



# MONTHLY MARKET ASSESSMENT HIGHLIGHTS

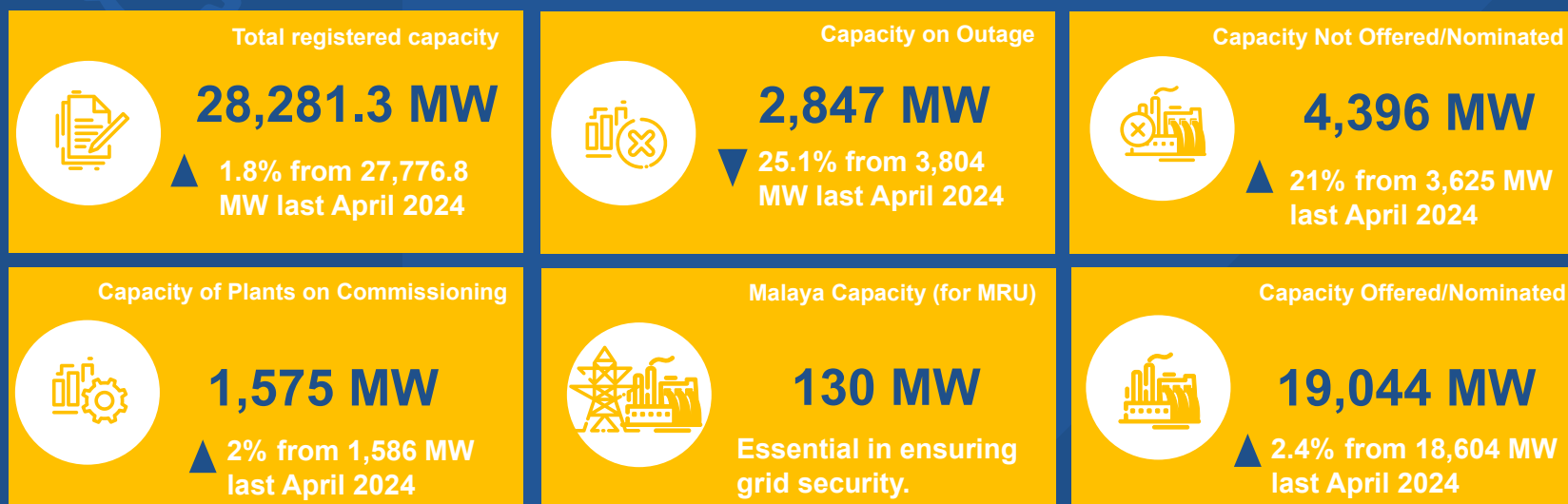
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26 April 2024 to 25 May 2024

# SUMMARY OF OBSERVATIONS

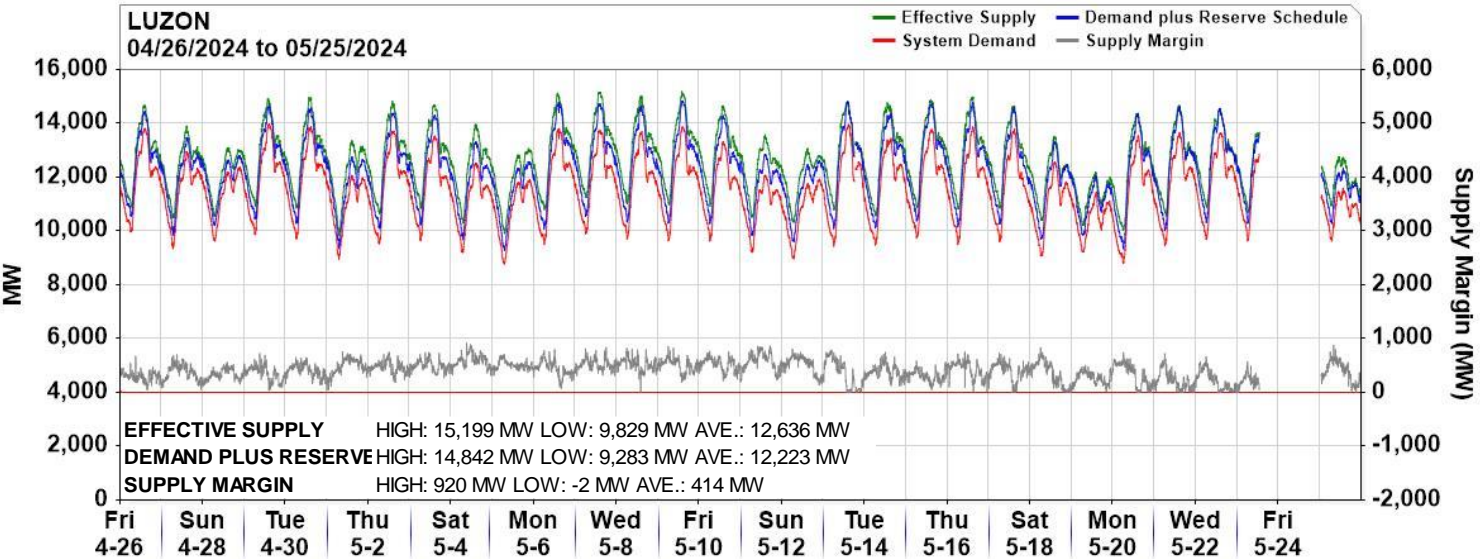
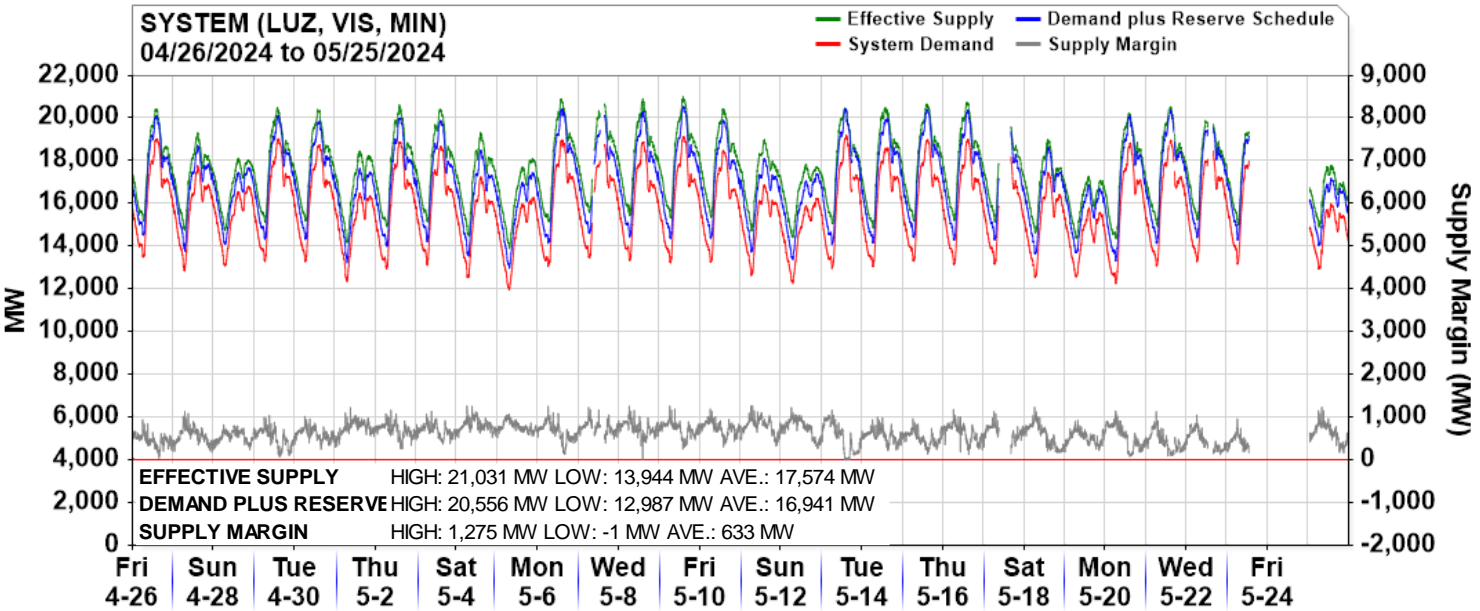
- **Secondary Price Cap impositions** affecting 1,671 trading intervals
- **Yellow Alert** notice issuances by the System Operator in Luzon and Visayas on 26, 29, and 30 April, and 1, 2, 6, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, and 25 May 2024
- **Red Alert** notice issuances by the System Operator in Luzon and Visayas on 26 April, 23 May 2024
- **ERC declared Market Suspension** in Luzon and Visayas during red alert affecting 430 intervals on 23-25 May 2024
- **Declaration of Market Intervention events:**
  - **Nine (9) MO-initiated events on 13, 18, and 21 May 2024 affecting** Luzon, Visayas, and Mindanao regions due to failure to generate results.
  - **SO-initiated Market Intervention affecting** Visayas region for 187 intervals on 30 April and 7, 17, 21, and 22 May 2024 due to implementation of Manual Load Dropping (MLD) to prevent overloading of Cebu-Mandaue 138kV Line.
- **Notable congestions:**
  - Maasin-Ubay line 1 for 3,266 intervals (38% of the time)
  - Cebu-Mandaue line 2 for 1,149 intervals (13% of the time)
  - Bauang-BPPC line 1 for 778 intervals (9% of the time)

## AT A GLANCE



# MARKET OUTCOME

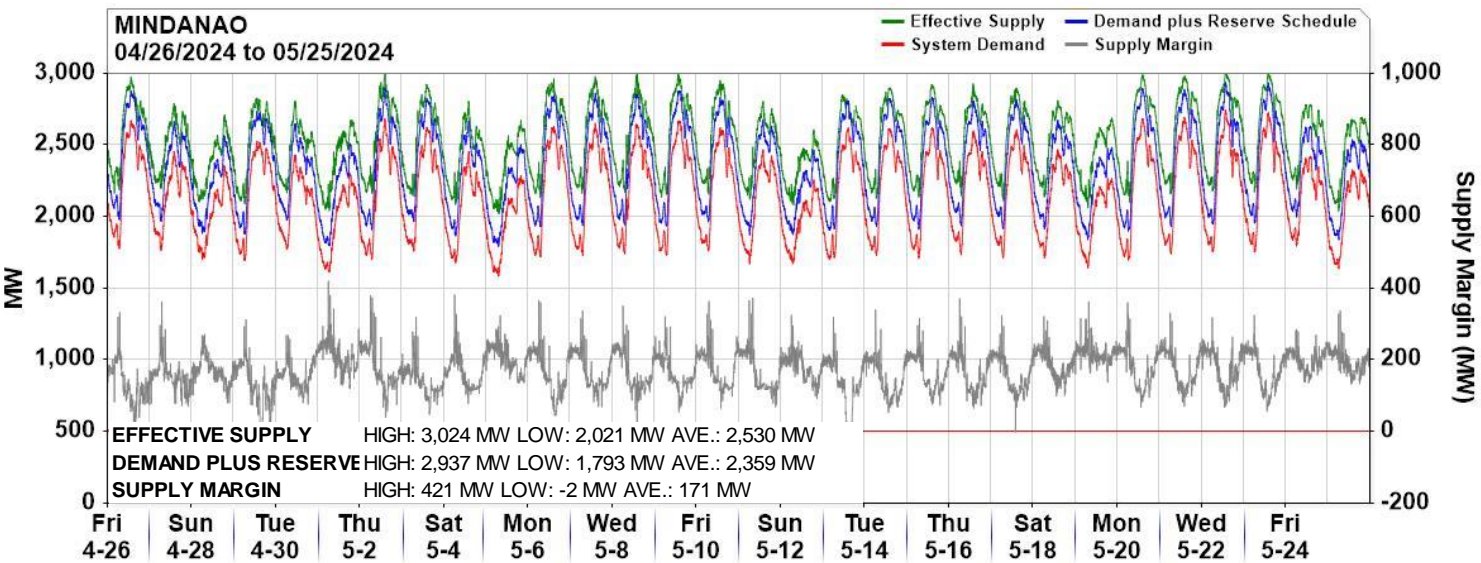
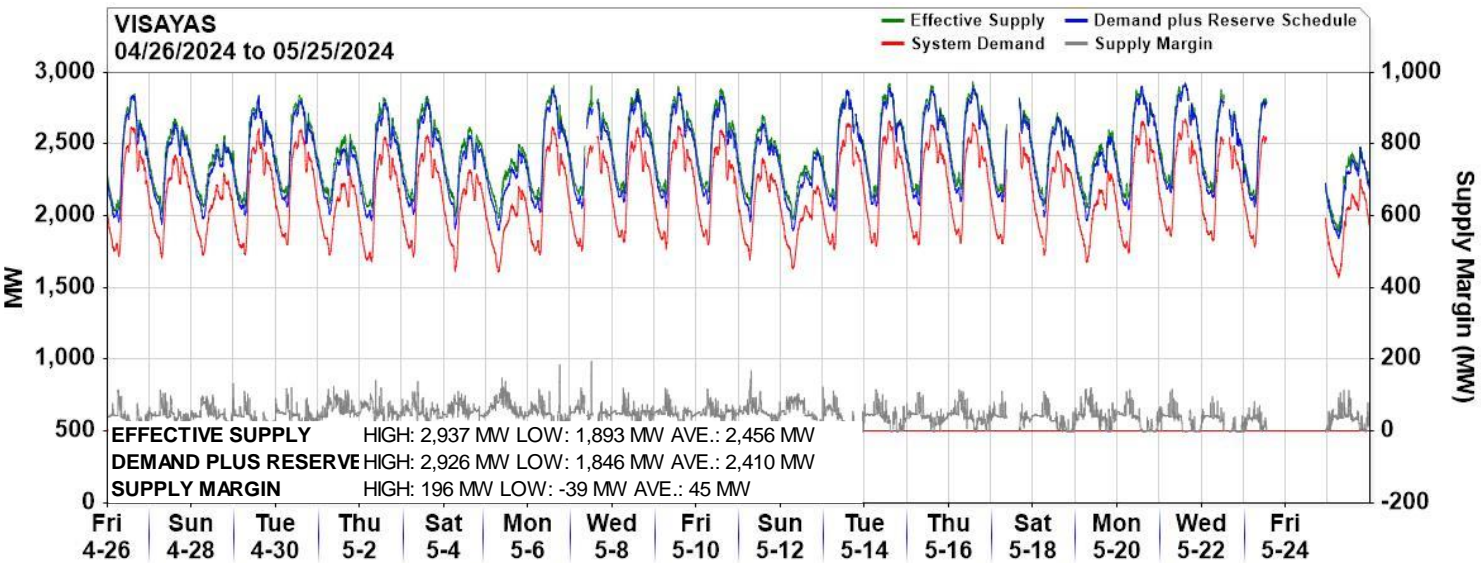
## SUPPLY AND DEMAND



System-wide Effective Supply increased by an average of 6.9% due to the resumption on operations of large plants that were previously on outage. However, the demand likewise increased by an average of 8.1%, leading to an average of 16.5% decrease in supply margin during the period.

# MARKET OUTCOME

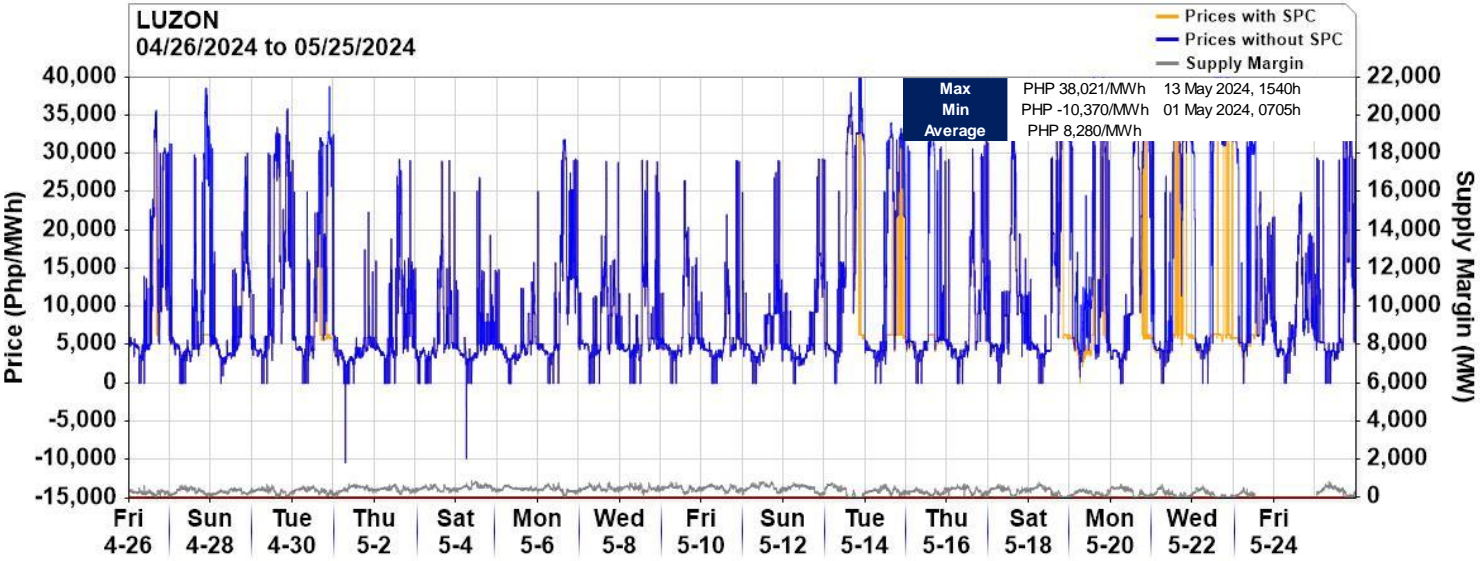
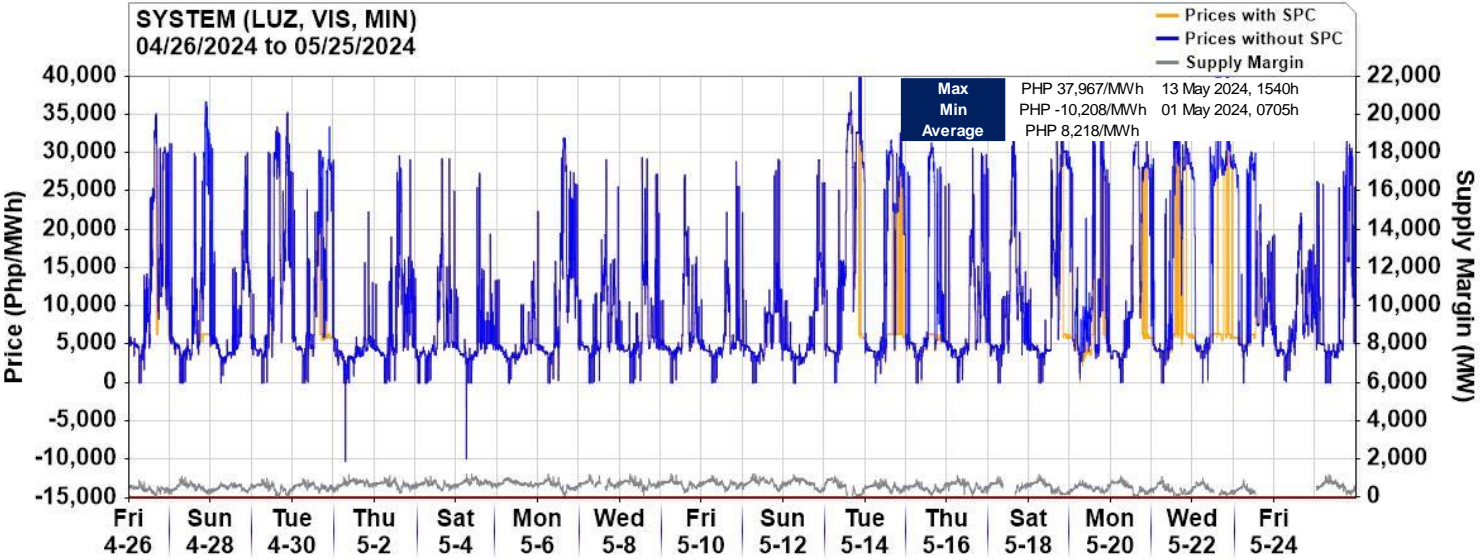
## SUPPLY AND DEMAND





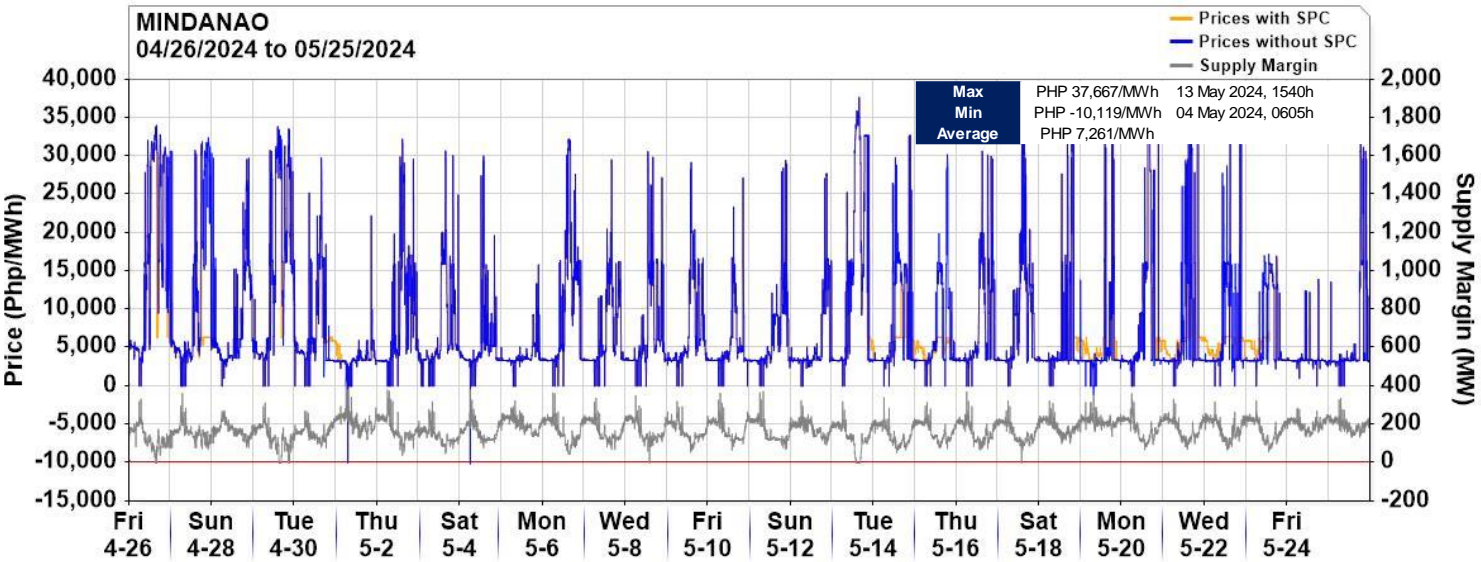
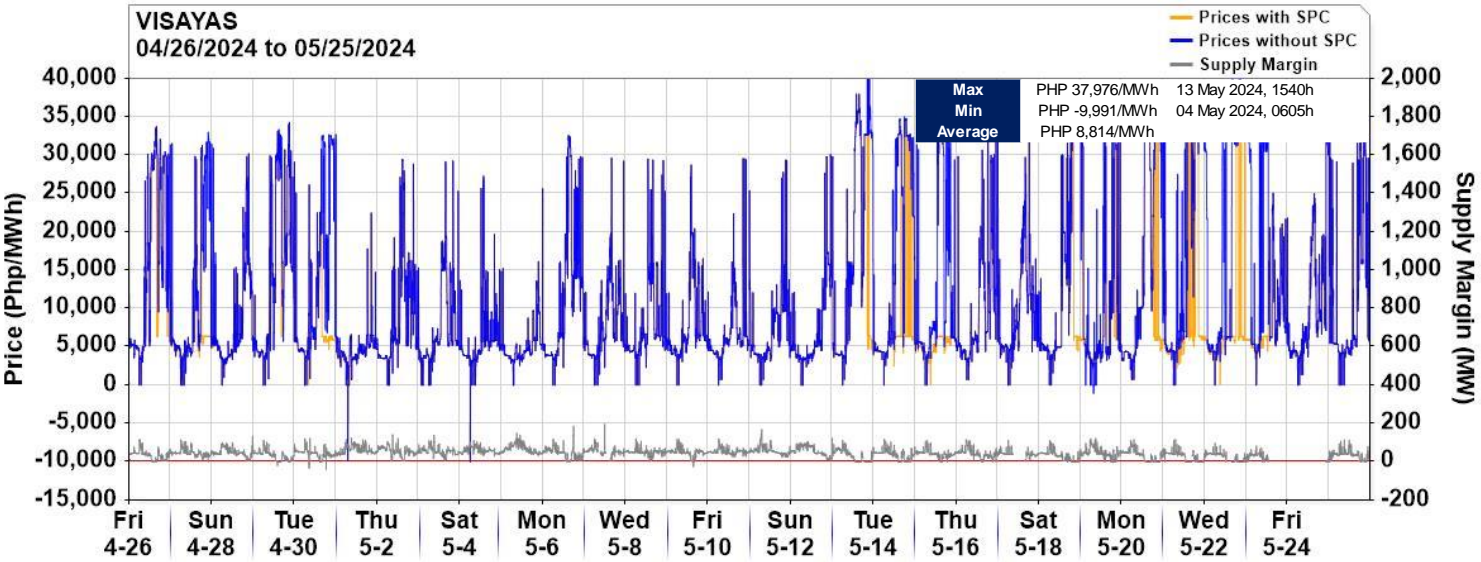
# MARKET OUTCOME

## MARKET PRICES



# MARKET OUTCOME

## MARKET PRICES

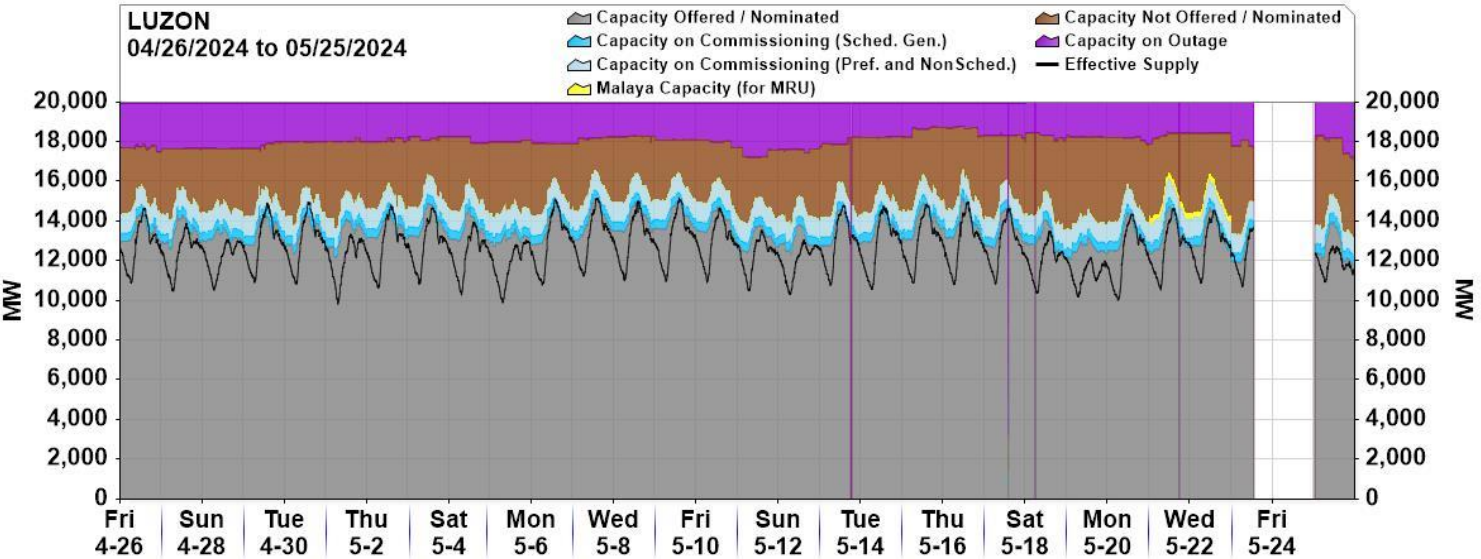
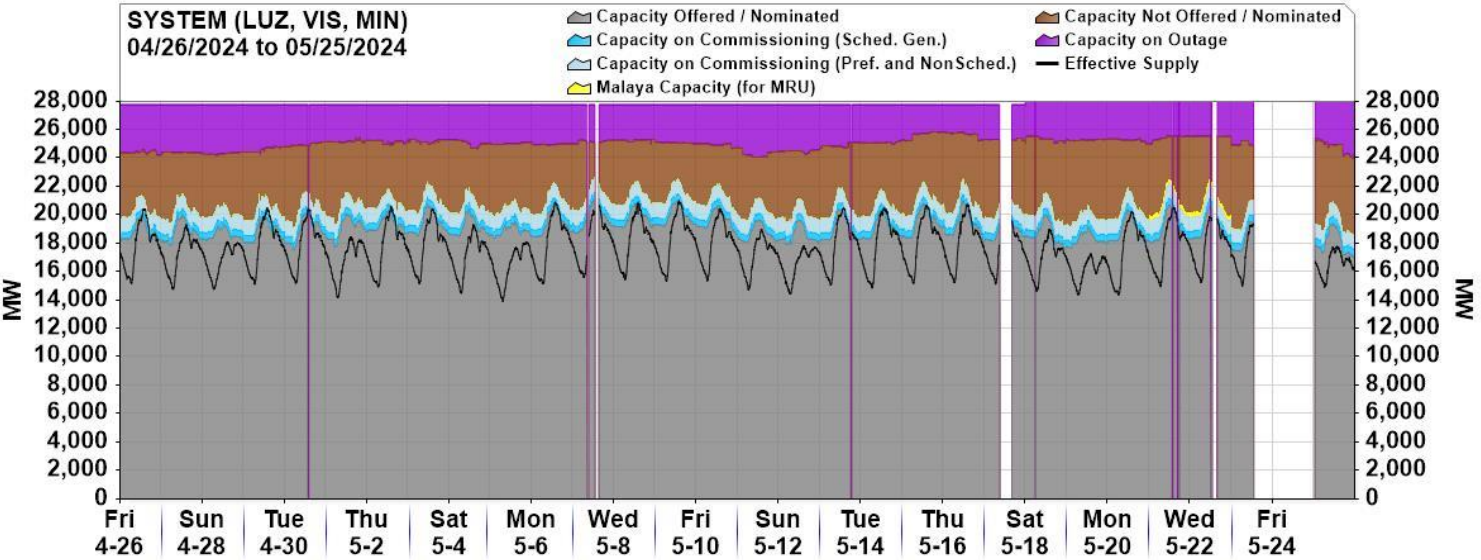


There were noted instances of price spikes in Luzon, Visayas, and Mindanao regions, affected mainly by the availability of supply to meet the demand. Noting that average prices, system-wide and regional, were relatively higher this month compared to last month, impositions of system-wide or regional secondary price cap was noted, which affected 1,725 trading intervals. Market prices which were lower or greater than the offer price floor and ceiling cap resulted from the costs of losses and congestion due to the current system design. Furthermore, high prices, particularly on the tail end of the billing period, resulted from reduced supply level brought about by high level of outages.



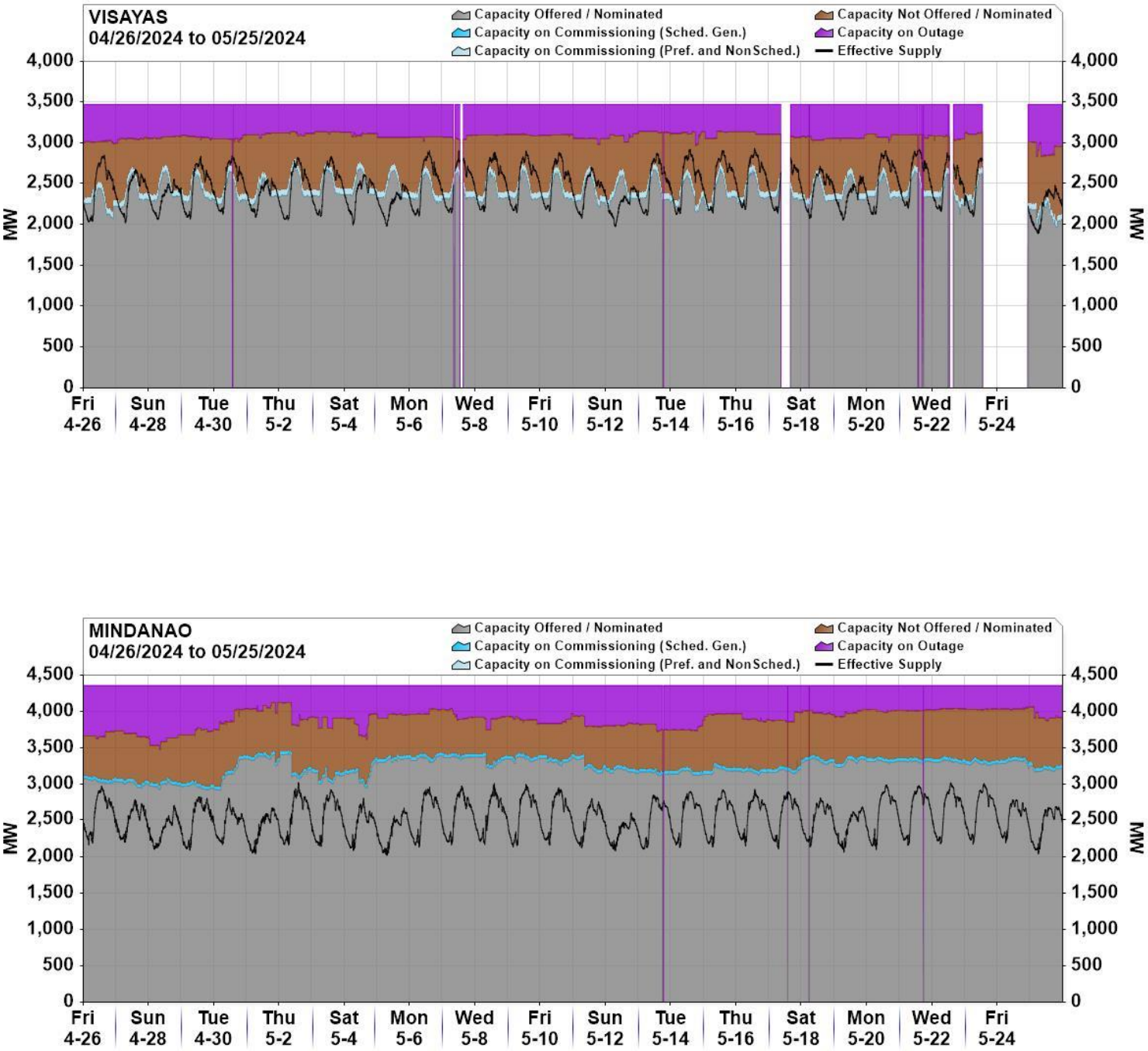
# MARKET OUTCOME

## CAPACITY PROFILE



# MARKET OUTCOME

## CAPACITY PROFILE



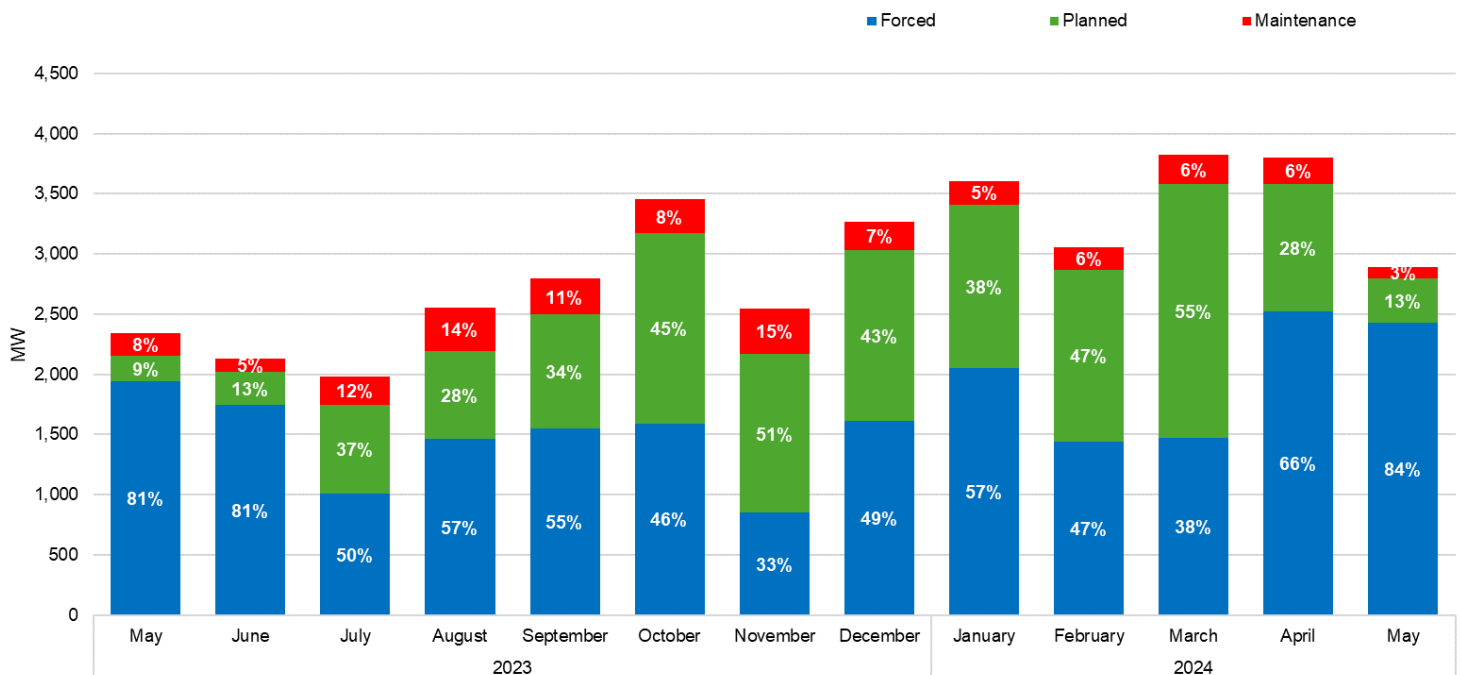
A total system registered capacity of 28,266.8 MW was noted during the billing period in review. Of the total registered capacity, 4,396 MW was under the Capacities Not Offered/Nominated which were mostly attributable to resource constraints and are subject to further validation with the Enforcement and Compliance Office of PEMC.



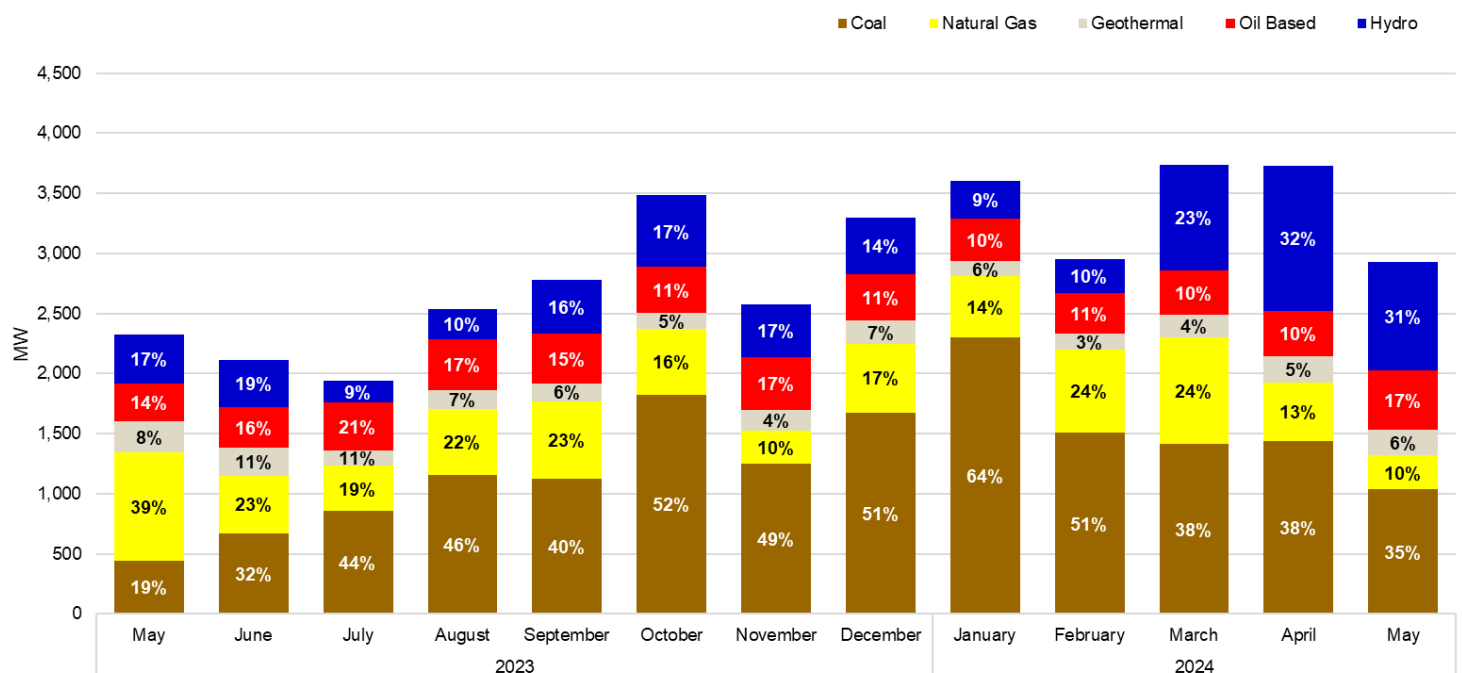
# MARKET OUTCOME

## CAPACITY ON OUTAGE

CAPACITY ON OUTAGE BY CATEGORY

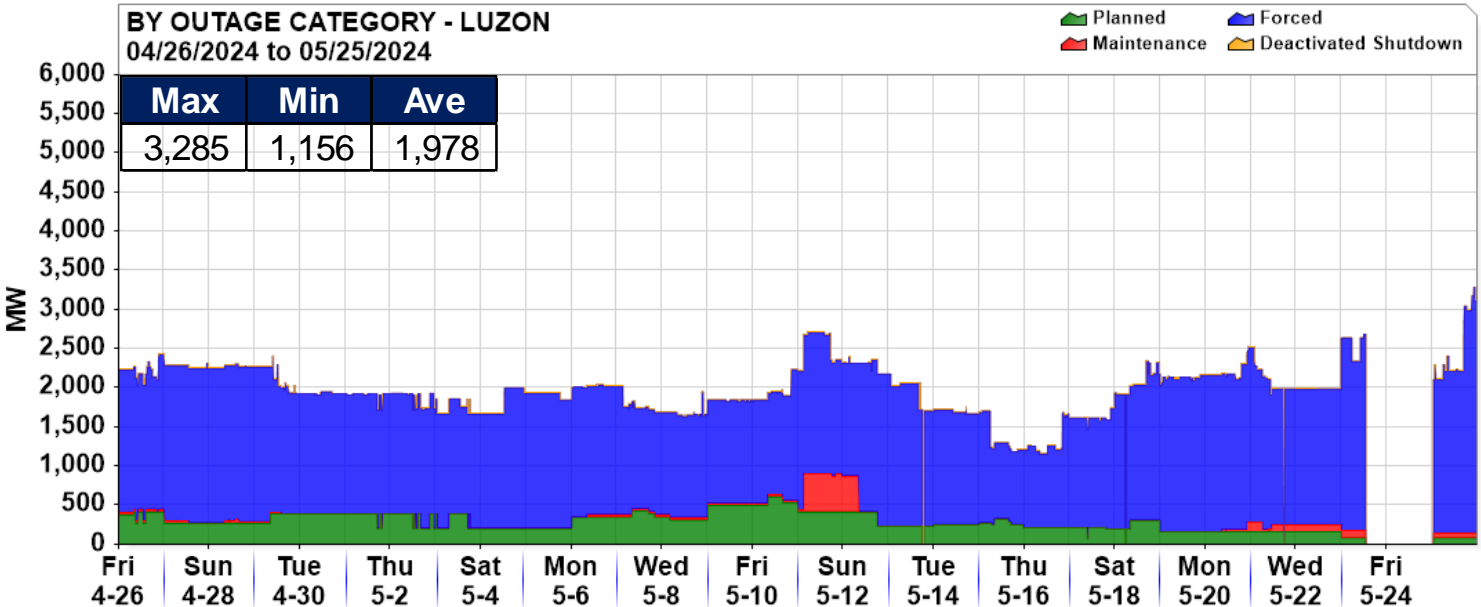
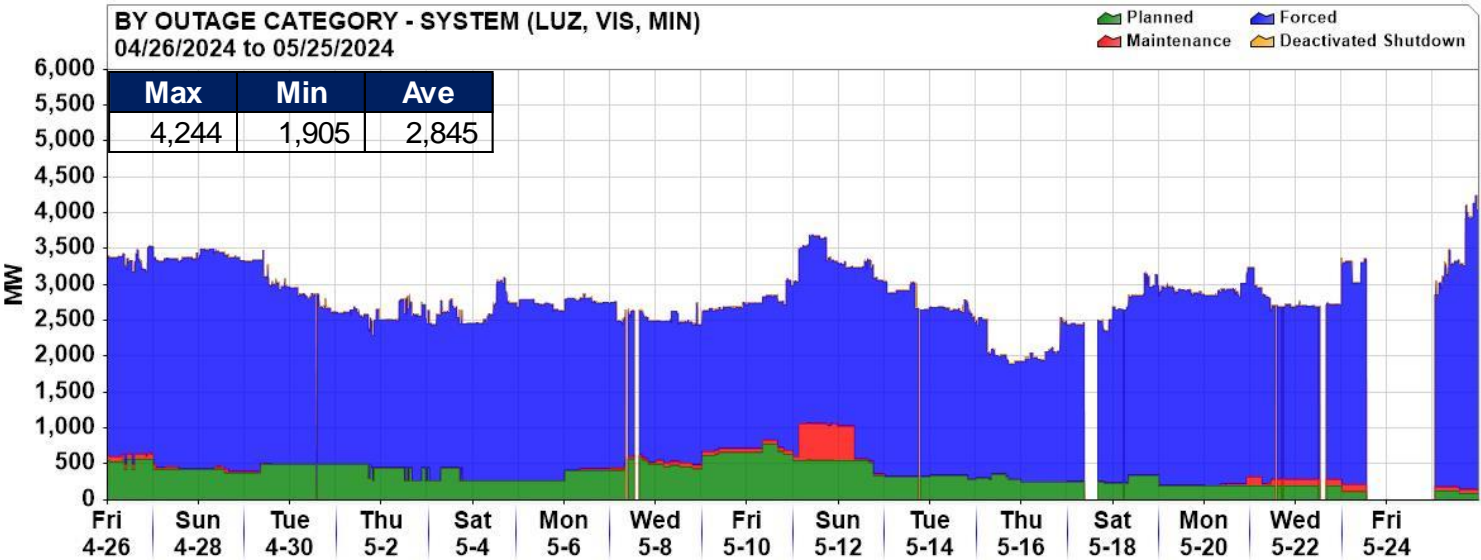


CAPACITY ON OUTAGE BY PLANT TYPE



# MARKET OUTCOME

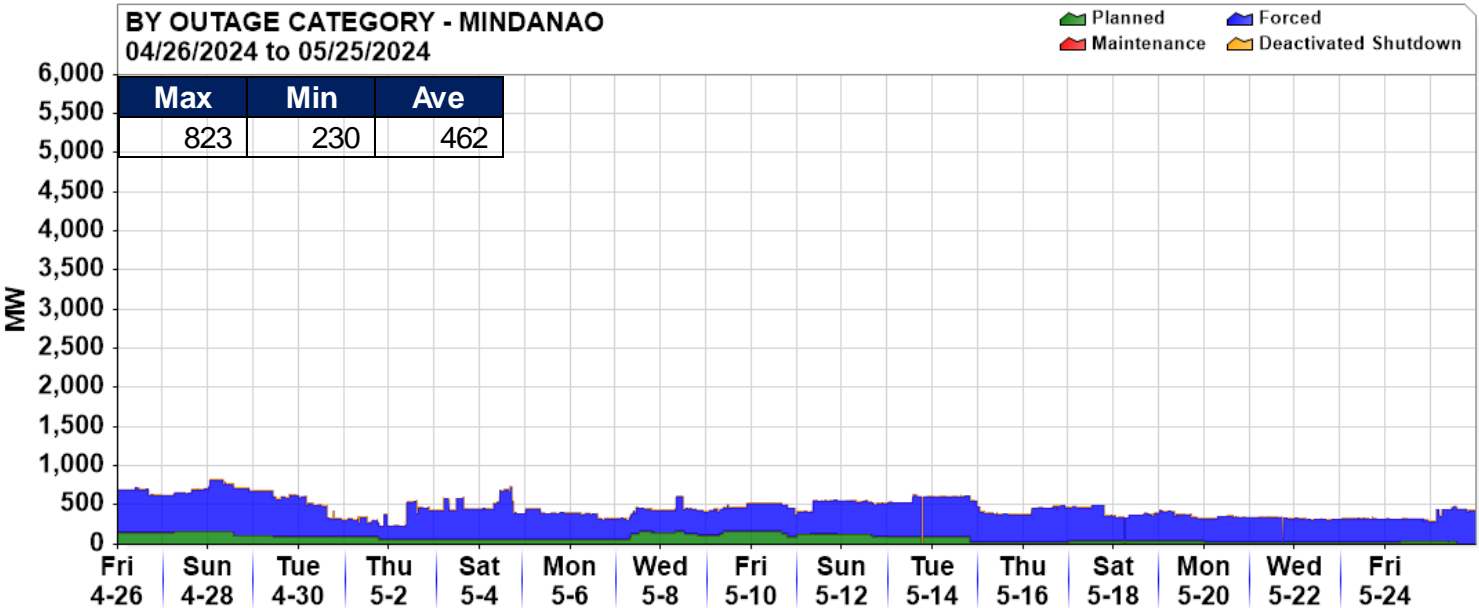
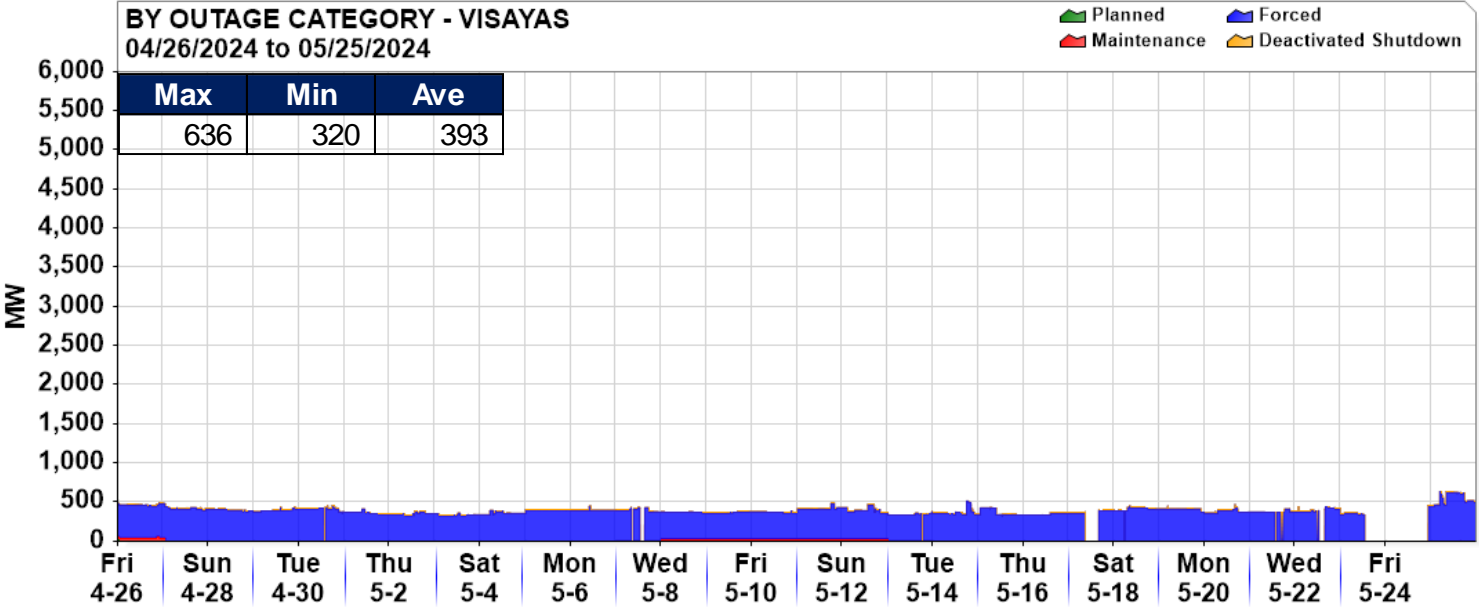
## CAPACITY ON OUTAGE



Out of 8,640 trading intervals, 90% of the time or 7,786 intervals posted an outage level above 2,000MW. The average supply margin during instances when the outage level is less than 2,000MW is 646MW with an average price of Php6,782/MWh while the average supply margin during instances when outage level is more than 2,000MW is 633 MW with an average price of Php7,845/MWh.

# MARKET OUTCOME

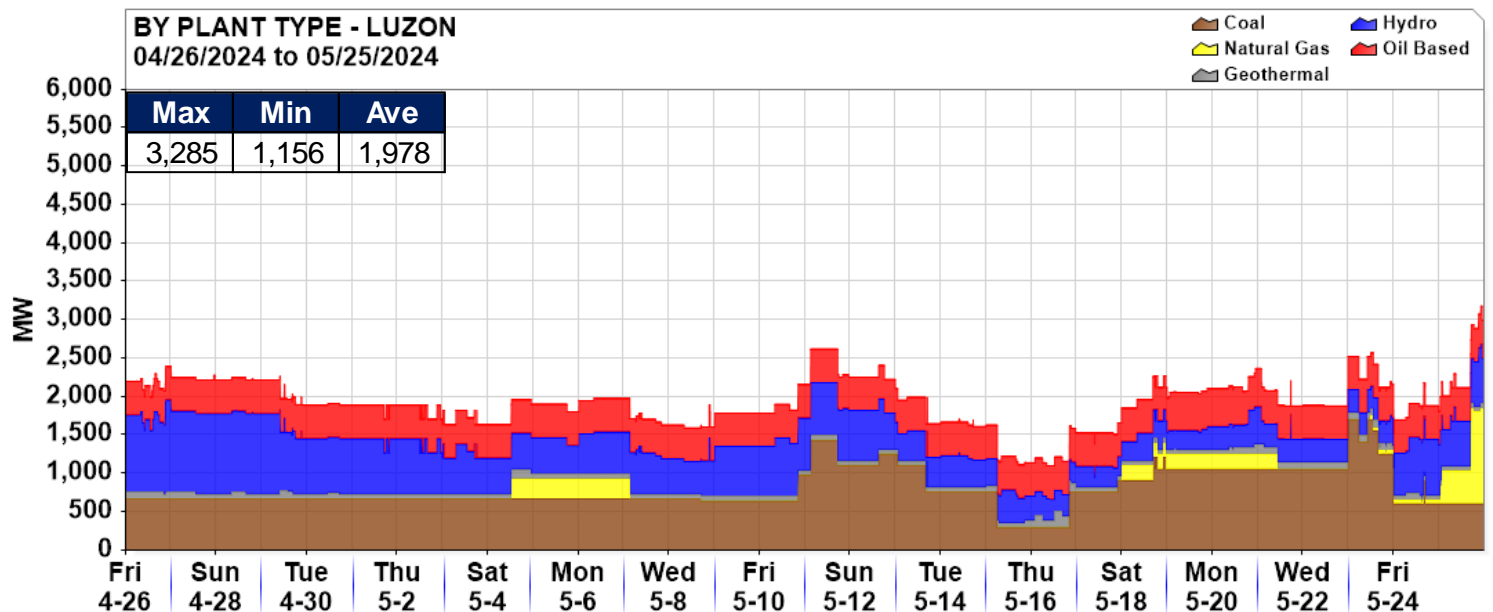
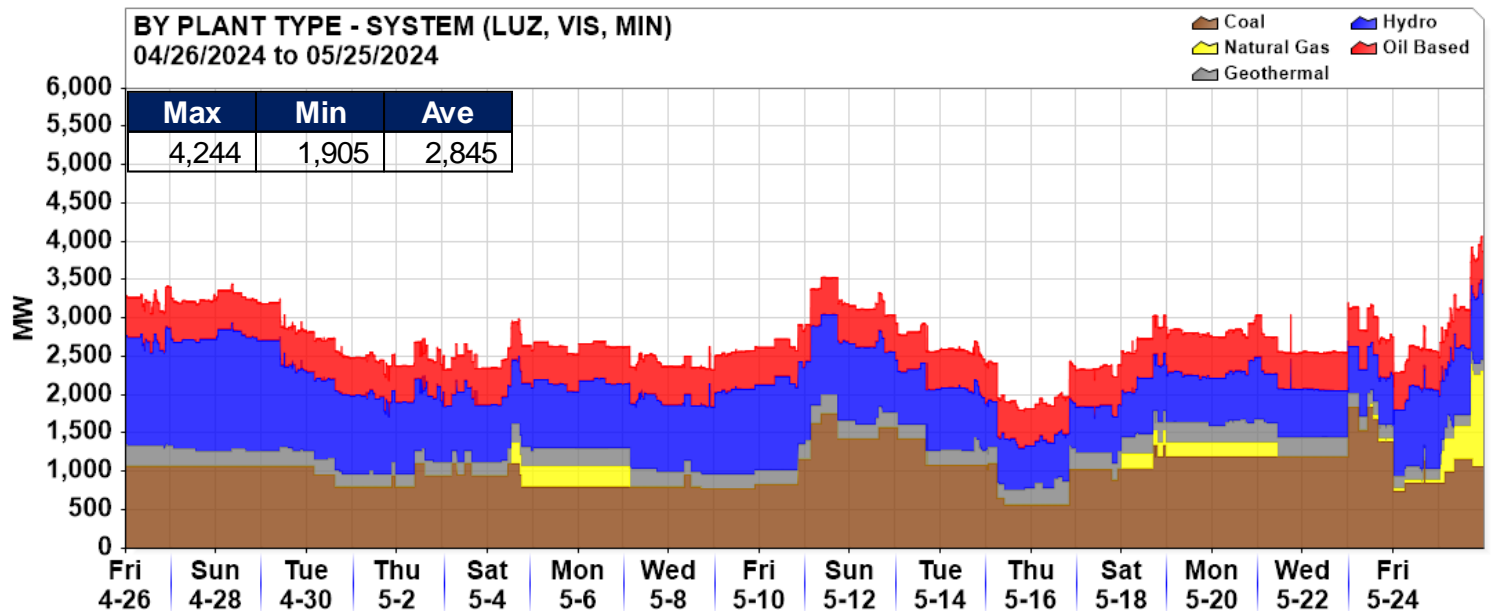
## CAPACITY ON OUTAGE





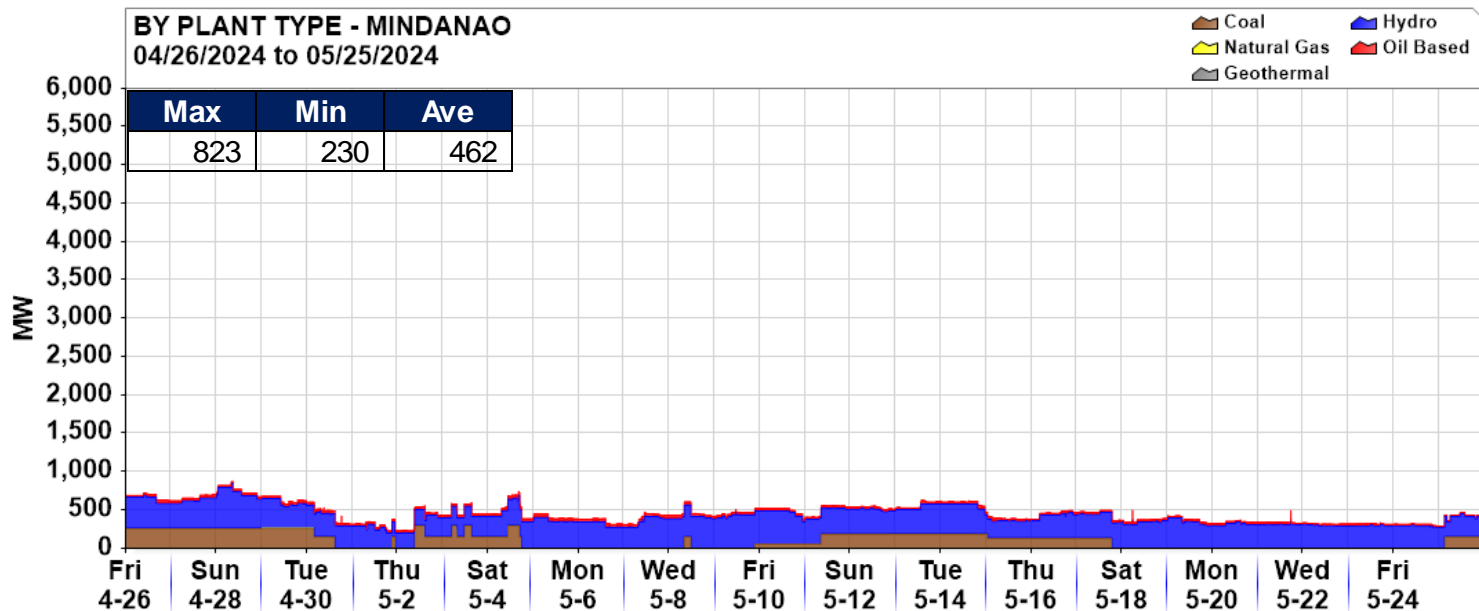
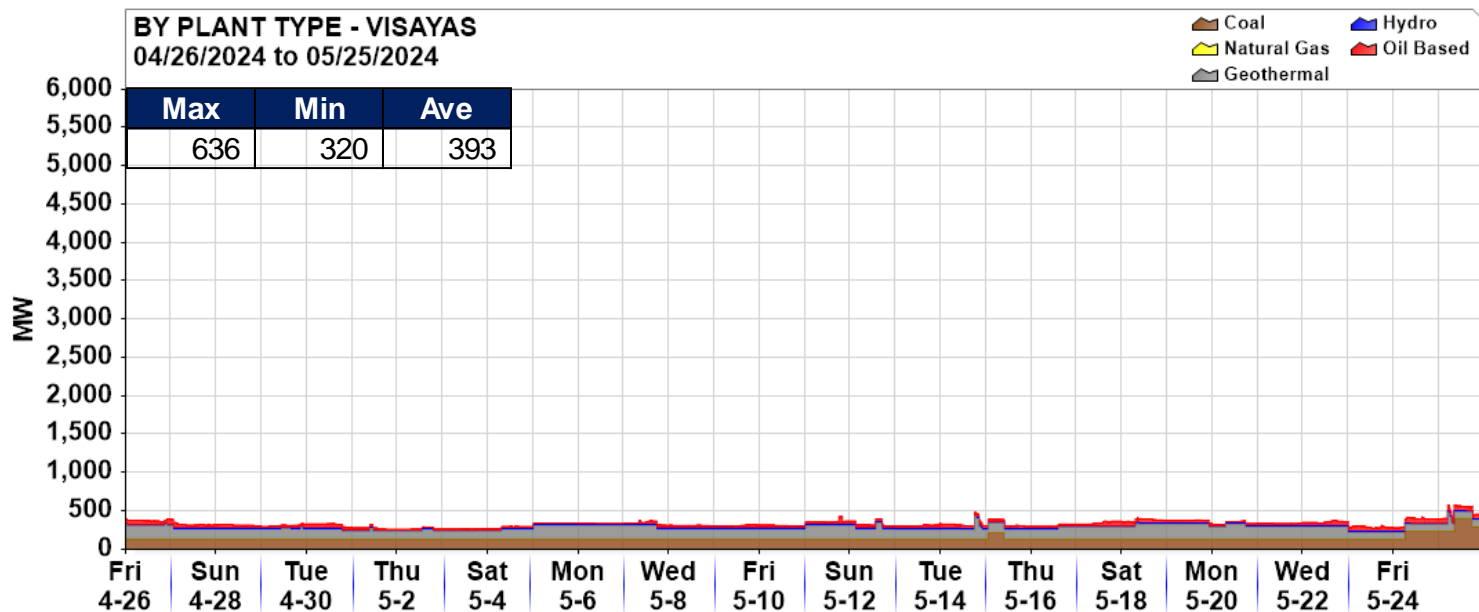
# MARKET OUTCOME

## CAPACITY ON OUTAGE



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## CAPACITY ON OUTAGE

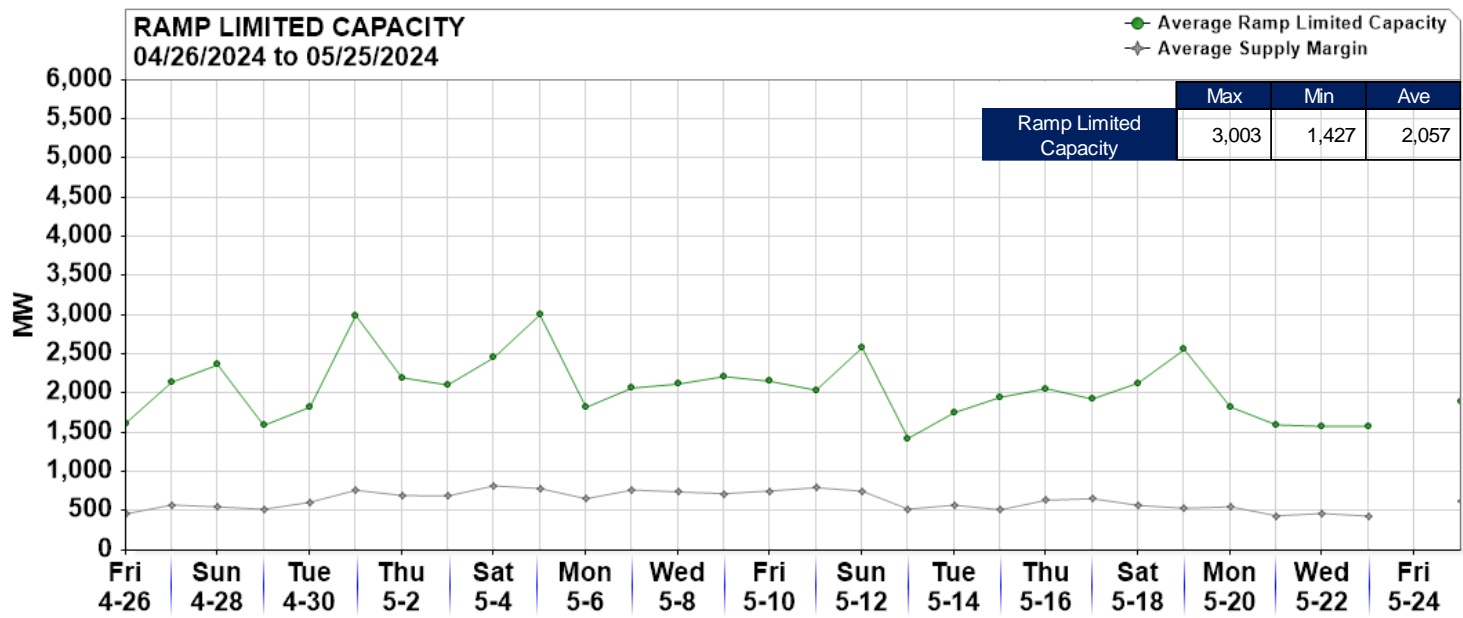


Although most of the plants that were on outage resumed their respective operations, it can still be noted that level of capacities on outage was still relatively high especially for the Luzon region. As anticipated, Hydro power plants was one with the highest contribution in the outage share due to the summer season which diminished the available waters from the reservoirs. Additionally, although Coal power plants topped the statistics for the capacities registered in the market, they have also consistently posted with the highest outage share among all resources during this period. Malaya units which hold the largest capacity of Oil-based power plants and are designated as Must-run units to augment any supply inadequacy, were likewise unavailable.

# MARKET OUTCOME

## GENERATOR RAMPING

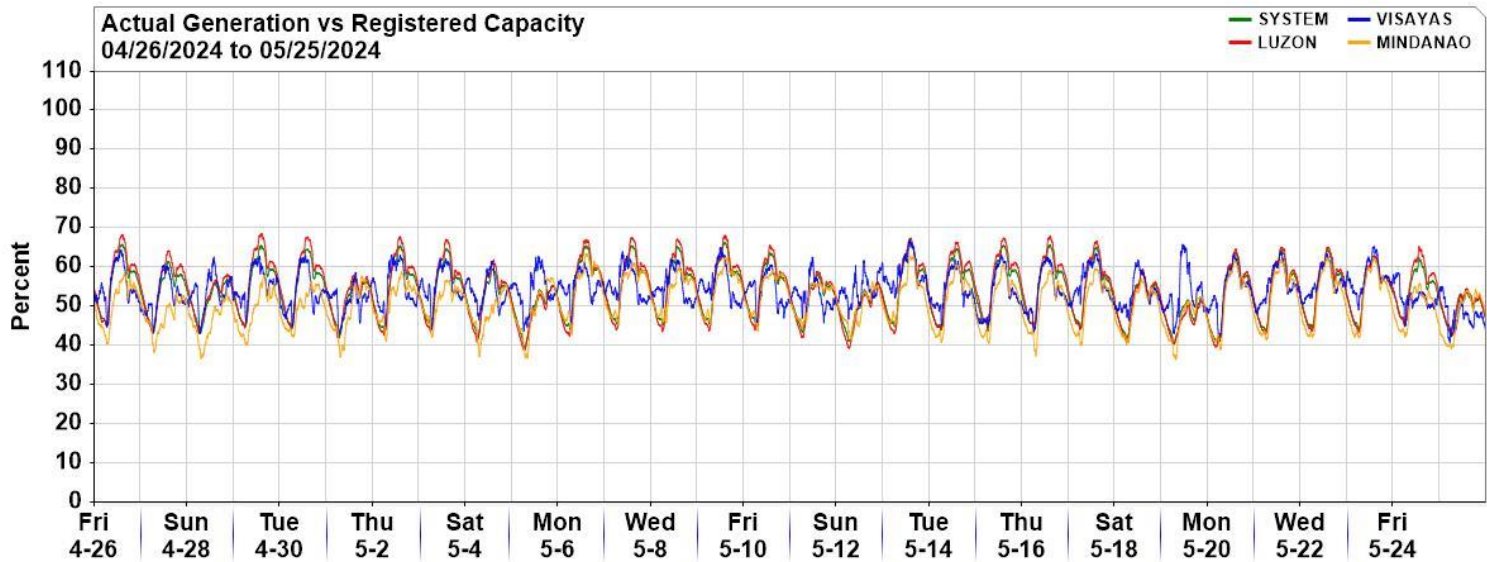
RAMP LIMITED CAPACITY



The average Ramp Limited capacity was observed to have decreased by an average of 25%, from an average of 2,725 MW last month, owing to the resumption of plants that were previously on outage which contributed to the improvement of ramp limited capacities.

# MARKET OUTCOME

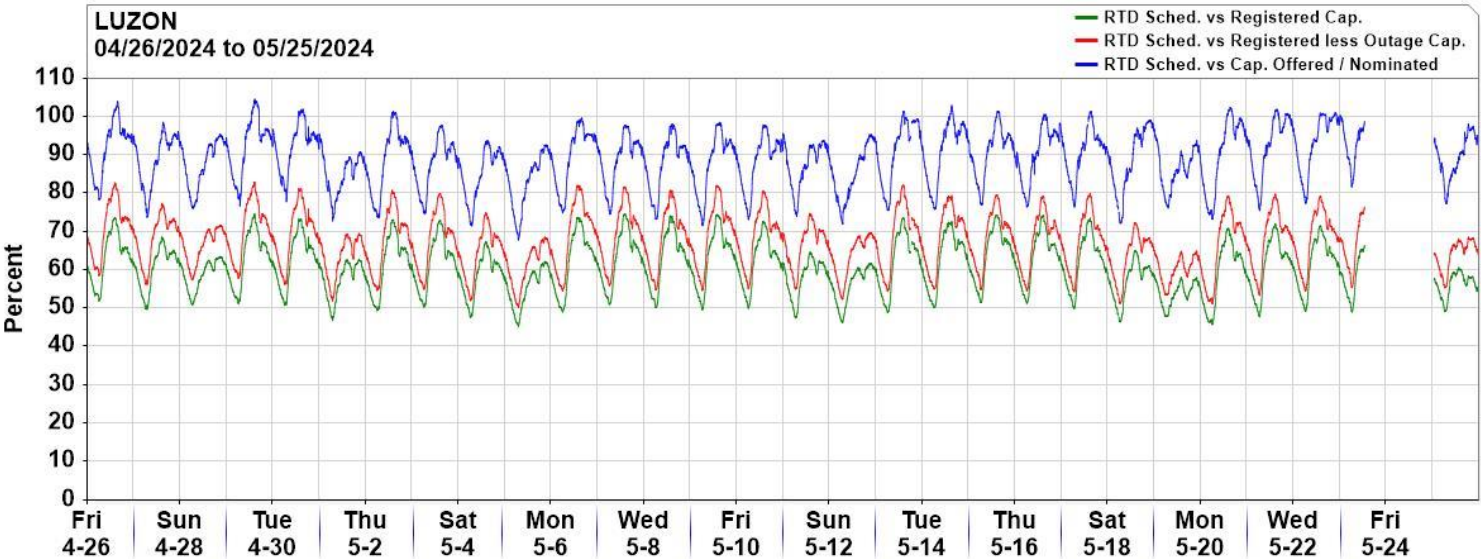
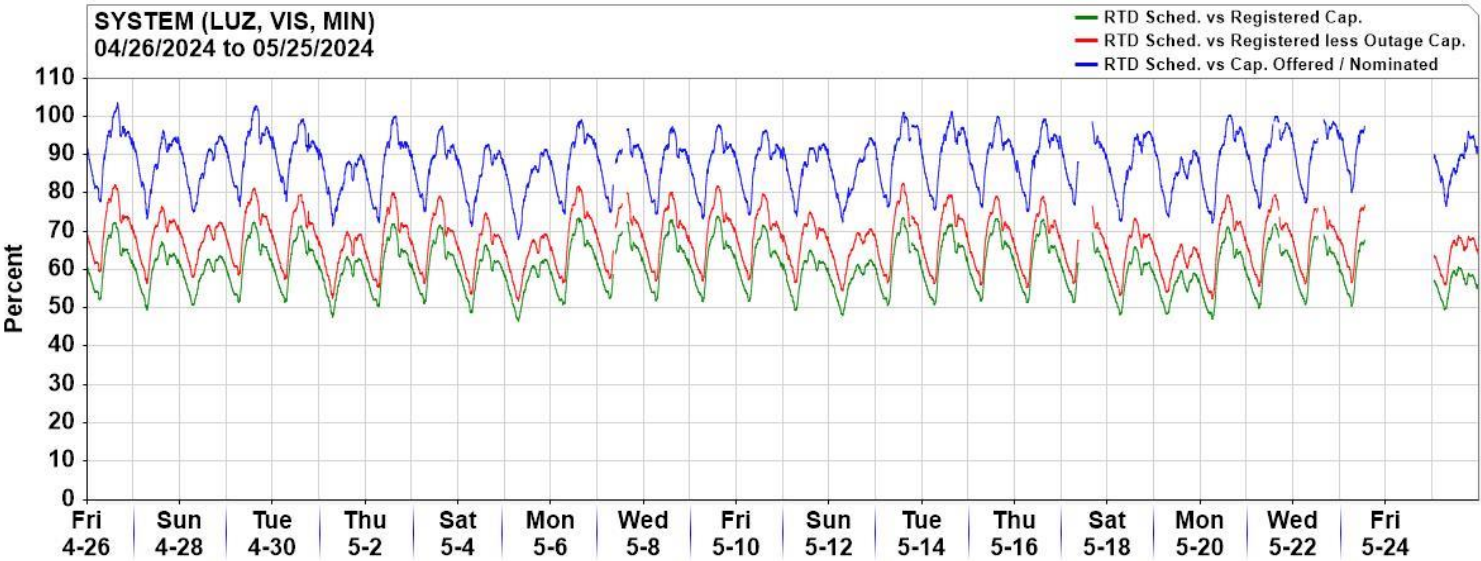
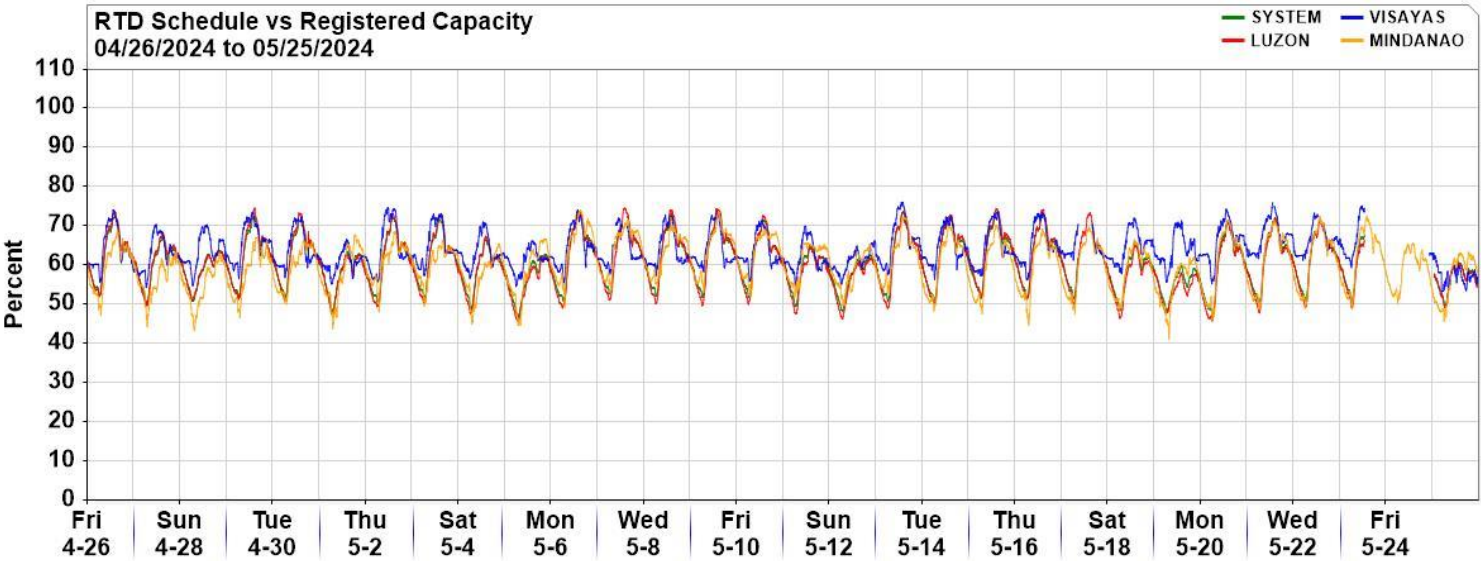
## CAPACITY FACTOR





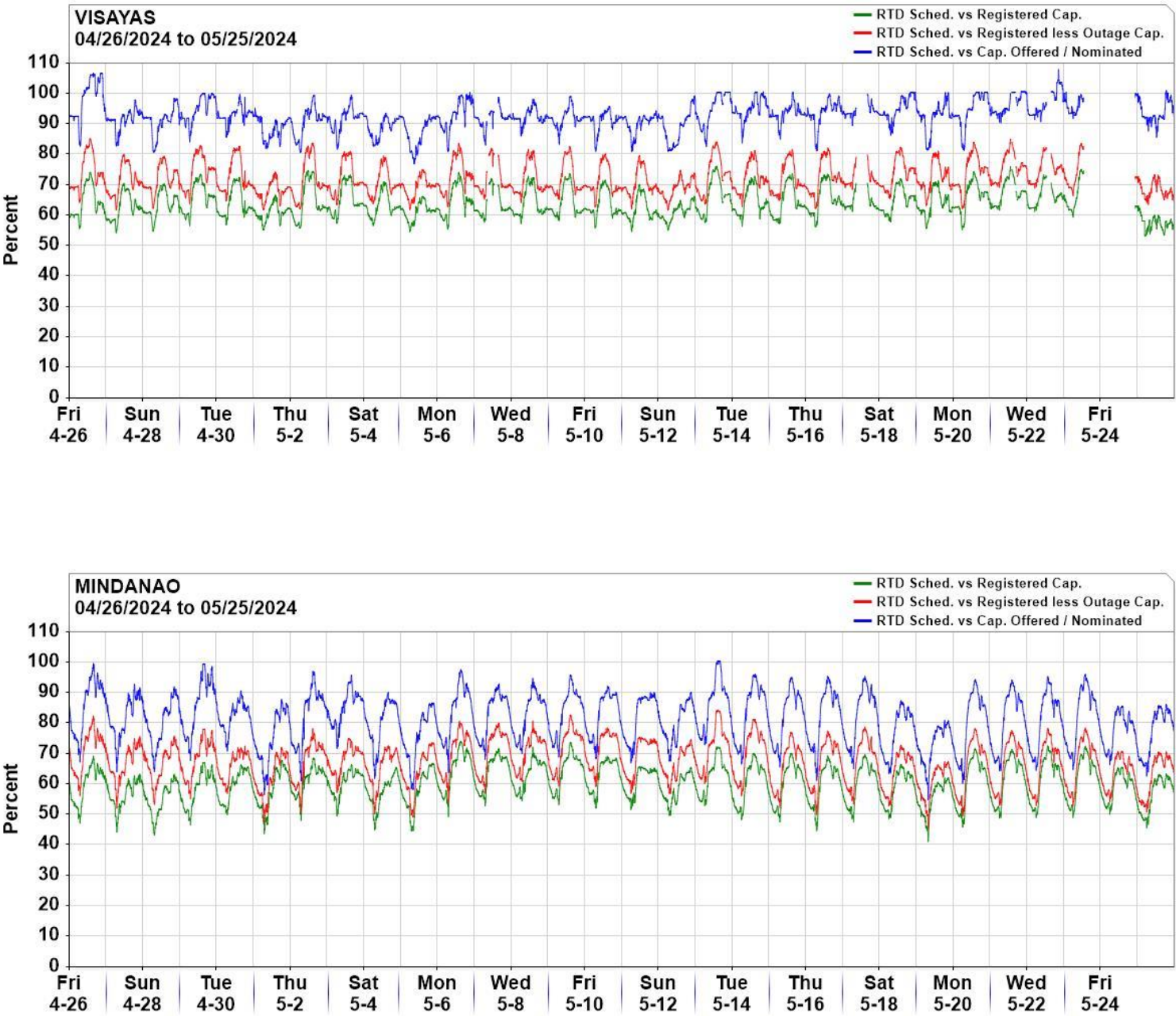
# MARKET OUTCOME

## CAPACITY FACTOR



# MARKET OUTCOME

## CAPACITY FACTOR

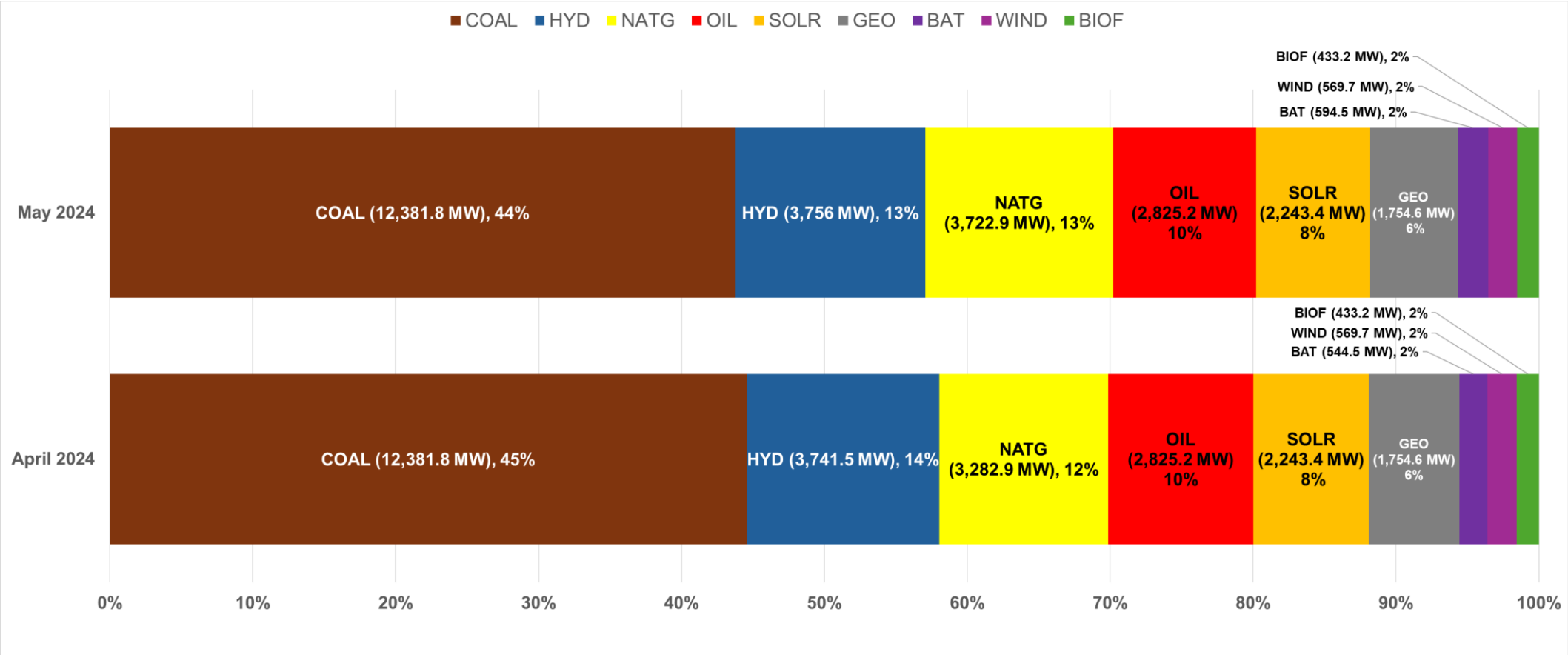


The capacity factors (Actual Generation vs Registered Capacity) for the system and each region were recorded only at an average of 54%, indicating that only about half of the registered capacities is being utilized in the system. While Luzon and Visayas were highly affected by the capacities on outage and unavailability of the generators, the low-capacity factor in Mindanao resulted from the ample, if not, oversupply in the region, notwithstanding the region’s export to the Visayas region.

Capacity Factors above 100% utilization rate in terms of RTD schedule vs Capacity Offered/Nominated were mainly due to the dispatch of plants under commissioning test which do not submit offers to the market but were nevertheless given RTD schedules via over-riding constraints imposed by SO.

# MARKET OUTCOME

## REGISTERED CAPACITY



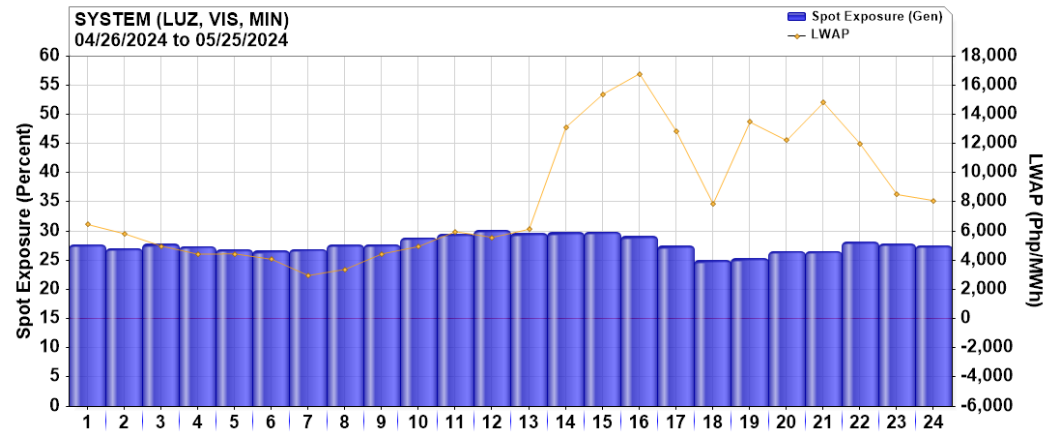
Total registered capacity during May 2024 billing period posted an increase of 504.5 MW, mainly attributed to the additional capacities from Battery, Hydro, and Natural gas power plants.



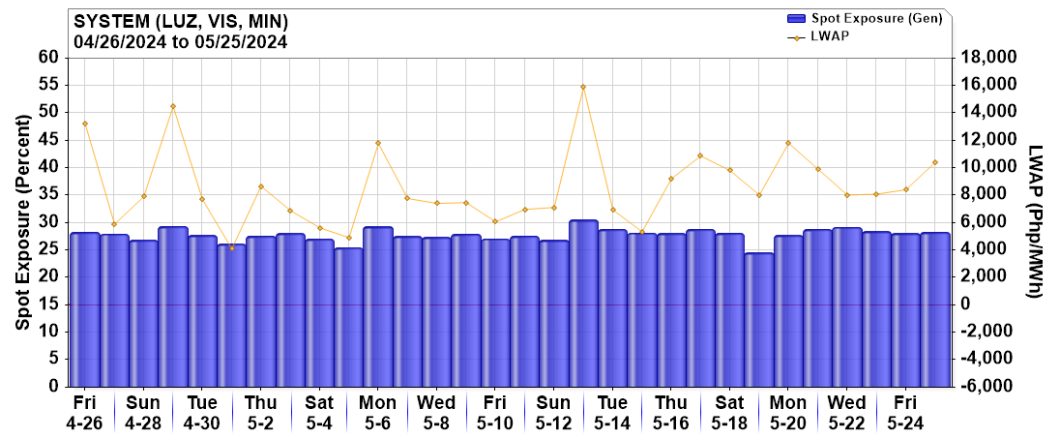
# MARKET OUTCOME

## SPOT EXPOSURE

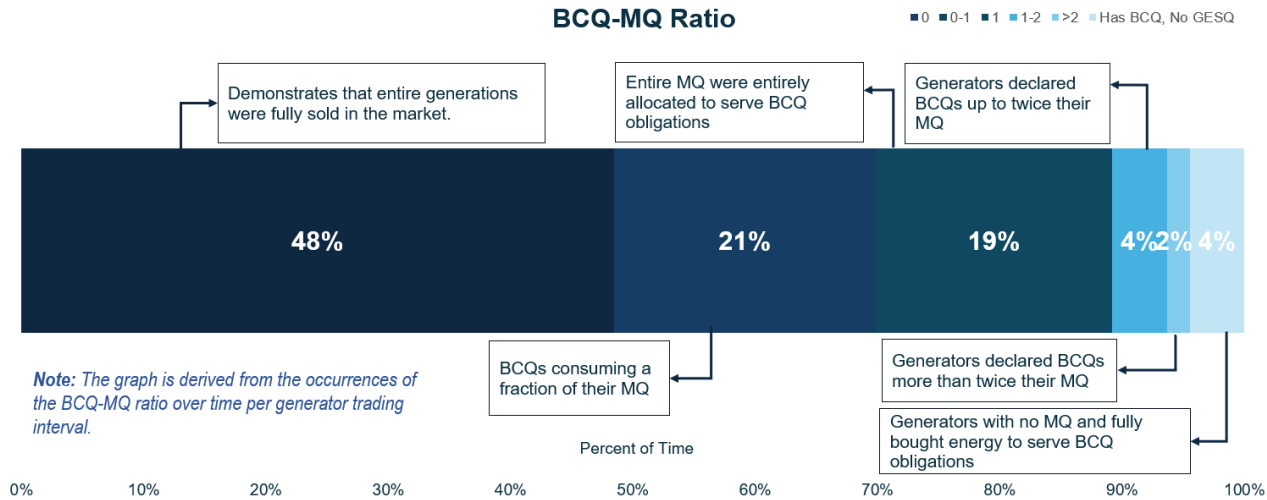
HOURLY SPOT



DAILY SPOT



BCQ-MQ Ratio

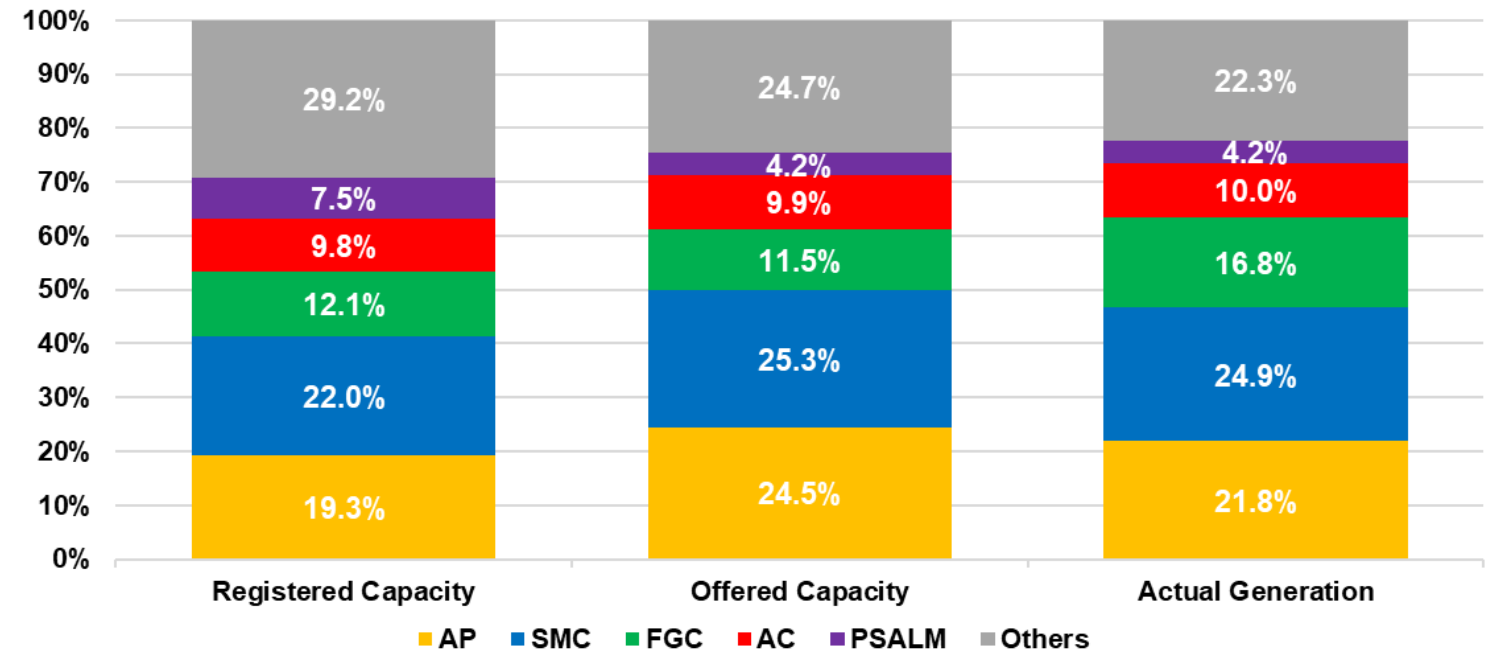


Total spot quantities of generator participants in the May 2024 billing period were at an average of 27.5% with an average price of PHP5,988/MWh during off-peak hours while during peak hours, the average exposure was at 28.2% with an average price of PHP11,554/MWh. In addition, spot exposures during weekends posted an average of 27.4% with an average price of PHP7,412/MWh while it was at an average of 28.2% during weekdays with an average price of PHP9,304/MWh.

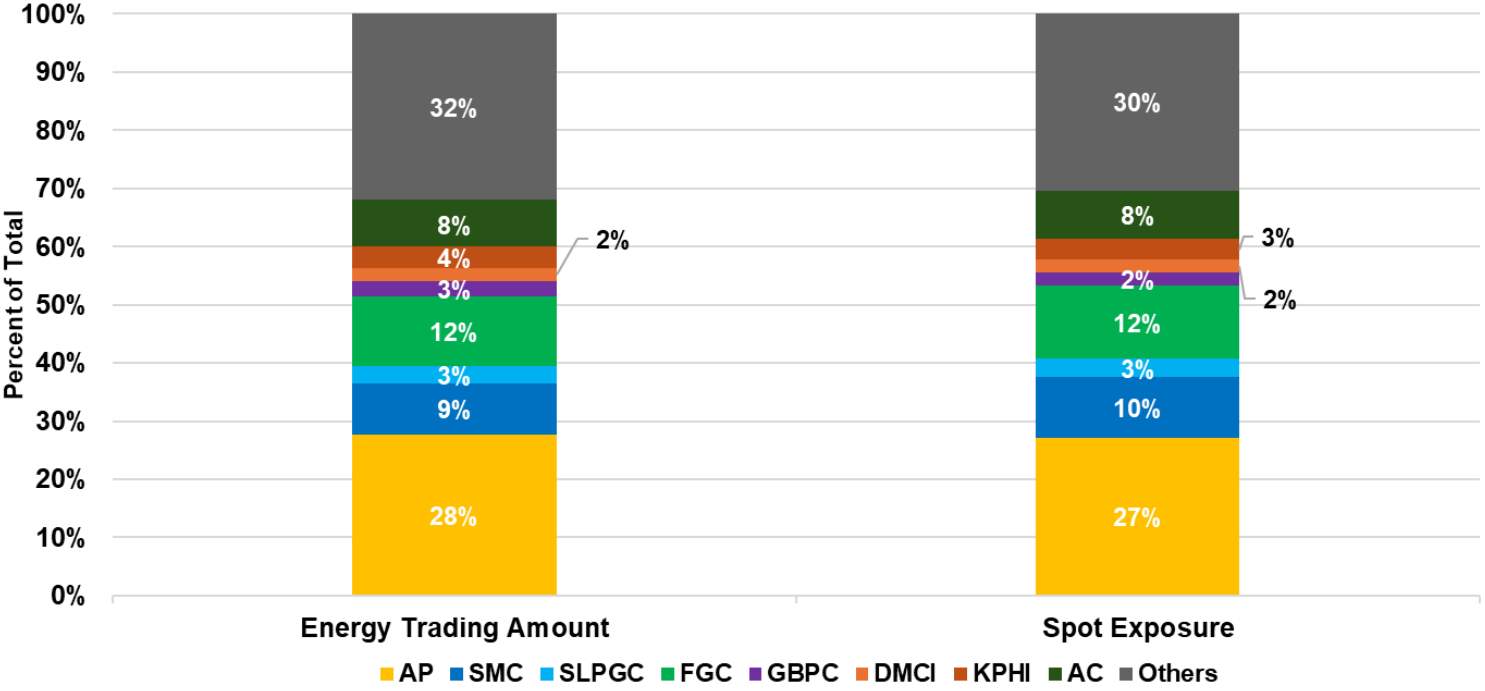
# MARKET OUTCOME

## STRUCTURAL COMPETITION

SYSTEM MARKET SHARES



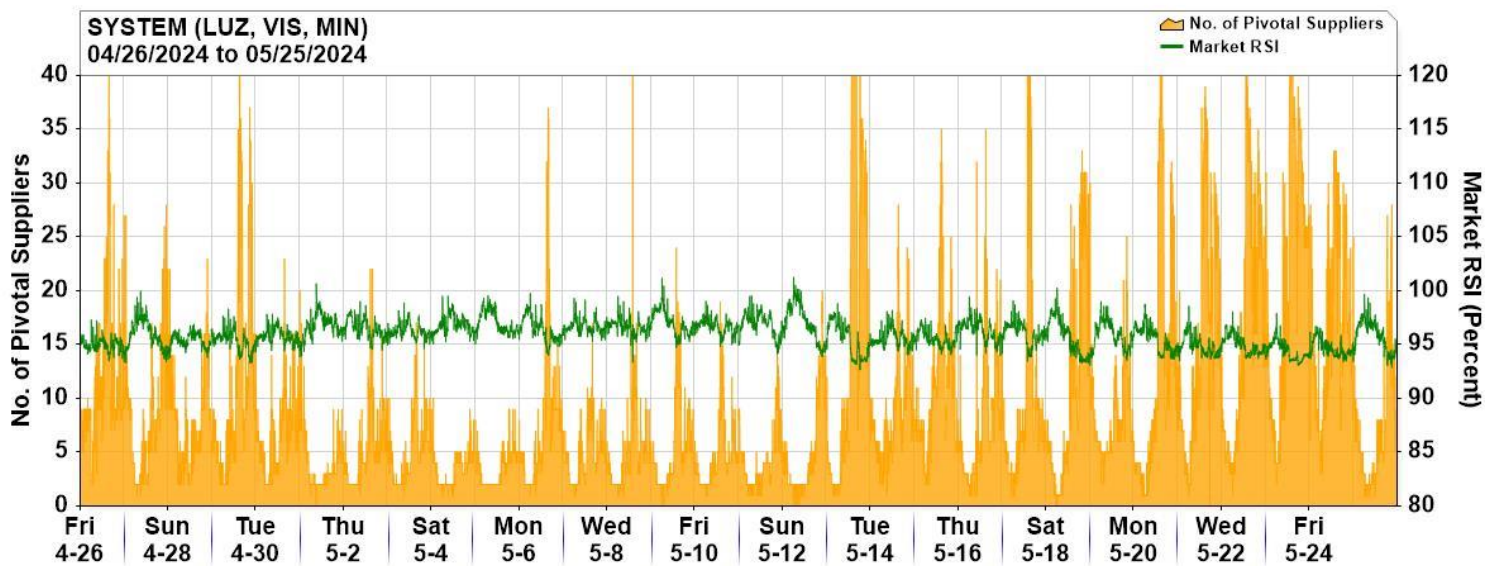
ETA AND SPOT EXPOSURE



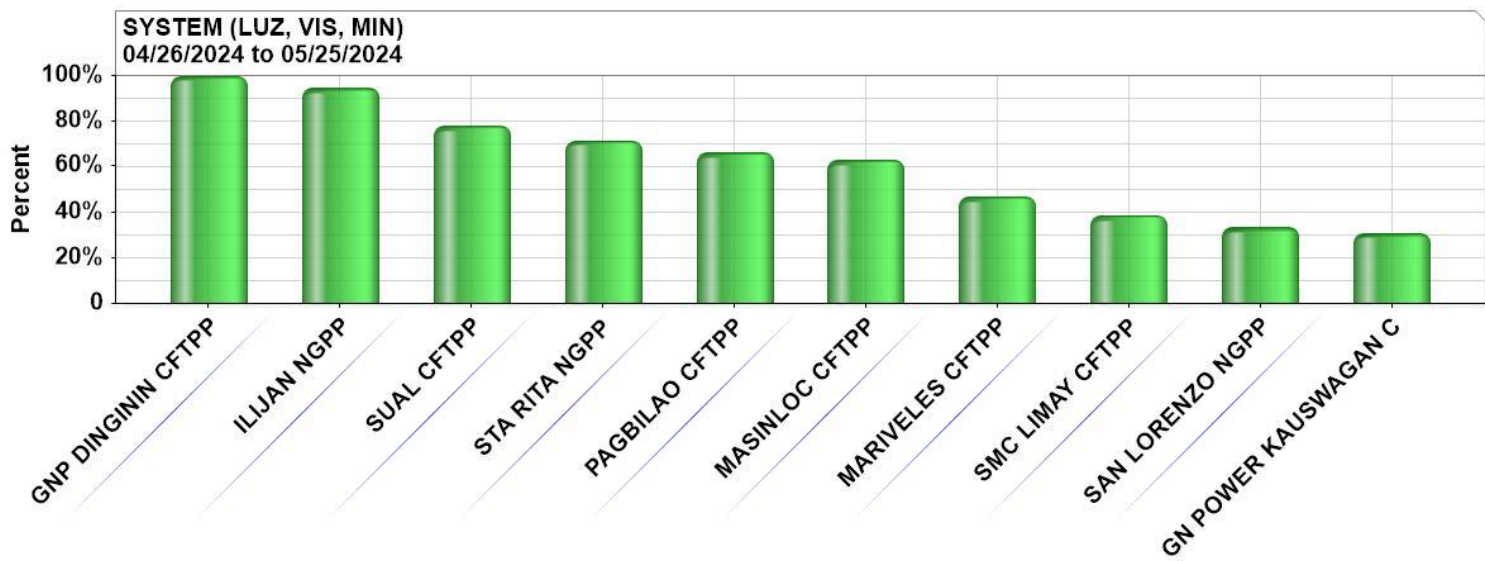
# MARKET OUTCOME

## STRUCTURAL COMPETITION

SYSTEM RSI



SYSTEM PIVOTAL SUPPLIERS



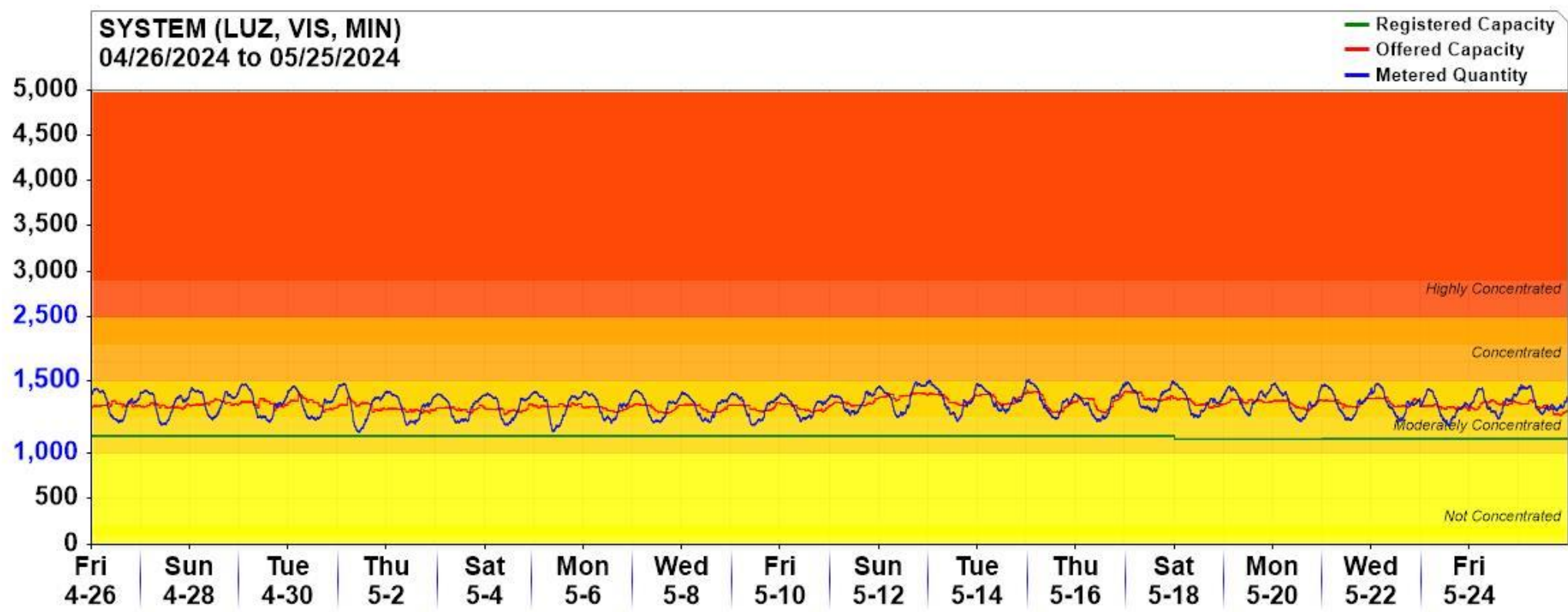
The market Residual Supply Index (RSI) was below the 100% mark for about 99.8% of the time, signifying the presence of pivotal plants in Luzon, Visayas, and Mindanao.



# MARKET OUTCOME

## STRUCTURAL INDICES

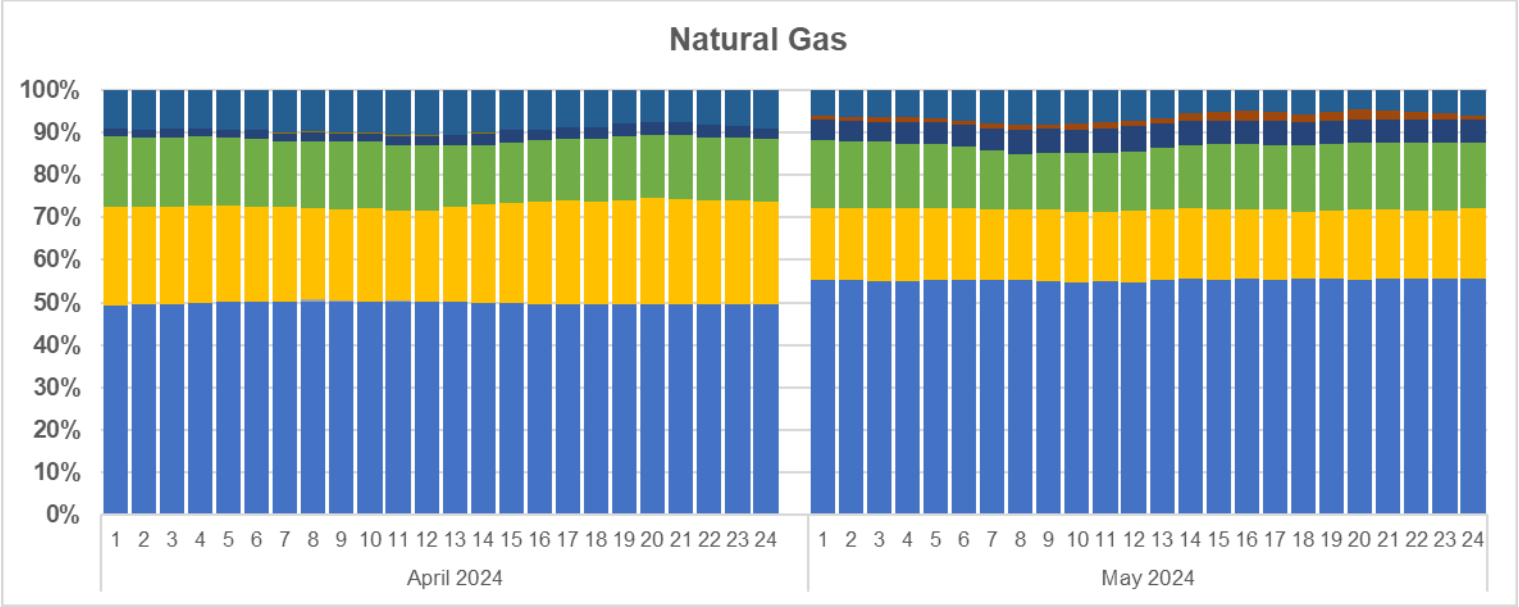
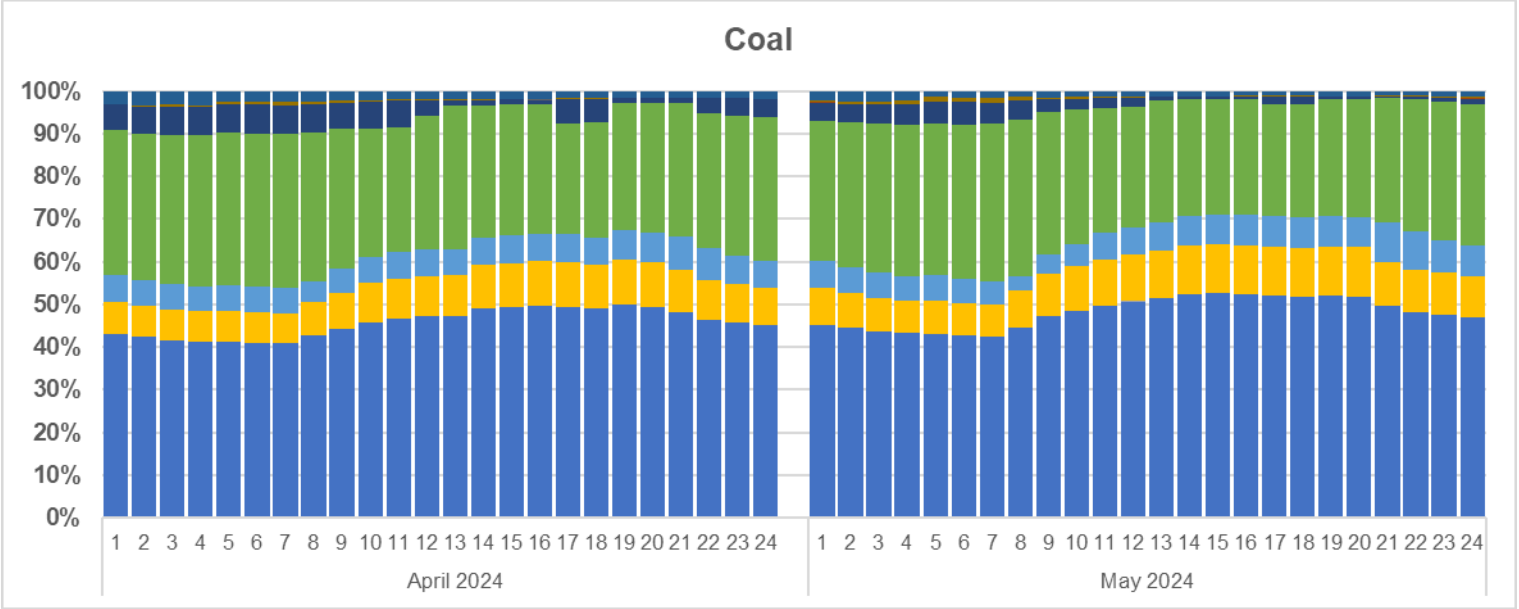
### SYSTEM HHI



The **Herfindahl-Hirschman Index (HHI)** by major participant grouping for the May 2024 billing period posted a moderately concentrated market for all measures (Registered Capacity, Offered Capacity, and Actual Generation).

# MARKET OUTCOME

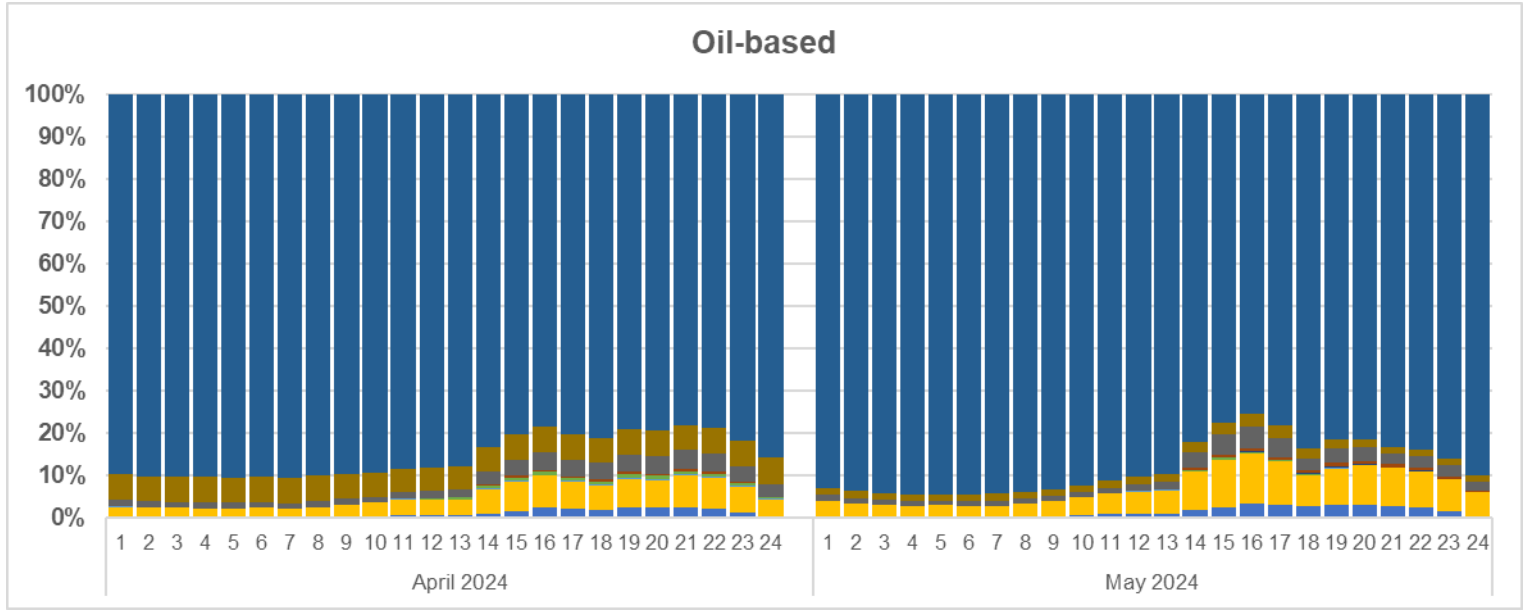
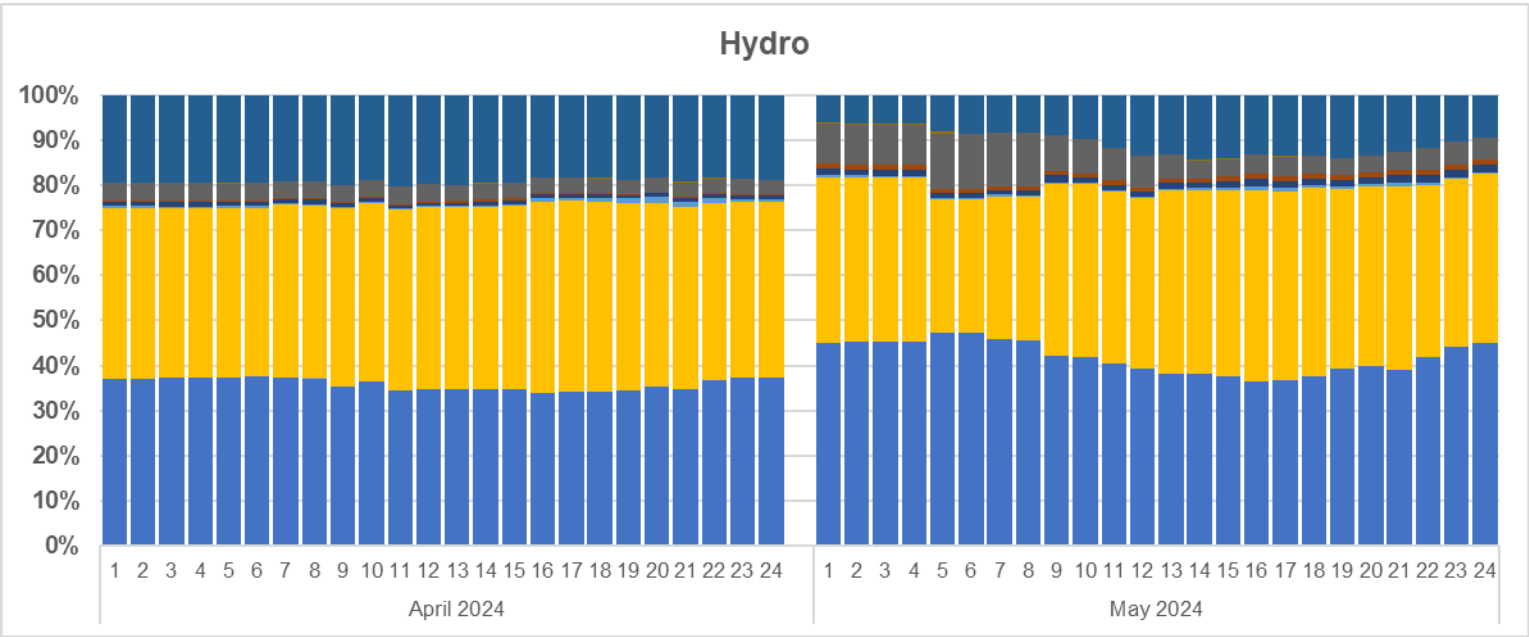
## BEHAVIORAL INDICES



■ -10,000 to -7,500 ■ -7,500 to -5,000 ■ -5,000 to -2,500 ■ -2,500 to 0 ■ 0 to 2,500 ■ 2,500 to 5,000  
■ 5,000 to 7,500 ■ 7,500 to 10,000 ■ 10,000 to 12,500 ■ 12,500 to 15,000 ■ 15,000 above

# MARKET OUTCOME

## BEHAVIORAL INDICES



■ -10,000 to -7,500 ■ -7,500 to -5,000 ■ -5,000 to -2,500 ■ -2,500 to 0 ■ 0 to 2,500 ■ 2,500 to 5000  
■ 5,000 to 7,500 ■ 7,500 to 10,000 ■ 10,000 to 12,500 ■ 12,500 to 15,000 ■ 15,000 above

Coal and Natural gas power plants posted an increase in their respective offer prices. While Hydro was observed to have lower offer prices this month compared to previous, notwithstanding the limited water supply due to the onset of summer season. However, during peak hours, offers from Hydro power plants was noticeably higher compared to off-peak hours. Similar observation can be depicted to the offers of Coal and Oil-based power plants.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Luzon							
BAT	Limay B	40	05/11/2024 5:01			Forced Outage	Affected by the planned outage of Limay 100MVA T02.
BAT	MAGAT B	24	05/07/2024 15:08	05/22/2024 19:31	15	Forced Outage	Reported intermetent meter reading.
BAT	ALAMINOS BAT1	20	02/18/2024 9:30			Forced Outage	Unit problem on investigation.
BIOF	GFII	15.8	05/18/2024 20:04			Forced Outage	Insufficient fuel
BIOF	IPower 2	10.8	05/16/2024 19:01	05/21/2024 8:00	5	Forced Outage	Immediate repair of main steam line.
BIOF	CLEANG 1	10.8	02/13/2024 0:00			Forced Outage	Unplanned shutdown due to insufficient fuel.
COAL	Calaca 2	300	04/01/2024 0:00	05/22/2024 21:04	52	Forced Outage	Extended maintenance outage until May 23 2024.
COAL	SMC 3	150	05/18/2024 21:54	05/23/2024 13:10	5	Forced Outage	Manually tripped due to furnace bed material agglomeration.
COAL	MPGC U1	150	05/17/2024 21:35			Forced Outage	Tripped due to high vibration of IDF
COAL	QPPL	460	05/16/2024 20:00			Forced Outage	Unplanned shutdown due to broken spring support of turbine combine reheat valve.
COAL	MPGC 3	150	05/13/2024 1:25	05/15/2024 19:47	3	Forced Outage	Master Fuel tripped while on going combustion tuning. On Commissioning Test
COAL	MPGC 3	150	05/13/2024 1:25			Forced Outage	Master Fuel tripped while on going combustion tuning. On Commissioning Test(RECLASSIFIED FROM FORCE / OMC OUTAGE)
COAL	QPPL	460	05/12/2024 8:00			Forced Outage	Boiler tube leak.(RECLASSIFIED FROM FORCE / OMC OUTAGE)
COAL	Calaca 2	300	04/01/2024 0:00			Forced Outage	Extended maintenance outage until May 23 2024.(RECLASSIFIED FROM FORCE / OMC OUTAGE)
COAL	QPPL	460	05/12/2024 8:00	05/15/2024 5:47	3	Forced Outage	Boiler tube leak
COAL	Calaca 2	300	04/01/2024 0:00			Forced Outage	Extended outage until May 23 2024.
COAL	Calaca 2	300	04/01/2024 0:00			Forced Outage	Extemd ed outage until May 23 2024.
COAL	Masinloc 1	344	03/27/2024 2:30	05/13/2024 15:54	48	Forced Outage	Tripped. Reason under investigation.
COAL	Calaca 2	300	04/01/2024 0:00			Forced Outage	Extended outage until May 23 2024.
COAL	APEC 1	25	04/23/2024 0:00	05/08/2024 16:20	16	Forced Outage	Extended Maintenance Outage until May 9 2024.
GEO	PALAYAN BINARY	31	05/20/2024 8:29	05/23/2024 22:51	4	Maintenance Outage	Maintenance outage. On Testing and Commissioning until June 8 2024.
GEO	Tiwi 1	60	11/30/2021 18:32			Forced Outage	Steam supply diverted to Unit 2.
GEO	PALAYAN BINARY	31	04/25/2024 9:39	04/28/2024 15:29	3	Maintenance Outage	On-going Test and Commissioning for new plants.
HYD	Kalayaan 1	183	05/24/2024 8:01			Forced Outage	Unavailable as generator due to low Caliraya Dam elevation.
HYD	Kalayaan 4	185	05/24/2024 0:01	05/26/2024 0:01	2	Forced Outage	Unavailable as generator due to low Caliraya Dam elevation.
HYD	Binga 4	35	05/23/2024 22:01			Forced Outage	Hydrological constraint
HYD	Ambuklao 3	37.5	05/23/2024 0:00	05/25/2024 6:53	2	Forced Outage	Extended Outage until May 25 2024.
HYD	Ambuklao 1	37.5	05/23/2024 0:00	05/25/2024 6:53	2	Forced Outage	Extended Outage until May 25 2024.
HYD	Binga 2	35	05/22/2024 4:39	05/25/2024 0:01	3	Forced Outage	Hydrological constraint.
HYD	Masiway	12	05/21/2024 17:01			Forced Outage	No IDR
HYD	Binga 1	35	05/19/2024 18:01			Forced Outage	Declared unavailable due to hydrological constraints.
HYD	Ambuklao 3	37.5	05/18/2024 8:01	05/22/2024 23:59	5	Planned Outage	Planned Outage until May 22 2024
HYD	Ambuklao 2	37.5	05/18/2024 8:01			Planned Outage	Planned Outage until May 30 2024
HYD	Ambuklao 1	37.5	05/18/2024 8:01	05/22/2024 23:59	5	Planned Outage	Planned Outage until May 22 2024
HYD	Bakun 1	37	03/23/2024 0:00	05/15/2024 16:03	54	Forced Outage	Insuficient water supply.
HYD	Ambuklao 1	37.5	05/10/2024 8:01	05/15/2024 23:26	6	Planned Outage	Planned Outage
HYD	Ambuklao 1	37.5	05/10/2024 8:01			Planned Outage	Planned Outage until May 16 2024
HYD	Kalayaan 1	183	05/09/2024 0:00	05/12/2024 18:00	4	Planned Outage	Semi-Annual Preventive Maintenance
HYD	Caliraya 2	14	05/06/2024 8:00	05/11/2024 23:05	6	Maintenance Outage	Maintenance outage until 1700H of May 11 2024.
HYD	Caliraya 1	14	05/06/2024 8:00	05/11/2024 23:05	6	Maintenance Outage	Maintenance outage until 1700H of May 11 2024.
HYD	San Roque 2	145	05/06/2024 0:01			Planned Outage	Planned outage until May 17 2024.
HYD	Ambuklao 1	37.5	05/01/2024 3:10	05/07/2024 8:00	6	Forced Outage	Declared unavailable due to hydrological constraints.
HYD	Angat M3	50	05/01/2024 0:00			Forced Outage	Extended outage after the modernization activities on the unit.
HYD	Pantabangan 2	60	04/29/2024 8:15	05/10/2024 23:59	12	Planned Outage	Planned Outage until May 10 2024
HYD	Pantabangan 1	60	04/29/2024 8:15	05/10/2024 23:59	12	Planned Outage	Planned Outage until May 10 2024
HYD	Magat 2	97	04/26/2024 21:00	04/29/2024 10:02	3	Forced Outage	No AWR..
HYD	Magat 1	97	04/26/2024 21:00	04/29/2024 13:14	3	Forced Outage	No AWR (allowable water release)
HYD	Ambuklao 3	37.5	04/26/2024 8:01	05/08/2024 3:54	12	Planned Outage	Planned Outage until May 8 2024
HYD	San Roque 1	145	04/15/2024 0:00	04/27/2024 0:00	12	Planned Outage	Planned Outage Annual Preventive Maintenance until April 26 2024



ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Luzon							
HYD	Pantabangan 2	60	04/07/2024 7:01	04/29/2024 8:14	22	Forced Outage	Low water level.
HYD	Pantabangan 1	60	04/07/2024 7:01	04/29/2024 8:14	22	Forced Outage	Low water level.
HYD	Magat 4	97	04/20/2024 0:00	04/29/2024 10:01	9	Forced Outage	No IDR from NIA
HYD	Magat 3	97	04/17/2024 15:58	05/05/2024 17:51	18	Forced Outage	No IDR from NIA
HYD	Kalayaan 3	184.6	02/16/2024 0:00	05/03/2024 18:00	78	Planned Outage	Planned outage until May 5 2024.
HYD	Binga 4	35	04/12/2024 6:01	05/02/2024 23:51	21	Forced Outage	Unavailable due to reduced reservoir water level.
HYD	Binga 1	35	04/12/2024 6:01	05/02/2024 23:51	21	Forced Outage	Unavailable due to reduced reservoir water level.
HYD	BINENG 1	19.8	12/23/2023 17:07	05/14/2024 16:38	143	Forced Outage	Outage due to low water supply
HYD	Bakun 2	37	04/08/2024 3:17	04/29/2024 16:00	22	Forced Outage	Insufficient water supply.
HYD	Bakun 1	37	03/23/2024 0:00			Forced Outage	Insufficient water supply.
HYD	Angat M 4	50	02/14/2022 0:00			Planned Outage	Planned outage.
HYD	Angat M 3	50	11/02/2021 8:15	04/30/2024 23:59	911	Forced Outage	Draw-out of Main Unit 3 generator breaker.
HYD	Ambuklao 2	37.5	04/12/2024 1:00	05/01/2024 3:06	19	Forced Outage	Low water elevation.
HYD	Ambuklao 1	37.5	04/10/2024 12:01	04/26/2024 16:56	16	Forced Outage	Declared unavailable due to hydrological constraints.
NATG	Avion 2	45.8	05/25/2024 21:43			Forced Outage	High pressure compressor bleed system trouble.
NATG	Ilijan A2	190	05/25/2024 16:59			Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan B1	190	05/25/2024 16:46			Forced Outage	The LNG Terminal has to momentarily stop the gas supply as precautionary measure to the passage of TD AGHON.
NATG	Ilijan B3	220	05/25/2024 16:36			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			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			Forced Outage	Emergency shutdown due to gas restriction
NATG	Ilijan A1	190	05/25/2024 0:31			Forced Outage	Emergency shutdown due to gas restriction
NATG	Avion 2	45.8	05/23/2024 11:37	05/25/2024 18:23	2	Forced Outage	Unplanned outage due to high pressure compressor bleed system trouble.
NATG	Ilijan A2	190	05/17/2024 23:37	05/21/2024 10:18	3	Forced Outage	Emergency shutdown due to gas restriction
NATG	San Lorenzo 2	265	05/04/2024 12:11	05/07/2024 3:06	3	Forced Outage	Tripped by GT protection.
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.
OIL	Malaya 2	130	04/18/2024 20:00			Forced Outage	Shutdown due to furnace pressure high.
SOLR	LAOAG SOLAR	58.6	05/21/2024 10:00			Maintenance Outage	On-going test and commssioning for new plants.
Visayas							
BIOF	NTNEGB 1	25	05/22/2024 15:59			Forced Outage	Insufficient fuel supply (bagasse).
BIOF	NTNEGB 1	25	04/23/2024 10:51	05/13/2024 0:11	20	Maintenance Outage	Maintenance shutdown.
BIOF	FFHC	9	04/29/2024 14:44	05/04/2024 7:33	5	Forced Outage	Weekend shutdown repair.
BIOF	VMC 2	21.5	03/26/2024 18:47	05/02/2024 8:11	37	Forced Outage	Offline due to bagasse conveyor failure.
BIOF	URC 1	30	04/13/2024 4:37			Forced Outage	Offline due to insufficient cane supply.
BIOF	South Negros	25	03/28/2024 10:30			Forced Outage	Emergency cut out due to insufficient fuel supply (bagasse).
BIOF	SCBE	7.4	03/31/2023 10:35			Forced Outage	Plant shutdown
BIOF	NTNEGB 1	25	04/23/2024 10:51			Forced Outage	Maintenance shutdown.
COAL	THVI 2	169	05/25/2024 7:52			Forced Outage	Suction valve cut-off instrument air hose loop cell blower B
COAL	PALM 1	135	03/31/2024 0:00			Forced Outage	Extended maintenance
GEO	Malitbog 1	73.12	05/22/2024 15:24			Forced Outage	Facilitate troubleshooting due to abnormal turbine vibration
GEO	Upper Mahiao 2	30	05/16/2024 14:03			Forced Outage	due to lack of steam
GEO	Nasulo	47.5	05/05/2024 0:00	05/07/2024 17:32	3	Forced Outage	Emergency shutdown a to conduct repair of hot well pump B suction valve.
GEO	Upper Mahiao 2	30	02/14/2024 17:32	04/30/2024 18:35	76	Forced Outage	Insufficient steam supply
GEO	Upper Mahiao 1	26.9	11/25/2022 11:07			Forced Outage	Insufficient steam supply
GEO	Malitbog 1	73.12	04/13/2024 19:22	05/22/2024 11:53	39	Forced Outage	Due to high vibration.
GEO	Leyte 1	41	03/18/2024 10:52	04/27/2024 1:11	40	Maintenance Outage	Scheduled PMS.
HYD	THC 2	5.1	05/21/2024 0:01	05/24/2024 8:57	3	Forced Outage	Closing of weir of upper Taft THEC at low flow
HYD	THC 2	5.1	05/07/2024 0:01	05/14/2024 0:00	7	Planned Outage	Preventive Maintenance of THEC middle taft.
HYD	THC 3	5.1	03/22/2024 18:09	05/25/2024 22:30	64	Forced Outage	Low forebay level.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Visayas							
HYD	THC 2	5.1	05/07/2024 0:01	05/14/2024 0:00	7	Planned Outage	Preventive Maintenance of THEC middle taft.
HYD	THC 3	5.1	03/22/2024 18:09	05/25/2024 22:30	64	Forced Outage	Low forebay level.
OIL	PDPP3 G	13	05/24/2024 6:22			Forced Outage	FAILED TO CUT-IN DUE TO T/C PROBLEM.
OIL	PDPP3 E	12	05/23/2024 16:00	05/25/2024 23:00	2	Forced Outage	OFF-LINE (Abnormal sound at TC A bank)
OIL	PDPP3 H	13	05/23/2024 1:35			Forced Outage	Abnormal sound at turbo charger
OIL	PB101 Unit 2	6	03/29/2024 20:55			Forced Outage	smoke coming out at sampling outlet
OIL	PDPP3 G	13	05/17/2024 13:45	05/20/2024 0:06	2	Forced Outage	unable to cut-in due to excessive water leak between engine frame and liner at cylinder B3
OIL	TPV1 4	5.5	05/15/2024 14:50	05/18/2024 22:05	3	Forced Outage	Starting failure due to high main bearing #3 temperature
OIL	East Asia 1	11.5	05/13/2024 22:55			Forced Outage	CYLINDER NO. 7 CRANKCASE EXPLOSION
OIL	TPC (Carmen) U2	10	05/11/2024 20:02	05/15/2024 20:06	4	Forced Outage	EMERGENCY CUT-OUT DUE TO EXHAUST MANIFOLD PROBLEM
OIL	PDPP3 G	13	05/07/2024 11:19	05/12/2024 18:10	5	Forced Outage	Unable to start-up due to excessive water leak inside combustion chamber
OIL	TPC (Carmen) U4	10	04/24/2024 10:01	04/27/2024 4:02	3	Forced Outage	Unavailable due to fresh water leak at cylinder no. 1
OIL	PDPP3 G	13	04/20/2024 18:00	05/01/2024 13:40	11	Forced Outage	Unable to cut-in due to excessive water leak at charge air cooler A bank
OIL	PB101 Unit 3	6	04/01/2024 16:30			Forced Outage	Starting failure
OIL	PB101 Unit 2	6	03/29/2024 20:55	05/23/2024 9:11	55	Forced Outage	smoke coming out at sampling outlet
OIL	CENPRI 5	6.7	04/17/2024 8:00	04/26/2024 12:57	9	Forced Outage	Replacement of turbo charger and charge air coolers.
Mindanao							
BIOF	14TACUR	6	05/23/2024 0:49			Forced Outage	No available biomass feedstock. (OMC 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.
COAL	FMP U1	135	05/11/2024 8:21	05/17/2024 18:41	6	Forced Outage	Auto-tripped due to visible Boiler tube leak. Forced Outage (Unplanned Outage).
COAL	MCC U3	55	05/09/2024 21:09	05/15/2024 0:38	5	Forced Outage	Auto-tripped due to Generator ground fault. Forced Outage (Unplanned Outage)
COAL	MCC U3	55	05/09/2024 21:09			Forced Outage	Forced outage due to GENERATOR GROUND FAULT.
COAL	STE U1	116	04/25/2024 15:00	04/30/2024 4:05	5	Forced Outage	Online from Forced outage emergency shutdown at 1500H due to boiler fouling. Unplanned outage. ETC April 30 2024 2359H.
COAL	STE U1	116	04/25/2024 15:00			Forced Outage	Forced outage emergency shutdown at 1500H due to boiler fouling. Unplanned outage. ETC April 30 2024 2359H.
COAL	GNPK U3	151.3	04/24/2024 5:03	04/30/2024 14:52	6	Forced Outage	Tripped with gross generation of 68MW due to boiler drum high level. Unplanned Outage
HYD	AG5 U2	27.5	05/25/2024 19:52			Forced Outage	Shutdown due to low forebay elevation. (Unplanned Outage)
HYD	PG4 U3	75	05/25/2024 6:05			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	AG1 U2	35	05/07/2024 8:13	05/25/2024 13:11	18	Planned Outage	Online from PMS (GOMP). ETC May 27 2024. Planned Outage
HYD	MN1 U4	16.2	05/18/2024 0:48	05/24/2024 20:52	7	Forced Outage	OMC due to Insufficient water supply.
HYD	ASG U0	8.6	05/17/2024 0:01			Forced Outage	Insufficient water supply.
HYD	MN1 U4	16.2	05/18/2024 0:48			Forced Outage	OMC due to Insufficient water supply. From Forced outage. May 17 2024 1208H to May 18 2024 0048H.
HYD	ASG U0	8.6	05/17/2024 0:01			Planned Outage	Scheduled maintenance (GOMP). Planned outage. ETC June 17 2024
HYD	PG4 U1	75	05/16/2024 4:17	05/25/2024 4:07	9	Forced Outage	Shutdown due to low water elevation.
HYD	PG4 U2	75	05/13/2024 13:08			Forced Outage	Shutdown due to low water elevation.
HYD	MN1 U4	16.2	05/12/2024 16:25	05/16/2024 21:52	4	Forced Outage	Insufficient water supply.
HYD	AG7 U2	25.3	05/08/2024 12:20			Forced Outage	Declared available from PMS but remain s/d due to Low water elevation. (OMC Outage).
HYD	MN1 U3	16.2	05/07/2024 7:38	05/12/2024 16:17	5	Planned Outage	Shutdown-(Planned Outage-GOP)
HYD	AG6 U4	25	05/09/2024 9:03			Planned Outage	Shutdown. PMS-GOMP. (Planned Outage)
HYD	MN1 U3	16.2	05/09/2024 7:08			Planned Outage	Shutdown - PMS (GOMP).
HYD	AG7 U2	25.3	05/08/2024 12:20			Forced Outage	Declared available from Planned outage but remain shutdown due to Low water elevation. (OMC Outage).
HYD	AG7 U2	25.3	05/08/2024 12:20			Forced Outage	Declared available but remain shutdown due to Low water elevation. (OMC Outage).
HYD	PG4 U2	75	05/07/2024 10:39	05/10/2024 22:39	4	Forced Outage	Emergency shutdown due to low forebay elevation.(OMC Outage)
HYD	PG4 U1	75	05/02/2024 15:04	05/14/2024 23:14	12	Forced Outage	Shutdown due to low forebay elevation (OMC Outage).

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Mindanao							
HYD	MN2 U3	6.8	05/04/2024 13:05	05/24/2024 22:42	20	Forced Outage	Shutdown due to insufficient water supply (OMC Outage).
HYD	MN2 U2	6.8	05/04/2024 13:05	05/24/2024 22:33	20	Forced Outage	Shutdown due to insufficient water supply (OMC Outage).
HYD	AG5 U1	27.5	04/29/2024 14:14	05/15/2024 2:58	16	Forced Outage	Shutdown due to low forebay elevation. (OMC Outage)
HYD	AG4 U3	52.7	04/23/2024 13:01			Forced Outage	Shutdown due to low forebay elevation. (OMC Outage).
HYD	AG2 U3	60	04/01/2024 8:14	05/14/2024 19:04	43	Planned Outage	PMS (GOMP). ETC May 31 2024. Planned Outage
HYD	AG1 U2	35	05/07/2024 8:13			Planned Outage	PMS (GOMP). ETC May 27 2024. Planned Outage
HYD	PG4 U2	75	05/07/2024 10:39			Forced Outage	Emergency shutdown due to low forebay elevation - OMC Outage.
HYD	AG1 U2	35	05/07/2024 8:13			Planned Outage	Shutdown PMS-GOMP (Planned Outage) ETC May 27 2024
HYD	MN1 U2	6.6	05/07/2024 7:39	05/10/2024 18:57	3	Planned Outage	Shutdown-(Planned Outage-GOP)
HYD	MN1 U4	16.2	05/07/2024 7:12	05/12/2024 15:03	5	Planned Outage	Shutdown-(Planned Outage-GOP)
HYD	MN2 U4	6.8	05/07/2024 7:07	05/18/2024 20:06	12	Forced Outage	Shutdown due to insufficient water supply (OMC Outage).
HYD	AG7 U1	26.1	04/18/2024 9:21	05/07/2024 8:57	19	Forced Outage	Online from OMC due to low water inflow / low forebay elevation. Unplanned Outage (outside management control).
HYD	MN2 U3	6.8	05/04/2024 13:05			Forced Outage	Shutdown due to insufficient water supply (Unplanned Outage).
HYD	MN2 U2	6.8	05/04/2024 13:05			Forced Outage	Shutdown due to insufficient water supply (Unplanned Outage).
HYD	PG4 U2	75	05/04/2024 7:07	05/06/2024 14:15	2	Forced Outage	Shutdown due to low forebay elevation (Unplanned Outage outside management control)
HYD	MN1 U3	16.2	05/03/2024 15:01	05/07/2024 7:38	4	Forced Outage	Shutdown due to insufficient water supply (Unplanned Outage).
HYD	PG4 U1	75	05/02/2024 15:04			Forced Outage	Shutdown due to low forebay elevation (Unplanned Outage outside management control).
HYD	MN2 U1	6.8	05/02/2024 9:21	05/04/2024 13:13	2	Forced Outage	Shutdown due to insufficient water supply (Unplanned Outage).
HYD	AG5 U1	27.5	04/29/2024 14:14			Forced Outage	Shutdown due to low forebay elevation. (Unplanned Outage)
HYD	AG5 U2	27.5	04/27/2024 5:42	04/29/2024 11:53	2	Forced Outage	Online from OMC Outage - low forebay elevation (Unplanned Outage)
HYD	PG4 U1	75	04/28/2024 0:47			Forced Outage	Shutdown due to low forebay elevation (OMC).
HYD	TU2 U1	8	04/27/2024 6:01	05/01/2024 17:38	4	Planned Outage	PMS (GOMP). ETC May 06 2024
HYD	AG5 U2	27.5	04/27/2024 5:42			Forced Outage	Shutdown due to low forebay elevation (Unplanned Outage outside management control).
HYD	PG4 U2	75	04/12/2024 15:03	05/01/2024 7:42	19	Forced Outage	Shutdown due to low forebay elevation (FBE) / Insufficient water supply. Unplanned Outage.
HYD	MN2 U3	6.8	04/18/2024 20:30	04/29/2024 16:49	11	Forced Outage	OMC outage from planned outage (GOMP) due to insufficient water supply.
HYD	MN2 U2	6.8	04/18/2024 20:30	04/29/2024 19:19	11	Forced Outage	OMC outage from planned outage (GOMP) due to insufficient water supply.
HYD	MN2 U1	6.8	04/18/2024 20:30	04/27/2024 12:11	9	Forced Outage	OMC outage from planned outage (GOMP) due to insufficient water supply.
HYD	BHP U0	6.6	04/11/2024 7:02	04/29/2024 10:02	18	Planned Outage	PMS (GOMP). ETC April 30 2024. Planned Outage.
HYD	AG7 U1	26.1	04/18/2024 9:21			Forced Outage	Shutdown. Reason OMC due to low water inflow / low forebay elevation. Unplanned Outage (outside management control).
HYD	AG6 U3	50	04/16/2024 9:01	04/28/2024 12:44	12	Planned Outage	GOMP. ETC April 30 2024 2359H. Planned Outage
HYD	AG4 U3	52.7	04/23/2024 13:01			Forced Outage	Shutdown due to low forebay elevation. Unplanned Outage.
HYD	AG2 U3	60	04/01/2024 8:14			Planned Outage	PMS (GOMP). ETC May 31 2024. Planned Outage.
HYD	AG1 U1	35	04/11/2024 15:12	05/01/2024 18:12	20	Planned Outage	PMS (GOMP). ETC May 1 2024. Planned Outage.
OIL	WMPC Unit 6	10.2	04/24/2024 10:31	05/21/2024 17:00	27	Forced Outage	Shutdown due to oil mist concentration high stop. Forced Outage (Unplanned Outage)
OIL	WMPC Unit 6	10.2	04/24/2024 10:31			Forced Outage	Shutdown due to oil mist concentration high stop. No ETC. Forced Outage (Unplanned Outage)
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)
OIL	WMPC Unit 4	10.2	05/04/2024 9:00	05/07/2024 15:15	3	Forced Outage	Declared Available - from forced outage due to replacement of exhaust gas vello and inspection of turbo charger B-bank (Unplanned Outage).
OIL	WMPC Unit 4	10.2	05/04/2024 9:00			Forced Outage	Declared forced outage due to replacement of exhaust gas vello and inspection of turbo charger B-bank (Unplanned Outage).
OIL	WMPC Unit 6	10.2	04/24/2024 10:31			Forced Outage	Forced outage due to oil mist concentration high stop. Unplanned outage. No ETC.
OIL	MPC U0	102	04/24/2024 0:00	05/04/2024 14:00	11	Forced Outage	MPC(IDPP) Unit 2 Forced outage due to high temp lube oil. No ETC.MPC(IDPP) Unit 5 Forced outage due to erratic load. No ETC.
OIL	KEG U0	10.6	04/15/2024 15:05			Forced Outage	Forced Outage Failed to synchronize due to low SF6 Pressure on PCB. Unplanned Outage



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