



MONTHLY MARKET ASSESSMENT REPORT

26 July to 25 August 2024

NOVEMBER 2024

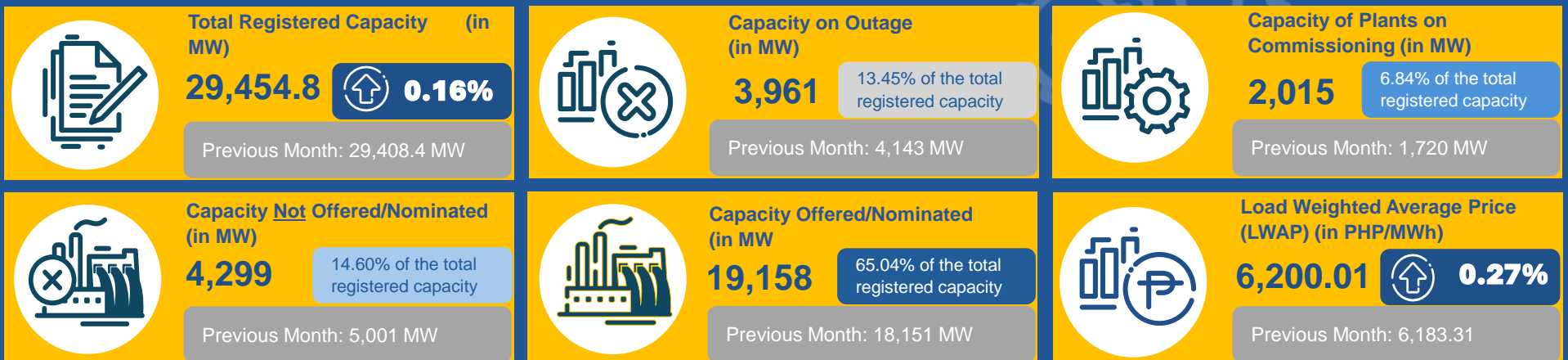
Document Information Classification: Public

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SUMMARY OF OBSERVATIONS

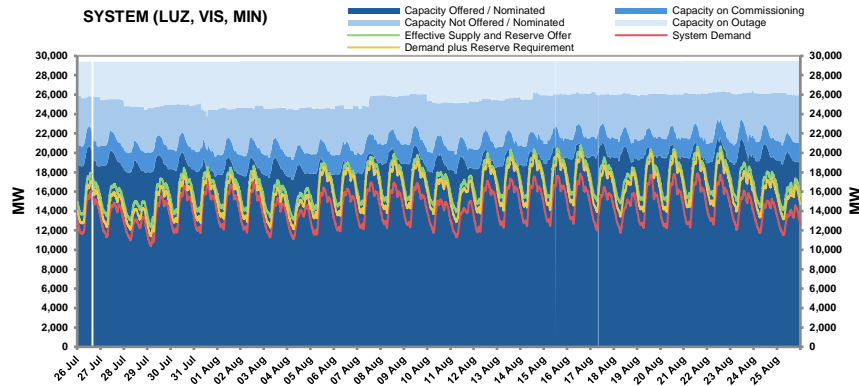
- **Reserve Market resumption:** 05 August 2024 per DOE Advisory No. 2024-08-001-SEC
- **Secondary Price Cap imposition:**
 - Luzon: 2 trading intervals
- **No Red and Yellow Alert** notice issuance by the System Operator
- **Declaration of Market Intervention events** by the MO in the System (Luzon, Visayas, and Mindanao)
 - 15 August 2024 due to failure of the MMS to transfer RTD results to the System Operator during the deployment of enhancement to the MMS has context menu affecting one (1) trading interval
 - 17 August 2024 due to failure to generate RTD solution affecting a three (3) trading intervals
- **Notable congestions:** Maasin-Ubay line 1 for 2,055 trading intervals (23% of the time); Barotac-Viejo lines 1 and 2 for 419 and 225 trading intervals (5% and 3% of the time), respectively; and Leyte-Cebu for 159 trading intervals (2% of time)

AT A GLANCE



MARKET OUTCOME

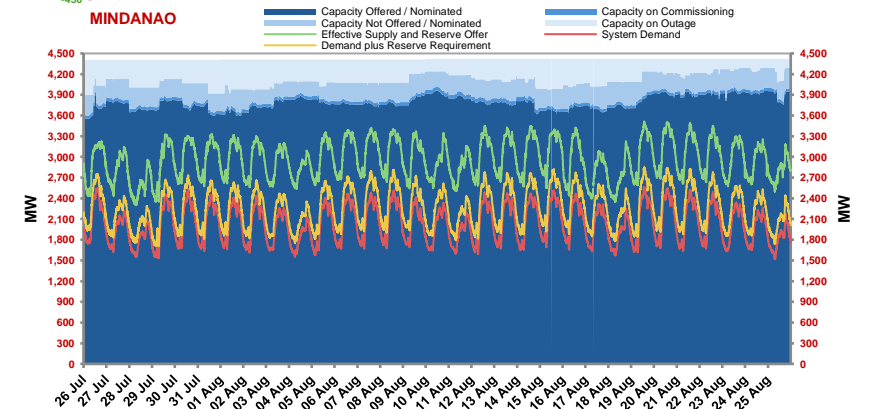
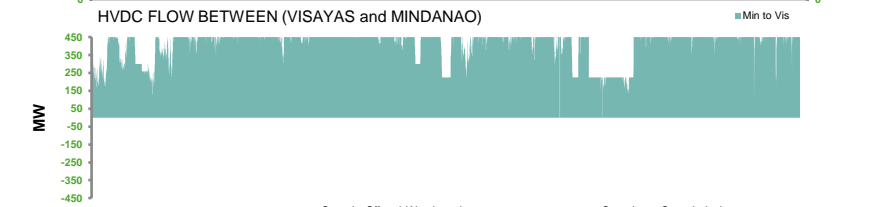
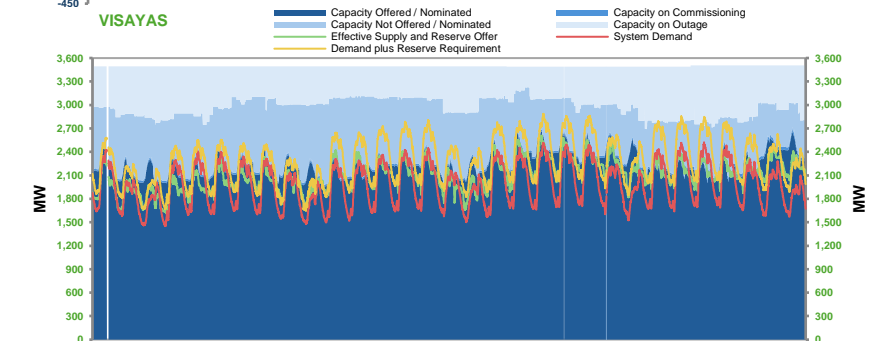
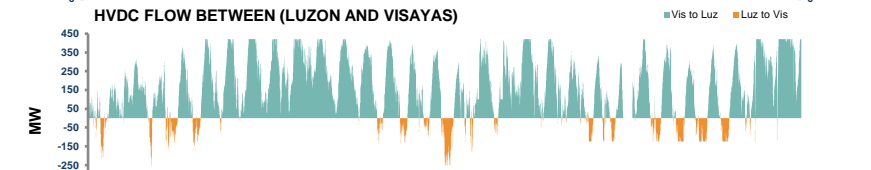
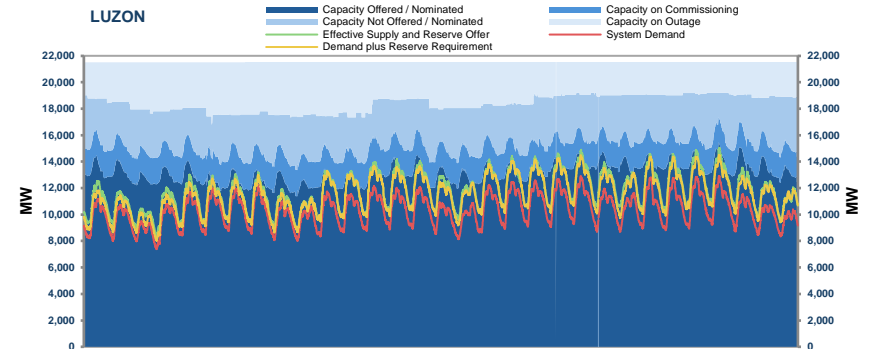
CAPACITY PROFILE



Particulars	Min		Max		Ave	% Change
	(in MW)	Date and time Interval	(in MW)	Date and time Interval	(in MW)	
Effective Supply						
System	12,387.86	07/29/2024 3:45	20,780.84	08/16/2024 14:05	16,800.19	4%
Luzon	8,383.86	07/29/2024 3:40	15,043.62	08/22/2024 14:05	11,750.18	2%
Visayas	1,611.70	07/29/2024 5:05	2,611.64	08/14/2024 12:45	2,095.86	10%
Mindanao	2,307.93	07/28/2024 8:00	3,511.72	08/19/2024 13:55	2,956.19	7%
Demand Plus Reserve Requirement						
System	11,399.69	07/29/2024 3:40	20,099.36	08/16/2024 13:40	16,043.41	5%
Luzon	8,010.41	07/29/2024 3:40	14,501.79	08/16/2024 13:55	11,505.12	4%
Visayas	1,646.36	08/04/2024 6:45	2,888.09	08/14/2024 14:30	2,280.00	9%
Mindanao	1,708.10	07/29/2024 6:50	2,851.19	08/19/2024 13:55	2,259.73	4%
Outage						
System	3,038.92	08/23/2024 22:00	5,787.20	07/31/2024 13:15	3,960.88	-5%
Luzon	2,292.40	08/21/2024 16:00	4,761.10	07/31/2024 13:15	3,126.60	11%
Visayas	254.00	08/13/2024 19:10	799.22	08/19/2024 1:45	527.59	-19%
Mindanao	129.50	08/23/2024 17:05	505.10	07/26/2024 0:05	305.87	-54%

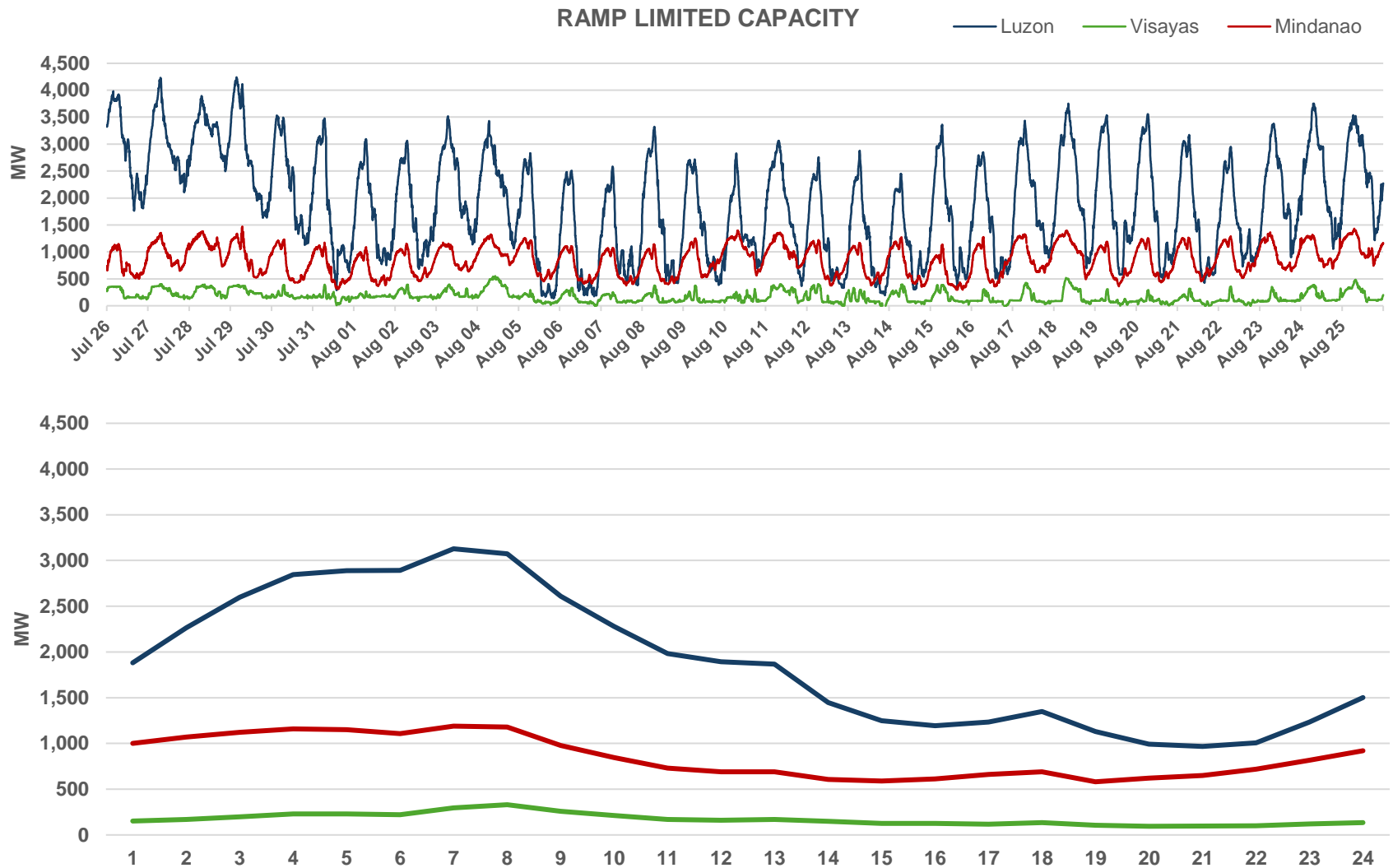
With the 5% system-wide decrease in capacities on outage, the Effective Supply demonstrated an uptrend by 4%. Moreover, the Demand plus Reserve Requirement also increased by 5% resulting in the decrease of average supply margin by 9%.

The flow of power was from the Visayas to Luzon for eighty percent (80%) of the time, with an average transfer of approximately 215MW (49% of the total HVDC capacity). Additionally, electricity flows from Mindanao to Visayas, 100% of the time, with an average flow of 411MW (91% of the total HVDC capacity).



MARKET OUTCOME

CAPACITY PROFILE



Particulars	Min		Max		Ave	% Change
	(in MW)	Date and time Interval	(in MW)	Date and time Interval	(in MW)	
Effective Supply and Reserve Offer						
System	629.74	07/31/2024 14:00	5,955.54	07/27/2024 7:25	2,915.36	8%
Luzon	135.48	08/05/2024 20:30	4,240.94	07/29/2024 3:40	1,895.93	3%
Visayas	0.0021	08/06/2024 21:05	549.33	08/04/2024 10:20	171.60	-17%
Mindanao	298.30	08/15/2024 18:55	1,469.59	07/29/2024 7:00	848.84	30%

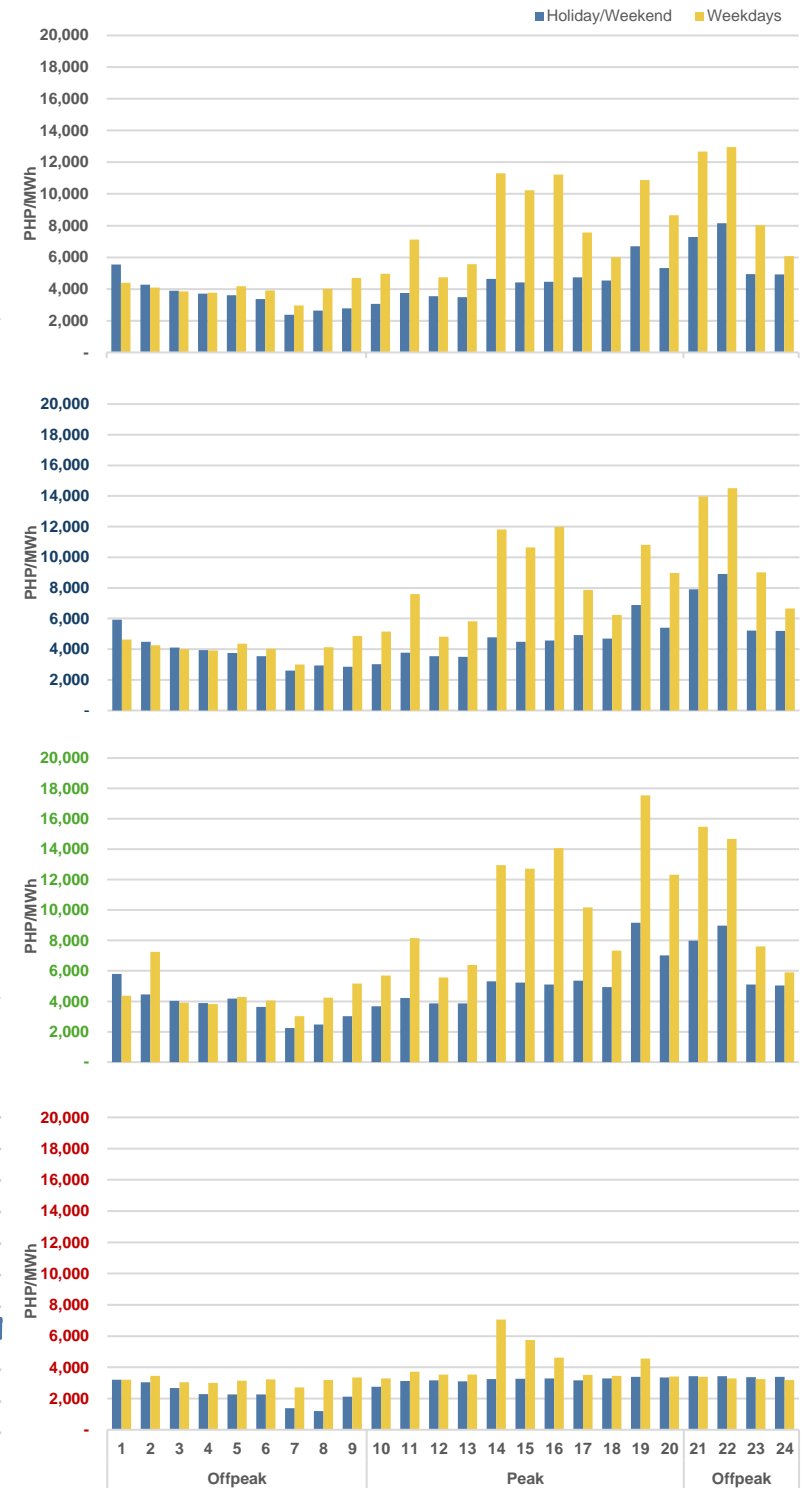
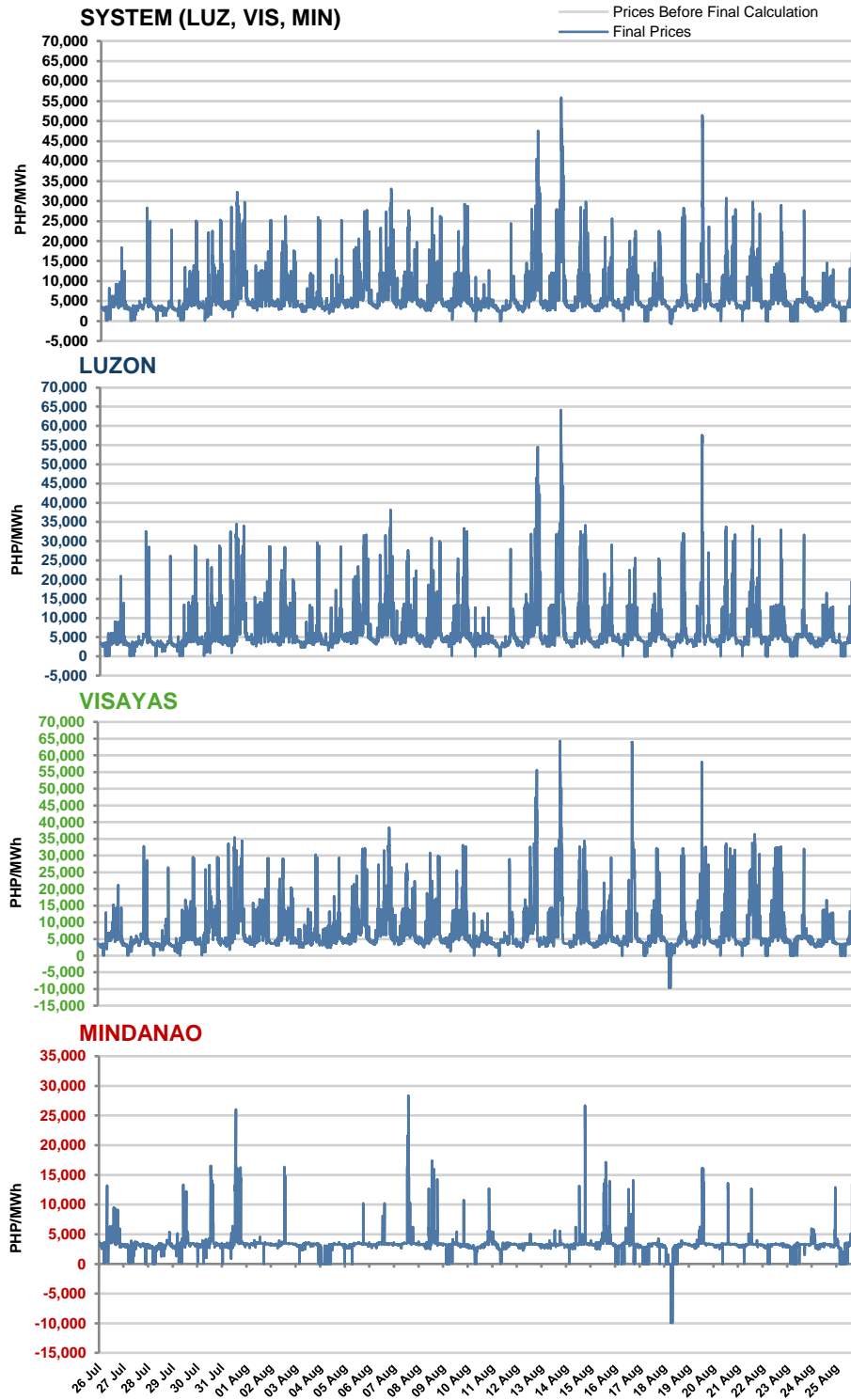
Regional ramp capacity limitations were observed on a per interval basis, with the highest observed average constraints occurring at the 0800h trading interval across all three regions. These limitations were primarily due to resource and technical factors.

While the Visayas region experienced a decrease in ramp-limited capacity limitations, the Luzon and Mindanao regions saw respective increases in these constraints. This contributed to an overall 8% increase in system-wide ramp limitations.

Public

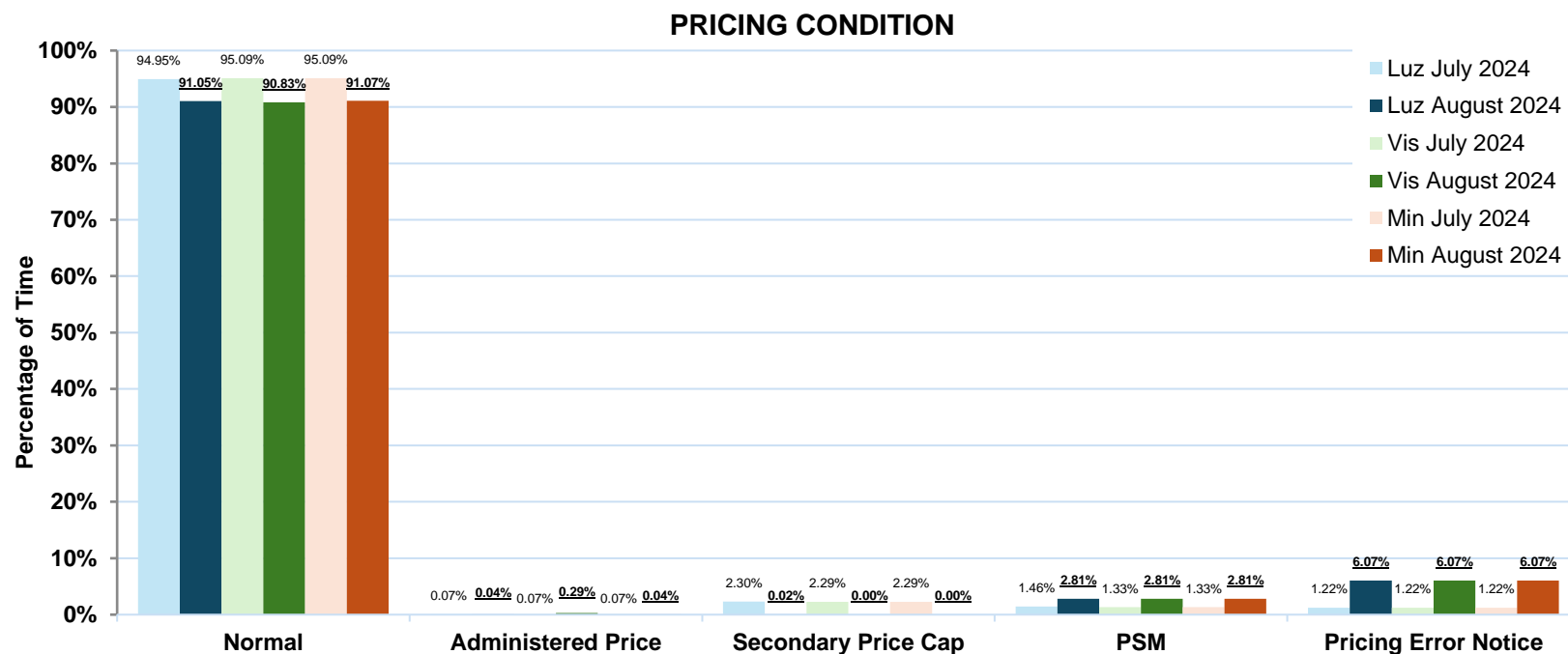
MARKET OUTCOME

MARKET PRICE



MARKET OUTCOME

MARKET PRICE



Despite instances of high prices during the review period, both system-wide and regionally, more than 80% of trading intervals had prices below PHP 9,000/MWh. The secondary price cap (SPC) was triggered in only two (2) trading intervals. The average monthly price for August 2024 increased by 3.9% as compared to the previous month.

Moreover, comparing the market prices on the type of day, during weekdays, the demand for electricity is generally higher since regular daily activities such as work, school, and other activities that require electricity are more prevalent. The increasing demand highly affects available supply and the resulting market price outcomes.

On weekends and holidays, electricity demand is typically lower as lesser activities are observed. Conversely, this reduced demand can lead to lower prices.

However, it is important to note that this general pattern may also be influenced by other factors such as weather conditions, special events, and government policies.

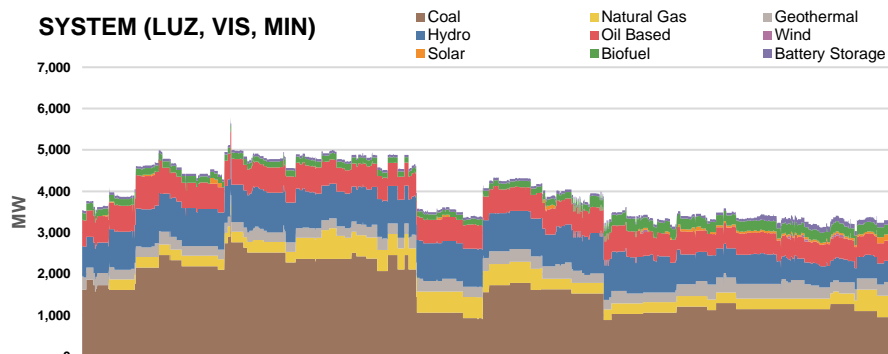
Particulars	Min		Max		Ave	% Change
	(PHP/MWh)	Date and time Interval	(PHP/MWh)	Date and time Interval	(PHP/MWh)	
Load Weighted Average Price (LWAP)						
System	- 799.82	08/18/2024 8:05	55,861.18	08/13/2024 20:05	6,200.01	3.9%
Luzon	- 1.02	08/25/2024 11:05	64,170.83	08/13/2024 20:05	6,515.00	10.1%
Visayas	- 9,665.11	08/18/2024 8:10	64,238.77	08/13/2024 20:05	7,331.06	-2.2%
Mindanao	- 9,936.30	08/18/2024 8:10	28,285.83	08/07/2024 14:15	3,458.46	-25.9%

MARKET OUTCOME

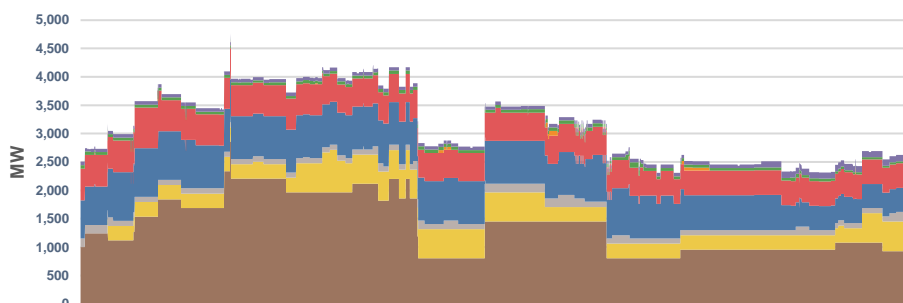
CAPACITY ON OUTAGE

PER PLANT TYPE

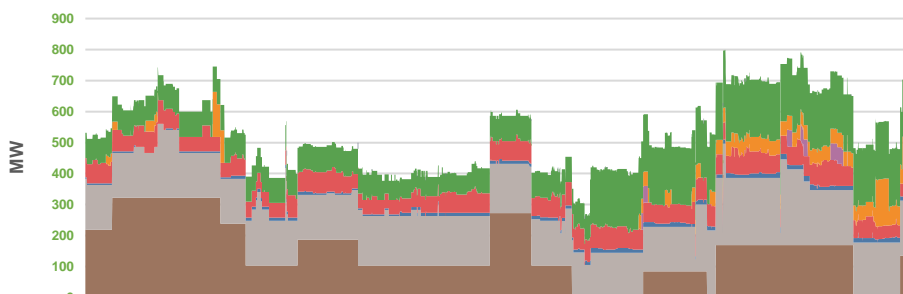
SYSTEM (LUZ, VIS, MIN)



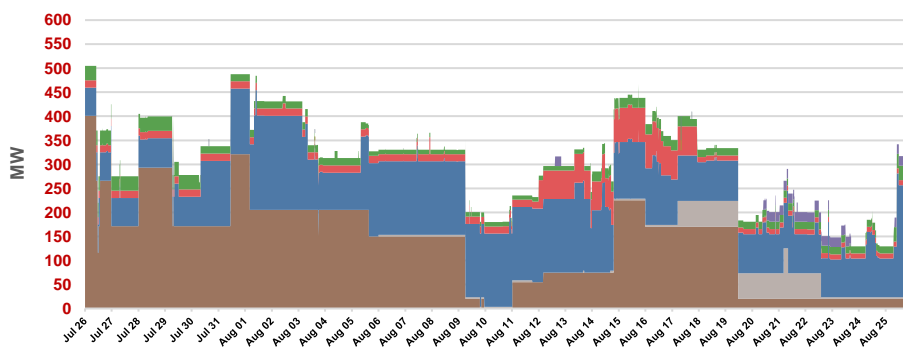
LUZON



VISAYAS

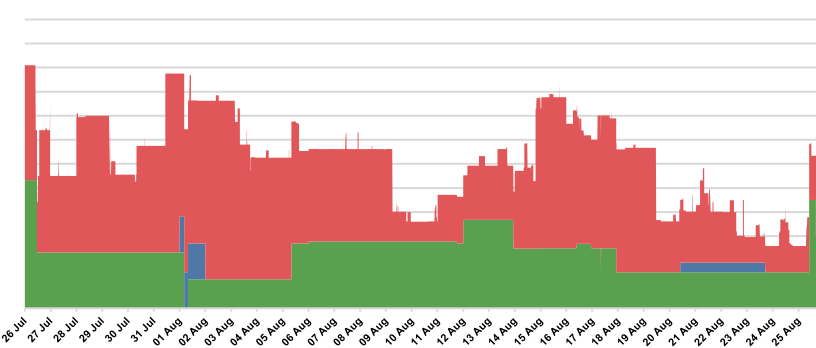
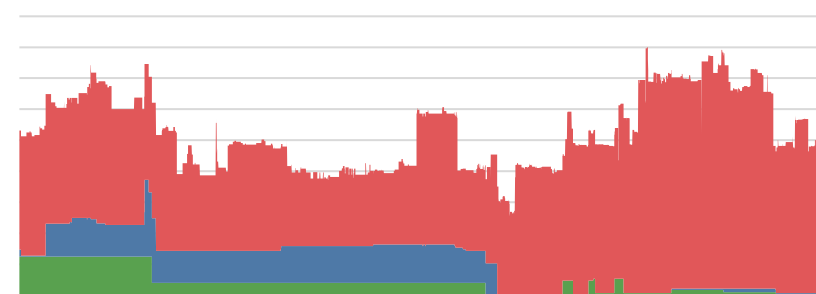
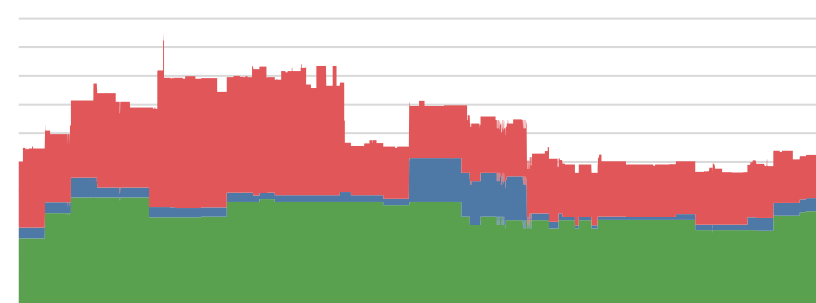
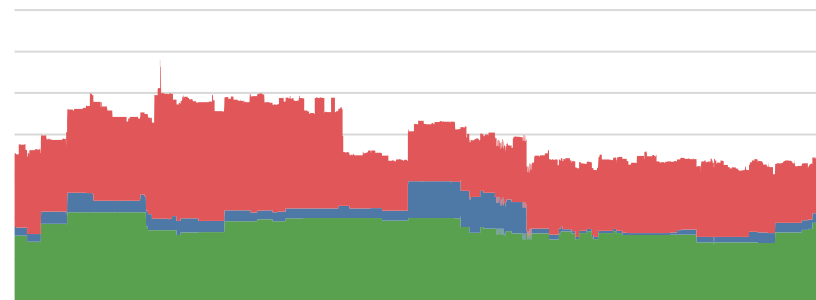


MINDANAO



PER CATEGORY

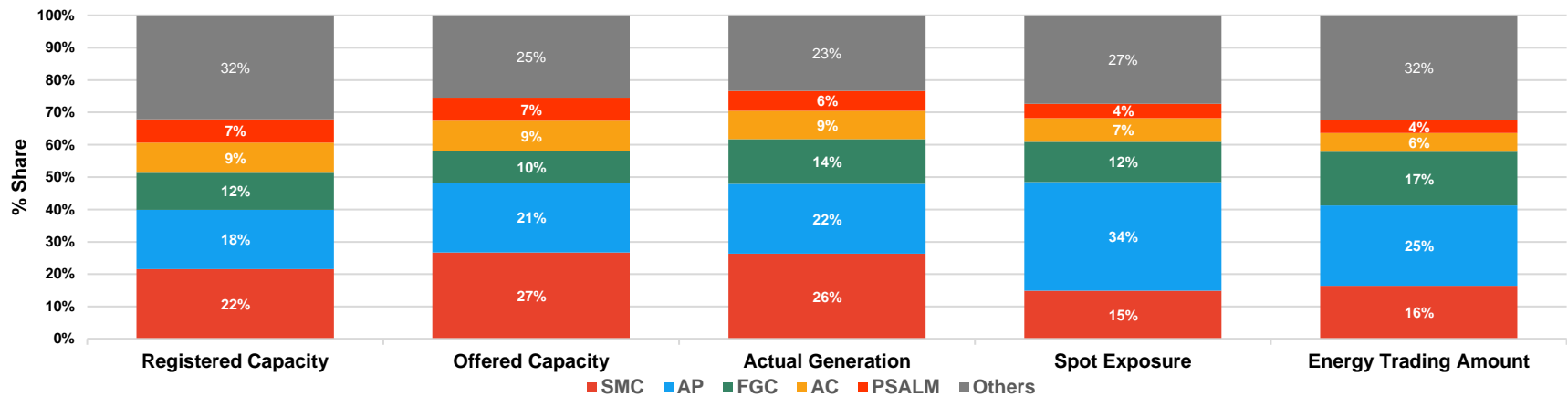
Planned Maintenance Forced



MARKET OUTCOME

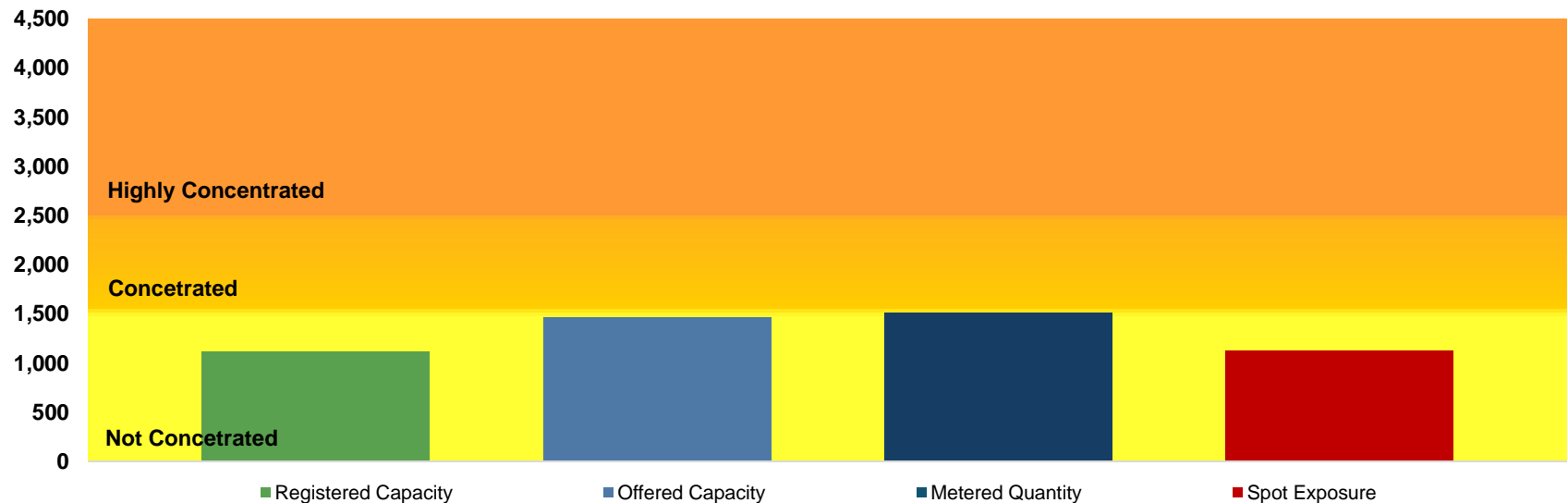
STRUCTURAL COMPETITION

SYSTEM MARKET SHARE



For the August 2024 billing period, San Miguel Corporation (SMC) had the highest percentage share in the registered and offered capacity. This resulted to SMC being the highest percentage share in terms of actual generation, suggesting that most of its offered capacity has been dispatched. However, Aboitiz Power (AP) led in terms of Energy Trading Amount (ETA) in the market. This suggests that most of SMC's traded energy is tied to bilateral contracts, with only 14% exposed to the spot market resulting in a 15% of the total spot exposure. The graph also illustrates the disparity between the percentage share per ETA and spot market exposure, due to varying resulting market prices.

Herfindahl-Hirschman Index

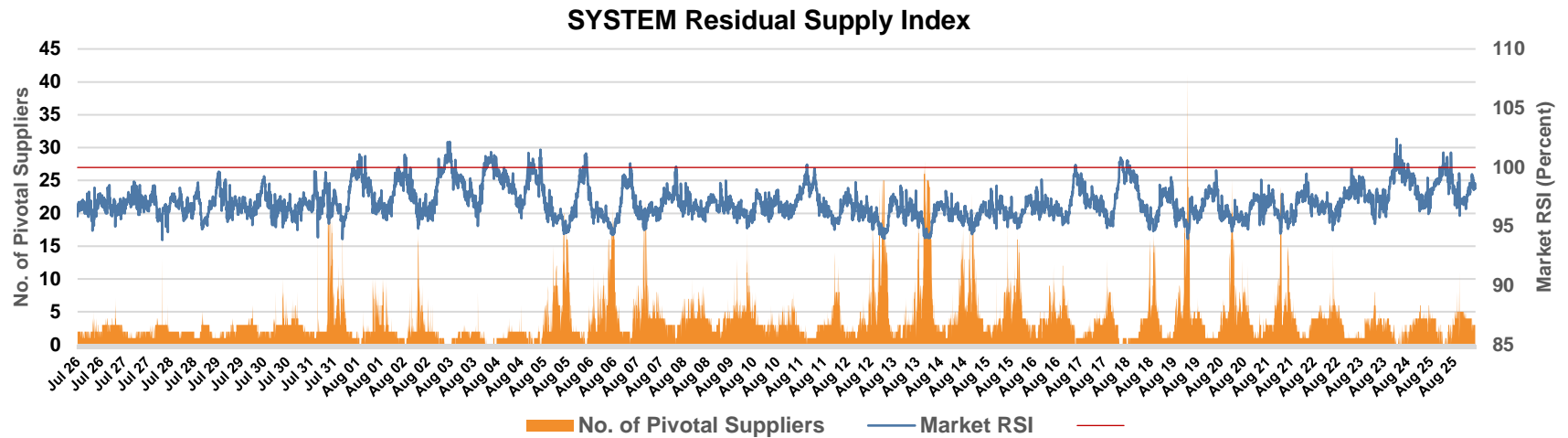


Based on the Herfindahl-Hirschman Index (HHI), the market, during the August 2024 billing period, was not concentrated level for all measures used.

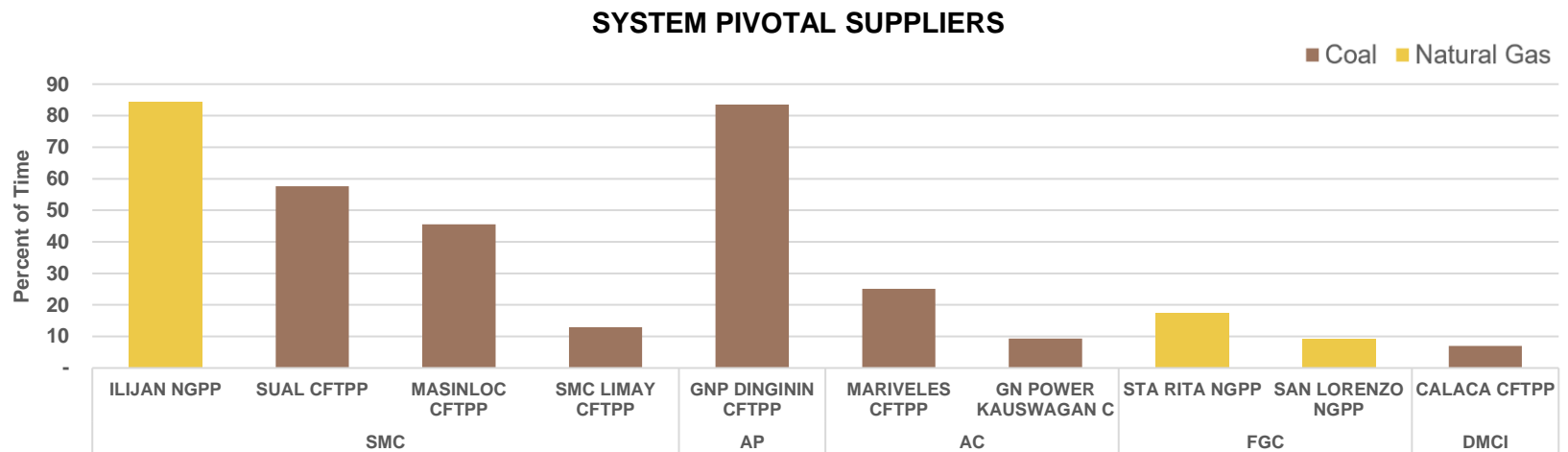
The relatively low HHI values suggest that market power is distributed among multiple participants, rather than being concentrated under the control of a single or handful entities or major groups. This indicates a competitive market environment with minimal risk of monopolistic or oligopolistic influence.

MARKET OUTCOME

STRUCTURAL COMPETITION



RSIs below 100 indicate a tight supply situation with presence of market power of market participants. For August 2024 billing period, RSIs below 100 was recorded for 97% of time and the average price during these instances was significantly high at PHP 6,284/MWh. Conversely, when RSI is 100 or above (3% of time), it suggests a more competitive market with ample supply, with average price being significantly lower at PHP 3,211/MWh.



The Ilijan Natural Gas Power Plant (NGPP) was noted to be a pivotal plant for 84.36% of the time over a total of 7,532 trading intervals. A pivotal plant is one whose capacity is required to meet the demand at a specific time; without the contribution of such a supplier, the grid may experience shortages or instability.

Meanwhile, GNP Dinginin, which had the largest share of pivotal supply in the previous billing month, remained a significant resource for the August 2024 billing period at 83.55% of the trading intervals. While Dinginin's role as a pivotal plant had declined a little compared to the previous month, its high level of participation remains critical for the grid stability.

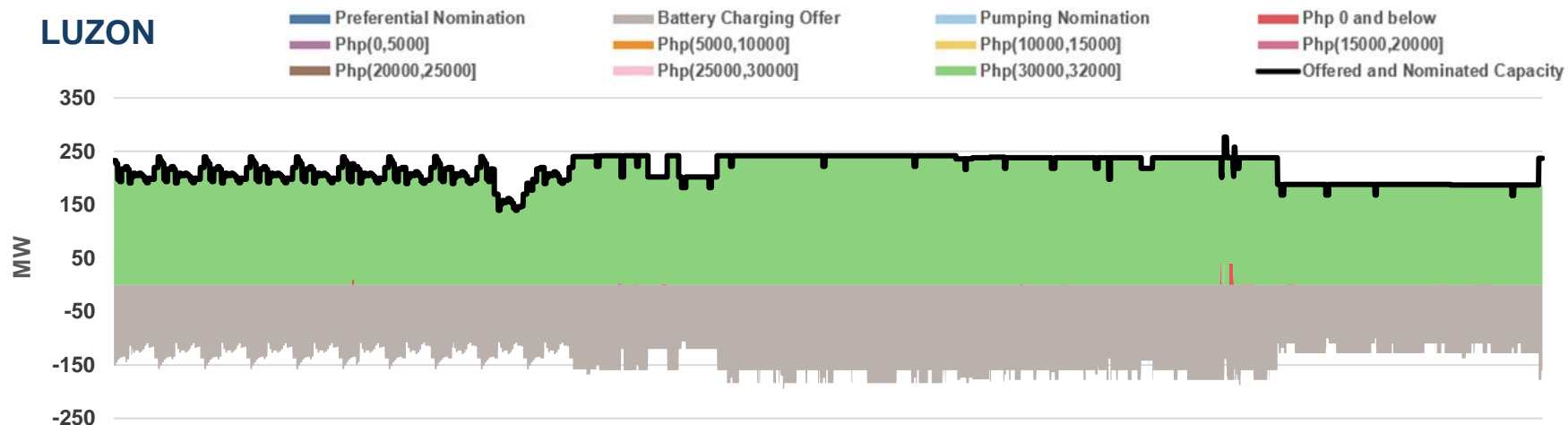
The strong presence of both the plants as critical suppliers emphasizes their role in preventing shortfalls and maintaining grid reliability, thus showing their influence in the market. Additionally, it is important to highlight that seven out of ten pivotal suppliers were coal-fired power plants and the three remaining plants were natural gas power plants.

MARKET OUTCOME

OFFER PATTERN ANALYSIS

BATTERY

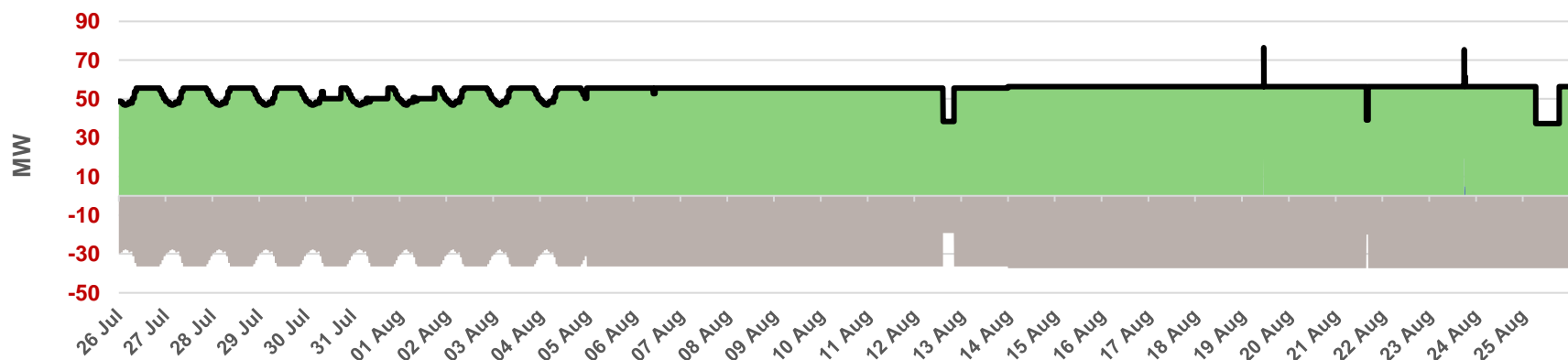
LUZON



VISAYAS



MINDANAO

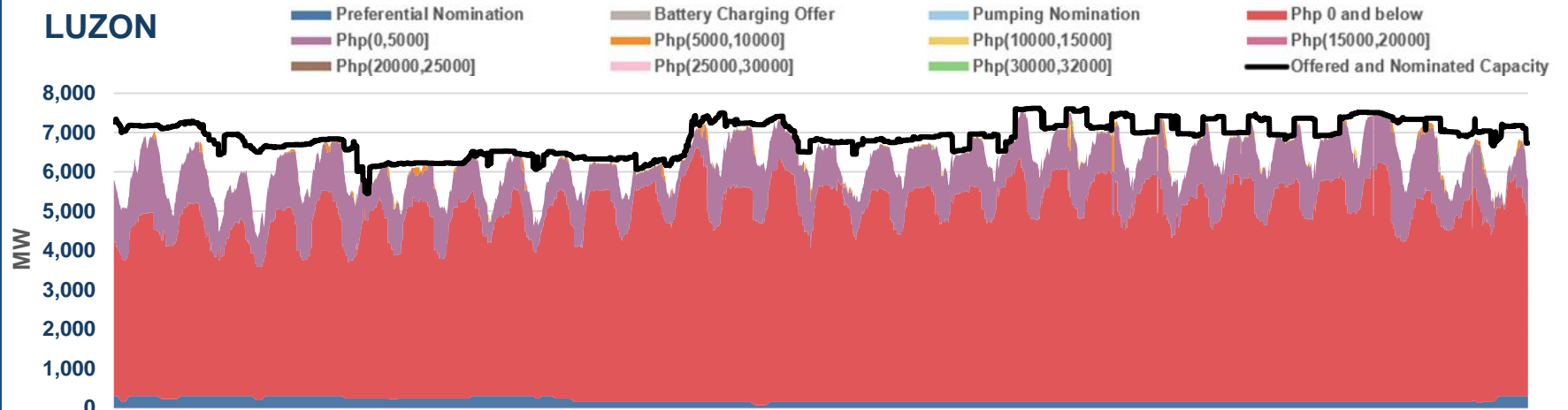


MARKET OUTCOME

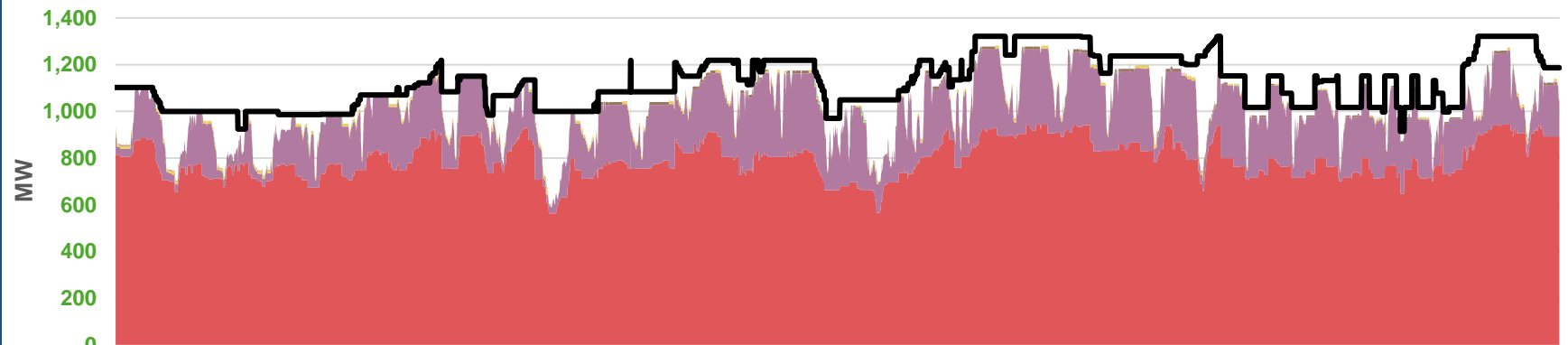
OFFER PATTERN ANALYSIS

COAL

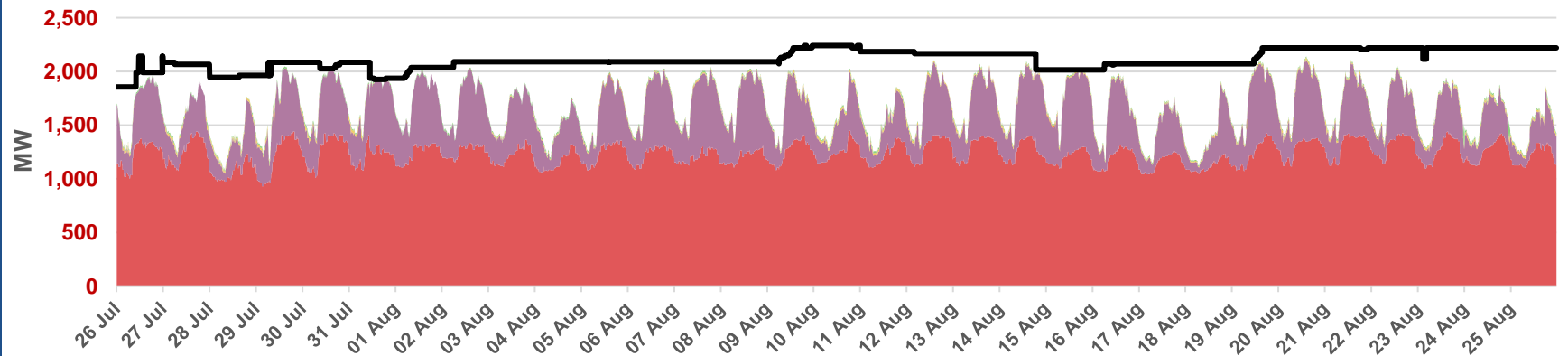
LUZON



VISAYAS



MINDANAO

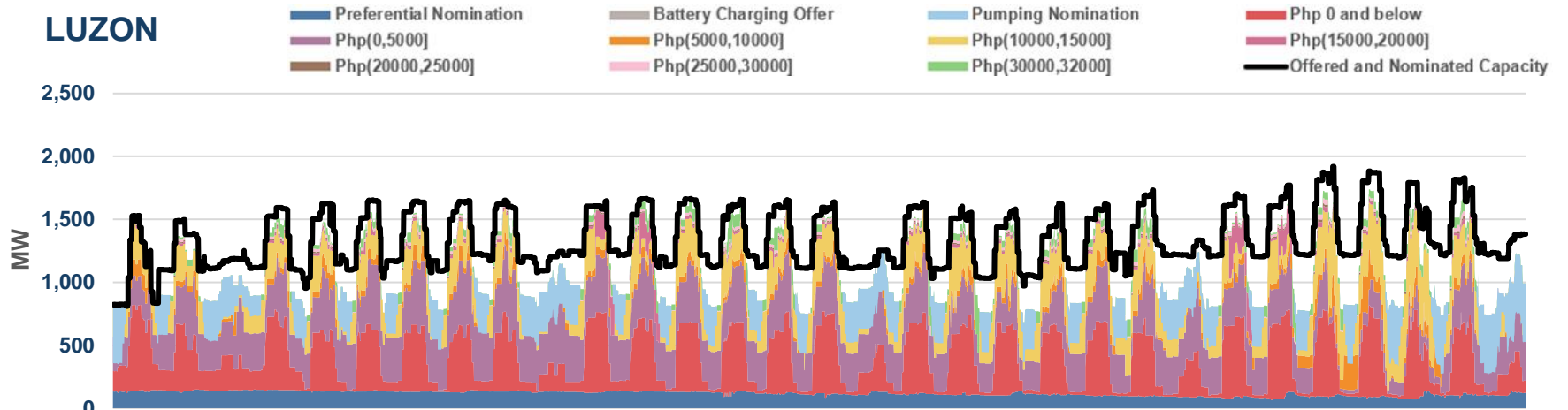


MARKET OUTCOME

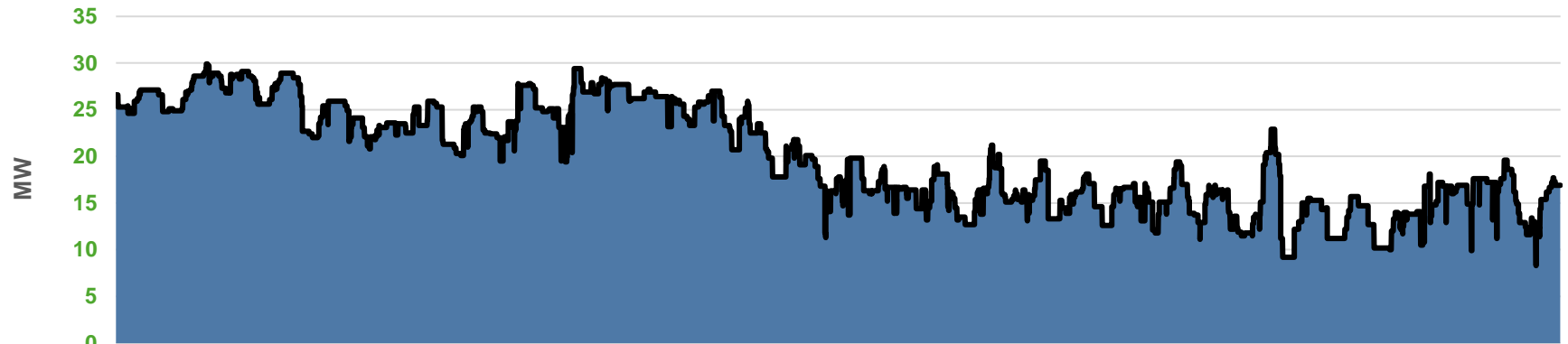
OFFER PATTERN ANALYSIS

HYDRO

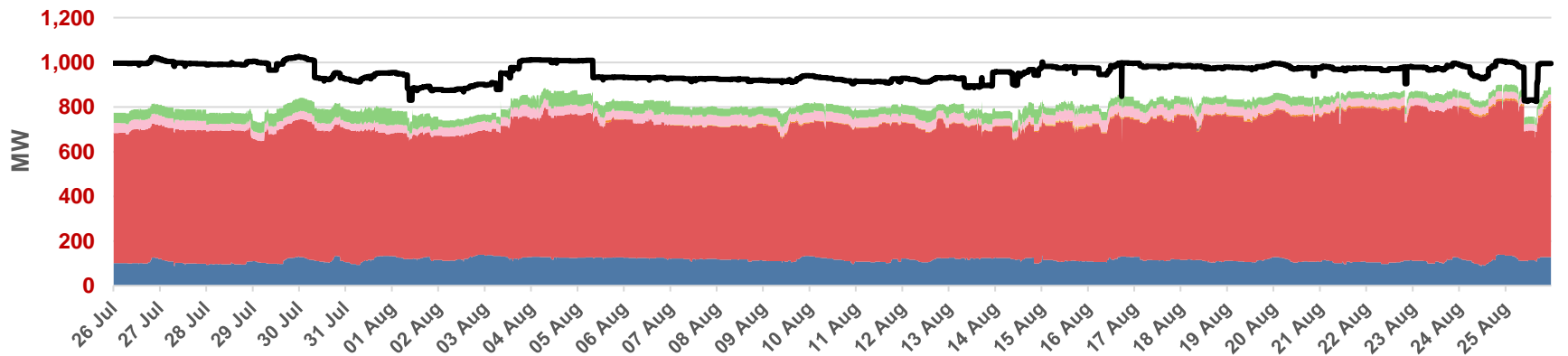
LUZON



VISAYAS



MINDANAO

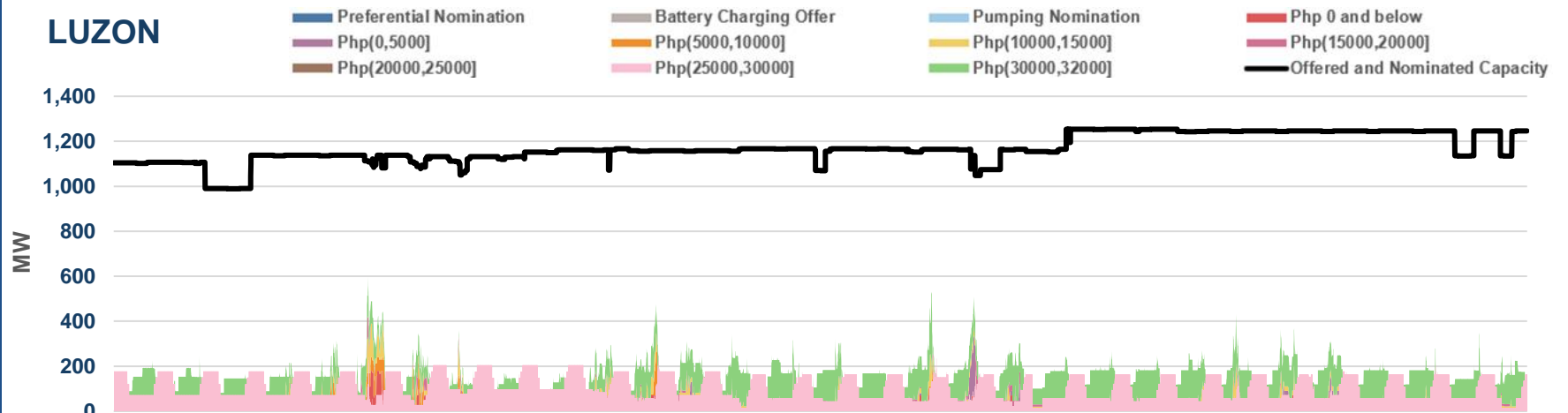


MARKET OUTCOME

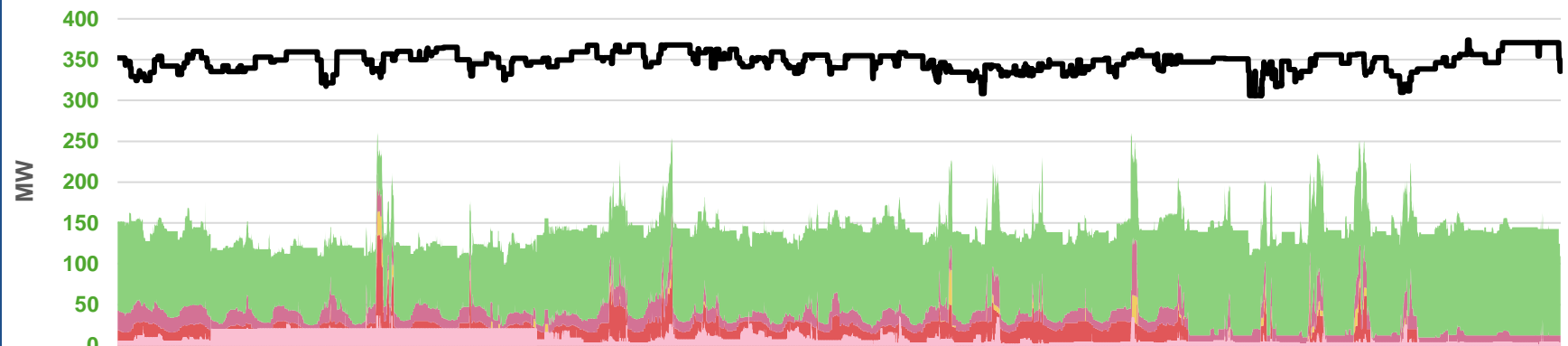
OFFER PATTERN ANALYSIS

OIL

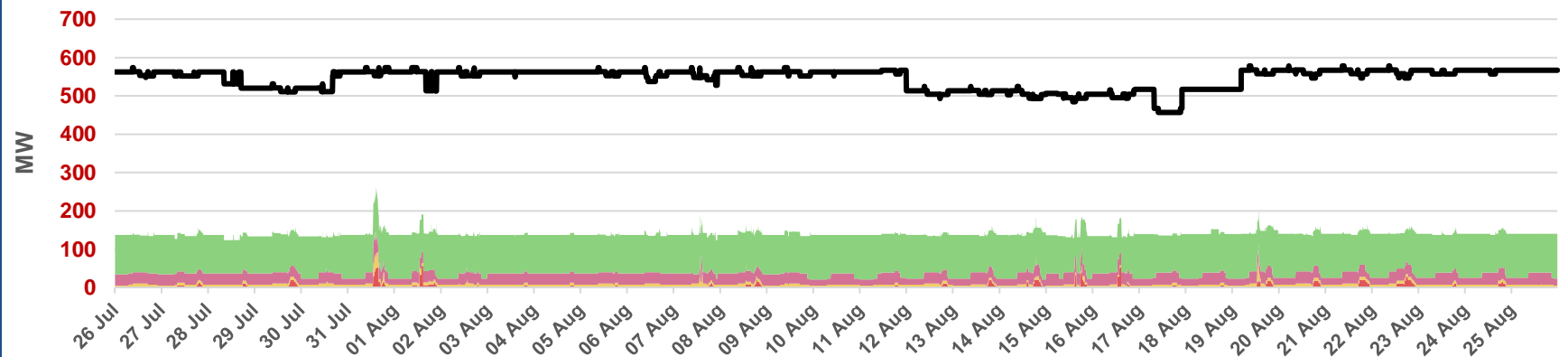
LUZON



VISAYAS

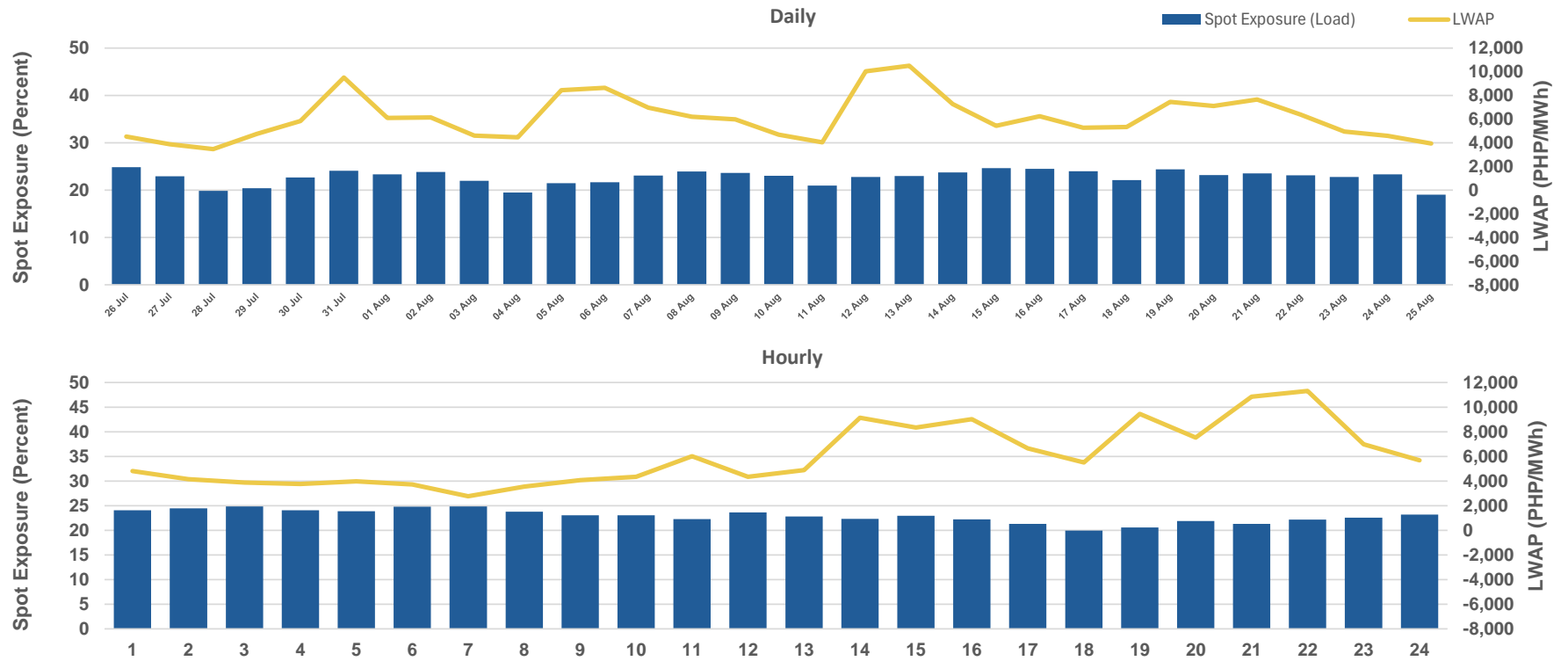


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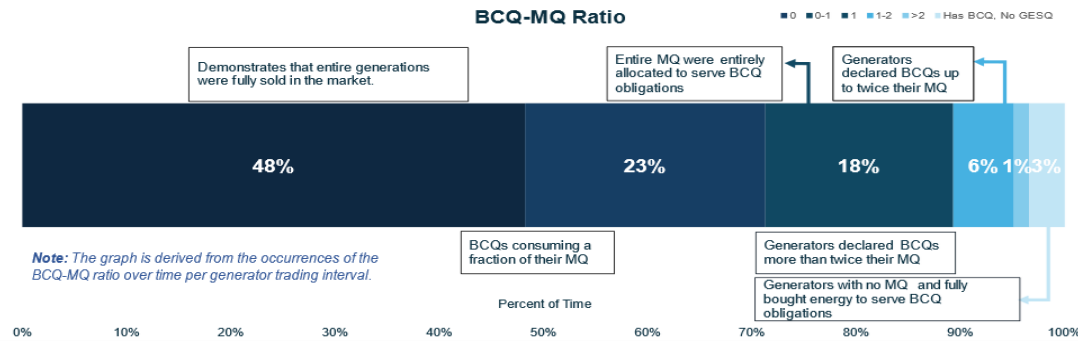


MARKET OUTCOME

SPOT EXPOSURE



The average spot quantities of generator participants for the August 2024 billing period accounted for 22.75%, with an accompanying average price of PHP 6,200/MWh. Notably, the spot exposure exhibited variations based on the type of day, with weekdays/holidays recording an average of 23.29% at an average price of PHP 7,069/MWh while weekends registered an average of 21.76% at an average price of PHP 4,492/MWh.



For the August 2024 billing period, majority of the metered quantities were covered by the BCQ declarations in the market.

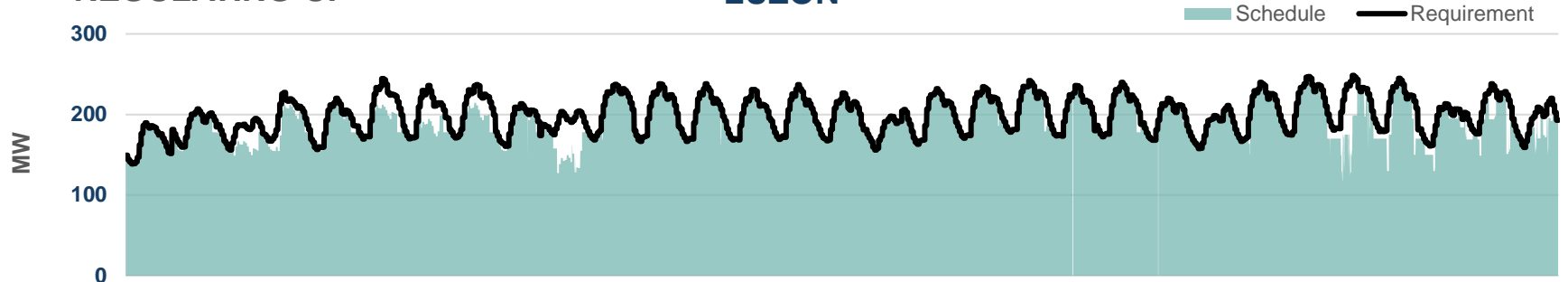
Public

MARKET OUTCOME

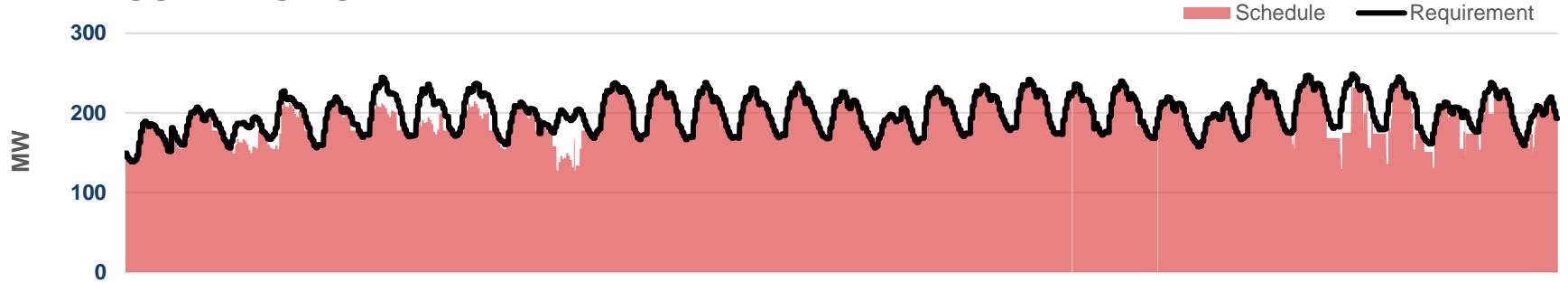
RESERVE MARKET

REGULATING UP

LUZON



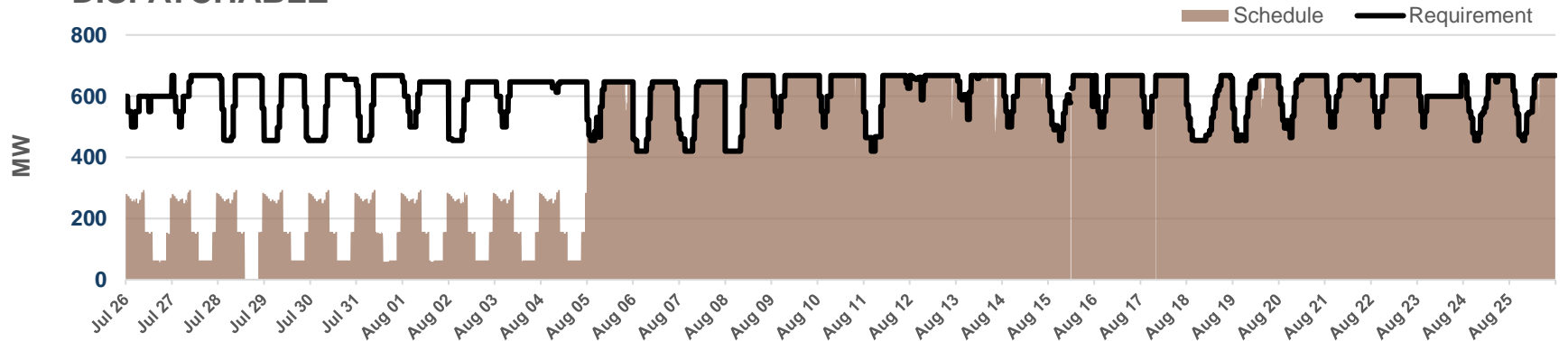
REGULATING DOWN



CONTINGENCY



DISPATCHABLE



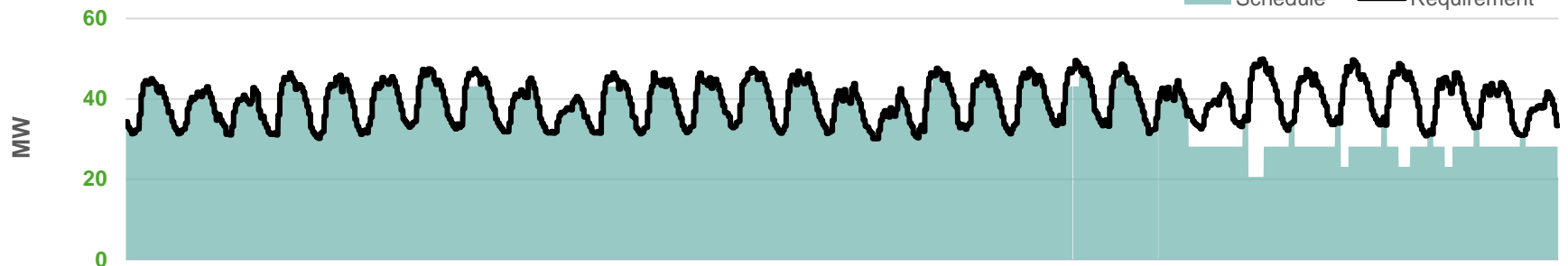
Public

MARKET OUTCOME

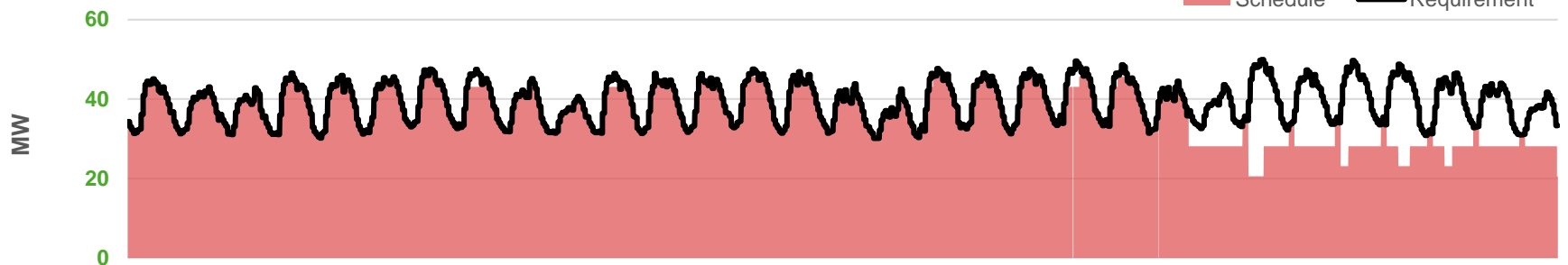
RESERVE MARKET

REGULATING UP

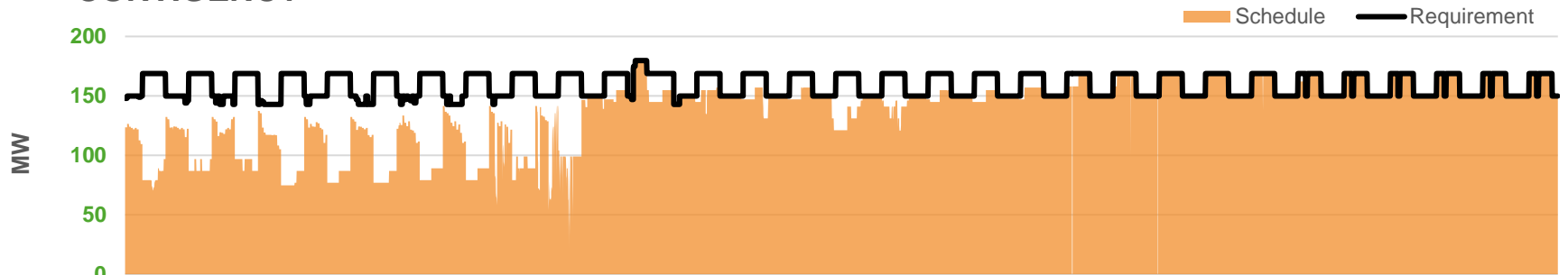
VISAYAS



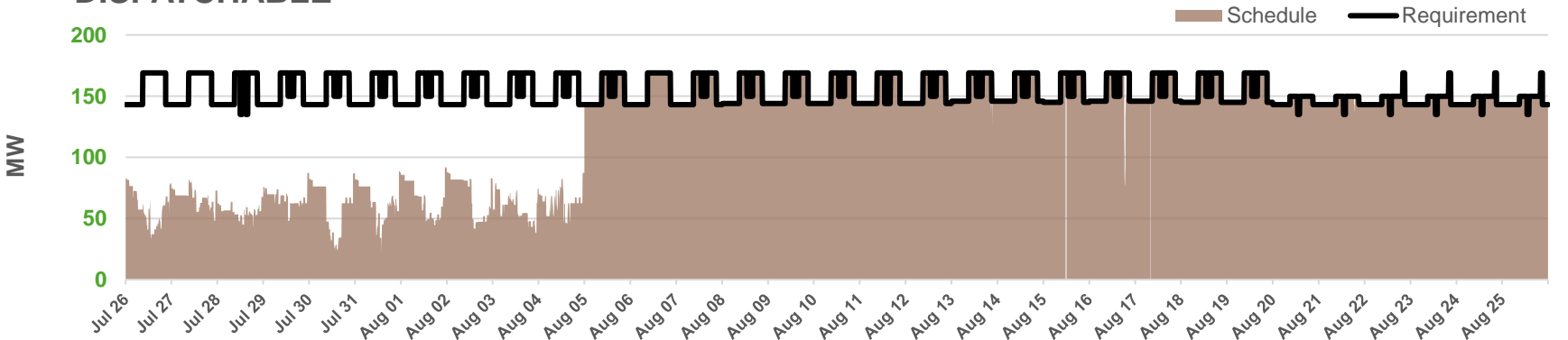
REGULATING DOWN



CONTINGENCY



DISPATCHABLE



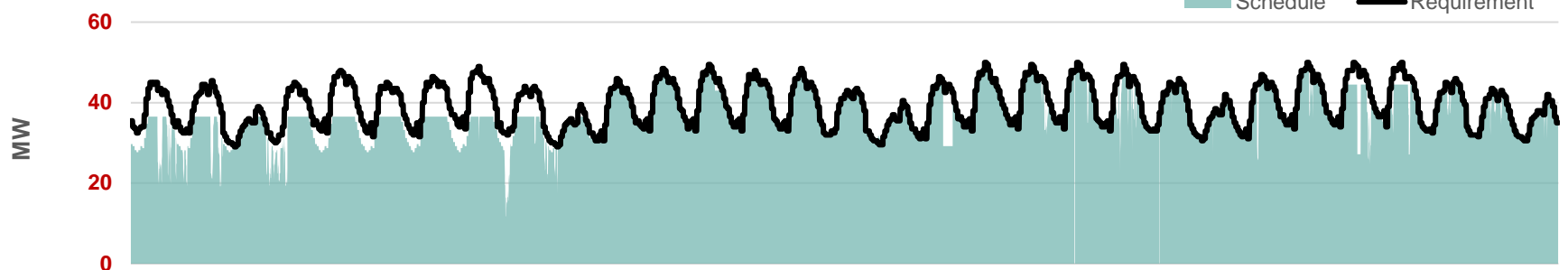
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MARKET OUTCOME

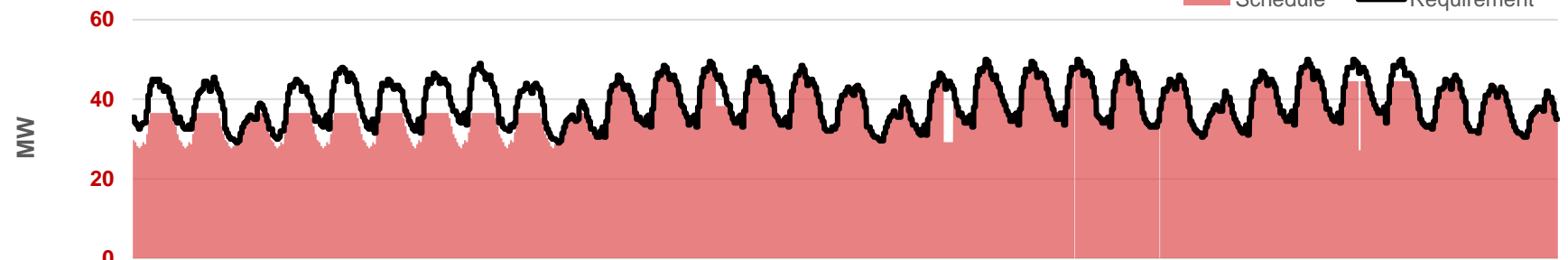
RESERVE MARKET

REGULATING UP

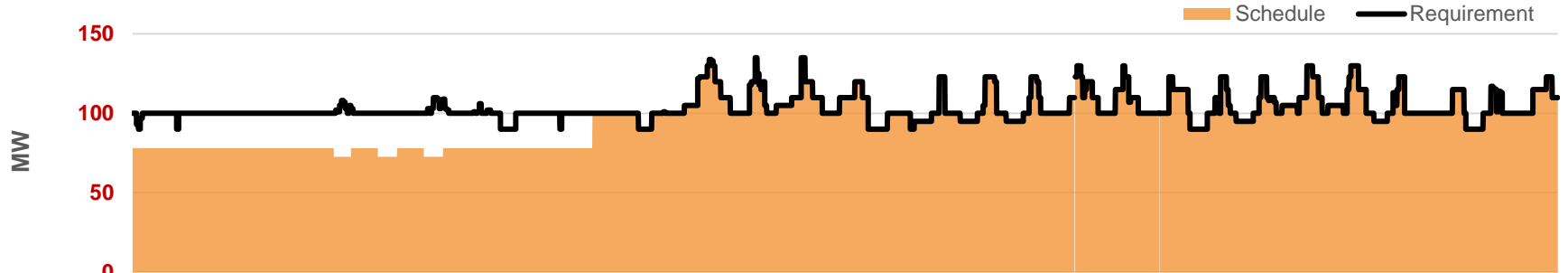
MINDANAO



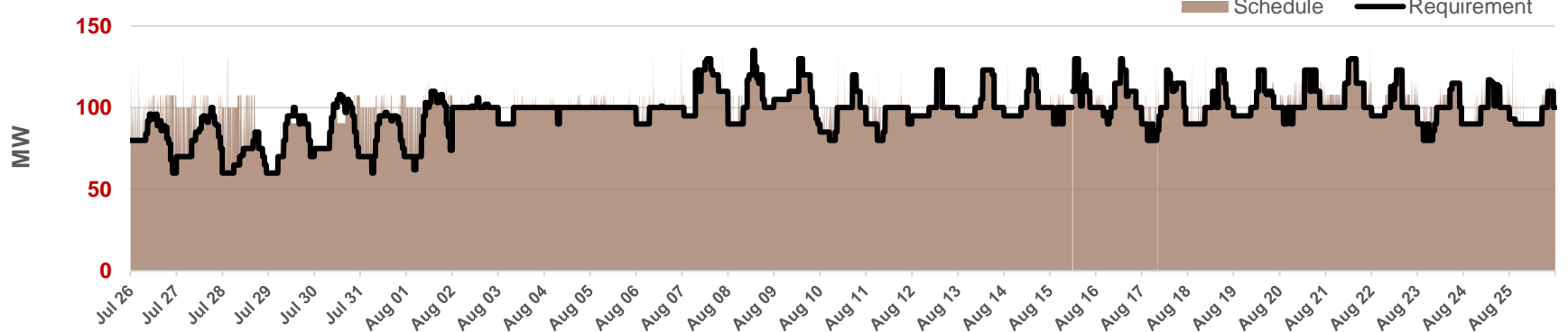
REGULATING DOWN



CONTINGENCY



DISPATCHABLE



Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
BAT	MAGAPIT B	40	04/21/2023 0:01			Forced Outage	Unbalanced line current.
BAT	ALAMINOS BAT1	20	02/18/2024 9:30			Forced Outage	Unit problem on investigation.
BAT	SNMAN B	50	08/20/2024 6:00	08/25/2024 23:01	5	Maintenance Outage	Annual PMS until August 25 2024.
BIOF	CLEANG 1	10.8	02/13/2024 0:00			Forced Outage	Unplanned shutdown due to insufficient fuel.
BIOF	GFII	15.8	05/18/2024 20:04			Forced Outage	Insufficient fuel
BIOF	Hypergreen	10	06/14/2024 14:01			Forced Outage	Lack of Fuel
BIOF	BT2020	13	07/01/2024 6:00	07/31/2024 23:59	30	Maintenance Outage	Maintenance Outage extended until July 31 2024.
BIOF	BT2020	13	07/01/2024 6:00			Maintenance Outage	Maintenance Outage until July 26 2024.
BIOF	G2REC	10.8	07/24/2024 18:34	07/26/2024 9:01	2	Forced Outage	Emergency shutdown due to fuel supply system trouble.
BIOF	IPower 2	10.8	08/02/2024 0:00			Planned Outage	Annual Preventive Maintenance until August 25 2024.
BIOF	IPower 2	10.8	08/02/2024 0:00			Planned Outage	Annual Preventive Maintenance
BIOF	LASUER 1	5.1	08/04/2024 13:10	08/18/2024 7:54	14	Maintenance Outage	Maintenance outage
BIOF	GIFT 2	6	08/06/2024 0:01	08/08/2024 5:53	2	Forced Outage	Inspection of ESP
BIOF	G2REC	10.8	08/11/2024 8:01	08/14/2024 8:04	3	Forced Outage	Emergency shutdown to repair conveyor system and furnace
COAL	Masinloc 2	344	07/01/2024 0:00	07/30/2024 23:59	29	Planned Outage	Planned Outage until July 30 2024.
COAL	Pagbilao 1	382	07/01/2024 0:49			Planned Outage	Planned outage July 1 - September 10 2024
COAL	SLTEC 2	124	07/23/2024 18:30	07/27/2024 0:11	4	Forced Outage	Tripped due to low condenser vacuum.
COAL	SMC 3	150	07/24/2024 8:10	07/31/2024 13:03	7	Forced Outage	Tripped due to high current air heater motor
COAL	Calaca 1	240	07/26/2024 3:38	08/02/2024 14:40	7	Forced Outage	Tripped due to boiler tube leak.
COAL	SMC 4	150	07/27/2024 22:54	07/29/2024 17:13	2	Forced Outage	Tripped due to transformer protection activation
COAL	SLPGC 1	150	07/27/2024 23:57			Planned Outage	Planned Outage July 28 - September 05 2024
COAL	SLPGC 1	150	07/27/2024 23:57			Planned Outage	Planned Outage July 28 - September 05 2024
COAL	SLTEC 1	122	07/28/2024 0:02			Planned Outage	Planned Outage July 28 - September 11 2024
COAL	Calaca 2	300	07/28/2024 20:42	08/06/2024 0:48	9	Forced Outage	Unplanned shutdown due to boiler tube leak.
COAL	Masinloc 2	344	07/31/2024 0:00	08/06/2024 19:22	6	Forced Outage	Extended outage
COAL	GNP Dinginin 2	668	07/31/2024 12:59	08/07/2024 11:56	7	Forced Outage	Boiler tube leak
COAL	MPGC 3	150	08/05/2024 1:43	08/24/2024 17:57	19	Forced Outage	Emergency s/d due to coal feeder C hole in discharge bellow that drop coal in the furnace.
COAL	Pagbilao 2	382	08/06/2024 10:23	08/07/2024 12:31	1	Forced Outage	Tripped due to station battery dc system failure
COAL	Sual 2	647	08/09/2024 23:43	08/14/2024 12:24	5	Maintenance Outage	Maintenance Outage from August 10 - 16 2024
COAL	SMC 1	150	08/17/2024 6:01			Planned Outage	Planned Outage.until September 7 2024.
COAL	SLTEC 2	124	08/23/2024 0:06			Maintenance Outage	Emergency shutdown due to facilitate correction of SF6 gas repair/purification at GIS common bus.
GEO	Tiwi 1	60	06/18/2024 0:11	07/27/2024 4:46	39	Forced Outage	Steam supply diverted to Unit 2.
GEO	Tiwi 2	60	07/15/2024 0:00	08/08/2024 23:59	24	Planned Outage	Planned outage until August 8 2024

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
GEO	PALAYAN BINARY	31	07/24/2024 6:04			Forced Outage	The unit is under test and commissioning. PCATC is valid until September 7 2024.
GEO	PALAYAN BINARY	31	07/24/2024 6:04			Forced Outage	The unit is under test and commissioning. PCATC is valid until September 7 2024.
GEO	Makban 4	58	08/05/2024 19:45	08/06/2024 5:20	1	Forced Outage	The unit tripped with generator protection alarm.
GEO	Makban 2	57	08/08/2024 11:17	08/10/2024 0:23	2	Forced Outage	Limited steam supply.
GEO	Tiwi 2	60	08/09/2024 0:00	08/25/2024 21:21	16	Forced Outage	Extended outage to complete overhauling.
GEO	Bacman 2	60	08/10/2024 0:06	08/13/2024 16:52	3	Planned Outage	Planned Outage from August 10 - 13 2024
GEO	Bacman 1	60	08/12/2024 17:00	08/13/2024 7:35	1	Forced Outage	The unit tripped upon closing of PCB 8-01CB04BCN.
GEO	Bacman 2	60	08/14/2024 17:17	08/15/2024 8:56	1	Forced Outage	Unit shutdown to facilitate generator bearing vibration balancing.
GEO	Bacman 1	60	08/21/2024 12:41	08/22/2024 0:39	1	Forced Outage	Emergency shutdown due to circulating water discharge problem.
GEO	Bacman 1	60	08/25/2024 0:10			Planned Outage	Planned shutdown to facilitate Black Start test
GEO	Bacman 3	20	08/25/2024 6:07			Planned Outage	Planned outage August 25 - 28 2024
GEO	Bacman 2	60	08/25/2024 18:30			Forced Outage	Tripped due to actuation of transformer differential protection
HYD	Angat M 4	50	02/14/2022 0:00			Planned Outage	Planned outage.
HYD	Angat A 2	6	11/06/2023 8:01			Planned Outage	Total Plant shutdown (Planned Outage)
HYD	BUTAO 1	1.3	03/23/2024 11:17	07/31/2024 3:10	130	Forced Outage	Unplanned outage.
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	Masiway	12	05/21/2024 17:01			Forced Outage	No IDR
HYD	TIBAG	5.8	05/26/2024 16:25			Forced Outage	Affected by line tripping during the passage of TS Aghon. The generator is under test and commissioning.
HYD	Angat M 1	50	06/28/2024 8:01			Maintenance Outage	Replacement of Main Unit No.1 in relation to the ongoing AHEPP Modernization and Rehabilitation Project (December 31 2024 2400H).
HYD	Kalayaan 1	183	07/01/2024 0:01			Planned Outage	Planned Outage until September 18 2024.
HYD	San Roque 3	145	07/08/2024 0:01	08/17/2024 0:01	40	Planned Outage	Planned outage until August 30 2024.
HYD	Angat M 3	50	07/20/2024 8:10	07/30/2024 6:20	10	Forced Outage	No irrigation requirement from NIA.
HYD	Angat M 2	50	07/20/2024 8:10	07/30/2024 6:20	10	Forced Outage	No irrigation requirement from NIA.
HYD	Kalayaan 2	183	07/27/2024 0:00	08/20/2024 23:13	24	Planned Outage	Planned Outage until August 20 2024
HYD	Kalayaan 2	183	07/27/2024 0:00			Planned Outage	Planned Outage until August 20 2024
HYD	Maris 2	4.3	08/19/2024 14:38	08/21/2024 8:28	2	Forced Outage	Unit shutdown due to washed out downstream canal.
HYD	Maris 1	4.3	08/19/2024 15:40	08/21/2024 8:20	2	Forced Outage	Unit shutdown due to washed out downstream canal.
HYD	Maris 1	4.3	08/22/2024 20:11	08/23/2024 15:20	1	Forced Outage	Emergency shutdown due to drowning incident.
HYD	Maris 2	4.3	08/22/2024 20:12	08/23/2024 8:30	1	Forced Outage	Emergency shutdown due to drowning incident.
NATG	Sta. Rita 2	255.7	07/26/2024 23:50			Planned Outage	Planned Outage until September 9 2024.
NATG	Sta. Rita 1	257.3	08/02/2024 23:44	08/11/2024 23:59	9	Planned Outage	Planned Outage until August 11 2024.
NATG	Ilijan A1	190	08/03/2024 22:53	08/04/2024 12:18	1	Forced Outage	Emergency Shutdown to conduct repair on Inlet Guide Vane.
NATG	San Lorenzo 2	265	08/23/2024 23:43	08/25/2024 23:59	2	Planned Outage	Planned outage until August 25 2024.
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

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Luzon							
OIL	Republic 1	5.5	04/04/2024 19:20			Forced Outage	Declared unavailable due to unusual sound and smoke came out at turbocharger side
OIL	Limay 7	60	07/01/2024 0:01	08/15/2024 21:09	45	Maintenance Outage	Maintenance Outage until September 4 2024
OIL	TMO Unit 1	63.8	07/22/2024 0:01	07/28/2024 23:55	6	Maintenance Outage	Annual PMS of Switchyard.
OIL	Malaya 2	130	07/24/2024 21:24			Forced Outage	Tripped due to loss prime of CWP
OIL	TMO Unit 2	51.5	07/28/2024 0:00	08/04/2024 0:00	7	Maintenance Outage	Planned Maintenance Outage (Annual Electrical PMS)
SOLR	GIGASOL3	50.5	08/17/2024 7:05	08/18/2024 8:04	1	Forced Outage	Affected by planned shutdown of Botolan-Candelaria 69kV Line
Visayas							
BIOF	SCBE	7.4	03/31/2023 10:35			Forced Outage	Plant shutdown
BIOF	HPCO 1	2	11/12/2023 20:00			Forced Outage	Defective auxiliary of vibration meter.
BIOF	South Negros	25	03/28/2024 10:30			Forced Outage	Emergency cut out due to insufficient fuel supply (bagasse).
BIOF	URC 1	30	04/13/2024 4:37			Forced Outage	Offline due to insufficient cane supply.
BIOF	VMC	2.5	04/21/2024 16:20			Forced Outage	Weekly maintenance.
BIOF	NTNEGB 1	25	05/22/2024 15:59			Forced Outage	Insufficient fuel supply (bagasse).
BIOF	San Carlos Bio	19.5	07/24/2024 10:45	08/06/2024 3:50	13	Forced Outage	Shutdown due to insufficient fuel supply.
BIOF	San Carlos Bio	19.5	08/09/2024 12:45			Forced Outage	shutdown due to wet fuel and to conduct boiler inspection.
COAL	PALM 1	135	03/31/2024 0:00	08/01/2024 0:40	123	Forced Outage	Extended maintenance
COAL	PEDC 2	83.7	07/01/2024 0:37	07/31/2024 1:46	30	Planned Outage	Preventive maintenance schedule
COAL	Kepco Salcon 1	103	07/27/2024 0:01			Maintenance Outage	On Maintenance Outage ; ECD: August 16 2024 @ 0000H
COAL	Kepco Salcon 1	103	07/27/2024 0:01	08/13/2024 7:26	17	Maintenance Outage	On Maintenance Outage ECD August 16 2024 0000H
COAL	Kepco Salcon 1	103	07/27/2024 0:01			Maintenance Outage	On Maintenance Outage ECD August 16 2024 0000H
COAL	PEDC 1	83.7	08/02/2024 23:31	08/05/2024 6:10	3	Forced Outage	Low furnace temperature
COAL	THVI 2	169	08/10/2024 5:21	08/11/2024 18:57	1	Forced Outage	Emergency shutdown due to minor repair of Turbine intermediate control valve bravo
COAL	THVI 2	169	08/10/2024 5:21			Forced Outage	Emergency shutdown due to minor repair of Turbine intercept control valve bravo
COAL	TPC-Sangi 1	83.6	08/15/2024 23:12	08/18/2024 8:40	3	Forced Outage	Emergency shutdown due to air heater tube leak
COAL	THVI 2	169	08/18/2024 17:13	08/23/2024 21:45	5	Forced Outage	BOILER BED TEMP LOW LOW
COAL	PALM 1	135	08/25/2024 15:59			Forced Outage	facilitate placing turbine on turning gear operation due to high turbine bearing vibration.
GEO	Upper Mahiao 1	26.9	11/25/2022 11:07			Forced Outage	Due to lack of steam
GEO	PGPP2 Unit 3	19.5	07/01/2024 0:01	07/26/2024 1:11	25	Maintenance Outage	Planned maintenance outage.
GEO	Malitbog 2	77.5	07/08/2024 5:43			Forced Outage	Due to high vibration
GEO	Leyte 3	40.2	07/25/2024 21:12	08/12/2024 20:50	18	Planned Outage	as per annual GOMP

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Visayas							
GEO	PGPP2 Unit 3	19.5	07/27/2024 19:38	07/28/2024 5:03	1	Forced Outage	Emergency shutdown at 1938H due to critical alarm at generator terminal C high temperature.
GEO	Malitbog 3	75.06	07/28/2024 17:08	07/29/2024 12:34	1	Forced Outage	Emergency shutdown.
GEO	PGPP1 Unit 3	35.5	08/01/2024 6:04	08/04/2024 15:13	3	Forced Outage	Emergency shutdown due to leak at distribution cooling tower basin.
GEO	Mahanagdong B1	5	08/05/2024 0:13	08/12/2024 2:45	7	Maintenance Outage	Total plant shutdown of Mahanagdong Binary Power plant 230kV line tie-in MGA 230KV switchyard station.
GEO	Mahanagdong A2	5	08/05/2024 0:35	08/11/2024 17:03	6	Maintenance Outage	Total plant shutdown of Mahanagdong Binary Power plant 230kV line tie-in MGA 230KV switchyard station.
GEO	Mahanagdong A1	5	08/05/2024 0:42	08/11/2024 16:26	6	Maintenance Outage	Total plant shutdown of Mahanagdong Binary Power plant 230kV line tie-in MGA 230KV switchyard station.
GEO	Leyte 2	39.3	08/12/2024 22:09	08/13/2024 8:45	1	Forced Outage	Emergency shutdown due to rectification of steam line leak.
GEO	Leyte 2	39.3	08/14/2024 0:16	08/22/2024 0:43	8	Forced Outage	Emergency shutdown to effect repair of steam pipeline and scrubber.
GEO	Malitbog 1	73.12	08/17/2024 22:56			Forced Outage	Turbine Generator Vibration very high
GEO	PGPP1 Unit 3	35.5	08/18/2024 23:52	08/19/2024 2:27	1	Forced Outage	Auto tripped Hot well pump stop indication.
GEO	PGPP1 Unit 2	37.5	08/18/2024 23:52	08/19/2024 2:29	1	Forced Outage	Auto tripped Hot well pump stop indication
GEO	PGPP1 Unit 1	37.5	08/18/2024 23:52	08/19/2024 2:08	1	Forced Outage	Auto tripped Hot well pump stop indication
GEO	Upper Mahiao 4	27.5	08/21/2024 3:35	08/22/2024 6:21	1	Forced Outage	Generator synchronizing breaker trouble indication
HYD	THC 2	5.1	07/23/2024 13:46	07/27/2024 21:12	4	Forced Outage	Affected by the tripping of 69kV Taft feeder.
HYD	THC 3	5.1	07/29/2024 10:15	08/01/2024 13:19	3	Forced Outage	Due to lack of water
HYD	THC 2	5.1	07/31/2024 11:25	08/03/2024 13:27	3	Forced Outage	Per RTD.
HYD	THC 2	5.1	07/31/2024 11:25			Forced Outage	Due to lack of water
HYD	THC 1	5	08/01/2024 13:19	08/05/2024 18:49	4	Forced Outage	DUE TO HIGH VIBRATION.
HYD	THC 1	5	08/05/2024 18:53	08/24/2024 6:18	19	Forced Outage	Indications Collective fault from synchronization
HYD	THC 3	5.1	08/06/2024 19:45	08/07/2024 19:10	1	Forced Outage	Collective fault from synchronization
HYD	THC 2	5.1	08/07/2024 18:51	08/08/2024 13:27	1	Forced Outage	Generator collective fault from synchronization device.
HYD	THC 3	5.1	08/08/2024 13:22			Forced Outage	Due to high vibration
HYD	THC 3	5.1	08/08/2024 13:22			Maintenance Outage	Due to high vibration
HYD	SMHC U1	1.25	08/11/2024 19:09	08/12/2024 9:59	1	Forced Outage	Turbine governor problem.
HYD	AHEP U1	0.9	08/18/2024 23:52	08/19/2024 19:02	1	Forced Outage	Auto tripped Auxiliary supply control indication.
HYD	AHEP U2	0.45	08/19/2024 17:05	08/23/2024 12:56	4	Forced Outage	Offline for installation of phase monitoring relay.
HYD	AHEP U2	0.9	08/19/2024 17:05			Forced Outage	Offline for installation of phase monitoring relay.
HYD	THC 1	5	08/24/2024 19:02			Forced Outage	Tripped due to unbalanced voltage
HYD	Villasiga U3	0.9	08/25/2024 21:01			Forced Outage	due to bearing oil flow low
OIL	PB101 Unit 3	6	04/01/2024 16:30			Forced Outage	Starting failure
OIL	East Asia 1	11.5	05/13/2024 22:55			Forced Outage	CYLINDER NO. 7 CRANKCASE EXPLOSION
OIL	TPC (Carmen) U4	10	06/24/2024 19:20	08/19/2024 0:00	56	Forced Outage	Auto-tripped due to Piston Scuffing on Cylinder 11
OIL	CENPRI 4	6.7	06/26/2024 12:46			Forced Outage	Auto-tripped due to high crankcase pressure caused by cylinder no.18 piston/liner seizure.
OIL	PB101 Unit 4	6	07/19/2024 14:35	07/27/2024 10:00	8	Forced Outage	Frequent surging of turbo charger at both banks

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Visayas							
OIL	PDPP3 G	13	07/21/2024 18:13	08/24/2024 0:09	34	Forced Outage	Abnormal sound at TC B bank
OIL	PDPP1 Unit 2	5	07/24/2024 6:44	07/26/2024 18:50	2	Forced Outage	Emergency cut-out due to high bearing temperature at Main Bearing 1.
OIL	BDPP Unit 1	4	07/25/2024 8:01	07/28/2024 17:31	3	Maintenance Outage	18K PMS TOP OVERHAULING AND SERVICING OF TURBO CHARGER
OIL	PDPP3 C	12	07/26/2024 22:34	07/27/2024 9:10	1	Forced Outage	High EGT at cyl. A6
OIL	PDPP3 H	13	07/27/2024 18:36	07/28/2024 0:10	1	Forced Outage	abnormal sound at cylinder B6
OIL	PDPP1 Unit 3	5	07/27/2024 22:01	07/29/2024 7:06	2	Maintenance Outage	To conduct disilting of cooling tower catch basin
OIL	PDPP1 Unit 3	5	07/27/2024 22:01			Maintenance Outage	To conduct disilting of cooling tower catch basin
OIL	PDPP1 Unit 5	5	07/28/2024 15:07	07/29/2024 10:03	1	Forced Outage	Unable to cut-in due to observed heavy vibration at cylinder 8
OIL	PDPP1 Unit 2	5	07/28/2024 15:07	07/29/2024 9:08	1	Forced Outage	Unable to cut-in due to electrical fault alarm
OIL	PDPP1 Unit 5	5	07/31/2024 10:53	08/01/2024 1:00	1	Forced Outage	unable to cut-in due to excessive water leak at cylinder 12
OIL	BDPP Unit 4	4	07/31/2024 14:11	08/01/2024 15:20	1	Forced Outage	Low exhaust gas temperature at cylinder no. 6.
OIL	PDPP3 H	13	08/02/2024 13:02	08/04/2024 10:20	2	Forced Outage	Abnormal sound at lube oil pump
OIL	PB104 U4	8	08/03/2024 3:55	08/05/2024 1:51	2	Forced Outage	Excessive sea water leak at turbocharger right side.
OIL	PB104 U2	7	08/07/2024 9:18	08/12/2024 9:41	5	Forced Outage	Turbocharger left side abnormal sound and high EGT at left bank.
OIL	PDPP1 Unit 5	5	08/08/2024 9:43	08/11/2024 18:43	3	Forced Outage	Sudden Erratic EGT on various cylinders
OIL	BDPP Unit 2	4	08/09/2024 21:20	08/16/2024 21:54	7	Forced Outage	Unable to cut in due to severe water leak at B bank turbocharger gas inlet casing.
OIL	PDPP1 Unit 5	5	08/11/2024 21:21	08/12/2024 19:08	1	Forced Outage	High main bearing temperature cylinder 3
OIL	PDPP3 C	12	08/12/2024 12:13	08/15/2024 10:00	3	Forced Outage	Emergency cut-out due to abnormal sound of turbo charger B-bank.
OIL	PB104 U4	8	08/12/2024 18:16	08/13/2024 15:07	1	Forced Outage	Busted expansion bellows along cylinder 1R.
OIL	BDPP Unit 4	4	08/12/2024 20:26	08/13/2024 10:33	1	Forced Outage	Unable to cut-in due to defective 125VDC breaker.
OIL	PDPP1 Unit 5	5	08/12/2024 21:01	08/14/2024 8:25	2	Forced Outage	Emergency cut-out due to erratic exhaust gas temperature at various cylinders.
OIL	PDPP1 Unit 2	5	08/13/2024 18:23	08/14/2024 0:09	1	Forced Outage	emergency stop due to erratic generator load
OIL	PB104 U4	8	08/13/2024 23:09	08/14/2024 6:10	1	Forced Outage	Busted expansion bellows at cylinder 4L.
OIL	PB104 U2	7	08/14/2024 8:56	08/15/2024 9:10	1	Forced Outage	UNABLE TO CUT IN DUE TO EXCESSIVE FRESH WATER LEAK AT CYLINDER NO. 6L.
OIL	PDPP1 Unit 3	5	08/15/2024 11:38	08/18/2024 15:14	3	Forced Outage	Affected by tripping of OCB 23PAB
OIL	PB104 U2	7	08/15/2024 14:26	08/16/2024 8:21	1	Forced Outage	Busted expansion bellows at cylinder 8L.
OIL	PDPP1 Unit 2	5	08/15/2024 18:40	08/16/2024 22:07	1	Forced Outage	emergency out due to loss of lube oil flashing at turbo charger A-bank
OIL	CPPC 10	6.5	08/17/2024 0:01			Maintenance Outage	Generator Servicing 18K Hours ECD September 3 2024
OIL	CPPC 10	6.5	08/17/2024 0:01			Planned Outage	Generator Servicing 18K Hours ECD September 3 2024
OIL	PDPP3 E	12	08/17/2024 19:45	08/20/2024 10:10	3	Forced Outage	Emergency cut-out due to HT water leak at end frame liner of cylinder A6
OIL	TPC (Carmen) U4	10	08/19/2024 0:00	08/24/2024 0:00	5	Planned Outage	Annual PMS per GOMP
OIL	TPC (Carmen) U3	10	08/19/2024 7:25	08/20/2024 0:01	1	Forced Outage	34.5KV Toledo-Carmen Line 2 PMS
OIL	TPC (Carmen) U2	10	08/19/2024 7:25	08/20/2024 0:01	1	Forced Outage	34.5KV Toledo-Carmen Line 2 PMS

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Visayas							
OIL	TPC (Carmen) U1	10	08/19/2024 7:25	08/20/2024 0:01	1	Forced Outage	34.5KV Toledo-Carmen Line 2 PMS
OIL	PDPP1 Unit 2	5	08/20/2024 0:01	08/22/2024 0:00	2	Maintenance Outage	conduct 10500RH PMS
OIL	PDPP3 C	12	08/21/2024 17:34	08/22/2024 0:07	1	Forced Outage	Unable to start due to failure to reset engine blocking
OIL	PDPP1 Unit 3	5	08/22/2024 0:01	08/24/2024 0:03	2	Maintenance Outage	Advance implementation of 6500RH PMS
OIL	PDPP1 Unit 2	5	08/22/2024 0:01	08/23/2024 22:08	1	Forced Outage	Extended 10500RH Preventive Maintenance Schedule
OIL	PB104 U3	7	08/22/2024 8:19	08/23/2024 11:13	1	Forced Outage	Excessive exhaust gas leak at cylinder 6R.
OIL	PDPP3 E	12	08/22/2024 16:47	08/23/2024 7:15	1	Forced Outage	Exhaust gas leakage at cyl A5 to A8
OIL	TPC (Carmen) U4	10	08/24/2024 0:00			Forced Outage	Detached connecting rods and crank shaft for machining
OIL	Isabel 3	15.1	08/25/2024 22:52			Forced Outage	Transformer out. Sector isolated
OIL	Isabel 2	10.1	08/25/2024 22:52			Forced Outage	Transformer out. Sector isolated
OIL	Isabel 1	10	08/25/2024 22:52			Forced Outage	Transformer out. Sector isolated
SOLR	Islasol 2	27.2	07/26/2024 18:23	07/27/2024 5:02	1	Forced Outage	Offline due to de-energization of their 35MVA Transformer to conduct replacement of their 13.8kV Main Vacuum Breaker.
SOLR	Cadiz	105	07/30/2024 18:49	07/31/2024 5:24	1	Maintenance Outage	Helios to conduct preventive maintenance of Helios owned and maintained HVE and metering equipment at Helios and Cadiz SS.
SOLR	San Carlos Sun	46.8	08/15/2024 19:34	08/16/2024 6:27	1	Planned Outage	To conduct maintenance of HV Transformers MV Station and other critical systems of the plant. Planned activity under GOMP.
SOLR	San Carlos Sun	46.8	08/16/2024 19:27	08/17/2024 1:34	1	Planned Outage	To conduct maintenance of HV Transformers MV Station and other critical systems of the plant. Planned activity under GOMP.
SOLR	San Carlos Sun	46.8	08/17/2024 19:19	08/18/2024 3:53	1	Planned Outage	To conduct maintenance of HV Transformers MV Station and other critical systems of the plant. Planned activity under GOMP.
SOLR	San Carlos Sun	46.8	08/18/2024 10:48			Forced Outage	Emergency shutdown at 1048H due to Resetting of North & South Line Power Circuit Breaker due to low insulation resistance.
SOLR	Cadiz	105	08/24/2024 17:37	08/25/2024 0:27	1	Forced Outage	Offline due to planned shutdown of 138kV Cadiz-Helios Line to install 138kV Current Transformer (7-02CT03CAD & 7-02CT05CAD) at Cadiz SS.
WIND	SLWind	54	08/15/2024 22:05	08/16/2024 4:00	1	Forced Outage	Isolated due to line fault along 69kv Buenavista - GWC (Sn. Lorenzo) T/L.
WIND	SLWind	54	08/21/2024 21:49	08/22/2024 4:31	1	Forced Outage	AUTOTRIPPED - transformer pressure relief
Mindanao							
BIOF	CSC U1	3.4	03/11/2024 23:59			Forced Outage	Shutdown from Testing and Commissioning Phase. (Forced Outage)
BIOF	CSC U1	3.4	03/11/2024 23:59			Forced Outage	Shutdown from Testing and Commissioning Phase. Forced Outage
BIOF	BFI BIOMASS U1	5.7	06/29/2024 17:00			Forced Outage	Repair works along feeding system is ongoing. (Forced Outage)
BIOF	LSK U1	15	07/25/2024 7:00	07/30/2024 7:07	5	Forced Outage	Extended GOMP with original GOMP schedule from July 10-25 2024.
BIOF	LSK U1	15	07/25/2024 7:00			Forced Outage	Extended GOMP with original GOMP schedule from July 10-25 2024.
BIOF	14TACUR	6	07/25/2024 9:02	08/05/2024 12:38	11	Forced Outage	Plant tripped-Off due to clogged feed stock because of fuel moisture and very low feed stock available.
BIOF	BBU U0	12.4	08/01/2024 21:27	08/04/2024 21:30	3	Forced Outage	Forced Outage. Trouble at MVSG Feeders. (OMC Outage)
BIOF	BBU U0	12.4	08/11/2024 15:25	08/12/2024 3:30	1	Forced Outage	Loss of comm. signal that caused operation compromised. (Unplanned Outage)

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Mindanao							
BIOF	LIBPOWR U1	6	08/14/2024 0:00	08/17/2024 16:04	3	Forced Outage	Forced outage due to ash handling system economizer and air pre heater leakage arresting work.
COAL	MALITA 2	150	07/07/2024 3:53	07/26/2024 11:11	19	Planned Outage	PMS (GOMP).
COAL	STE U2	116	07/08/2024 0:00	08/01/2024 3:21	24	Planned Outage	PMS (GOMP). ETC August 2 2024.
COAL	STE U2	116	07/08/2024 0:00			Planned Outage	PMS (GOMP). ETC August 2 2024 at 2359H.
COAL	FMP U3	135	07/19/2024 12:18	07/26/2024 10:04	7	Forced Outage	Emergency shutdown due to boiler tube leak. (Unplanned Outage)
COAL	MCC U3	55	07/26/2024 11:55	08/05/2024 15:04	10	Forced Outage	For rectification of ESV steam leak. (Unplanned outage)
COAL	MCC U3	55	07/26/2024 11:55			Forced Outage	For rectification of ESV steam leak. (Unplanned outage)
COAL	SMF2 U2	118.5	07/27/2024 23:58	07/29/2024 7:32	2	Forced Outage	Cut-in from Emergency Shutdown. Steam leak at the Steam Drum Sight Glass. ETC July 29 2024 at 0600H.
COAL	SMF2 U2	118.5	07/27/2024 23:58			Forced Outage	Cut-in from Emergency Shutdown. Steam leak at the Steam Drum Sight Glass. ETC July 29 2024 at 0600H.
COAL	DCPP Unit 2	150	07/31/2024 10:26			Forced Outage	Forced outage. Indication Boiler tube leak. ETC August 9 2024.
COAL	DCPP Unit 2	150	07/31/2024 10:26			Forced Outage	Forced outage. Indication Boiler tube leak. ETC August 5 2024.
COAL	DCPP Unit 2	150	07/31/2024 10:26	08/09/2024 5:55	9	Forced Outage	Forced outage. Indication Boiler tube leak.
COAL	MCC U2	55	08/11/2024 0:00	08/15/2024 23:00	4	Forced Outage	PMS (Non-GOMP) ETC August 16 2024.
COAL	MCC U2	55	08/11/2024 0:00			Forced Outage	PMS NON-GOMP ETC August 16 2024
COAL	PPE U1	20	08/12/2024 3:41			Forced Outage	Emergency shutdown due to clogging of slag cooler. (Unplanned Outage)
COAL	DCPP Unit 2	150	08/14/2024 19:13	08/19/2024 11:21	5	Forced Outage	Emergency shutdown due to suspected boiler tube leak. ETC - August 19 2024
COAL	DCPP Unit 2	150	08/14/2024 19:13			Forced Outage	Emergency shutdown due to suspected boiler tube leak. No ETC.
GEO	MTAPO 3	3.6	08/06/2024 0:02	08/11/2024 17:45	5	Planned Outage	PMS (GOMP). ETC 08/11/2024 2359
GEO	MTAPO 3	3.6	08/14/2024 21:06	08/15/2024 10:41	1	Forced Outage	Tripped again with Generator lock out indication. (Unplanned Outage)
GEO	MTAPO 3	3.6	08/15/2024 10:49			Forced Outage	Auto-tripped caused by feed pump pressure drop problem. (Unplanned Outage)
GEO	MTAPO 2	50	08/17/2024 5:01	08/22/2024 0:24	5	Forced Outage	Maintenance of GAS removal system. PMS Non-GOMP. ETC August 21 2024 2359Hz. Declared available at 0024H (houseload operation not yet synched).
GEO	MTAPO 2	50	08/17/2024 5:01			Forced Outage	Maintenance of GAS removal system. PMS Non-GOMP. ETC August 21 2024 2359zH.
HYD	SBL B U1	14	06/24/2024 2:01	08/17/2024 22:33	54	Forced Outage	Emergency shutdown due to high temperature of bearing. (Forced Outage)
HYD	MHP U0	0.5	06/30/2024 10:27			Forced Outage	Plant shutdown due to SOCOTECO I Recloser Trip (OMC Outage).July 2 2024 Plant still unable to synchronize due to their Defective (ACR) Auto Circuit Recloser (Corrective Maintenance on process).
HYD	AG6 U5	43.8	07/03/2024 9:01	08/02/2024 23:59	30	Forced Outage	PMS (Non-GOMP).
HYD	AG6 U5	43.8	07/03/2024 9:01			Forced Outage	PMS (Non-GOMP) ETC August 3 2024
HYD	AG6 U5	43.8	07/03/2024 9:01			Forced Outage	PMS(Non-GOMP) ETC August 3 2024
HYD	Talomo TL1 U2	0.5	07/24/2024 1:24	08/01/2024 16:59	8	Forced Outage	Plant shutdown due to IWS(Insufficient Water Supply). (OMC Outage)
HYD	EUROHYDRO 1	2.6	07/28/2024 8:05			Forced Outage	Plant on shutdown. Generating Units 1 & 2 were totally damaged by landslide. (Unplanned Outage)

Outage Summary

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Day/s)	Outage Type	Remarks
Mindanao							
HYD	EUROHYDRO 1	2.6	07/28/2024 8:05			Forced Outage	Plant shutdown due to repair of U1 & U2 conveyance Pipeline affected by landslide & correction works on Excitation system. (Unplanned Outage)
HYD	EUROHYDRO 1	2.6	07/28/2024 8:05			Forced Outage	Plant shutdown due to conduct plant maintenance(repair unit 1 & 2 conveyance Pipeline due to landslide and Excitation system repair)
HYD	PG4 U2	75	07/30/2024 8:03			Maintenance Outage	PMS (Non-GOMP). ETC August 3 2024.
HYD	PG4 U2	75	07/30/2024 8:03	08/03/2024 8:03	4	Forced Outage	PMS (Non-GOMP). ETC August 3 2024.
HYD	AG2 U3	60	08/01/2024 8:03	08/13/2024 17:19	12	Planned Outage	PMS (GOMP).
HYD	AG2 U3	60	08/01/2024 8:03			Planned Outage	PMS (GOMP). ETC August 15 2024.
HYD	AG6 U5	43.8	08/02/2024 23:59	08/03/2024 3:30	1	Forced Outage	Original ETC at August 2 2024.
HYD	Talomo TL1 U2	0.5	08/03/2024 16:14	08/08/2024 23:33	5	Forced Outage	Plant shutdown due to IWS. (OMC Outage)
HYD	PG4 U3	75	08/05/2024 8:03			Planned Outage	PMS (GOMP). ETC September 3 2024.
HYD	PG4 U3	75	08/05/2024 8:03			Planned Outage	PMS (GOMP). ETC 09/03/2024 2359
HYD	Talomo TL1 U1	0.5	08/08/2024 23:33	08/09/2024 19:37	1	Forced Outage	Plant shutdown due to IWS. (OMC Outage)
HYD	Talomo TL1 U2	0.5	08/10/2024 15:02			Forced Outage	Plant shutdown due to IWS. (OMC Outage)
HYD	AG6 U1	34.5	08/13/2024 17:03	08/14/2024 17:18	1	Forced Outage	Extended Maintenance outage. PMS Non-GOMP.
HYD	MN1 U3	16.2	08/15/2024 0:04	08/16/2024 10:20	1	Forced Outage	Forced Outage. Indication DRE trip
HYD	MN1 U1	6.6	08/15/2024 0:04	08/16/2024 9:52	1	Forced Outage	Forced Outage. Indication DRE trip.
HYD	13NABUN	3	08/18/2024 6:30	08/19/2024 16:00	1	Forced Outage	Emergency shutdown due to removal of based varistor transformer silica gel damage casing replacement.
HYD	FGA U0	1.6	08/23/2024 10:05			Forced Outage	Plant Shutdown due technical problem at control panel.
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	EEI U2	4.6	07/18/2024 13:05	08/11/2024 10:31	24	Forced Outage	Declared unavailable. Indication High exhaust gas temperature. (Forced Outage). No ETC yet.
OIL	EEI U2	4.6	07/18/2024 13:05			Forced Outage	Declared unavailable. Indication High exhaust gas temperature. (Forced Outage)
OIL	TM1 U1	49	08/12/2024 0:01	08/14/2024 23:20	2	Planned Outage	PMS (GOMP). ETC August 15 2024
OIL	TM1 U1	49	08/12/2024 0:01			Planned Outage	PMS(GOMP). ETC August 15 2024
OIL	WMPC Unit 4	10.2	08/14/2024 14:57	08/16/2024 16:00	2	Forced Outage	Tripped due to B Bank Turbo Charger turbine problem. (Forced Outage)
OIL	WMPC Unit 4	10.2	08/14/2024 14:57			Forced Outage	Tripped due to Bank Turbo Charger turbine problem. (Forced Outage)
OIL	WMPC Unit 4	10.2	08/14/2024 14:57			Forced Outage	Tripped while running as RPS B Bank Turbo Charger turbine side shut pulse alarm.

Congestion

Equipment Name	Trading Intervals	Percent of Time
4MAAS_7UBA1	2055	23%
8BARO_8DIN1	419	5%
8BARO_8DIN2	225	3%
LEYTE_TO_CEBU	159	2%
12PLACE_TR2	146	2%
7UBAY_TR1	122	1%
1EHVSJ_TR5	99	1%
6KABAN_TR2	79	1%
1HERM_1MAL1	72	1%
AG2_TO_BALO	53	1%
4CLBYOG_TR1	50	1%
3TAYAB_TR2	48	1%
3TAYAB_TR1	41	0.5%
11VILL_11JAS1	26	0.3%
4CLBYOG_TR2	18	0.2%
3DASMA_TR3	15	0.2%
1MEXI_1HER2	11	0.1%
1DUHAT_TR1	7	0.1%
5COLO_5KSP2	3	0.03%
1MEXI_1HER1	3	0.03%
6PGPP1_TR3	2	0.02%
6PGPP1_TR2	2	0.02%
11JASA_12BUT1	2	0.02%
14TACUR_TR3	2	0.02%
3TAYA_3MBA2	1	0.01%
3MKBNB_TR3	1	0.01%
6KABAN_TR1	1	0.01%
4ORM138_TR1	1	0.01%
1HERM_1DUH1	1	0.01%

CAPACITY ON OUTAGE

Calculated for each 5-min interval as the sum of the capacity of all generating units on outage, which are further distinguished by plant type and category. The generating unit/s on outage and categories of outage are based on the SO's daily operations report. Cited below are the outage categories as defined in ERC Resolution No. 21, Series of 2016.

<i>Deactivated Shutdown</i>	- refers to a condition where a generating unit is unavailable for service for an extended period of time for reasons not related to equipment and inactive for more than 60 days.
<i>Forced</i>	- An outage that requires immediate removal of a unit from service, another outage state, or a reserve shutdown state.
<i>Maintenance</i>	- An outage that does not require immediate removal from the In-Service state but requires a Unit to be removed from the available state before the next planned outage. This is scheduled at least seven (7) days in advance.
<i>Planned</i>	- The state in which a Unit is unavailable due to inspection, testing, preventive maintenance or overhaul. A Planned Outage is scheduled with a pre-determined duration and is coordinated with the System Operator. The Planned Outage of a Unit shall be reflected in the Grid Operating and Management Program (GOMP).

DEMAND

Calculated for each 5-minute trading interval as the sum of the real time dispatch (RTD) schedule of all load resources plus regional losses.

EFFECTIVE SUPPLY

Calculated for each 5-minute trading interval as the sum of the offered capacity of all scheduled generators considering their offered ramp rates, nominated loading level of nonscheduled generators and projected output of preferential dispatch generators, adjusted for any over-riding constraints imposed by the System Operator (SO), and reserve offers. Output of generators on testing and commissioning were considered based on the over-riding constraints imposed by the SO.

HERFINDAHL-HIRSCHMAN INDEX (HHI)

It is a commonly accepted measure of market concentration that takes into account the relative size and distribution of participants in the market. The HHI is a number between 0 and 10,000, which is calculated as the sum of squares of the participant's market share. The HHI approaches zero when the market has very large number of participants with each having a relatively small market share. In contrary, the HHI increases as the number of participants in the market decreases, and the disparity in the market shares among the participants increases. The following are the widely used HHI screening numbers: (1) less than 1,500 - not concentrated; (2) 1,500 to 2,500 - moderately concentrated; and (3) greater than 2,500 - highly concentrated.

MARKET RESIDUAL SUPPLY INDEX (Market RSI)

The RSI is a dynamic continuous index measured as ratio of the available generation without a generator to the total generation required to supply the demand. The RSI is measured for each generator. The greater the RSI of a generator, the less will be its potential ability to exercise market power and manipulate prices, as there will be sufficient capacity from the other generators. In contrary, the lower the RSI, the greater the market power of a generator (and its potential benefit of exercising market power), as the market is strongly dependent on its availability to be able to fully supply the demand. In particular, a RSI greater than 100% for a generator means that the remaining generators can cover the demand, and in principle that generator cannot manipulate market price. On the other hand, a RSI less than 100% means that the generator is pivotal in supplying the demand.

The RSI for the whole market (Market RSI) is measured as the lowest RSI among all the generators in the market. A Market RSI less than 100% indicates the presence of pivotal generator/s

MARKET SHARE

The fraction of the total capacity or energy that a company or related group owns or controls in the market.

MAJOR PARTICIPANT GROUP

The grouping of generators by ownership or control.

NOMINATED CAPACITY

The available capacity declared by self-scheduled generators.

OFFERED CAPACITY

The available capacity declared by scheduled generators.

PIVOTAL SUPPLIER INDEX (PSI)

The pivotal supplier index is a binary variable (1 for pivotal and 0 for not pivotal) for each generator. The index identifies whether a generator is pivotal in supplying the demand. The PSI is calculated as the percentage of time that a generator is pivotal in a period (i.e. monthly).

POST MARKET RUN CALCULATION

Price adjustment after consideration of different pricing conditions such as AP, SPC, PSM, and PEN.

REGISTERED CAPACITY

The capacity registered by a generator with WESM.

REGISTERED CAPACITY (NET OF OUTAGE)

The capacity registered by a generator with WESM less capacity on outage.

RESERVE CATEGORIES

Regulating (RU and RD)

- Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal frequency caused by unpredicted variations in demand or generation output.

Contingency (FR)

- Synchronized generation capacity from Qualified Generating Units and Qualified Interruptible Loads allocated to cover the loss or failure of a synchronized generating unit or a transmission element of the power import from a circuit interconnection.

Dispatchable (DR)

- Generating Capacity that are readily available for dispatch in order to replenish the Contingency Reserves whenever a generating unit trips or a loss of a single transmissio

DISCLAIMER

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