO	Malitbog 2	77.5	06/10/2024 11:27	06/16/2024 15:41	6	Forced Outage	Emergency repair of steam leak
OIL	BDPP Unit 1	4	06/09/2024 21:36	06/10/2024 1:05	1	Forced Outage	SEVERE FUEL LEAK AT CYLINDER 5.
OIL	PDPP3 H	13	06/09/2024 16:08	06/10/2024 12:15	1	Forced Outage	Excessive water leak at cylinder B3
GEO	Malitbog 3	75.06	06/09/2024 15:48			Forced Outage	Turbine generator no. 3 high vibration indication
OIL	PDPP3 E	12	06/08/2024 13:35	06/11/2024 3:06	3	Forced Outage	Auto-tripped due to high bearing temperature
OIL	TPC (Carmen) U1	10	06/08/2024 12:57	06/09/2024 23:16	1	Forced Outage	Manual shutdown due to turbo charger problem
OIL	PDPP1 Unit 2	5	06/08/2024 9:16	06/10/2024 11:08	2	Forced Outage	Emergency cut-out due to abnormal sound at cylinder 9
BIOF	San Carlos Bio	19.5	06/07/2024 19:55	06/08/2024 15:23	1	Forced Outage	Auto-tripped with indication Hot Well Level High High.
OIL	CENPRI 5	6.7	06/06/2024 17:33	06/13/2024 22:42	7	Forced Outage	Emergency offline due to High Temperature at Bearing No.2.
OIL	BDPP Unit 1	4	06/05/2024 9:24	06/07/2024 9:46	2	Forced Outage	ENGINE OVERSPEED
OIL	PDPP3 E	12	06/05/2024 13:18	06/06/2024 10:45	1	Forced Outage	Abnormal Sound at Turbocharger A Bank
OIL	BDPP Unit 1	4	06/05/2024 9:24			Maintenance Outage	ENGINE OVERSPEED
OIL	BDPP Unit 3	4.2	06/05/2024 8:46	06/09/2024 17:27	4	Forced Outage	UNABLE TO CUT IN DUE TO SEVERE WATER LEAK AY T/C B BANK.
HYD	THC 2	5.1	06/05/2024 1:57	06/09/2024 6:14	4	Forced Outage	Activation of collective fault synchronization.
OIL	PDPP1 Unit 2	5	06/04/2024 19:09	06/08/2024 0:23	4	Forced Outage	Abnormal sound at cyl. 9
OIL	BDPP Unit 2	4	06/04/2024 22:10	06/05/2024 9:02	1	Forced Outage	High exhaust gas temperature at A-bank.
OIL	PDPP3 E	12	06/04/2024 10:28	06/05/2024 8:12	1	Forced Outage	Emergency cut-out due to excessive exhaust gas leak
OIL	BDPP Unit 4	4	06/03/2024 22:31	06/04/2024 12:33	1	Forced Outage	Severe air leak at electro-valve 6.
OIL	CENPRI 2	4.5	06/03/2024 18:55	06/04/2024 0:48	1	Forced Outage	Offline due to jacket water leak.
OIL	PB101 Unit 4	6	06/02/2024 5:13	06/03/2024 16:23	1	Forced Outage	Isolated due to line maintenance
OIL	PB101 Unit 2	6	06/02/2024 5:13			Forced Outage	Isolated due to line maintenance
OIL	PB101 Unit 1	6	06/02/2024 5:13			Forced Outage	Isolated due to line maintenance
BIOF	San Carlos Bio	19.5	06/01/2024 15:39	06/07/2024 11:57	6	Forced Outage	emergency shutdown due to boiler problem.
OIL	CENPRI 4	6.7	06/01/2024 13:28	06/02/2024 1:15	1	Forced Outage	Internal jacket water leak at cylinder 18.
OIL	PDPP3 G	13	05/31/2024 16:22	06/02/2024 7:07	2	Forced Outage	Unable to cut-in due to no lube oil flushing at turbo charger A Bank
HYD	TIMBABAN HEP1	18.9	05/30/2024 22:04	05/31/2024 17:01	1	Forced Outage	Auto-tripped (affected by line fault)
OIL	PDPP1 Unit 5	5	05/30/2024 19:33	05/31/2024 7:25	1	Forced Outage	Isolated due to tripping of 138kV Dingle-PDPP1 L2 (CO)
OIL	PDPP1 Unit 2	5	05/30/2024 19:33	05/31/2024 7:23	1	Forced Outage	Isolated due to tripping of 138kV Dingle-PDPP1 L2 (CO)
OIL	PDPP3 H	13	05/30/2024 17:00	05/31/2024 2:12	1	Forced Outage	unable to cut-in due to water leak at cylinder A3 and A5
OIL	BDPP Unit 1	4	05/30/2024 15:30	05/31/2024 22:03	1	Forced Outage	SEVERE GAS LEAK AT CYLINDER NO. 6.
BIOF	San Carlos Bio	19.5	05/30/2024 10:18	06/01/2024 12:25	2	Forced Outage	Tripped due to Boiler feed pump trouble.
GEO	Upper Mahiao 1	26.9	11/25/2022 11:07			Forced Outage	Due to lack of steam
OIL	TPVI 5	5.5	05/29/2024 16:25	05/30/2024 12:03	1	Forced Outage	UNIT 5 Emergency cut-out due to heavy fuel leak at cylinder A1 fuel injection pump priming port.
OIL	BDPP Unit 2	4	05/28/2024 22:09	05/29/2024 1:52	1	Forced Outage	Severe fuel leak at S-5 cylinder number 10.
OIL	PDPP3 E	12	05/28/2024 21:45	05/29/2024 2:14	1	Forced Outage	excessive lube oil leak at Turbo charger turbine side cover A-bank
OIL	PDPP3 E	12	05/27/2024 20:50	05/28/2024 19:50	1	Forced Outage	Abnormal sound at turbo charger b-bank
OIL	PDPP3 G	13	05/27/2024 20:24	05/28/2024 9:13	1	Forced Outage	Excessive exhaust gas leak cylinder b2
BIOF	VMC	2.5	04/21/2024 16:20			Forced Outage	Weekly maintenance.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Visayas							
BIOF	URC 1	30	04/13/2024 4:37			Forced Outage	Offline due to insufficient cane supply.
GEO	Upper Mahiao 2	30	05/16/2024 14:03			Forced Outage	due to lack of steam
GEO	Upper Mahiao 1	26.9	11/25/2022 11:07			Forced Outage	Insufficient steam supply
COAL	THVI 2	169	05/25/2024 7:52	05/26/2024 1:24	1	Forced Outage	Suction valve cut-off instrument air hose loop cell blower B
HYD	THC 1	5	05/25/2024 22:30	06/05/2024 2:03	11	Forced Outage	Change-over of unit from 1 to 3 Insufficient water supply.
BIOF	South Negros	25	03/28/2024 10:30			Forced Outage	Emergency cut out due to insufficient fuel supply (bagasse).
HYD	SMHC U1	1.25	05/24/2024 22:40	05/26/2024 11:02	2	Forced Outage	Affected by the tripping of Tagbilaran-Garcia 69kV line.
BIOF	SCBE	7.4	03/31/2023 10:35			Forced Outage	Plant shutdown
OIL	PDPP3 H	13	05/23/2024 1:35	05/30/2024 9:11	7	Forced Outage	Abnormal sound at turbo charger
OIL	PDPP3 G	13	05/24/2024 6:22	05/27/2024 2:21	3	Forced Outage	FAILED TO CUT-IN DUE TO T/C PROBLEM.
OIL	PB101 Unit 3	6	04/01/2024 16:30			Forced Outage	Starting failure
COAL	PALM 1	135	03/31/2024 0:00			Forced Outage	Extended maintenance
BIOF	NTNEGB 1	25	05/22/2024 15:59			Forced Outage	Insufficient fuel supply (bagasse).
GEO	Malitbog 1	73.12	05/22/2024 15:24	06/06/2024 12:09	15	Forced Outage	Facilitate troubleshooting due to abnormal turbine vibration
HYD	Loboc 2 Hydro E	1.2	05/24/2024 22:40	05/26/2024 2:52	2	Forced Outage	Affected by the tripping of Loboc-Tagbilaran 13.8kV line.
BIOF	HPCO 1	2	11/12/2023 20:00			Forced Outage	Defective auxiliary of vibration meter.
OIL	East Asia 1	11.5	05/13/2024 22:55			Forced Outage	CYLINDER NO. 7 CRANKCASE EXPLOSION
OIL	BDPP Unit 3	4.2	05/25/2024 17:33	05/28/2024 5:43	3	Forced Outage	Severe water leak at jacket cooling water pipe.
OIL	BDPP Unit 1	4	05/25/2024 1:12	05/26/2024 16:16	1	Forced Outage	Engine overspeed.
Mindanao							
COAL	SMF1 U1	122	06/25/2024 3:29			Forced Outage	Tripped. Relay Indication Induced Draft Fan Tripped. Unplanned Outage. ETC June 30 2024 at 0001H.
COAL	STE U2	116	06/21/2024 15:00	06/25/2024 3:01	4	Forced Outage	Online from FO - Emergency Shutdown due to boiler tube leak. Unplanned Outage.
COAL	STE U1	116	06/21/2024 1:22	06/25/2024 20:12	4	Forced Outage	Online from FO - Emergency Shutdown due to boiler tube leak. Unplanned Outage.
HYD	SBL B U1	14	06/24/2024 2:01			Forced Outage	Emergency shutdown due to high temperature of bearing. (Forced Outage)
HYD	TU2 U1	8	06/23/2024 22:47	06/24/2024 3:18	1	Forced Outage	Shutdown due to insufficient water supply. (OMC Outage)
HYD	SBL B U2	14	06/23/2024 22:43	06/24/2024 2:19	1	Forced Outage	Affected due to forced outage of DLPC s Puan Switching Station. (OMC Outage)
HYD	SBL B U1	14	06/23/2024 22:43	06/24/2024 0:18	1	Forced Outage	Affected due to forced outage of DLPC s Puan Switching Station. (OMC Outage)
HYD	SBL A U2	8.75	06/23/2024 22:43	06/24/2024 1:17	1	Forced Outage	Affected due to forced outage of DLPC s Puan Switching Station. (OMC Outage)
COAL	STE U2	116	06/21/2024 15:00			Forced Outage	Emergency Shutdown due to boiler tube leak. Unplanned Outage.
HYD	SBL B U2	14	06/21/2024 12:17	06/22/2024 0:16	1	Forced Outage	Plant shutdown due to insufficient water supply. (OMC Outage)
COAL	STE U1	116	06/21/2024 1:22			Forced Outage	Emergency Shutdown due to boiler tube leak. Unplanned Outage.
COAL	STE U2	116	06/17/2024 9:00	06/20/2024 20:57	3	Forced Outage	Online from FO - Emergency shutdown due to tube leak and boiler fouling. (Unplanned Outage)
HYD	Talomo TL1 U2	0.5	06/19/2024 14:07	06/24/2024 16:19	5	Forced Outage	Shutdown due to insufficient water supply. (OMC Outage)
HYD	Talomo TL1 U2	0.5	06/18/2024 11:11	06/19/2024 7:11	1	Forced Outage	Plant shutdown due to insufficient water supply. (OMC Outage)
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Forced Outage	PMS (Non-GOMP). ETC June 12 2024. Extended June 26 2024.
COAL	STE U2	116	06/17/2024 9:00			Forced Outage	Emergency shutdown due to tube leak and boiler fouling. ETC June 24 2024 2359H. (Unplanned Outage)
HYD	MHP U0	0.5	06/15/2024 19:09	06/17/2024 11:00	2	Forced Outage	Plant Shutdown affected by SOCOTECO I Feeder Line fault and at 1924H can not synch back due to tailrace water Level rising.(OMC Outage).
HYD	Talomo TL1 U1	0.5	06/14/2024 23:04	06/17/2024 20:33	3	Forced Outage	Plant shutdown due to insufficient water supply. (OMC Outage)
HYD	SBL B U2	14	06/14/2024 20:19	06/21/2024 2:24	7	Forced Outage	Plant shutdown due to insufficient water supply. (OMC Outage)
HYD	SBL B U1	14	06/13/2024 20:39	06/14/2024 20:11	1	Forced Outage	Plant shutdown due to insufficient water supply. (OMC Outage)
COAL	STE U1	116	06/13/2024 16:00	06/17/2024 6:23	4	Forced Outage	Emergency Shutdown due to boiler fouling. (Unplanned Outage)
HYD	AG4 U3	52.7	06/13/2024 8:15			Planned Outage	PMS (GOMP). ETC August 2 2024.
HYD	AG4 U2	52.7	06/13/2024 8:08			Planned Outage	PMS (GOMP). ETC August 2 2024.

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List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Mindanao							
HYD	AG4 U1	52.7	06/13/2024 8:03			Planned Outage	PMS (GOMP). ETC August 2 2024.
OIL	WMPC Unit 4	10.2	06/12/2024 18:19	06/13/2024 16:35	1	Forced Outage	Declared available from FO. Indication Turbo charger shocked pulse alarm. (Unplanned Outage)
HYD	AG2 U1	60	06/06/2024 8:05	06/17/2024 14:13	11	Planned Outage	PMS(GOMP). ETC June 17 2024
OIL	WMPC Unit 4	10.2	06/12/2024 18:19			Forced Outage	Tripped. Indication Turbo charger shocked pulse alarm. (Unplanned Outage)
COAL	PPE U1	20	06/02/2024 2:15			Forced Outage	PMS (Non-GOMP). ETC June 12 2024. Extended to June 26 2024.
HYD	MHP U0	0.5	06/11/2024 23:57	06/12/2024 0:10	1	Forced Outage	Plant Shutdown due to Recloser tripping affected by SOCOTECO I Line fault. (OMC Outage).
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Forced Outage	PMS (Non-GOMP). ETC June 12 2024. Extended No ETC.
HYD	ASG U0	8.6	06/12/2024 0:01			Forced Outage	Insufficient water supply. (OMC Outage)
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Forced Outage	PMS (Non-GOMP). ETC June 12 2024.
OIL	WMPC Unit 10	10.2	06/10/2024 13:05	06/12/2024 14:30	2	Forced Outage	Tripped. Indication Lube oil low pressure stop (Unplanned Outage).
HYD	Talomo TL3 U1	0.93	06/10/2024 10:06	06/11/2024 1:51	1	Forced Outage	Plant shutdown due to adjustment of Bearing clearance. Unplanned Outage.
GEO	MTAPO 3	3.6	06/10/2024 8:38	06/11/2024 20:28	1	Forced Outage	Tripped. Cause for verification (Unplanned Outage)
HYD	Talomo TL1 U1	0.5	06/10/2024 7:13	06/13/2024 1:44	3	Forced Outage	Declared unavailable due to insufficient water supply. (OMC Outage)
HYD	PG4 U2	75	06/05/2024 8:02			Forced Outage	PMS (Non-GOMP). ETC July 19 2024.
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Planned Outage	PMS (GOMP). ETC June 11 2024.
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Planned Outage	PMS. ETC 11 Jun 2024 0000H
BIOF	BFI BIOMASS U1	5.7	05/26/2024 1:41	06/10/2024 16:23	15	Forced Outage	Plant shutdown due to scheduled Bi-annual PMS.ETC is on June 11 2024.
HYD	MHP U0	0.5	06/08/2024 20:00	06/10/2024 10:35	2	Forced Outage	Shutdown due to closed NIA gate. (OMC Outage)
HYD	Talomo TL3 U2	0.93	06/08/2024 0:00	06/09/2024 2:00	1	Forced Outage	Extended GOMP
HYD	Talomo TL3 U1	0.93	06/06/2024 22:08	06/08/2024 6:11	2	Forced Outage	Plant Tripped due to very high drive end bearing temperature.
HYD	AG2 U1	60	06/06/2024 8:05			Forced Outage	PMS(GOMP). ETC June 17 2024
HYD	MHP U0	0.5	06/05/2024 11:28	06/06/2024 7:10	1	Forced Outage	Plant Shutdown due to NIA intake gate closed. (OMC Outage).
HYD	PG4 U2	75	06/05/2024 8:02			Forced Outage	PMS. (Planned outage). ETC July 19 2024 at 2359H.
HYD	Talomo TL1 U2	0.5	06/05/2024 0:00	06/10/2024 19:11	5	Planned Outage	Planned Shutdown. (GOMP) ETC June 11 2024 at 2359H
HYD	Talomo TL1 U1	0.5	06/05/2024 0:00	06/10/2024 7:13	5	Planned Outage	Planned Shutdown. (GOMP) ETC June 11 2024 at 2359H
HYD	BHP U0	6.6	06/04/2024 21:47	06/05/2024 0:32	1	Forced Outage	OMC outage due to IWS(Insufficient Water Supply).
OIL	WMPC Unit 2	10.2	06/04/2024 14:39	06/05/2024 17:00	1	Forced Outage	Declared unavailable due to emergency cooling tower 2 pipeline heavy leak. Unplanned Outage.
OIL	WMPC Unit 1	10.2	06/04/2024 14:39	06/05/2024 17:00	1	Forced Outage	Emergency shutdown due to emergency cooling tower 2 pipeline heavy leak. Unplanned Outage.
HYD	Talomo TL1 U1	0.5	06/04/2024 8:52			Forced Outage	Shutdown due to insufficient water supply. (OMC Outage)
HYD	PG4 U3	75	06/03/2024 22:35	06/04/2024 10:05	1	Forced Outage	Forced outage. Indication Main Transformer trip.
COAL	MCC U1	55	06/03/2024 18:52	06/05/2024 0:18	2	Forced Outage	Tripped. Indication steam drum level low-low. Unplanned outage.
HYD	PG4 U2	75	06/03/2024 14:22	06/04/2024 0:02	1	Forced Outage	Shutdown due to low Water Forebay Elevation. (OMC outage)
HYD	Talomo TL1 U2	0.5	06/03/2024 10:42	06/04/2024 8:50	1	Forced Outage	Declared unavailable due to insufficient water supply. (OMC Outage)
HYD	MHP U0	0.5	06/02/2024 23:19	06/03/2024 14:30	1	Forced Outage	Plant shutdown due to NIA INTAKE GATE closed.
HYD	BHP U0	6.6	06/02/2024 22:17	06/03/2024 0:10	1	Forced Outage	OMC outage due to IWS(Insufficient Water Supply).
HYD	EUROHYDRO 1	2.6	06/02/2024 16:57	06/03/2024 1:25	1	Forced Outage	Shutdown. Affected by COTELCO-PPalma Feeder Line tripping.(OMC)Outage.
COAL	PPE U1	20	06/02/2024 2:15			Forced Outage	PMS (Non-GOMP). ETC June 12 2024.
HYD	PG4 U2	75	06/01/2024 18:11	06/03/2024 9:01	2	Forced Outage	Shutdown due to Low Water Forebay Elevation. Outside Management Control (OMC).
HYD	13NABUN	3	05/31/2024 19:38	06/01/2024 0:20	1	Forced Outage	Isolation due to NORDECO Feeder Outage. (OMC Outage)
HYD	Talomo TL1 U2	0.5	05/23/2024 3:42	06/03/2024 1:01	11	Forced Outage	Insufficient water supply.(OMC Outage)
HYD	ASG U0	8.6	05/17/2024 0:01	06/11/2024 9:58	25	Forced Outage	Insufficient water supply. (OMC Outage)
HYD	SBL B U2	14	05/30/2024 8:51	06/03/2024 14:07	4	Forced Outage	Shutdown due to insufficient water supply (OMC Outage)
COAL	GNPK U4	151	05/25/2024 2:48	05/28/2024 3:15	3	Forced Outage	Online from Forced Outage - suspected boiler tube leak in elevation 32.5m (Unplanned Outage).

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Mindanao							
HYD	PG4 U2	75	05/13/2024 13:08	05/27/2024 10:45	14	Forced Outage	Online from OMC Shutdown due to low forebay elevation.
BIOF	LIBPOWR U1	6	05/27/2024 0:00			Planned Outage	PMS. ETC 08 Jun 2024 0000H
HYD	AG6 U4	25	05/26/2024 23:33	05/27/2024 16:21	1	Forced Outage	Forced outage. Emergency shutdown due to unbalanced voltage (to inspect its potential transformer).
OIL	WMPC Unit 4	10.2	05/26/2024 9:49	05/29/2024 17:00	3	Forced Outage	Tripped. Cause Turbo charger shock pulse alarm (Unplanned Outage)
BIOF	BFI BIOMASS U1	5.7	05/26/2024 1:41			Forced Outage	Plant shutdown due to scheduled Bi-annual PMS.ETC is on June 10 2024.
HYD	Talomo TL3 U2	0.93	05/24/2024 8:03	06/07/2024 23:59	14	Planned Outage	Plant shutdown due to Annual PMS.(GOMP) ETC June 7 2024 at 2359H
HYD	Talomo TL3 U1	0.93	05/25/2024 0:05	05/31/2024 20:47	6	Planned Outage	Plant shutdown due to Annual PMS.(GOMP) ETC May 31 2024 at 2359H
HYD	Talomo TL1 U2	0.5	05/23/2024 3:42			Forced Outage	OMC due to Insufficient water supply.
HYD	PG4 U3	75	05/25/2024 6:05	05/26/2024 0:40	1	Forced Outage	Online from OMC Outage- affected by the P&E request to undertake test and simulation of the newly installed PCBs and its protection system - ERC Approved MSRP Stage I Schedule II.
HYD	PG4 U2	75	05/13/2024 13:08			Forced Outage	Shutdown due to low water elevation.
OIL	KEG U0	10.6	04/15/2024 15:05			Forced Outage	Failed to synchronize due to low SF6 Pressure on PCB. Forced Outage (Unplanned Outage)
COAL	GNPK U4	151	05/25/2024 2:48			Forced Outage	Forced outage due to suspected boiler tube leak in elevation 32.5m (Unplanned Outage). ETC 28 May 2024 0800H.
BIOF	CSC U1	3.4	03/11/2024 23:59			Forced Outage	Shutdown from Testing and Commissioning Phase. Forced Outage
HYD	ASG U0	8.6	05/17/2024 0:01			Forced Outage	Insufficient water supply.
HYD	AG7 U2	25.3	05/08/2024 12:20	05/31/2024 5:38	23	Forced Outage	Declared available from PMS but remain s/d due to Low water elevation. (OMC Outage).
HYD	AG5 U2	27.5	05/25/2024 19:52	05/29/2024 8:48	4	Forced Outage	Shutdown due to low forebay elevation. (Unplanned Outage)
HYD	AG4 U3	52.7	04/23/2024 13:01	06/07/2024 13:02	45	Forced Outage	Shutdown due to low forebay elevation. (OMC Outage).
BIOF	14TACUR	6	05/23/2024 0:49			Forced Outage	No available biomass feedstock. (OMC Outage)
HYD	13NABUN	3	05/25/2024 22:22	05/26/2024 1:05	1	Forced Outage	Insufficient water supply (OMC Outage).

Connect with PEMC

✉ pemc_info@wesm.ph

☎ +63 2 8631 8734

📍 18F Robinson Equitable Tower,
ADB Avenue Ortigas Center,
Pasig City 1600, Philippines

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