



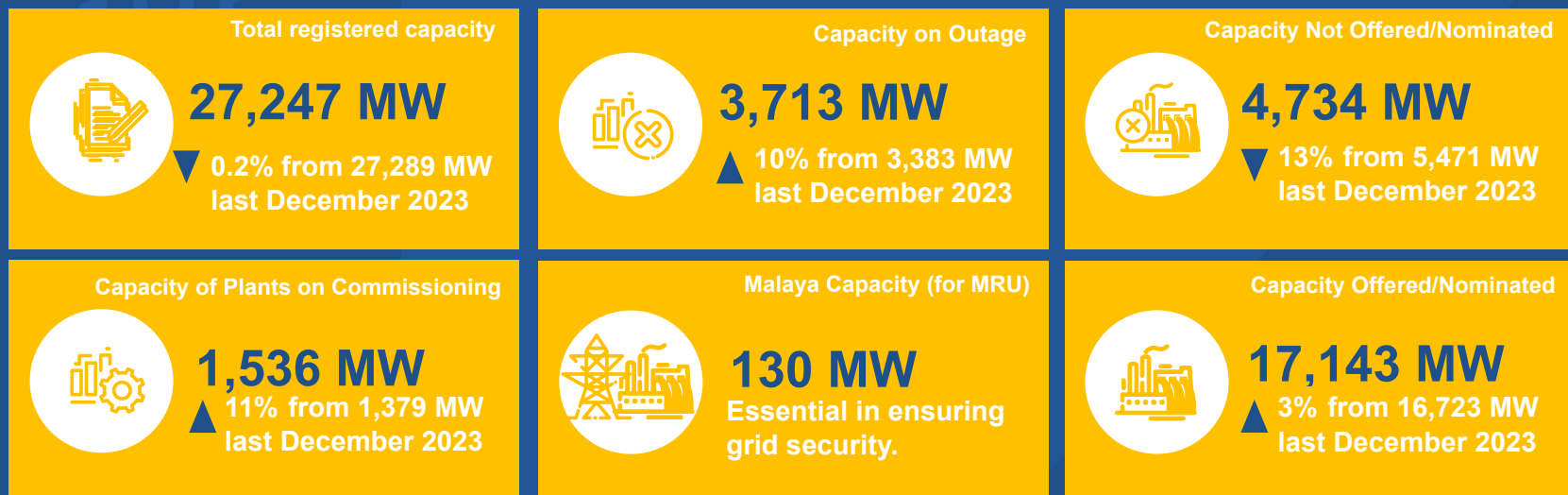
MONTHLY MARKET ASSESSMENT HIGHLIGHTS

26 December 2023 to 25 January 2024

SUMMARY OF OBSERVATIONS

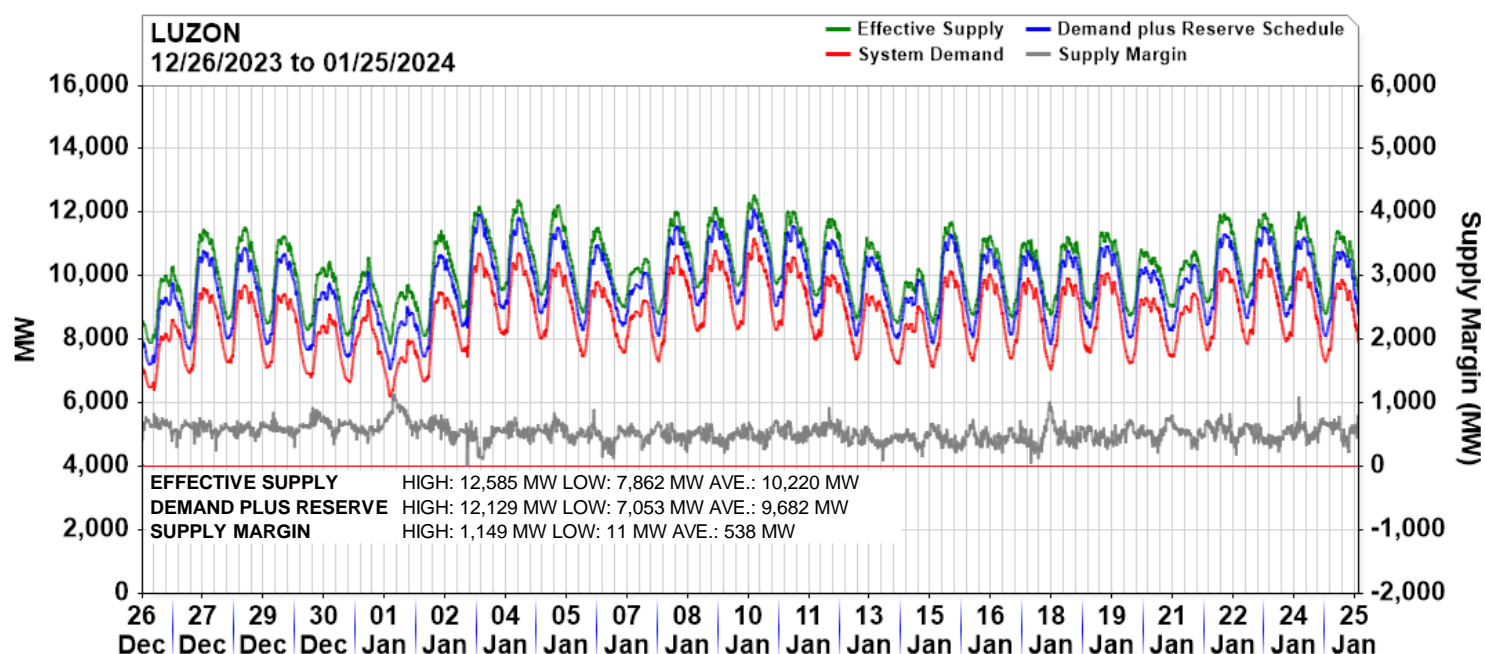
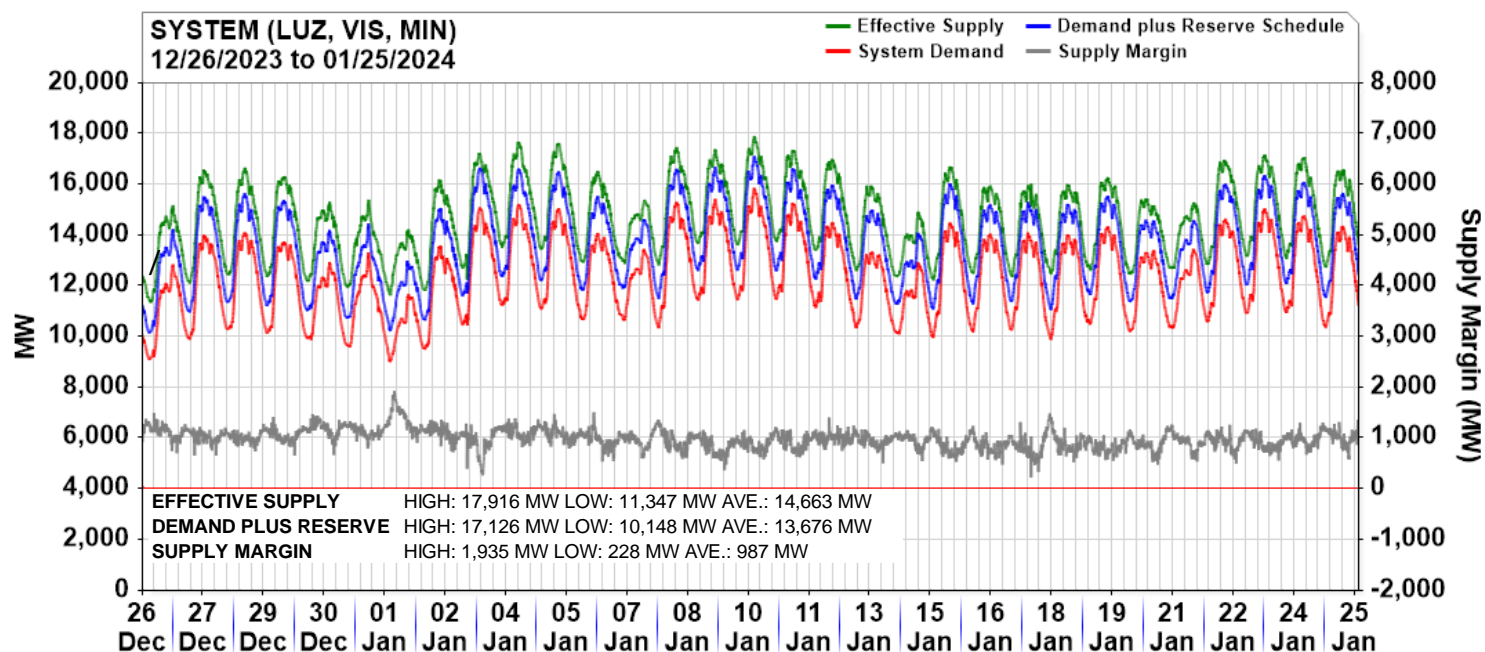
- **No Secondary Price Cap** recorded for the subject period.
- **Total power outage** in Panay sub-grid on 02 January 2024 due to the tripping of Bacolod – Barotac Viejo 138kV submarine cable which subsequently led to the declaration of Market Intervention (MI) that lasted until 05 January 2024.
- **System Operator declared Market Intervention in Visayas** on 27 December 2023 due to the implementation of Manual Load Dropping (MLD) to prevent overloading of Amlan-Samboan 138kV Line 1.
- Notable congestion(s):
 - Samboan-Amlan line 1 (Cebu-Negros submarine cable) was congested for 2,084 intervals, or equivalent to 23% of the time, brought about by plant outages in Negros and Panay.

AT A GLANCE



MARKET OUTCOME

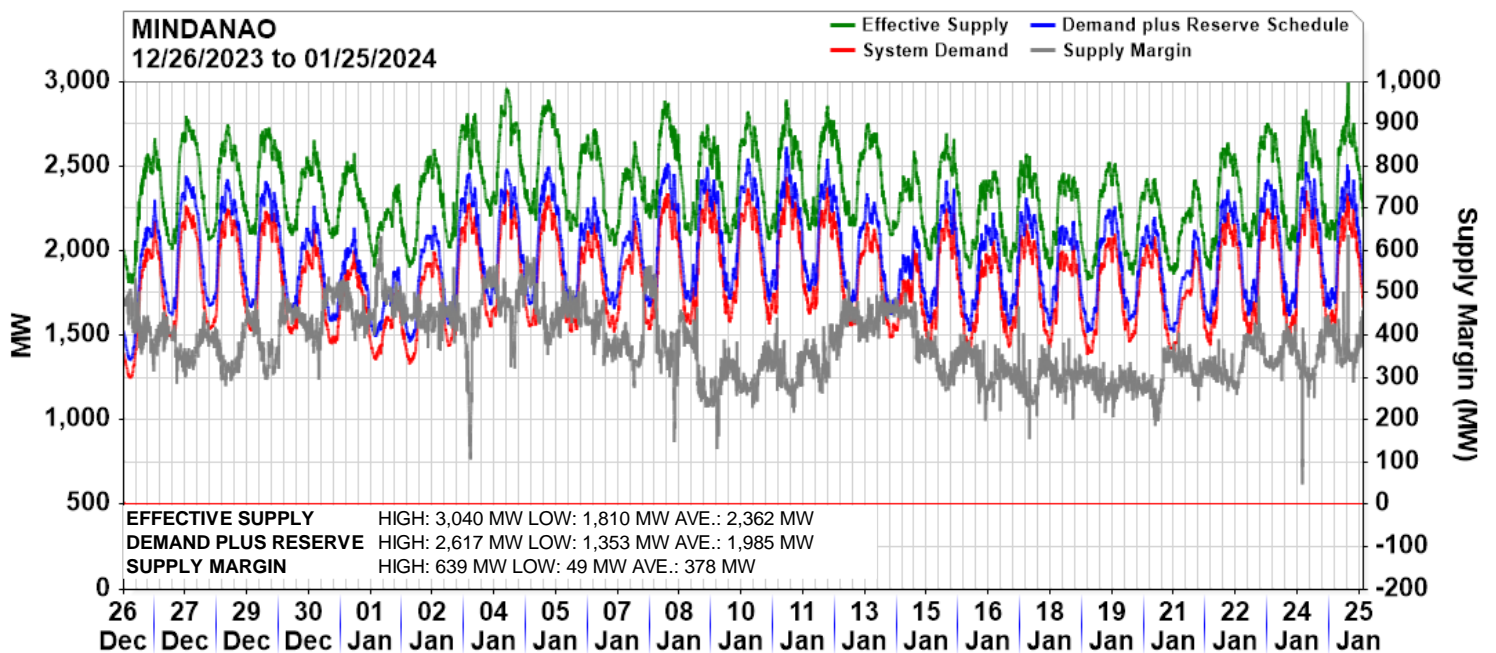
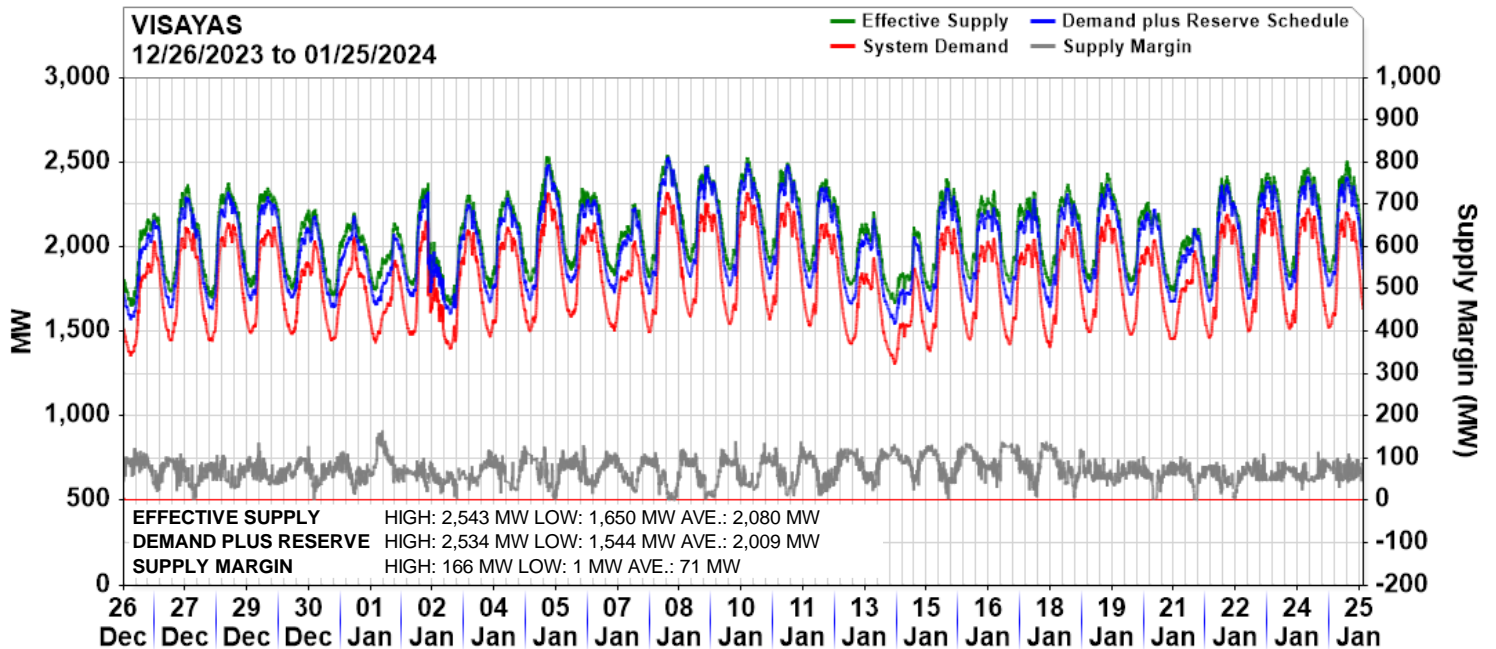
SUPPLY AND DEMAND



Notwithstanding the decline in the level of effective supply due to high level of capacities on outage, it was sufficient to meet the demand requirement, which was observed to have declined during the period. Moreso, improvement in supply margin was observed.

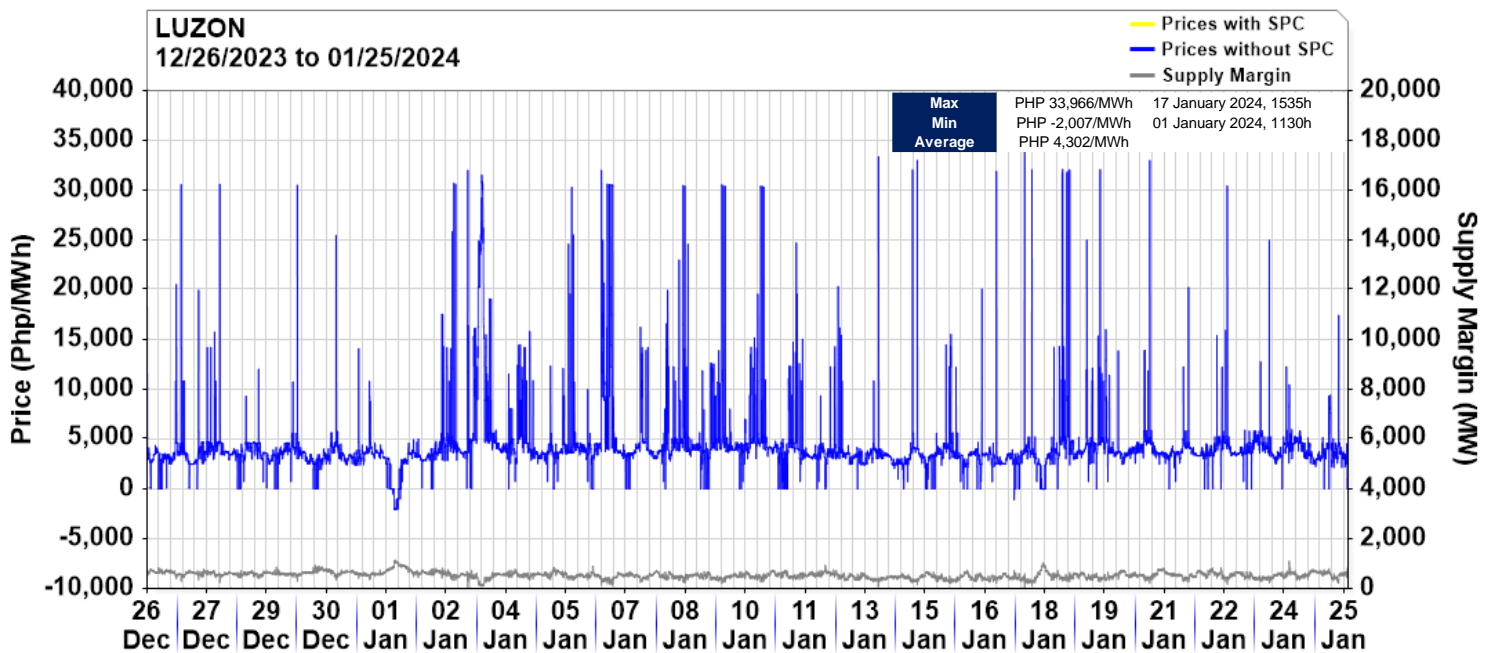
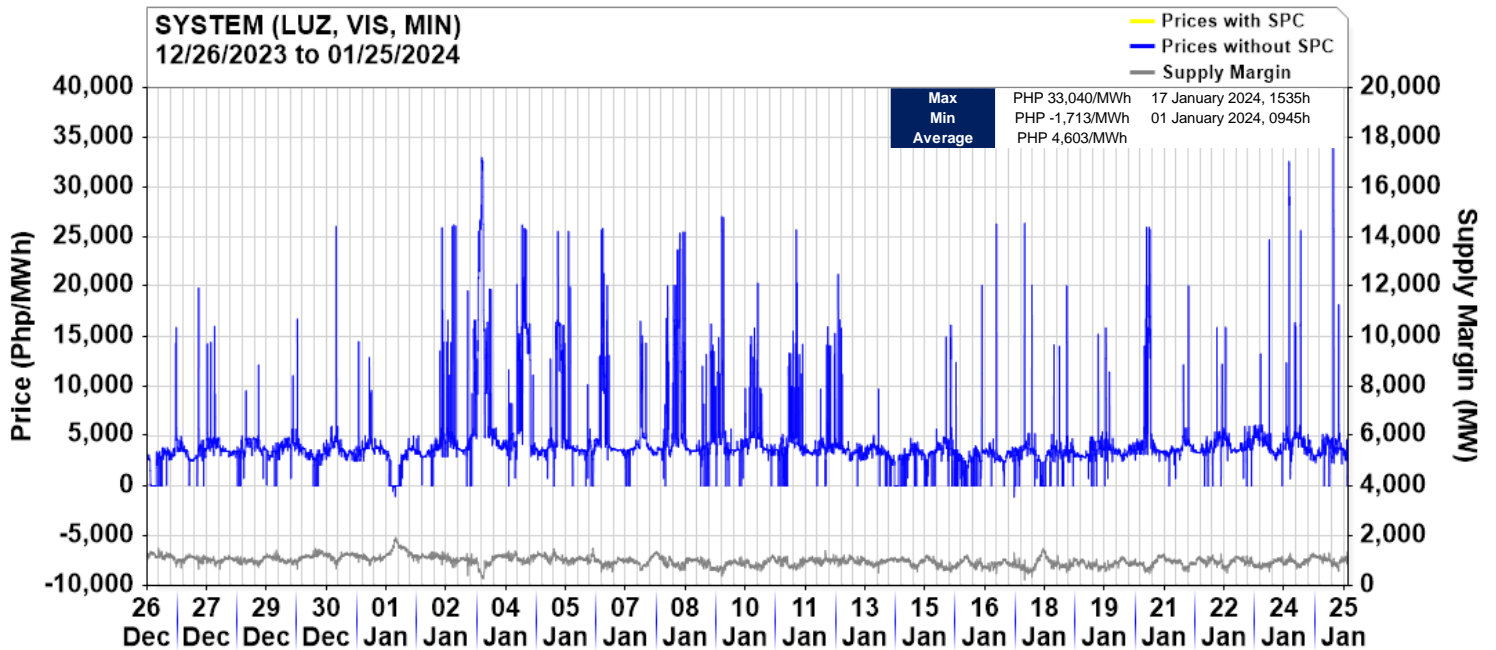
MARKET OUTCOME

SUPPLY AND DEMAND



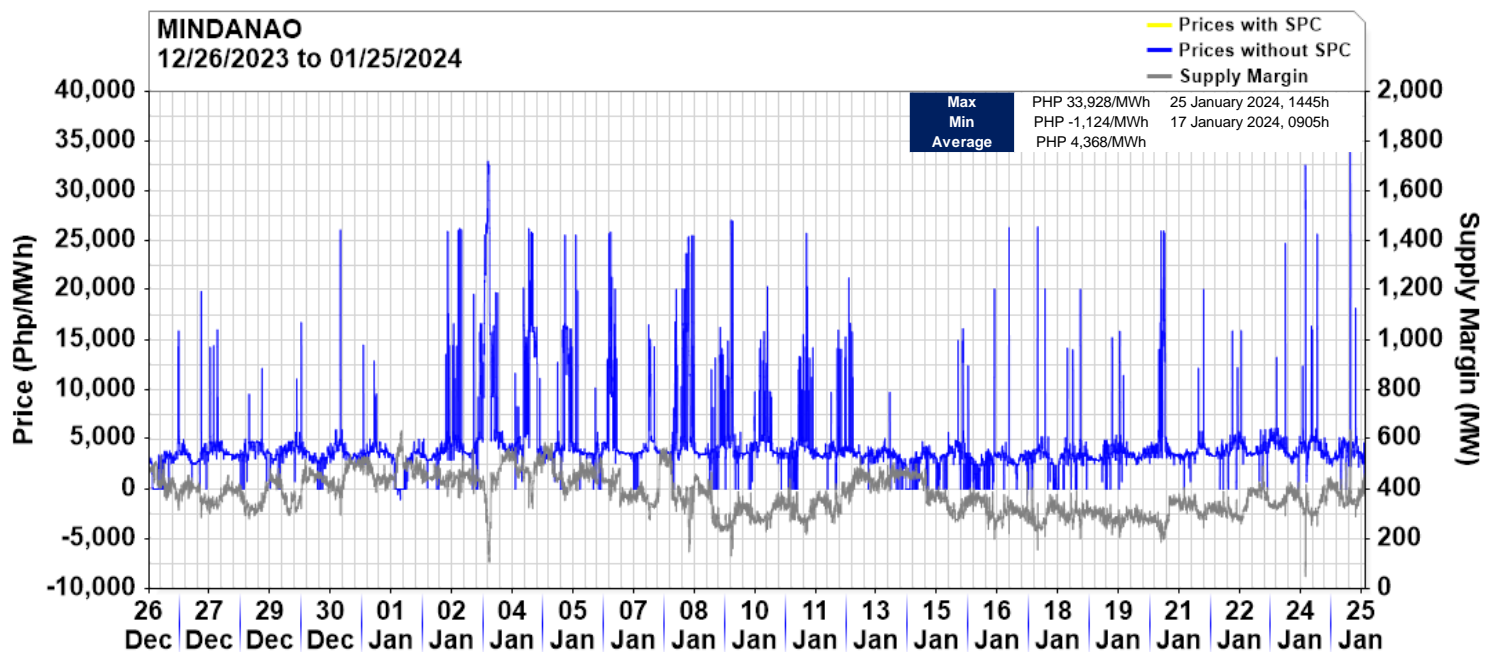
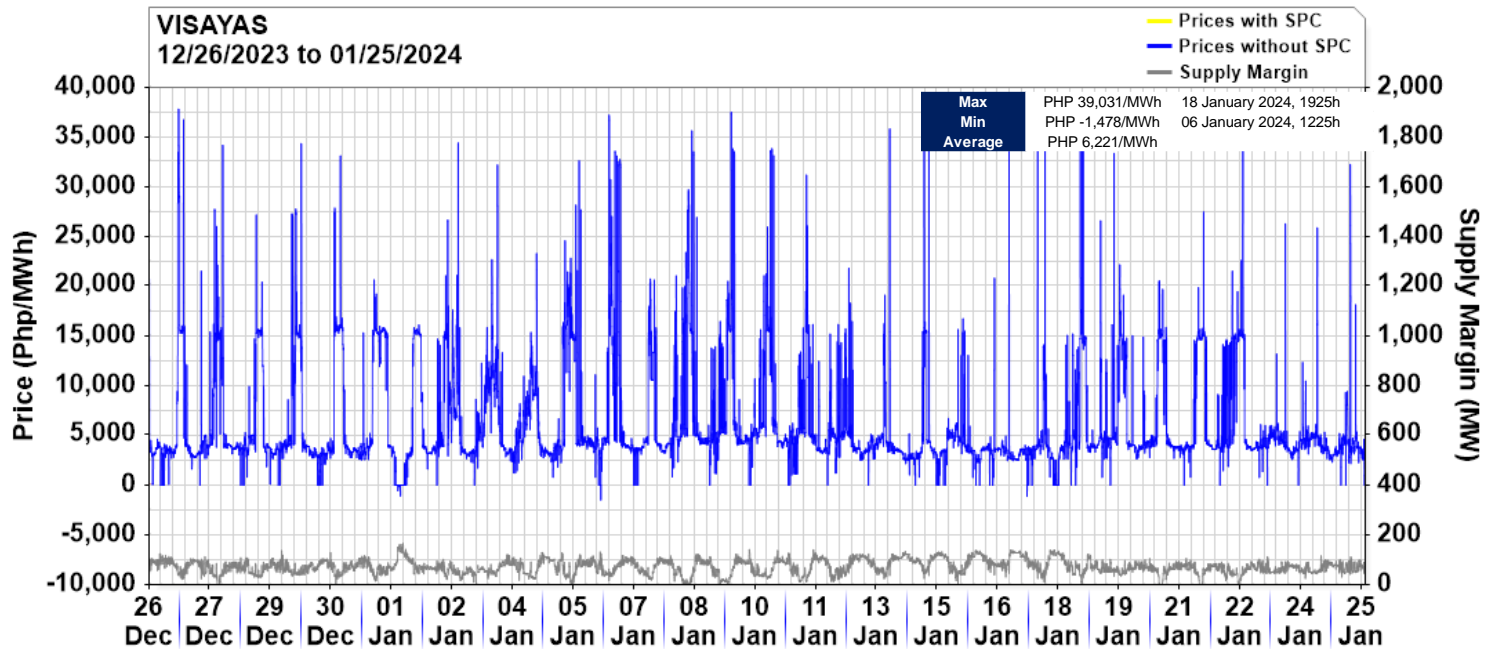
MARKET OUTCOME

MARKET PRICES



MARKET OUTCOME

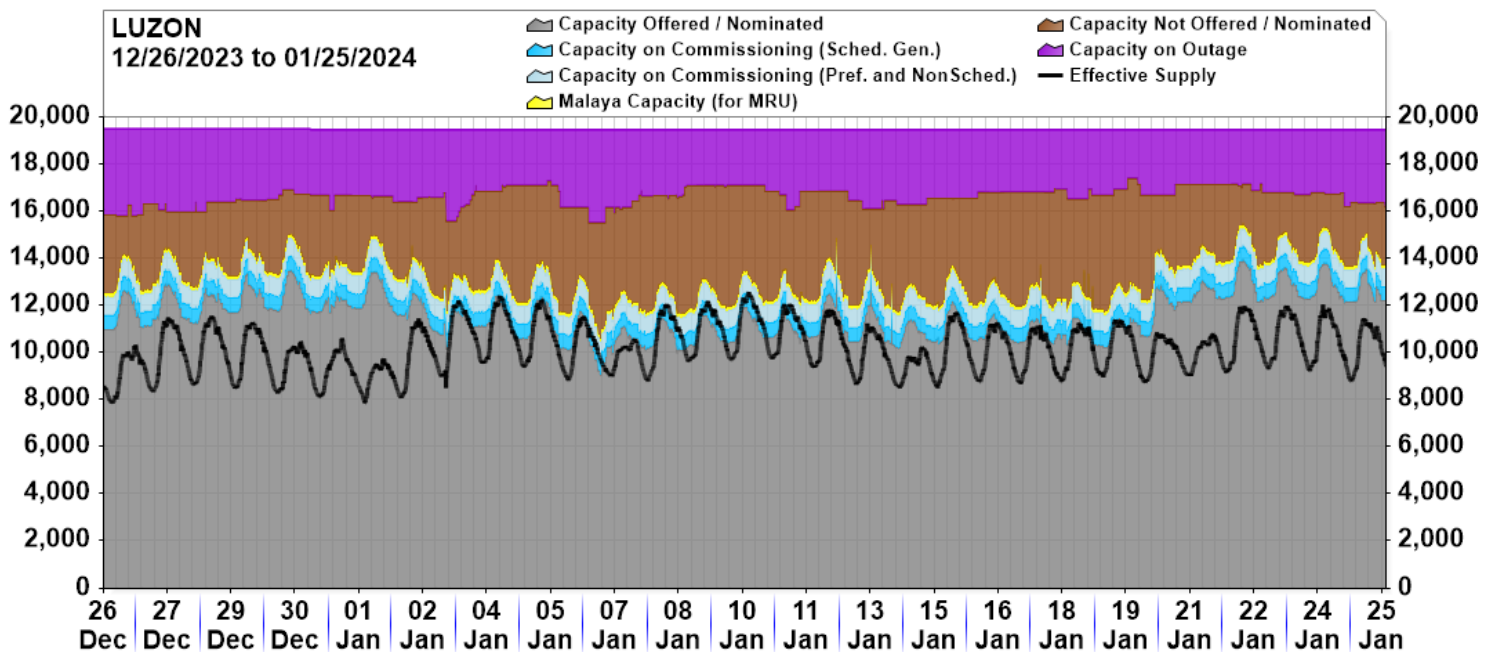
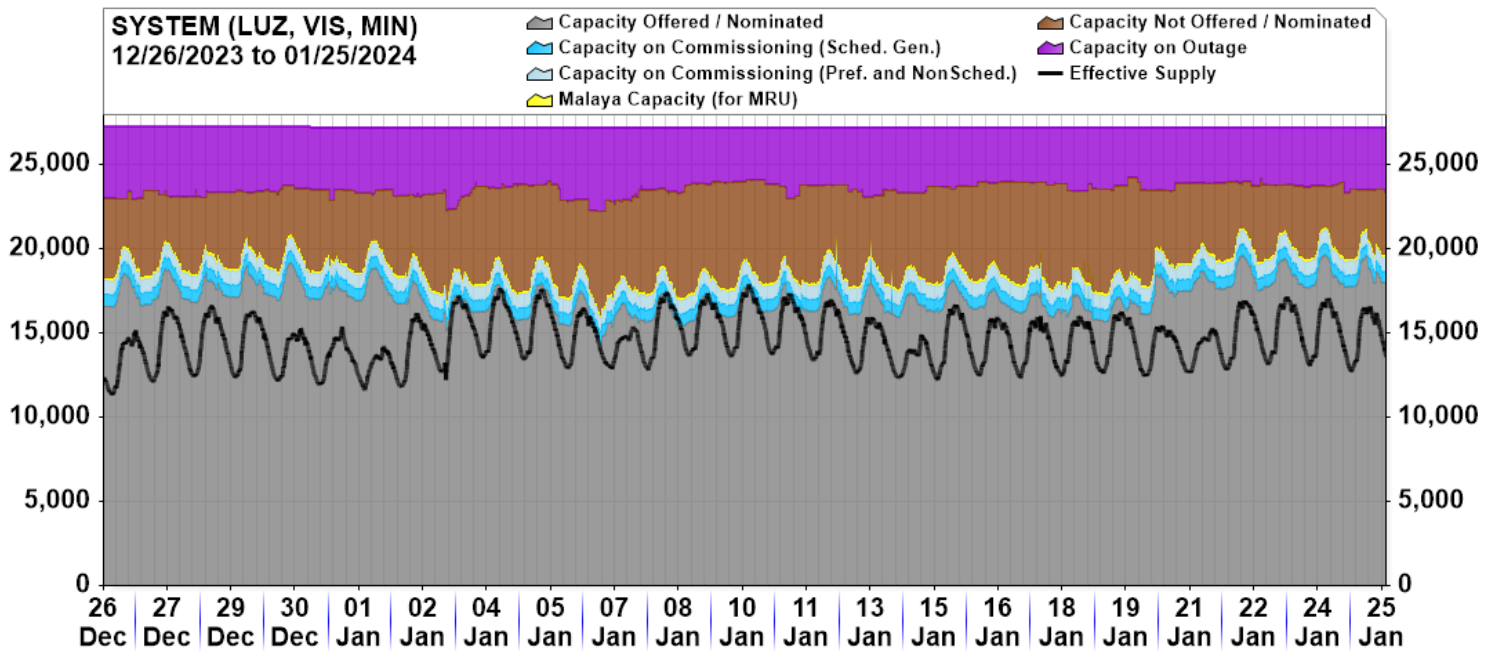
MARKET PRICES



There were noted instances of price spikes in Luzon, Visayas, and Mindanao regions, affected mainly by the availability of supply to meet the demand. Although it was noted that average prices, system-wide and regional, were relatively higher this month compared to last month, there were no noted issuances of system-wide or regional secondary price cap.

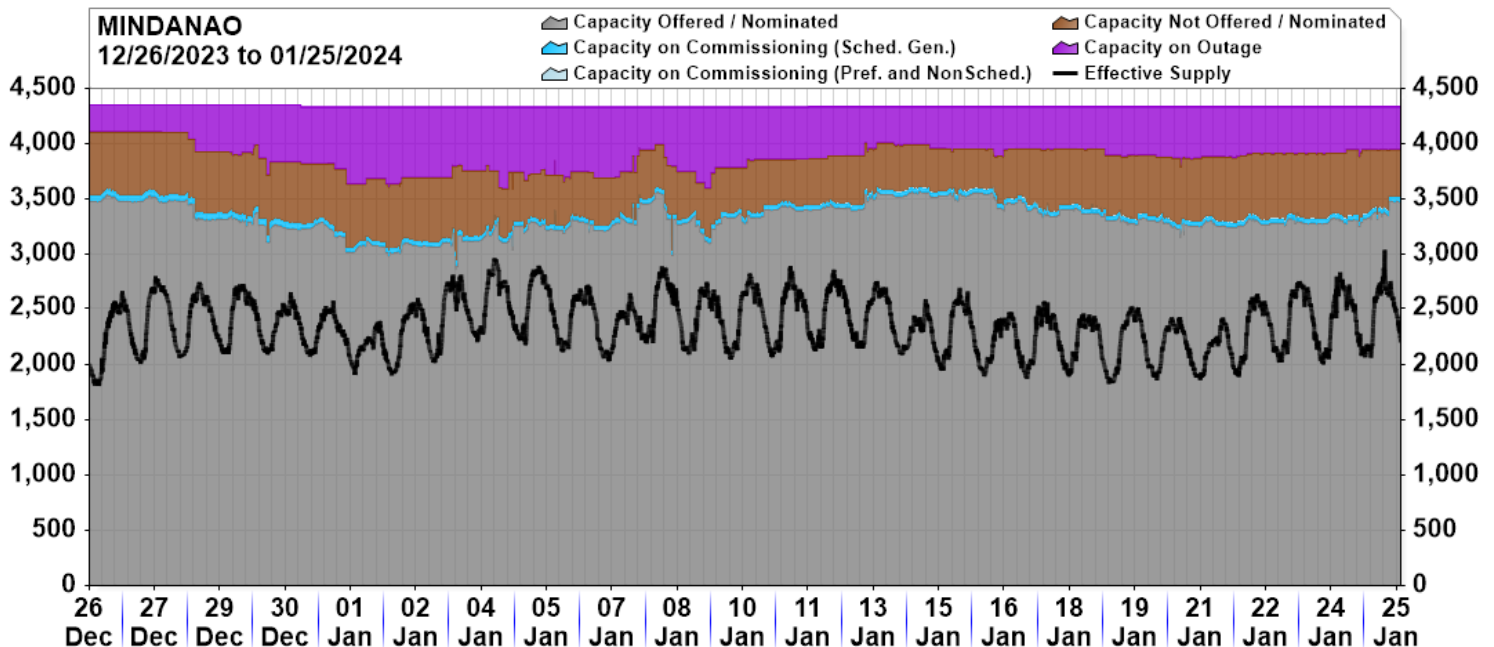
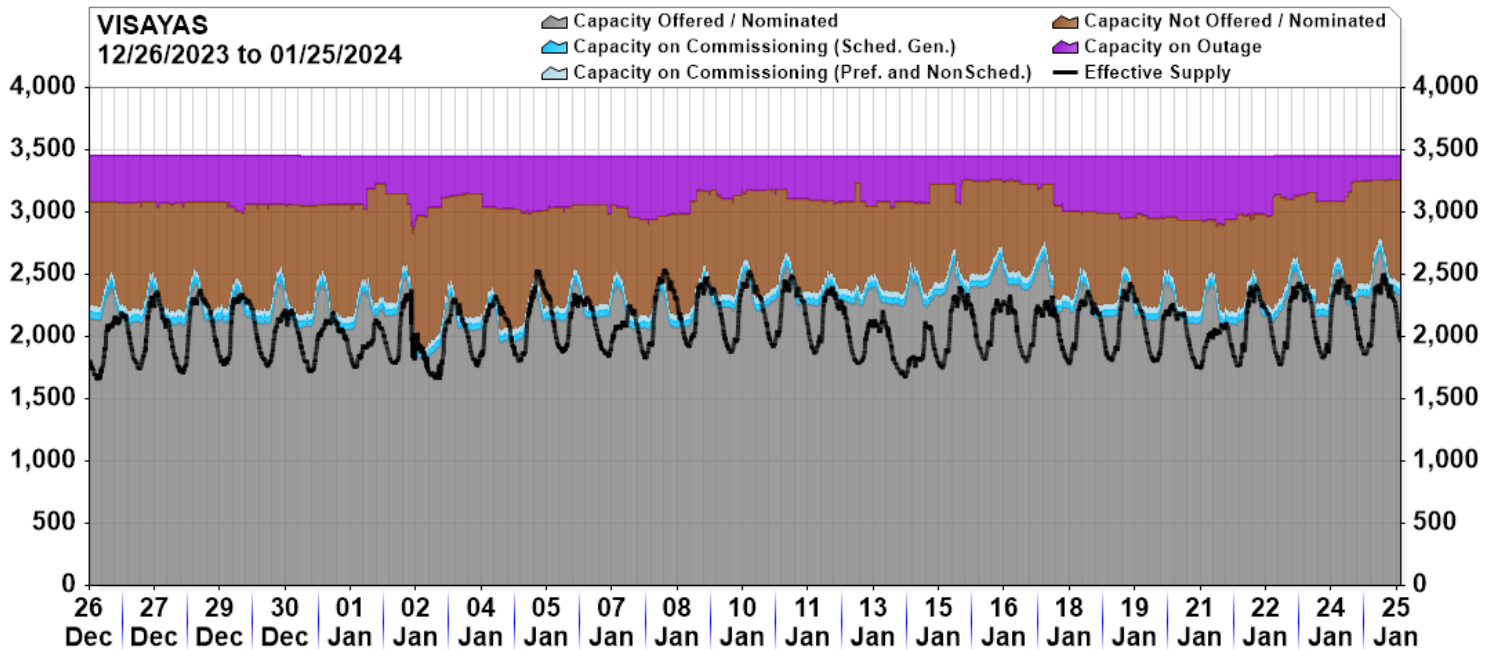
MARKET OUTCOME

CAPACITY PROFILE



MARKET OUTCOME

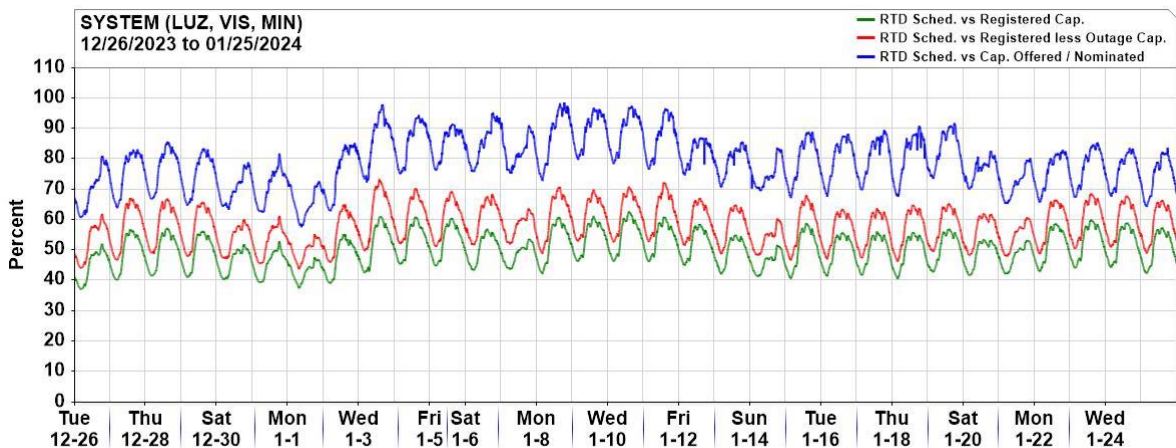
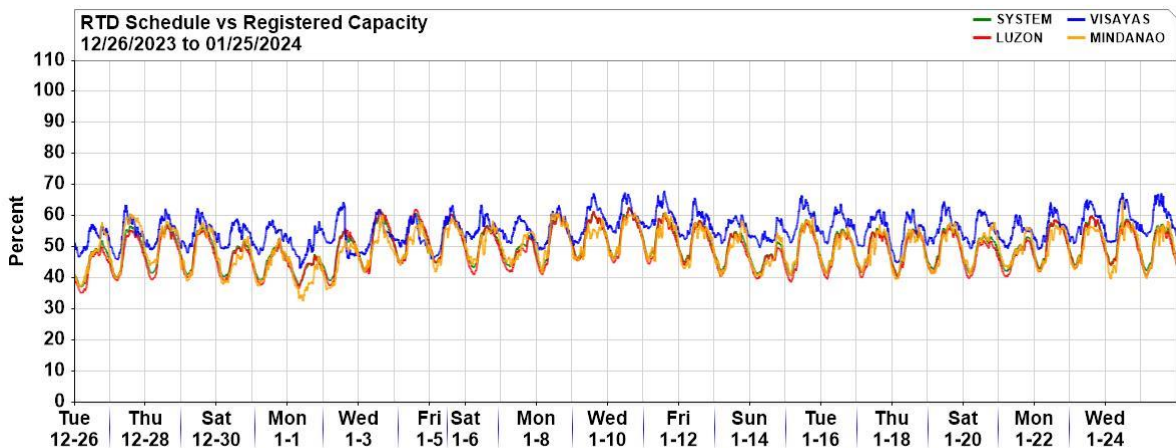
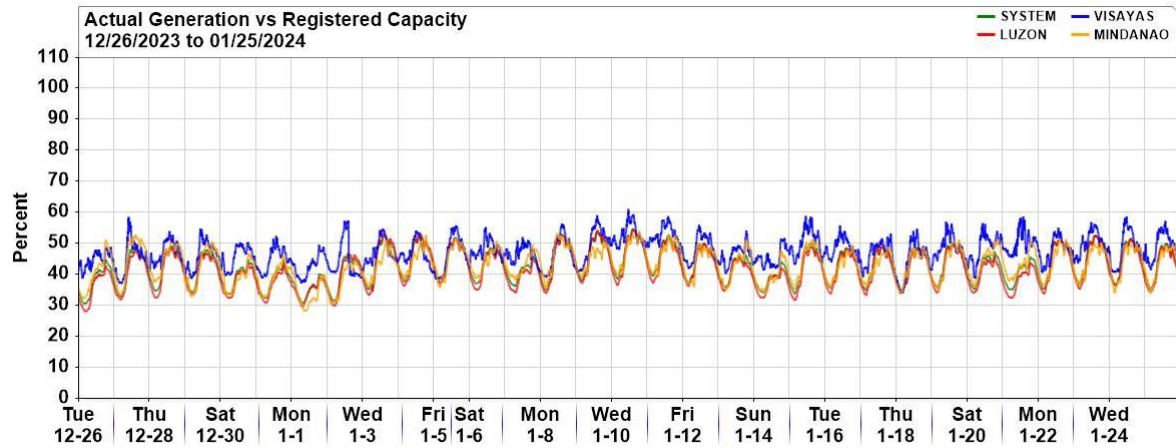
CAPACITY PROFILE



A total system registered capacity of 27,246.6 MW was noted during the billing period in review. Of the total registered capacity, 4,734 MW was under the Capacities Not Offered/Nominated which were mostly attributable to resource constraints and subject to further validation with the Enforcement and Compliance Office of PEMC. Additionally, capacities on outage likewise increase by an average of 10% or also equivalent to 3,626 MW from 3,300 MW last month.

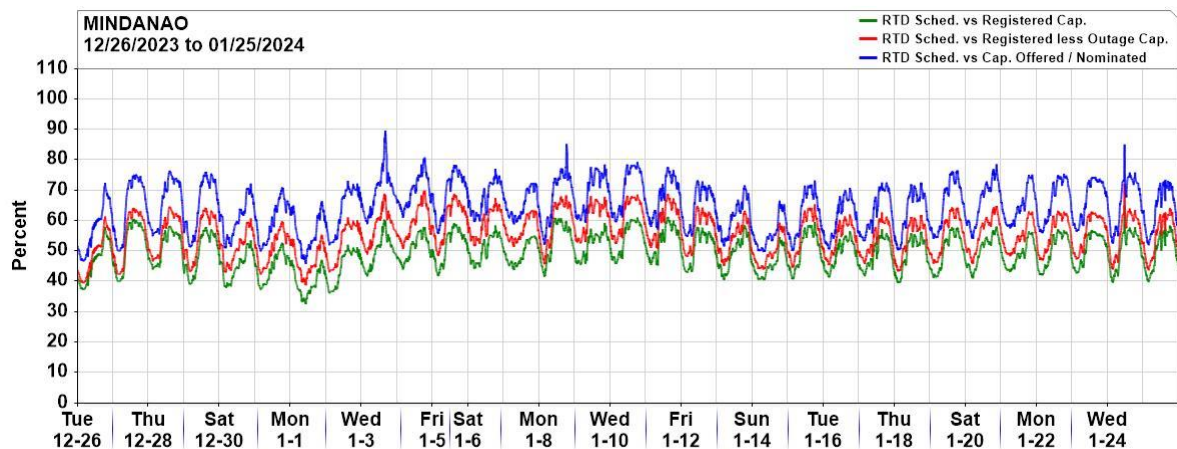
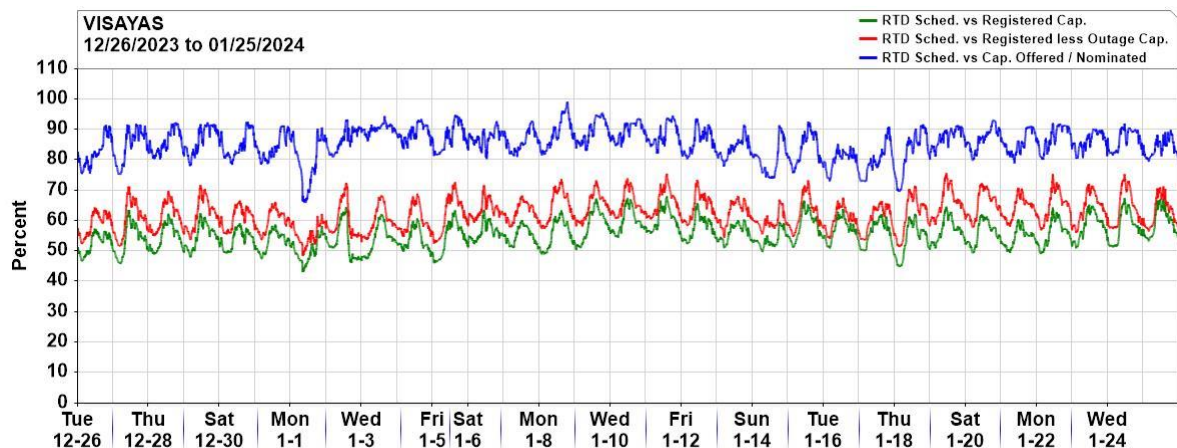
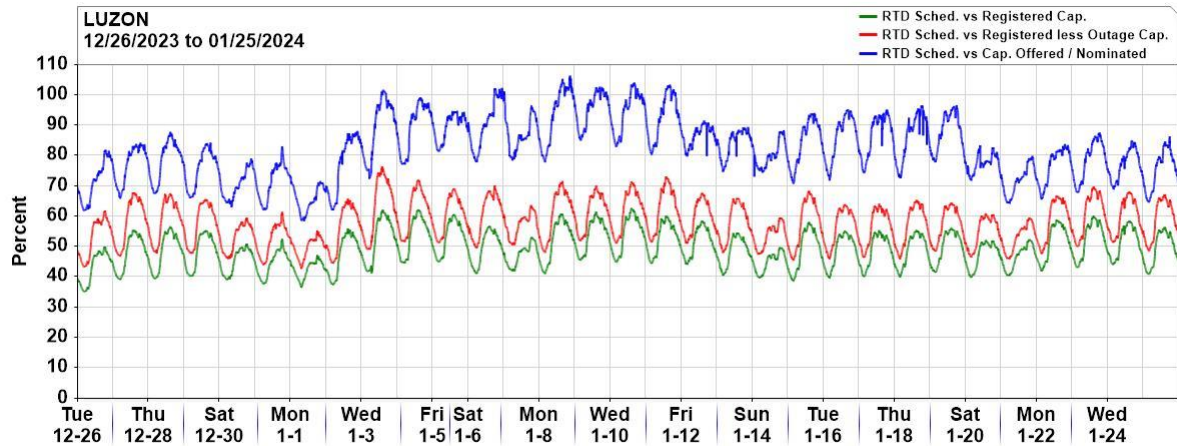
MARKET OUTCOME

CAPACITY FACTOR



MARKET OUTCOME

CAPACITY FACTOR

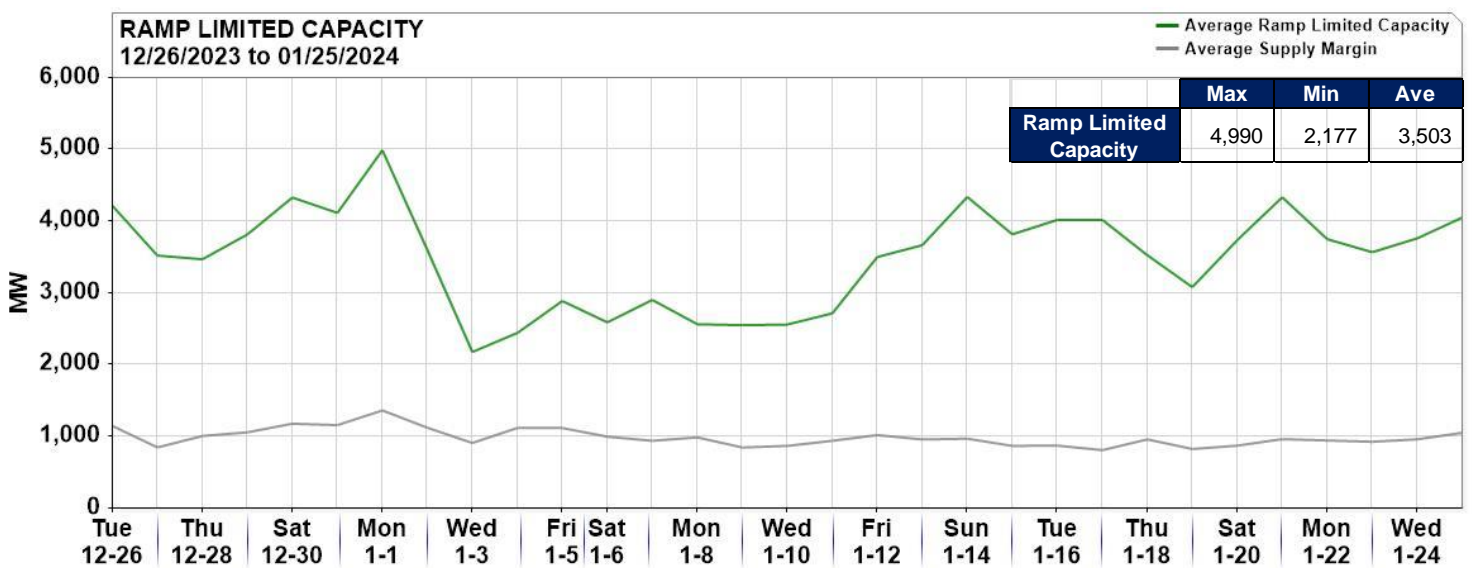


The capacity factors (Actual Generation vs Registered Capacity) for the system and each region were recorded only at an average of 50.2%. While Luzon and Visayas were highly affected by the capacities on outage and unavailability of the generators, the low capacity factor in Mindanao resulted from the ample, if not, oversupply in the region, notwithstanding the region's export to Visayas.

MARKET OUTCOME

GENERATOR RAMPING

RAMP LIMITED CAPACITY

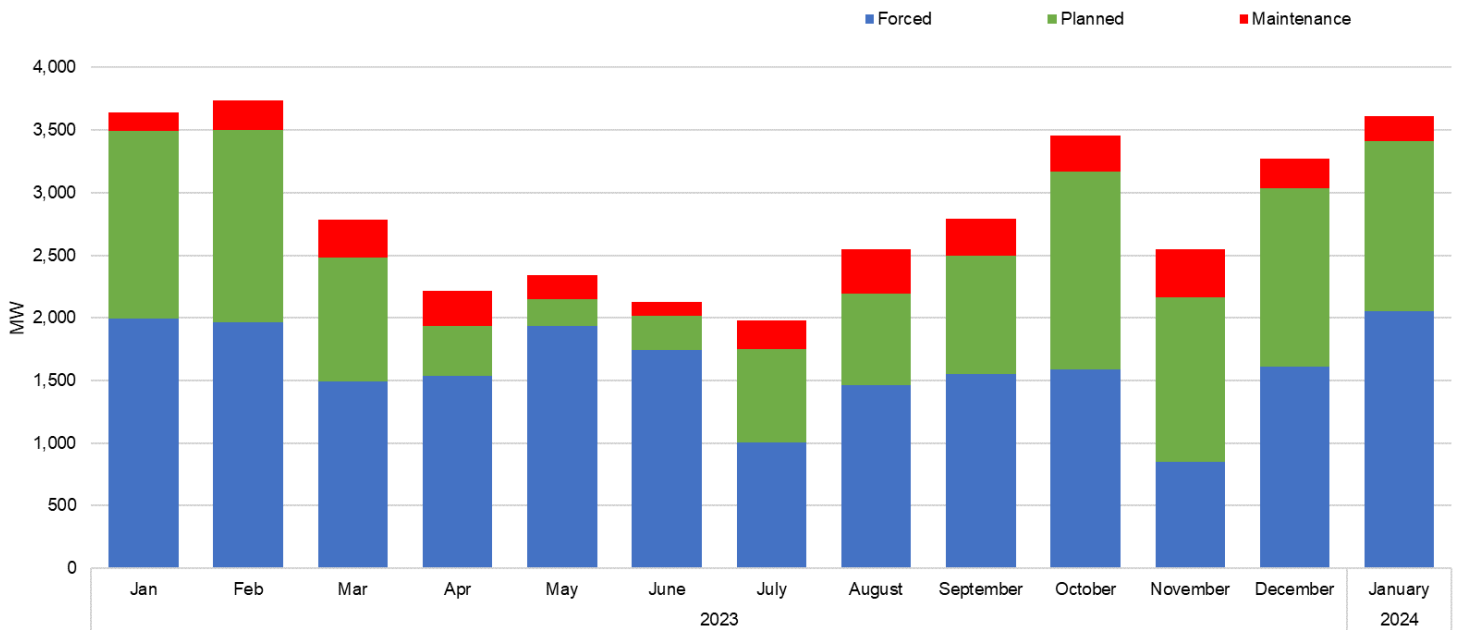


The average Ramp Limited capacity was observed to decrease by an average of 14%, from an average of 3,066 MW last month due to relatively higher level of capacities during the period.

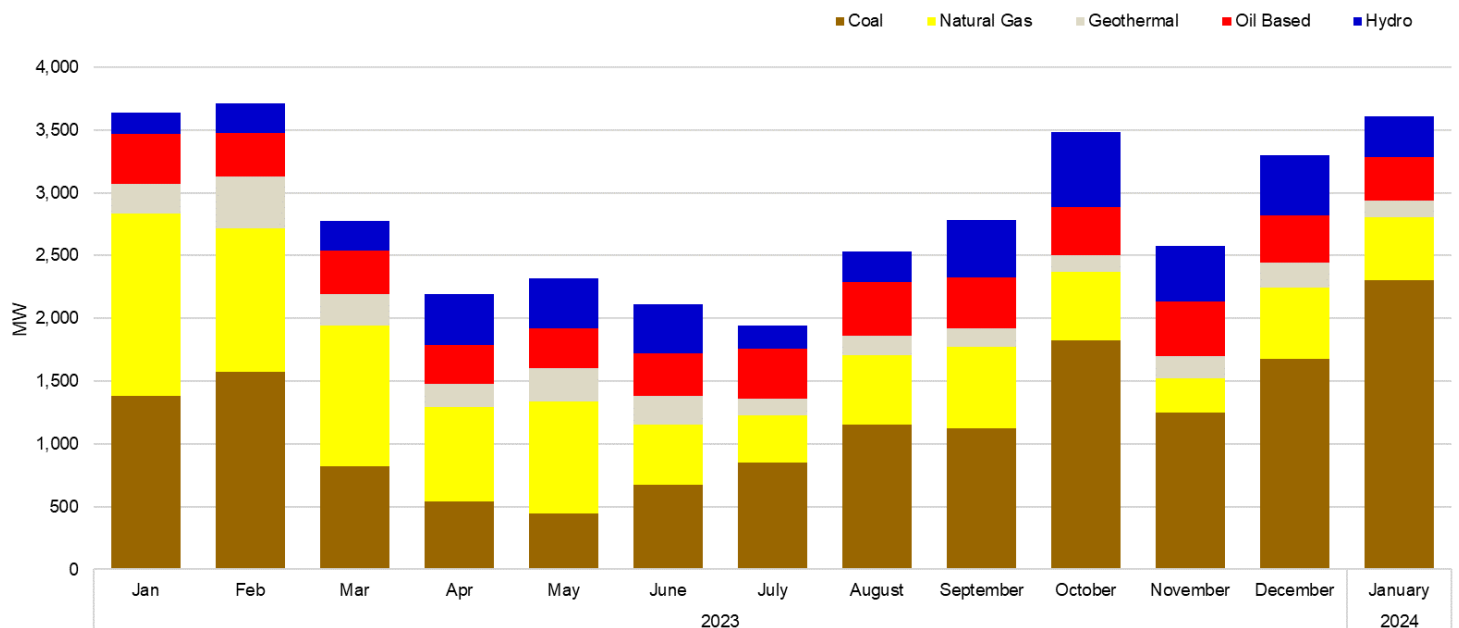
MARKET OUTCOME

OUTAGES

CAPACITY ON OUTAGE BY CATEGORY



CAPACITY ON OUTAGE BY PLANT TYPE



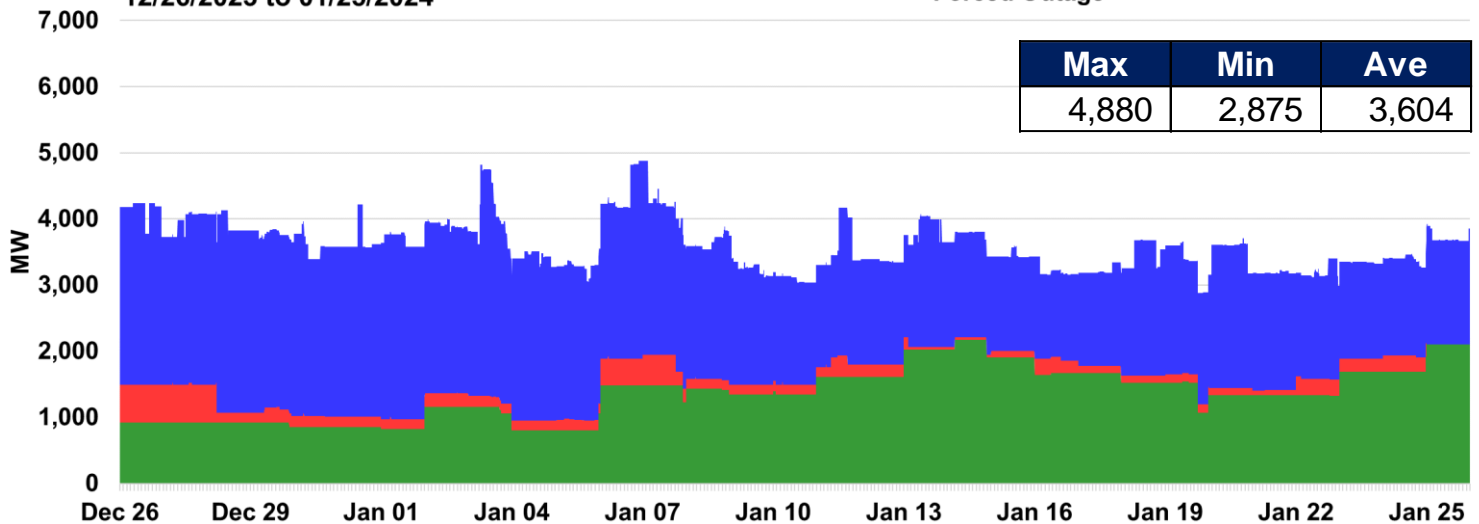
MARKET OUTCOME

OUTAGES

System: Capacity on Outage by Category
12/26/2023 to 01/25/2024

Planned Outage
Forced Outage

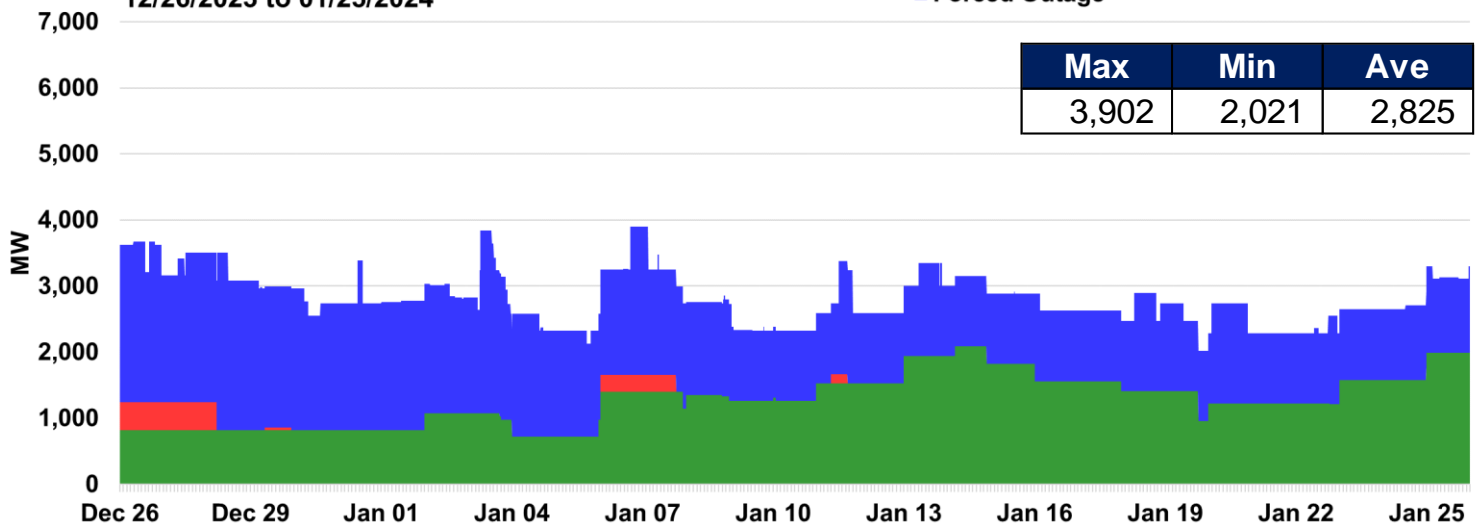
Maintenance Outage



Luzon: Capacity on Outage by Category
12/26/2023 to 01/25/2024

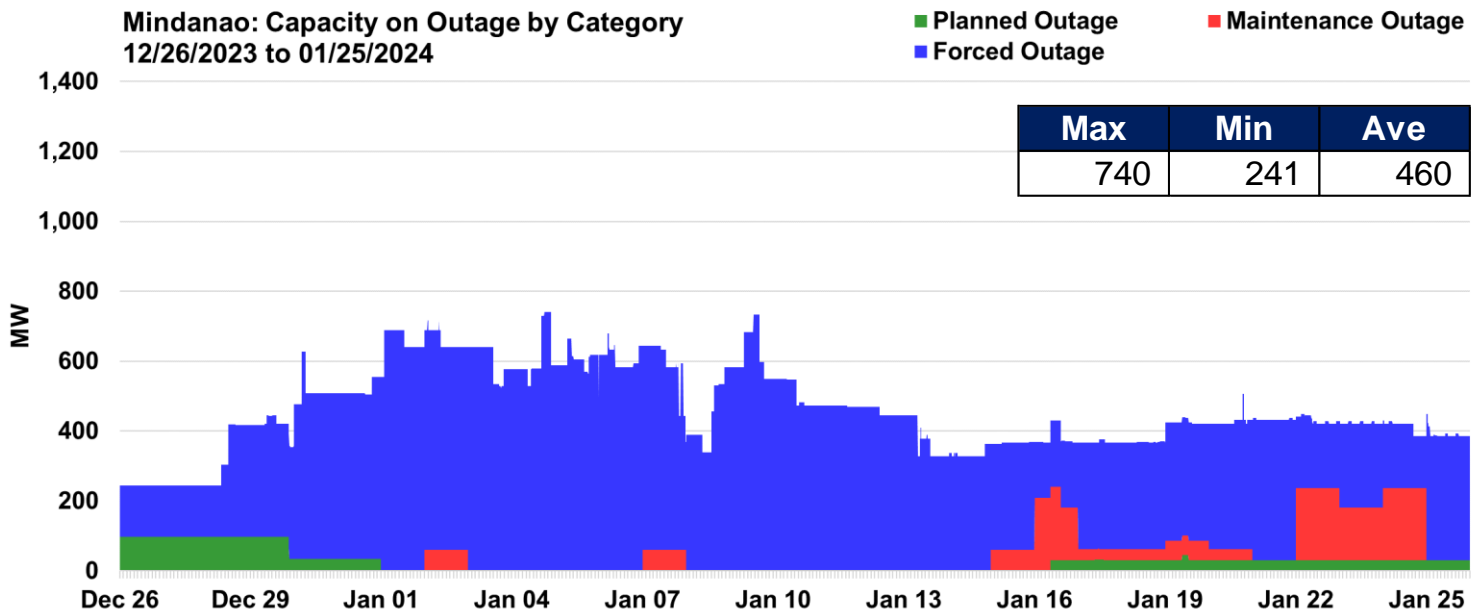
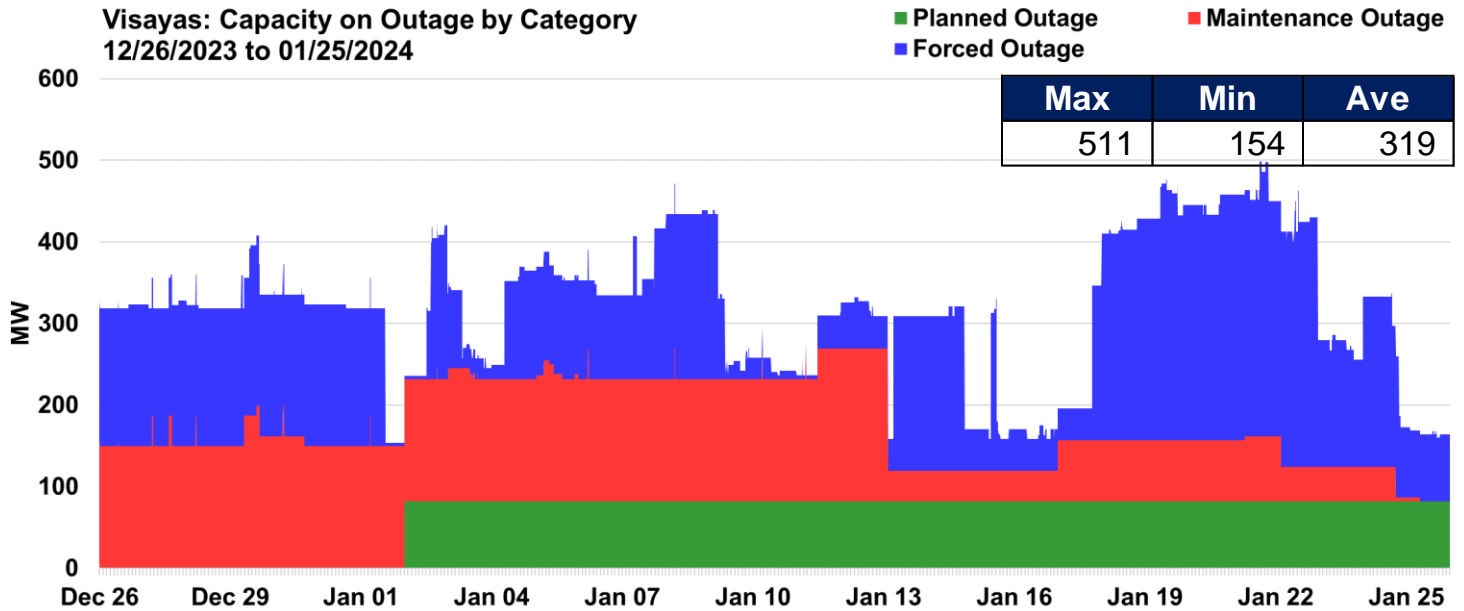
Planned Outage
Forced Outage

Maintenance Outage



MARKET OUTCOME

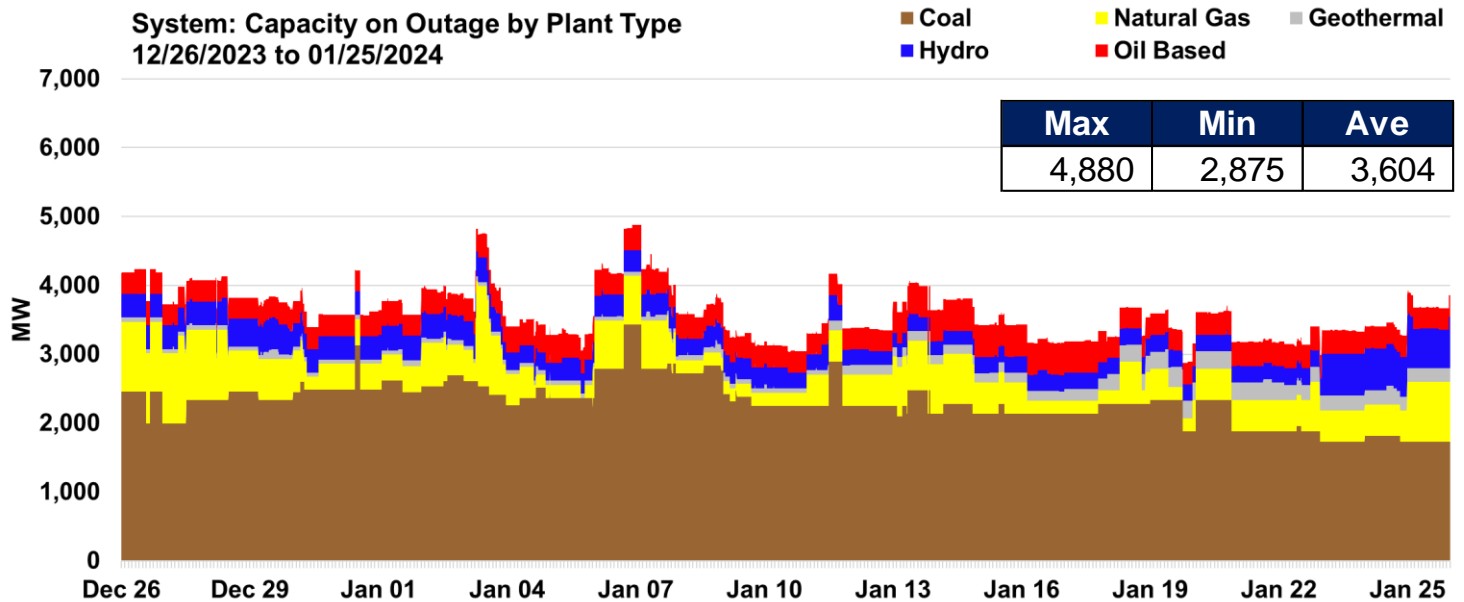
OUTAGES



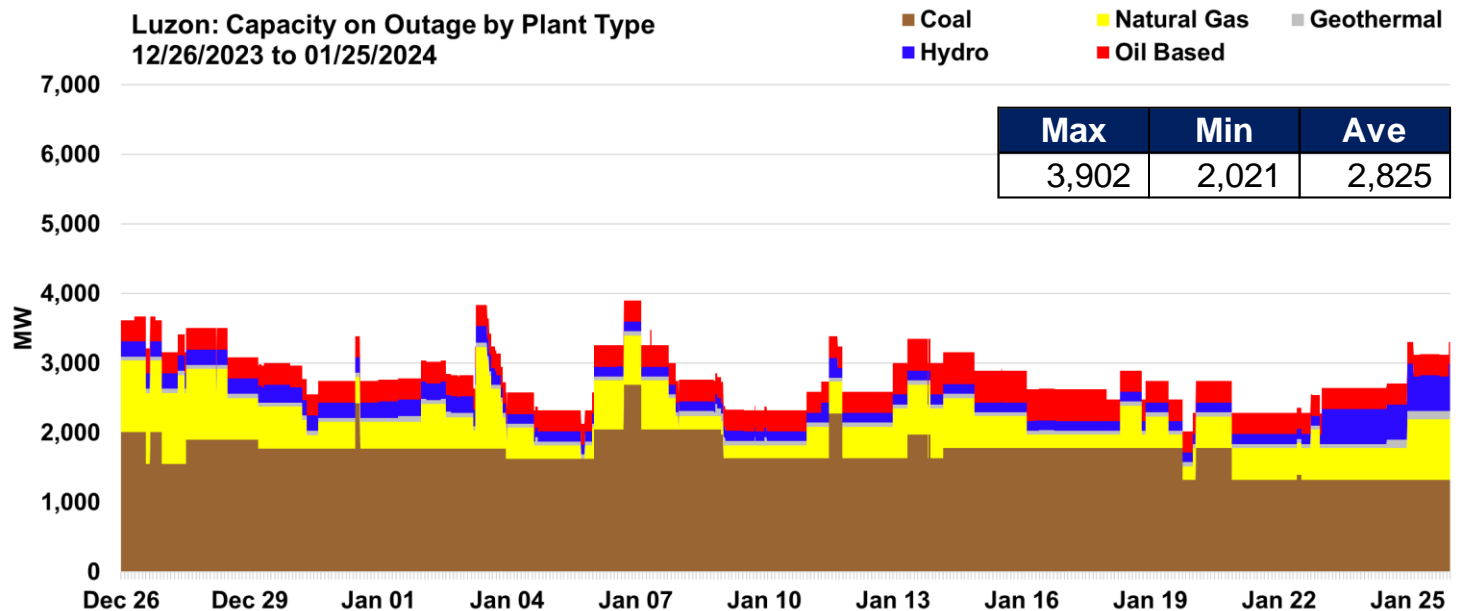
MARKET OUTCOME

OUTAGES

System: Capacity on Outage by Plant Type
12/26/2023 to 01/25/2024

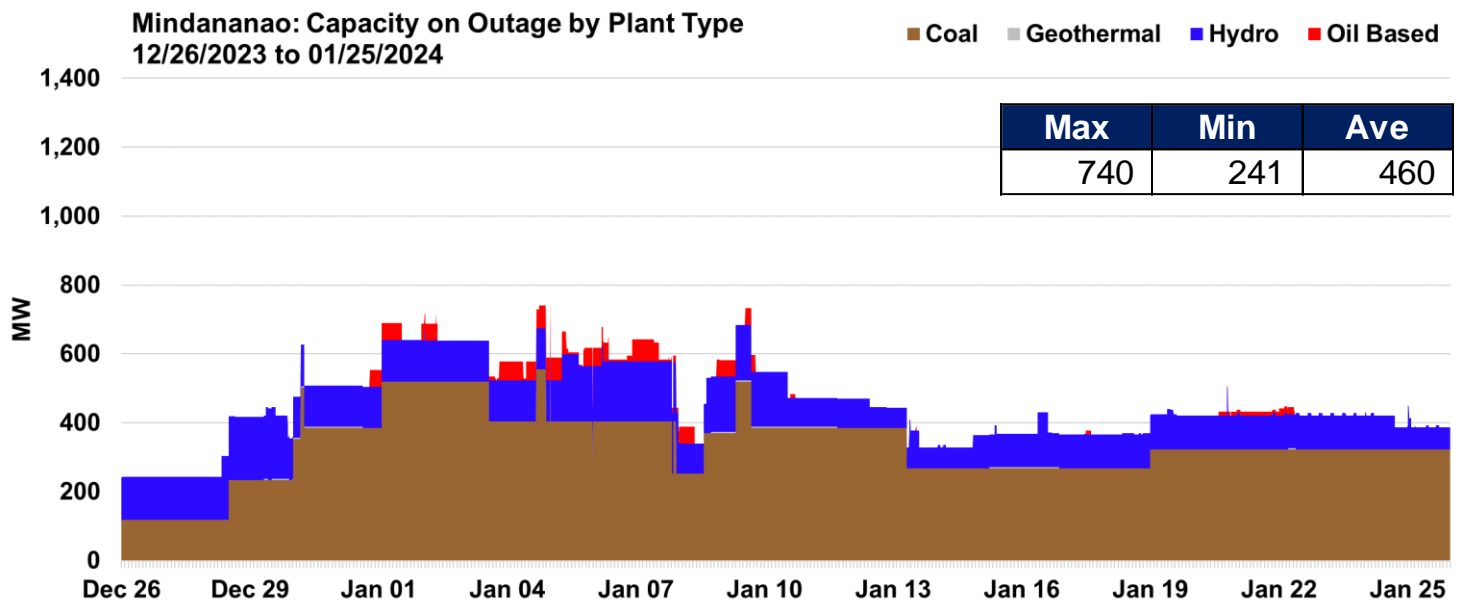
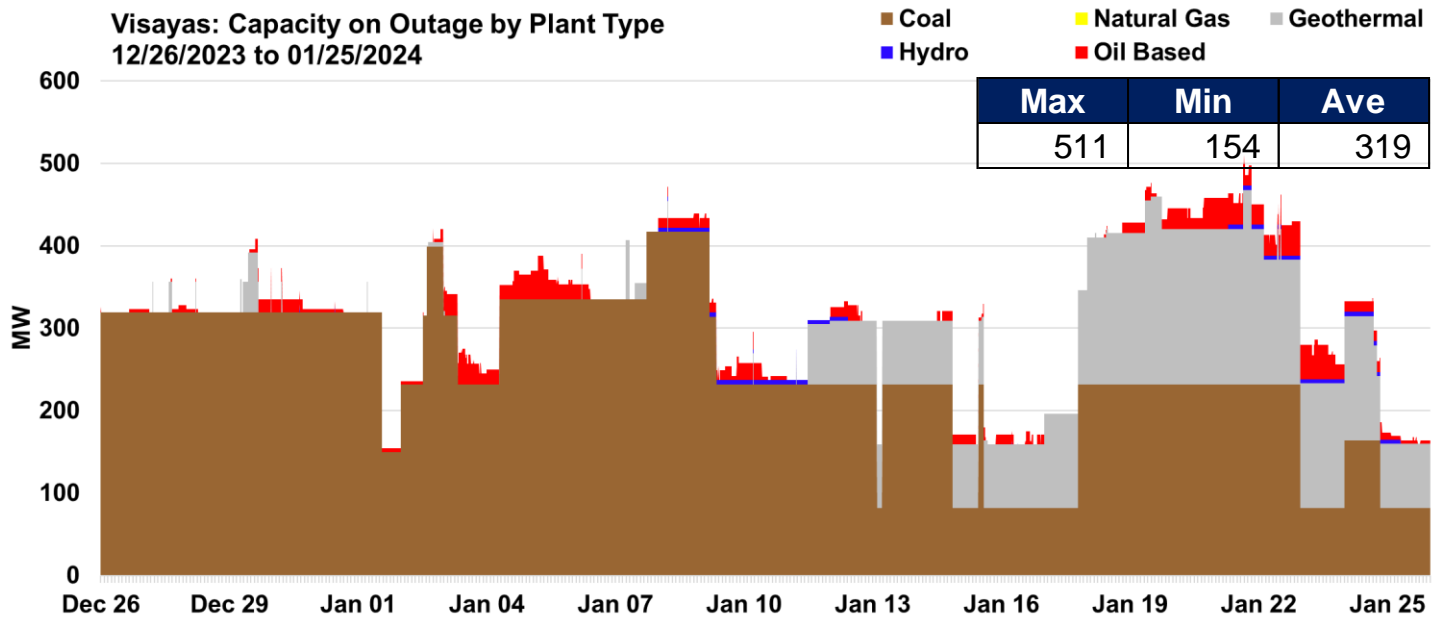


Luzon: Capacity on Outage by Plant Type
12/26/2023 to 01/25/2024



MARKET OUTCOME

OUTAGES



Most of the plants that were on outage were Coal and Hydro for Luzon, Visayas, and Mindanao region. These plant outages fall under forced and planned outage categories.

MARKET OUTCOME

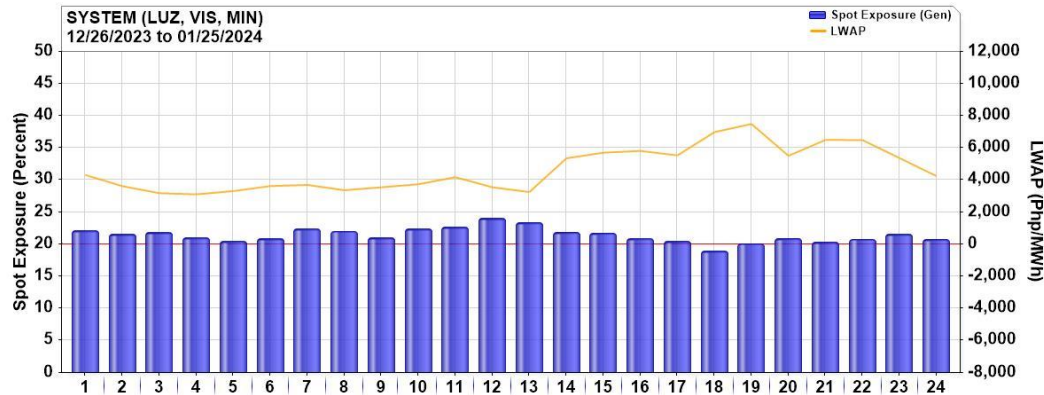
REGISTERED CAPACITY

Plant Type	December 2023				January 2024			
	System	Luzon	Visayas	Mindanao	System	Luzon	Visayas	Mindanao
	Capacity (MW)				Capacity (MW)			
BAT	535	355	100	80	495	315	100	80
BIOF	421	182	191	48	425	182	191	52
COAL	12,227	8,637	1,324	2,266	12,227	8,637	1,324	2,266
GEO	1,736	783	848	105	1,738	783	850	105
HYD	3,721	2,553	53	1,115	3,739	2,571	53	1,115
NATG	3,286	3,286			3,286	3,286		
OIL	2,847	1,741	440	667	2,825	1,741	433	651
SOLR	2,011	1,533	411	67	2,008	1,533	408	67
WIND	507	416	91		507	416	91	
TOTAL	27,289	19,483	3,458	4,347	27,247	19,461	3,451	4,335

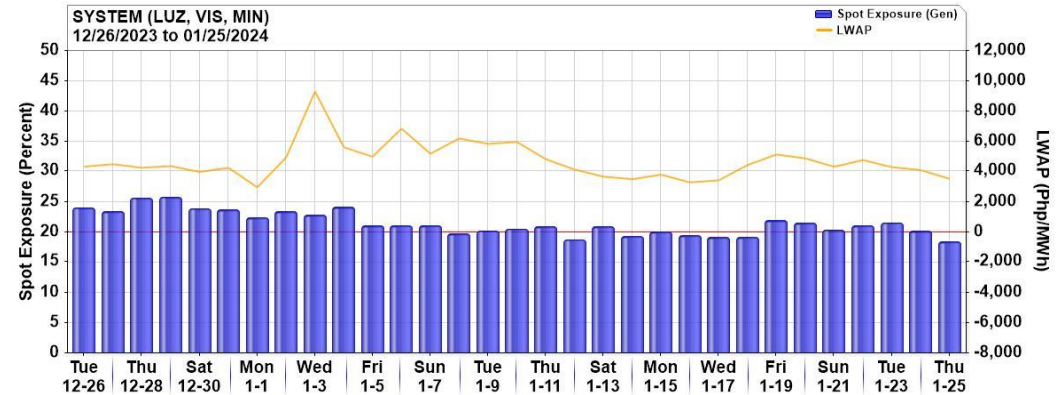
MARKET OUTCOME

SPOT EXPOSURE

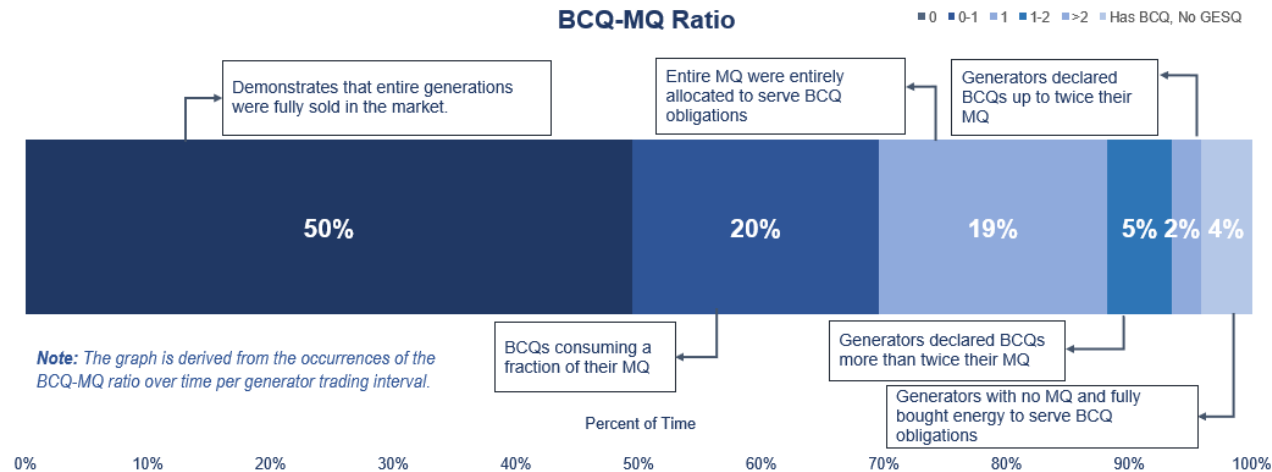
HOURLY SPOT



DAILY SPOT



BCQ-MQ Ratio

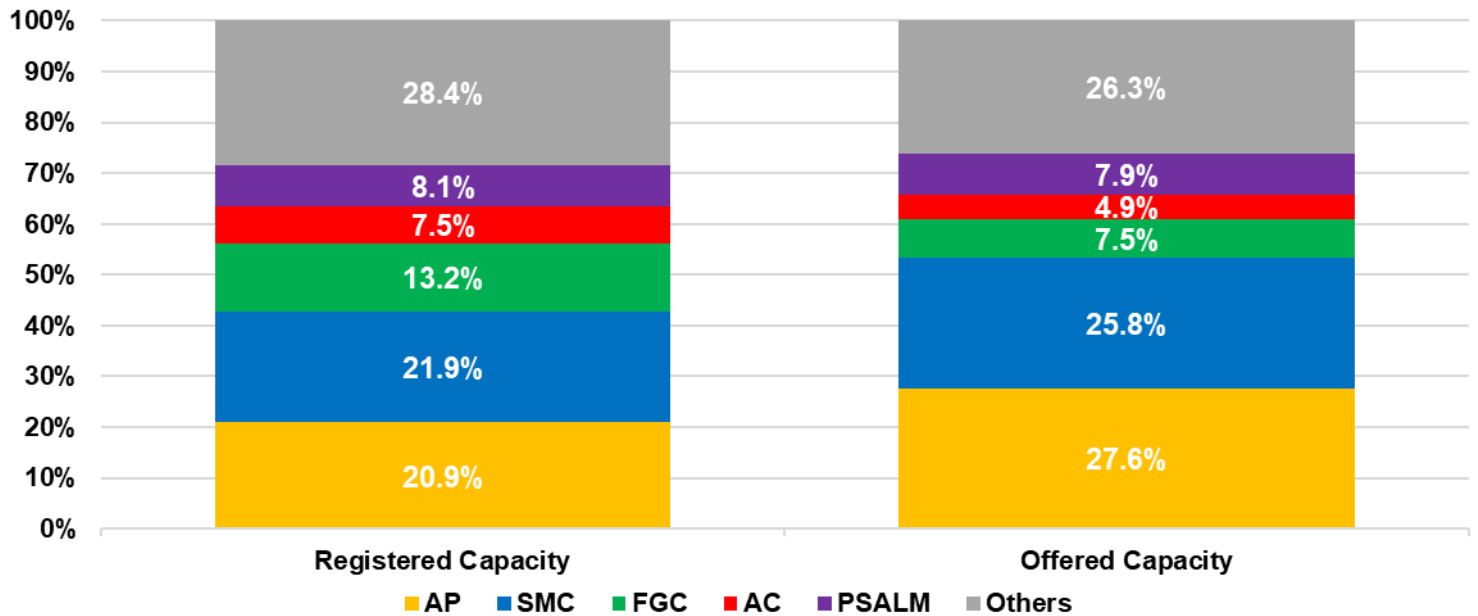


Total spot quantities of generator participants in the January 2024 billing period were at an average of 21.3% with an average price of PHP3,987/MWh during off-peak hours while during peak hours, the average exposure was at 21.4% with an average price of PHP5,624/MWh. In addition, spot exposures during weekdays averaged at 21.4% with an average price of PHP4,857/MWh while it was at an average of 21.4% during weekends with an average price of PHP4,759/MWh.

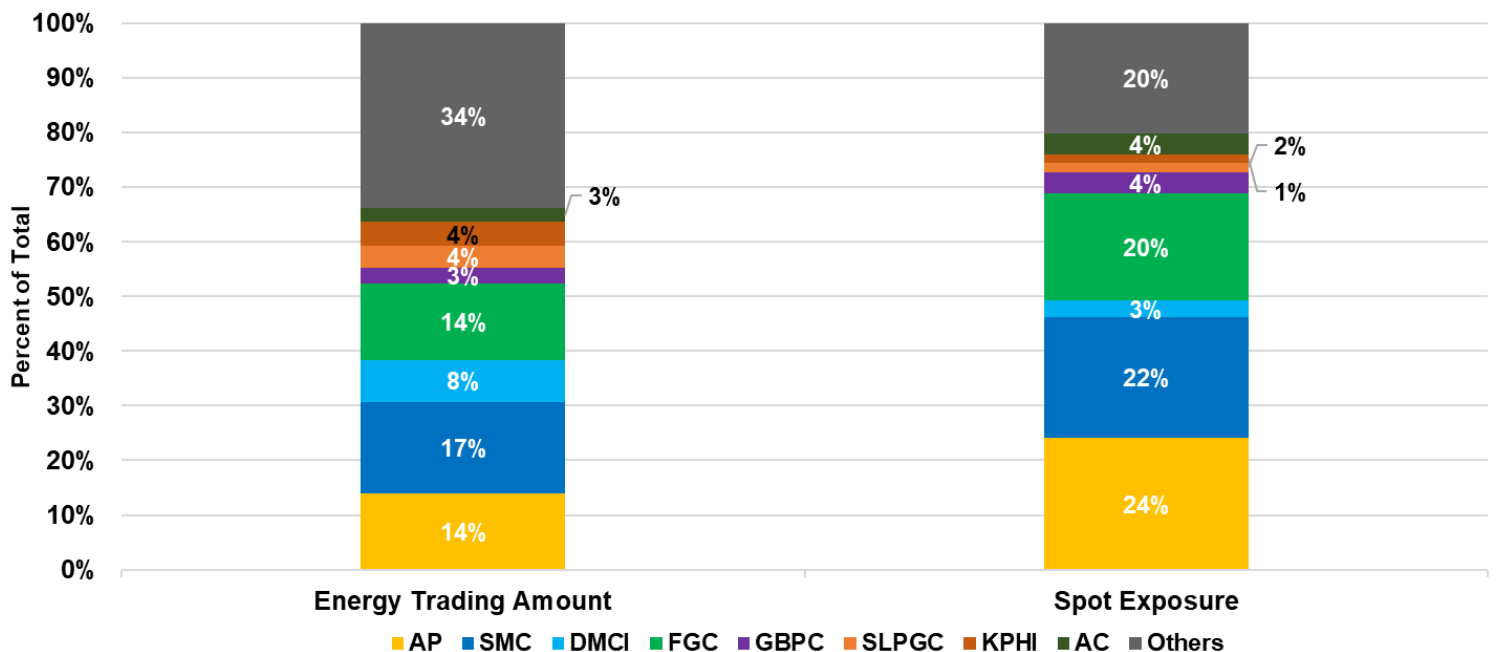
MARKET OUTCOME

STRUCTURAL COMPETITION

SYSTEM MARKET SHARES



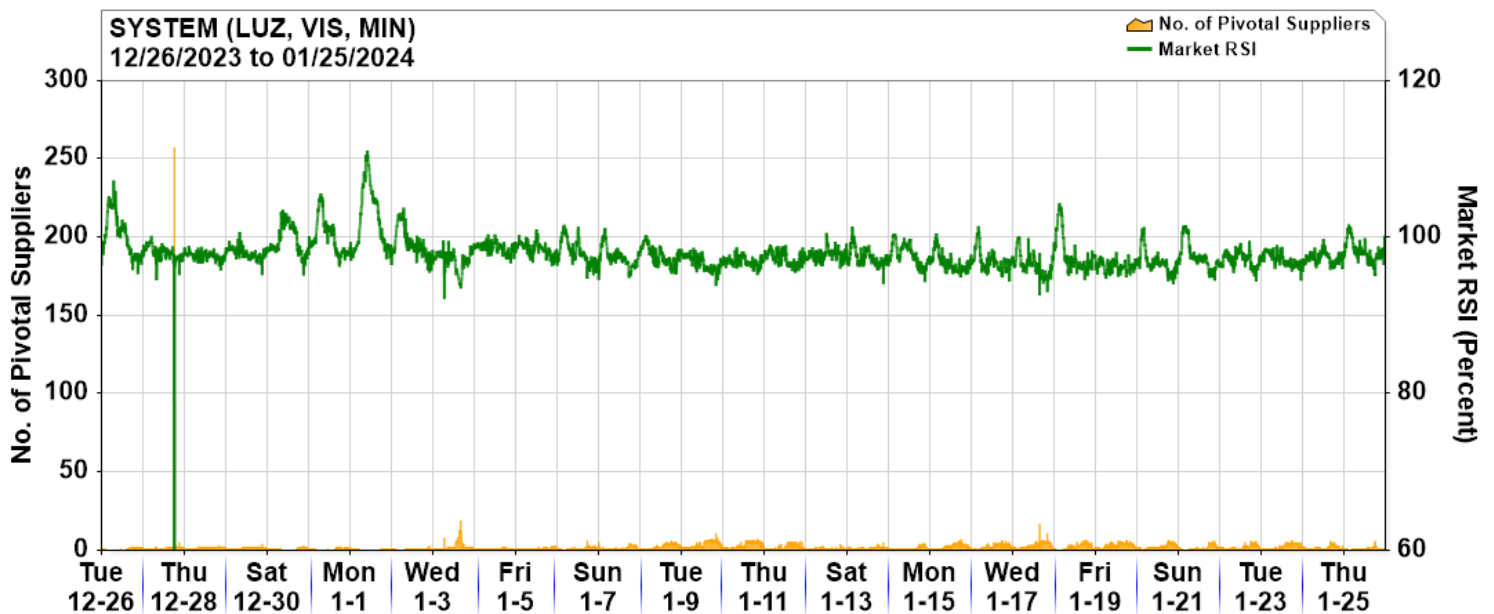
ENERGY TRADING AMOUNT (ETA)



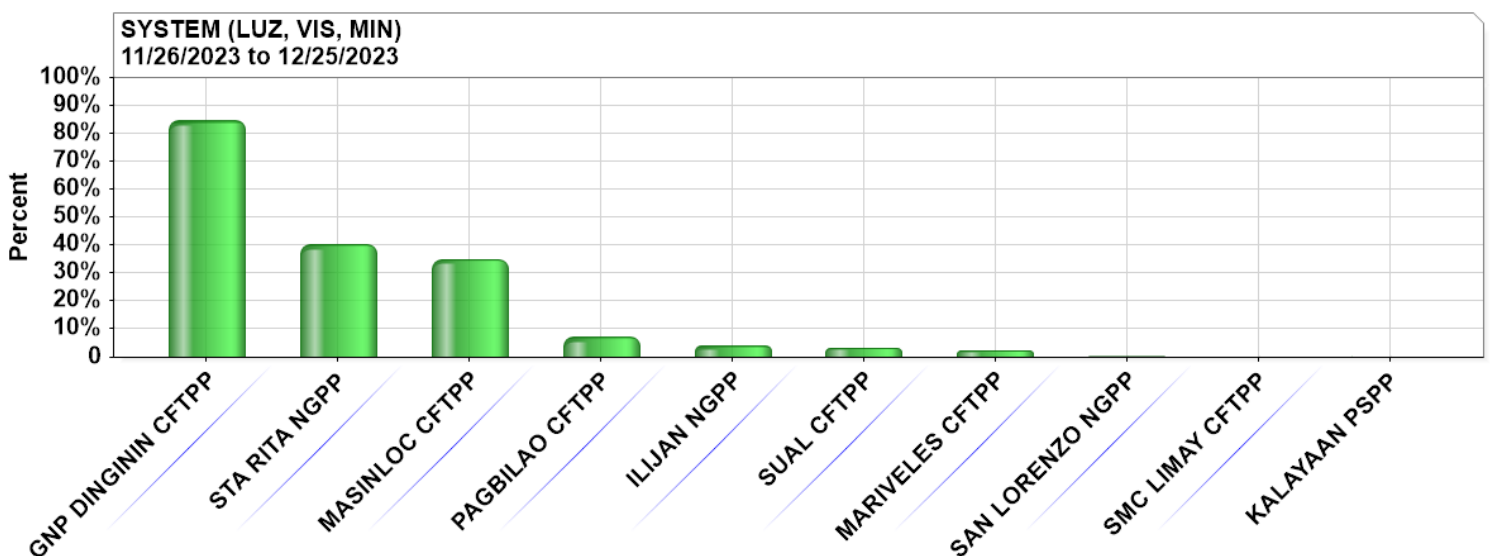
MARKET OUTCOME

STRUCTURAL COMPETITION

SYSTEM RSI



SYSTEM PIVOTAL SUPPLIERS

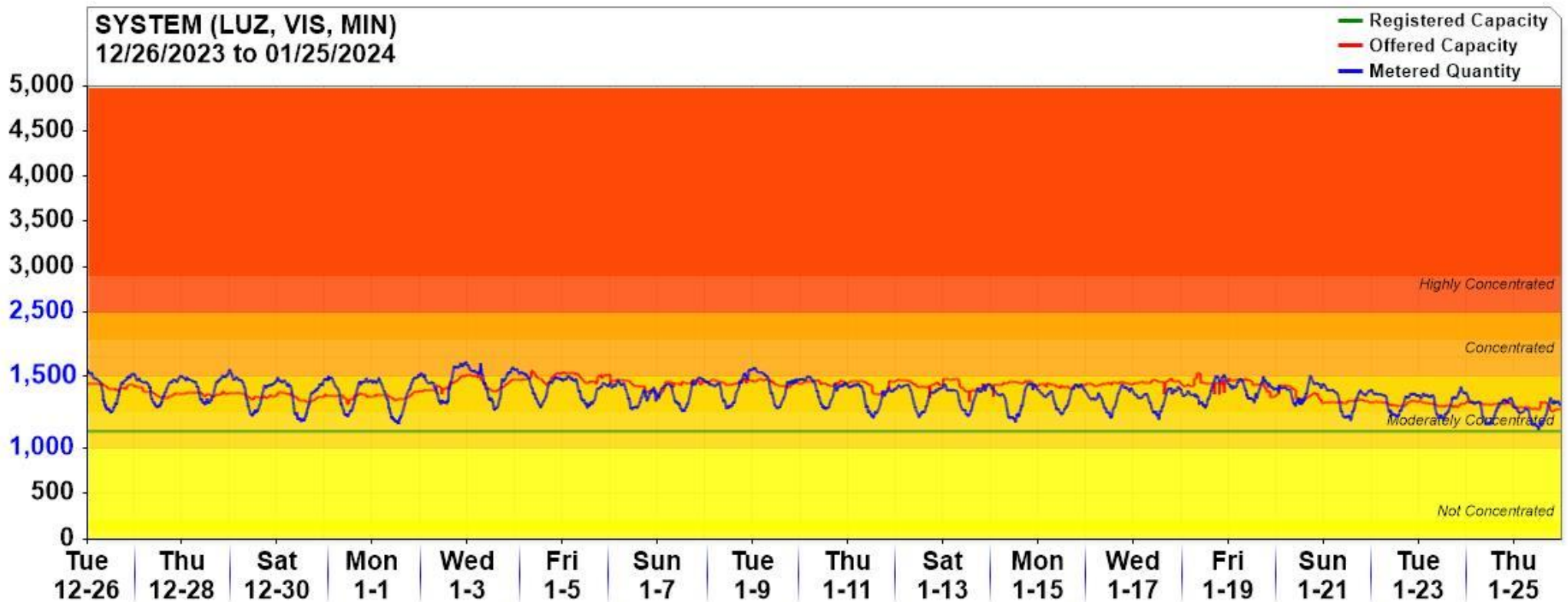


The market Residual Supply Index (RSI) was below the 100% mark for about 89.7%, signifying the presence of pivotal plants in Luzon, Visayas and Mindanao.

MARKET OUTCOME

STRUCTURAL INDICES

SYSTEM HHI

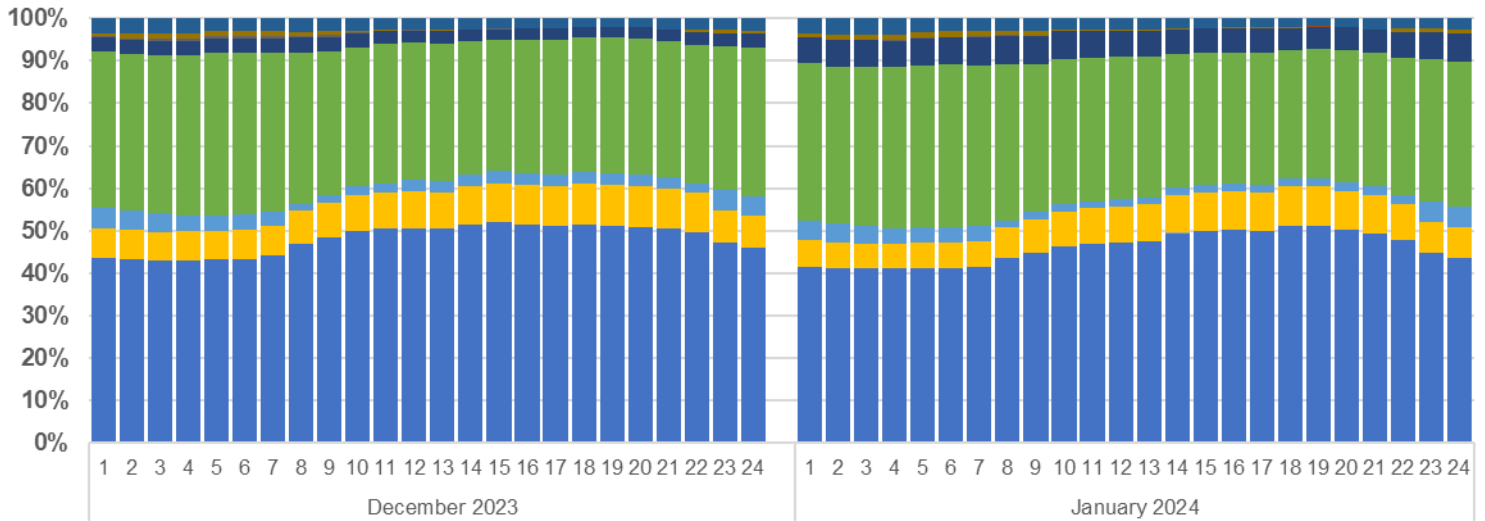


The **Herfindahl-Hirschman Index (HHI) by major participant grouping** for the January 2024 billing period posted a moderately concentrated market in terms of the Registered Capacity. While it was noted that for Offered Capacity and Metered Quantity measures, there were instances of concentrated market which is very evident during the instances of **Market Intervention on 02-05 January 2024**

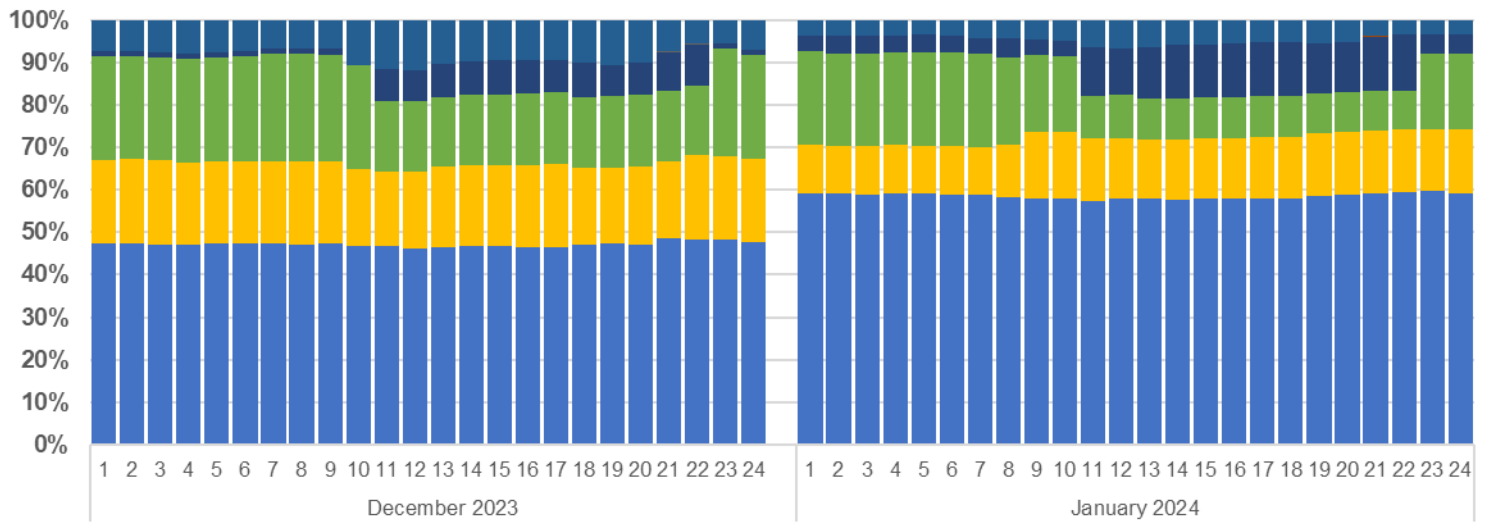
MARKET OUTCOME

BEHAVIORAL INDICES

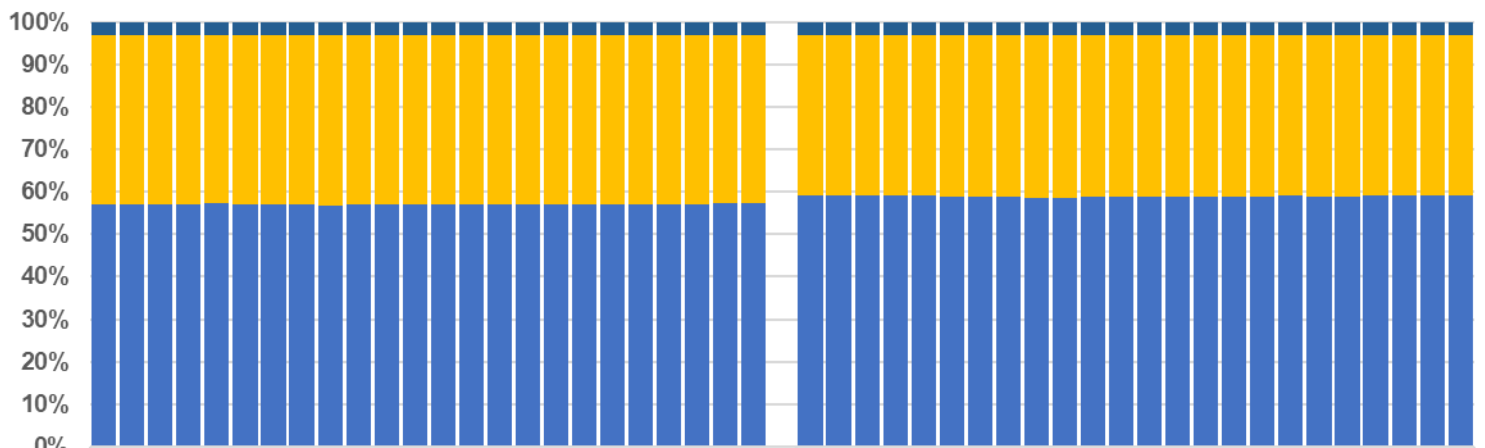
Coal



Natural Gas

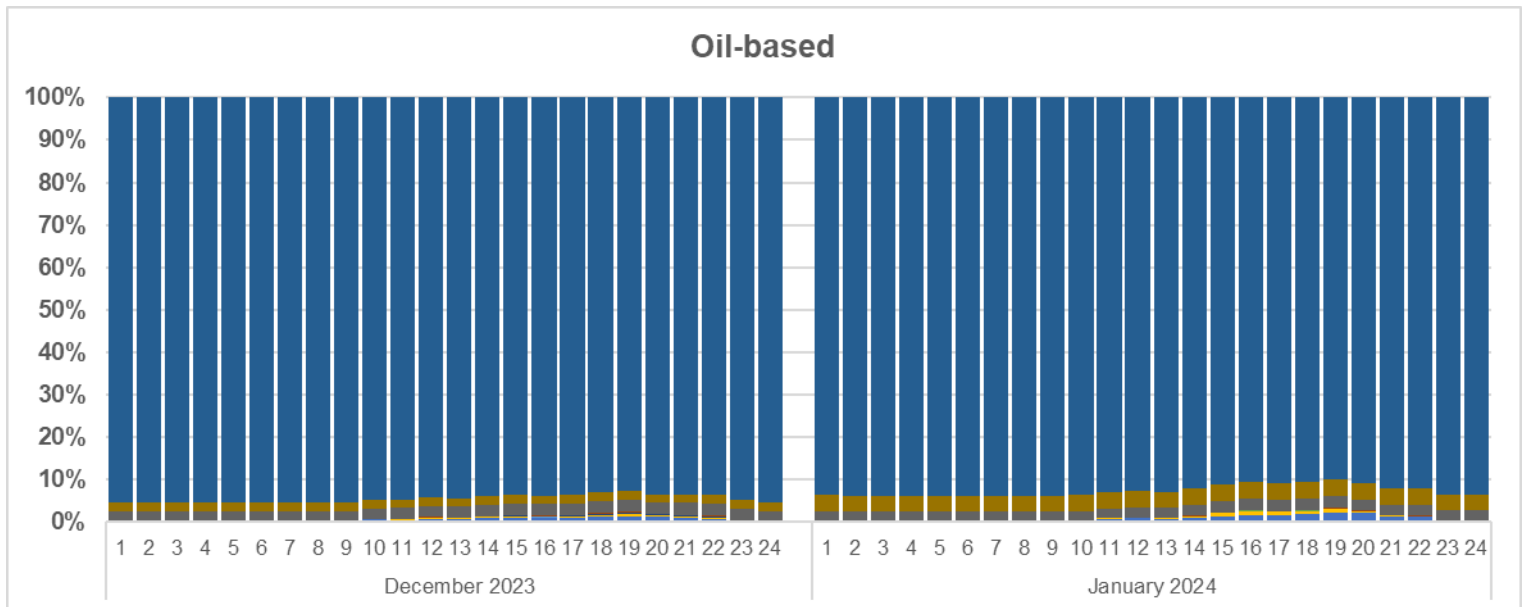
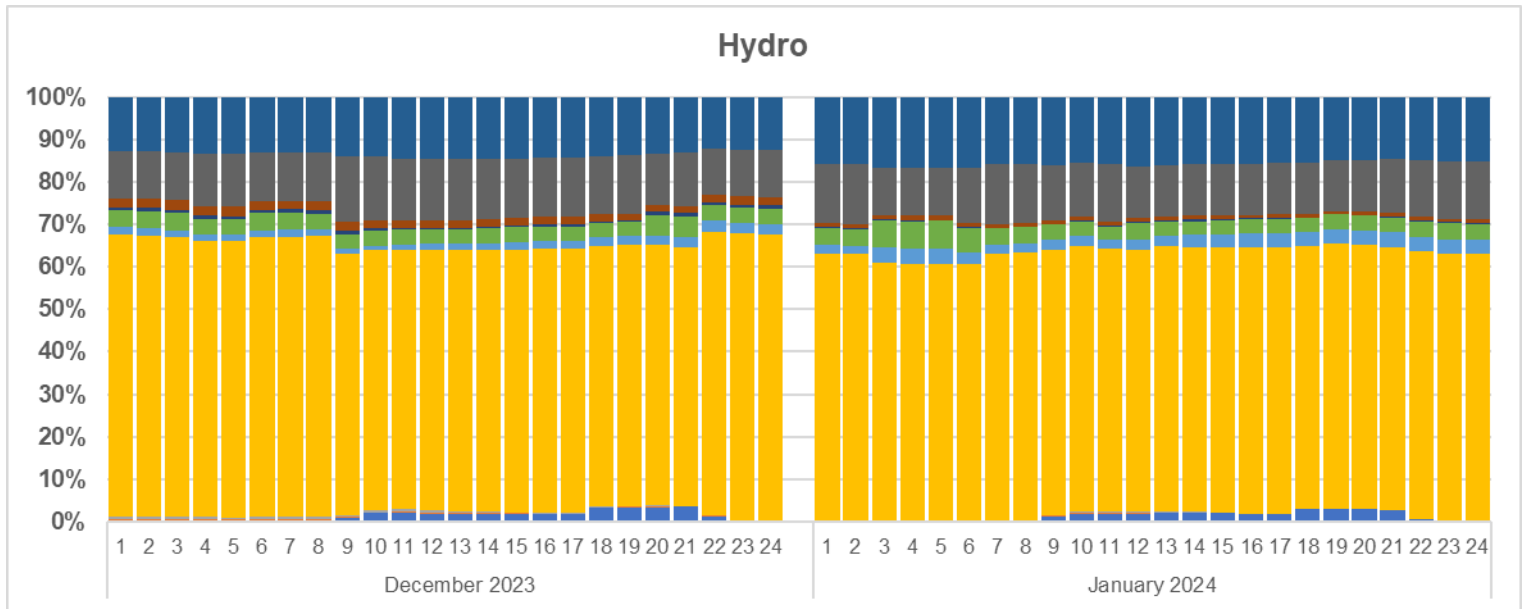


Geothermal



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

Coal and Hydro power plants posted the highest increase in offered prices, which contributed to the increase in the market prices during the period.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Luzon							
BIOF	CLEANG 1	10.8	01/17/2024 17:02			Forced Outage	Emergency shutdown due to high vibration of ID fan
BIOF	Hypergreen	10	01/15/2024 18:00			Forced Outage	Tripped due to malfunction of AVR.
BIOF	GFII	15.8	01/14/2024 4:07	01/22/2024 6:06	8	Forced Outage	Insufficient fuel.
BIOF	CLEANG 1	10.8	12/29/2023 18:07			Forced Outage	Boiler travelling grate problem.
BIOF	Hypergreen	10	12/22/2023 14:06	01/08/2024 6:41	17	Forced Outage	Unplanned shutdown due to insufficient fuel.
BIOF	GFII	15.8	08/19/2023 6:00	01/13/2024 12:47	147	Maintenance Outage	Off season maintenance shutdown
COAL	SMC 2	150	01/14/2024 4:05			Planned Outage	Planned Outage until February 4 2024
COAL	Pagbilao 3	420	01/06/2024 0:46			Planned Outage	Planned Outage until Feb 24 2024.
COAL	Masinloc 1	344	12/27/2023 12:20	01/09/2024 1:05	13	Forced Outage	Emergency shutdown due to Air Preheater (AH1A) support bearing failure
COAL	SLTEC 2	124	12/22/2023 0:00			Planned Outage	Planned Outage until February 5 2024.
COAL	SLTEC 1	122	12/23/2023 1:11	12/29/2023 4:42	6	Forced Outage	Unit shutdown in preparation for the planned shutdown of Calaca-Salong 230kV line on Dec 26 2023.
COAL	SLPGC 1	150	12/22/2023 23:59			Forced Outage	Unplanned outage due to turbine bearing no.2 high vibration.
COAL	SBPL	455	12/01/2023 0:01	01/19/2024 18:00	50	Planned Outage	Planned outage as per GOP until January 19 2024.
COAL	QPPL	460	12/20/2023 8:00	12/26/2023 13:58	6	Forced Outage	Emergency shutdown due boiler tube leak.
COAL	GMEC Power 2	316	12/17/2023 21:30			Forced Outage	Tripped at 106MW load while ongoing shutdown due to coal conveyor trouble
COAL	GMEC Power 1	316	12/17/2023 21:52			Forced Outage	Tripped at 17MW load while ongoing shutdown due to coal conveyor trouble
COAL	ANDA 1	72	12/19/2023 0:05	01/08/2024 23:20	21	Planned Outage	Planned Outage until January 8 2024
GEO	Tiwi 2	60	01/24/2024 12:17			Forced Outage	Mechanical Turbine.tripped.
GEO	Tiwi 5	57	01/10/2024 0:02	01/12/2024 22:19	3	Planned Outage	Planned shutdown to facilitate intensive inspection of Transformer and correction of Generator hydrogen leak.(Until Jan 13 2024)
GEO	Makban 7	20	12/17/2023 0:11	01/08/2024 19:48	23	Planned Outage	Replacement of turbine.
GEO	Tiwi 1	60	11/30/2021 18:32			Forced Outage	Steam supply diverted to Unit 2.
HYD	Kalayaan 2	183	01/23/2024 0:00			Planned Outage	Planned Outage until January 29 2024
HYD	Kalayaan 1	183	01/23/2024 0:00			Planned Outage	Planned Outage until January 29 2024
HYD	BINENG 1	19.8	12/23/2023 17:07			Forced Outage	Outage due to low 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			Forced Outage	Draw-out of Main Unit 3 generator breaker.
HYD	Angat M 2	50	11/06/2023 8:01	01/03/2024 18:08	58	Planned Outage	Total Plant shutdown (Planned Outage)
HYD	Angat M 1	50	11/06/2023 8:01	01/03/2024 17:14	58	Planned Outage	Total Plant shutdown (Planned Outage)
NATG	Ilijan B1	190	01/24/2024 23:53			Planned Outage	Planned Outage
NATG	Ilijan B3	220	01/24/2024 23:42			Planned Outage	Planned Outage
NATG	San Lorenzo 2	265	01/19/2024 23:39			Planned Outage	Planned Outage until February 2 2024.
NATG	Sta. Rita 3	265.5	01/10/2024 23:43	01/16/2024 3:03	5	Planned Outage	Planned Outage until January 15 2024.
NATG	Ilijan B2	190	01/08/2024 0:00			Planned Outage	Planned Outage until January 31 2024.
NATG	Ilijan B2	190	01/05/2024 19:31	01/07/2024 23:59	2	Forced Outage	Gas restriction.
NATG	Ilijan B2	190	01/03/2024 6:24	01/05/2024 17:24	2	Forced Outage	Tripped due to gas supply problem
NATG	Sta. Rita 2	255.7	01/01/2024 23:45	01/03/2024 23:59	2	Planned Outage	Preparation for the Net Dependable Capacity(NDC) Test. (Until January 3 2024)
NATG	Ilijan A1	190	12/30/2023 14:29	01/03/2024 5:11	4	Forced Outage	Unplanned outage due to gas fuel restriction.
NATG	San Gabriel	420	12/24/2023 23:44	12/28/2023 5:14	3	Maintenance Outage	Maintenance Outage until December 29 2023.
NATG	Ilijan B3	220	12/24/2023 11:29	12/30/2023 7:51	6	Forced Outage	Gas supply problem.
NATG	Ilijan B2	190	12/24/2023 11:40	01/02/2024 13:54	9	Forced Outage	Gas supply problem.
NATG	Ilijan B1	190	11/17/2023 12:37	12/30/2023 5:35	43	Forced Outage	Shutdown due to rotor ground fault.
OIL	Ingrid 6	28	01/13/2024 0:18	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024.
OIL	Ingrid 5	22	01/13/2024 0:18	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024.
OIL	Ingrid 3	22	01/13/2024 0:18	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024.
OIL	Ingrid 2	22	01/13/2024 0:18	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024.
OIL	Ingrid 1	28	01/13/2024 0:18	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024.
OIL	Ingrid 4	28	01/13/2024 0:00	01/17/2024 23:06	5	Planned Outage	Planned Outage until January 17 2024
OIL	SLPGC 4	25	02/10/2022 18:07			Forced Outage	Due to low turbine lube oil supply. IEMOP deregistration effective on August 25 2022.
OIL	SLPGC 3	25	01/22/2022 21:39			Forced Outage	Declared unavailable due to turbine lube oil sump metal chips detected. IEMOP deregistration effective on August 25 2022.
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
SOLR	ARAYSOL 2	30.933	01/05/2024 7:56			Forced Outage	Affected by the Planned Outage of Mexico-Clark 69kV line 2.

ANNEX

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Visayas							
BIOF	NTNEGB 1	25	01/19/2024 23:50	01/22/2024 12:02	3	Forced Outage	Offline due to bag house filter problem.
BIOF	South Negros	25	01/12/2024 13:42			Forced Outage	Auto-tripped due to undervoltage relay activation.
BIOF	CABI 1	12	12/30/2023 15:06	01/03/2024 9:50	4	Forced Outage	Offline due to insufficient fuel supply (bagasse).
BIOF	South Negros	25	12/08/2023 0:35	01/08/2024 10:25	31	Maintenance Outage	Weekly maintenance.
BIOF	NTNEGB 1	25	12/06/2023 10:20	01/15/2024 15:46	40	Forced Outage	Shutdown due to tube leak.
BIOF	HPCO 1		11/12/2023 20:00			Maintenance Outage	Offline due to weekly maintenance.
COAL	PEDC 3	150	01/17/2024 18:44	01/22/2024 23:15	5	Forced Outage	Auto-tripped due to High furnace pressure
COAL	PEDC 3	150	12/18/2023 0:35	01/13/2024 1:59	26	Maintenance Outage	Offline / RTD
COAL	CEDC 3	82	01/02/2024 0:01			Planned Outage	Shutdown to conduct Major Overhaul (MOH) per approved GOMP schedule; ECD: 01/31/2024 0000H
COAL	Kepeco Salcon 1	103	01/04/2024 6:53	01/09/2024 4:48	5	Forced Outage	Shutdown due to boiler tube leak
COAL	PEDC 1	83.7	01/02/2024 12:06			Forced Outage	Tripped due to boiler feed pump problem
COAL	CEDC 3	82	01/02/2024 0:01			Planned Outage	Shutdown to conduct Major Overhaul (MOH) per approved GOMP schedule ECD 01/31/2024 0000H
COAL	THVI 1	169	12/23/2023 12:22	01/01/2024 13:28	9	Forced Outage	STEAM DRUM LOW LOW
COAL	PEDC 3	150	12/18/2023 0:35			Maintenance Outage	Offline
GEO	Mahanagdong A2	5	01/18/2024 10:37			Forced Outage	Insufficient steam due to MGH header pipeline replacement.
GEO	Upper Mahiao 4	32	12/15/2023 13:08			Forced Outage	Insufficient steam.
GEO	Upper Mahiao 1	32	11/25/2022 11:07			Forced Outage	Insufficient steam.
GEO	PGPP1 Unit 1	37.5	01/17/2024 0:01	01/22/2024 2:59	5	Maintenance Outage	Replacement of unit oil trip test device.
GEO	PGPP1 Unit 3	35.5	01/11/2024 11:23	01/24/2024 16:19	13	Forced Outage	Auto tripped with indication condenser level very high.
GEO	PGPP1 Unit 2	37.5	11/21/2023 0:00			Maintenance Outage	PGPP1 U2 tripped due to tripping of hot well pump during shutdown process. Scheduled total plant shutdown at 0006H.
GEO	Mahanagdong A1	5	01/02/2024 15:07			Forced Outage	Under assessment
GEO	PGPP1 Unit 2	37.47	11/21/2023 0:00			Maintenance Outage	PGPP1 U2 tripped due to tripping of hot well pump during shutdown process. Scheduled total plant shutdown at 0006H.
HYD	THC 2	5.31	01/21/2024 6:53	01/25/2024 7:32	4	Maintenance Outage	Clearing inspection at spiral tube
HYD	THC 1	5.31	01/06/2024 15:15	01/12/2024 10:14	6	Forced Outage	Normal stop low forebay water level.
OIL	PDPP1 Unit 2	5	01/22/2024 18:12			Forced Outage	Excessive fuel leak
OIL	PDPP3 H	13	01/19/2024 20:30	01/24/2024 21:36	5	Forced Outage	Emergency shutdown due to abnormal sound of turbo charger
OIL	PDPP3 E	12	01/19/2024 17:29	01/23/2024 19:35	4	Forced Outage	Emergency shutdown due to water leak at cylinder A6
OIL	PDPP3 E	12	01/14/2024 14:28			Forced Outage	Gas leak at exhaust manifold
OIL	PDPP3 C	12	01/11/2024 23:15			Forced Outage	HT water leak
OIL	PDPP3 C	12	01/09/2024 19:46			Forced Outage	High exhaust gas leak
OIL	PDPP1 Unit 3	5	01/08/2024 19:25			Forced Outage	circulating pump motor tripped
OIL	PDPP3 E	12	01/06/2024 18:57	01/10/2024 10:00	4	Forced Outage	engine governor trouble
OIL	PDPP3 H	13	01/03/2024 8:03	01/06/2024 10:38	3	Forced Outage	ASPA
OIL	PB101 Unit 4	6	01/05/2024 4:29			Maintenance Outage	Offline due to hot manifold
OIL	PDPP1 Unit 2	5	01/04/2024 14:02			Forced Outage	Auto-tripped due to high EGT
OIL	PDPP3 H	13	01/03/2024 8:03			Forced Outage	PDPP-3 U-Hexcessive vibration at exhaust manifold
OIL	CENPRI 4	6.7	01/02/2024 22:11			Maintenance Outage	Offline due to excessive fuel leaks at main fuel header.
OIL	CENPRI 5	6.7	01/02/2024 22:10			Maintenance Outage	Offline due to excessive fuel leaks at main fuel header.
OIL	PDPP3 E	12	01/02/2024 21:34			Forced Outage	OFF-LINE (Internal Trouble)
OIL	PDPP3 E	12	12/29/2023 14:05			Maintenance Outage	On maintenance [water leak]
OIL	PDPP1 Unit 2	5	12/27/2023 17:06			Forced Outage	Internal trouble
OIL	TPC Carmen 2	10	12/27/2023 7:54	01/01/2024 9:10	5	Forced Outage	AUTO-TRIPPED DUE TO HIGH OIL MIST INTENSITY
OIL	TPC Carmen 4	10	12/26/2023 0:00			Planned Outage	Annual PMS
Mindanao							
BIOF	LSK U1	15	01/14/2024 0:20	01/21/2024 7:05	7	Maintenance Outage	Maintenance outage. ETC 01.21.2024
BIOF	LSK U1	15	01/14/2024 0:20			Forced Outage	Maintenance outage. ETC 01.21.2024
BIOF	14TACUR	6	12/27/2023 16:49	01/02/2024 7:53	6	Forced Outage	Emergency tripped due to leakage in evaporator zone. (Unplanned Outage)
COAL	MALITA 1	149.9	01/09/2024 8:14			Forced Outage	PMS (Non-GOMP). ETC February 23 2024.
COAL	MALITA 1	149.9	01/09/2024 8:14			Maintenance Outage	PMS (Non-GOMP). ETC February 23 2024.
COAL	MCC U3	55	01/19/2024 0:02			Forced Outage	PMS(Non-GOMP). ETC February 8 2024

List of Major Plant Outages

Plant Type	Plant/ Unit Name	Capacity (MW)	Date Out	Date In	Duration (Days)	Outage Type	Remarks
Mindanao							
COAL	MCC U3	55	01/19/2024 0:02			Maintenance Outage	PMS(Non-GOMP). ETC February 8 2024
COAL	MALITA 1	149.9	01/09/2024 8:14			Maintenance Outage	PMS (Non-GOMP). ETC January 23 2024.
COAL	STE U2	116	01/08/2024 14:00	01/13/2024 6:31	5	Forced Outage	Online from FO - Emergency Shutdown due to Boiler Fouling.
COAL	SMF1 U1	118.5	12/13/2023 20:38			Forced Outage	Forced outage. Cause Turbine High Vibration. ETC February 06 2024.
COAL	MALITA 1	149.9	01/09/2024 8:14			Forced Outage	PMS (Non-GOMP). ETC January 23 2024.
COAL	MALITA 1	149.9	01/09/2024 8:14			Forced Outage	Maintenance outage. ETC 01.23.2024
COAL	STE U2	116	01/08/2024 14:00			Forced Outage	Emergency Shutdown due to Boiler Fouling. No ETC yet.
COAL	SMF1 U1	118.5	12/13/2023 20:38			Forced Outage	Forced outage. Tripped with a 30.31MW load. Cause Turbine High Vibration. ETC 02.06.2024
COAL	FMP U1	135	01/01/2024 1:42	01/09/2024 16:39	9	Forced Outage	Emergency shutdown due to tube leak at cyclone A. (Unplanned Outage). Synchronized.
COAL	STE U2	116	01/08/2024 14:00			Forced Outage	Emergency Shutdown due to Boiler Fouling.
COAL	MALITA 2	150	12/30/2023 4:12	01/07/2024 20:02	9	Forced Outage	Synchronized from emergency shutdown due to boiler problem.
COAL	STE U1	116	12/28/2023 12:00	01/03/2024 13:48	6	Forced Outage	STEAG Unit 1 on emergency shutdown. Cause Boiler fouling. (Unplanned Outage)
COAL	FMP U1	135	01/01/2024 1:42			Forced Outage	Emergency shutdown due to tube leak at cyclone A. (Unplanned Outage).
COAL	FMP U1	135	01/01/2024 1:42			Forced Outage	Emergency shutdown to inspect possible tube leak at cyclone A (Unplanned Outage).
COAL	STE U1	116	12/28/2023 12:00			Forced Outage	STEAG Unit on emergency shutdown. Cause: Boiler fouling. (Unplanned Outage)
COAL	SMF1 U1	118.5	12/13/2023 20:38			Forced Outage	Forced outage. Tripped with a 30.31MW load. Cause: Turbine High Vibration.
COAL	MALITA 2	150	12/30/2023 4:12			Forced Outage	SMC Unit 2 on emergency shutdown due to boiler problem. Unplanned Outage.
COAL	STE U1	116	12/28/2023 12:00			Forced Outage	STEAG Unit on emergency shutdown. Cause Boiler fouling. (Unplanned Outage)
COAL	SMF1 U1	118.5	12/13/2023 20:38			Forced Outage	Forced outage. Tripped with a 30.31MW load. Cause Turbine High Vibration.
HYD	AG1 U1	35	01/14/2024 20:33			Forced Outage	Forced outage. Cause Thrust Bearing high temp. No ETC.
HYD	AG6 U2	31.1	01/16/2024 9:02			Maintenance Outage	PMS (Non-GOMP). ETC January 30 2024
HYD	AG6 U2	31.1	01/16/2024 9:02			Forced Outage	PMS (Non-GOMP). ETC January 30 2024
HYD	AG6 U1	31.5	01/16/2024 9:01			Planned Outage	PMS (GOMP). ETC January 30 2024
HYD	AG2 U1	60	12/28/2023 8:03	01/16/2024 14:40	19	Maintenance Outage	Cut in from PMS (Non-GOMP). Original ETC 01/03/2024.
HYD	AG2 U1	60	12/28/2023 8:03			Maintenance Outage	PMS (Non-GOMP). ETC 01/03/2024. Extended ETC Jan. 16 2024.
HYD	AG1 U1	35	01/14/2024 20:33	01/24/2024 16:59	10	Forced Outage	Forced outage. Cause Thrust Bearing high temp.
HYD	AG2 U1	60	12/28/2023 8:03			Forced Outage	PMS (Non-GOMP). ETC 01/03/2024. Extended ETC Jan. 15 2024.
HYD	AG6 U4	25	12/20/2023 0:00	01/12/2024 10:49	23	Forced Outage	On PMS from 11.20.23 to 12.19.23. Extended PMS (GOMP). ETC 01.12.2024 2359H
HYD	AG2 U1	60	12/28/2023 8:03			Forced Outage	PMS (Non-GOMP). ETC 01/03/2024. Extended ETC Jan. 14 2024.
HYD	AG6 U4	25	12/20/2023 0:00			Forced Outage	On PMS from 11.20.23 to 12.19.23. Extended PMS (GOMP). ETC 01.11.2024 1000H
HYD	AG6 U4	25	12/20/2023 0:00			Forced Outage	On PMS from 11.20.23 to 12.19.23. Extended PMS (GOMP). ETC 01.10.2024
HYD	PG4 U3	75	01/08/2024 15:36			Forced Outage	Forced Outage. Low Water Elevation.
HYD	AG2 U1	60	12/28/2023 8:03			Maintenance Outage	PMS (Non-GOMP). ETC 01/03/2024. Extended ETC Jan. 11 2024.
HYD	TU2 U1	8.1	01/06/2024 8:30			Forced Outage	Forced Outage due to Insufficient Water Supply.
HYD	SBL B U1	14	01/06/2024 8:28			Forced Outage	Forced Outage. Indication Common System Problem.
HYD	AG2 U1	60	12/28/2023 8:03			Forced Outage	PMS (Non-GOMP). ETC 01/03/2024. Extended ETC Jan. 11 2024.
HYD	AG6 U4	25	12/20/2023 0:00			Forced Outage	On PMS from 11.20.23 to 12.19.23. Extended PMS (GOMP). No ETC.
HYD	AG2 U1	60	12/28/2023 8:03			Maintenance Outage	PMS (Non-GOMP). ETC January 3 2024
HYD	AG1 U1	35	12/31/2023 0:00	01/05/2024 15:47	6	Forced Outage	On PMS from 12/01/2023 to 12/30/2023. Extended PMS (GOMP). ETC January 6 2024.
HYD	AG1 U1	35	12/31/2023 0:00			Forced Outage	Forced outage. On PMS from 12/01/2023 to 12/30/2023. Extended PMS (GOMP).
HYD	AG2 U1	60	12/28/2023 8:03			Forced Outage	Agus 2 Unit 1 shutdown with 30.0 MW load. Reason: To facilitate leakage inspection at generator s oil pan. Non-GOMP. Un-Planned Outage. ETC: January 3 2024
HYD	AG2 U1	60	12/28/2023 8:03			Forced Outage	Agus 2 Unit 1 shutdown with 30.0 MW load. Reason To facilitate leakage inspection at generator s oil pan. Non-GOMP. Un-Planned Outage. ETC January 3 2024
HYD	AG6 U4	25	12/20/2023 0:00			Forced Outage	Forced Outage. On PMS from 11.20.23 to 12.19.23. Extended PMS (GOMP).
HYD	AG6 U2	31.1	12/22/2023 9:14	12/29/2023 21:10	7	Planned Outage	Agus 6 Unit 2 shutdown. PMS-GOMP. ETC 2359H 12.29.2023
HYD	AG6 U1	31.5	12/22/2023 9:11	12/29/2023 20:46	7	Planned Outage	Agus 6 Unit 1 shutdown. PMS-GOMP. ETC 2359H 12.29.2023
HYD	AG1 U1	35	12/01/2023 8:10			Planned Outage	PMS (GOMP). ETC December 30 2023.
OIL	TM1 U1	49	01/08/2024 21:00			Forced Outage	TM1 1 Unit 1 declared unavailable. Reason HVAC Issue. AS/CR transferred to TSI Unit 1 and 2. Unplanned Outage.
OIL	TM1 U1	49	01/06/2024 22:01			Forced Outage	TM1 1 Unit 1 declared unavailable due to HVAC issue. AS/CR transfer to TSI U1 & U2. Unplanned outage.
OIL	MATIBNK DPP 1	11	01/06/2024 18:59			Forced Outage	Forced Outage. Indication Overcurrent.
OIL	PSF U1	5.2	01/03/2024 15:10			Forced Outage	Declared forced outage at 1510H. Failed to cut-in. Indication Transformer differential (87T). (Unplanned Outage)
OIL	TM1 U1	49	12/31/2023 18:28			Forced Outage	Declared on forced outage. Reason: Batteries temperature reached its limit.

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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