



# MONTHLY OVER-RIDING CONSTRAINTS HIGHLIGHTS

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26 August to 25 September 2023

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

# SUMMARY OF OBSERVATIONS

- Decrease in over-riding constraint (OC) impositions related to commissioning tests due to expiration of Provisional Certificates of Approval to Connect (PCATCs) of two (2) plants.
- Increase of ancillary service tests involving thirteen (13) plants.
- OC impositions in Mindanao mostly attributable to designation of Oil-based plants as Must-Run Units (MRUs) to address system voltage requirement.

## AT A GLANCE

Total Over-riding  
Constraints  
Imposition

**44,456**

▼ **8.1%**  
decrease from  
previous billing  
period



**LUZON**  
**36,084**



**COAL** plants have the  
**HIGHEST #** of OC imposition

**COAL** plants, on average, had the  
**LARGEST MW** scheduled due to  
**PERFORMANCE TEST**



**MOST** impositions were due to  
**COMMISSIONING TESTS**



**VISAYAS**  
**2,712**



**OIL-BASED** plants have the  
**HIGHEST #** of OC imposition

**COAL** plants, on average, had the  
**LARGEST MW** scheduled due to  
**ANCILLARY SERVICE TEST**



**MOST** impositions were due to  
**COMMERCIAL AND REGULATORY  
REQUIREMENT TESTS**



**MINDANAO**  
**5,660**



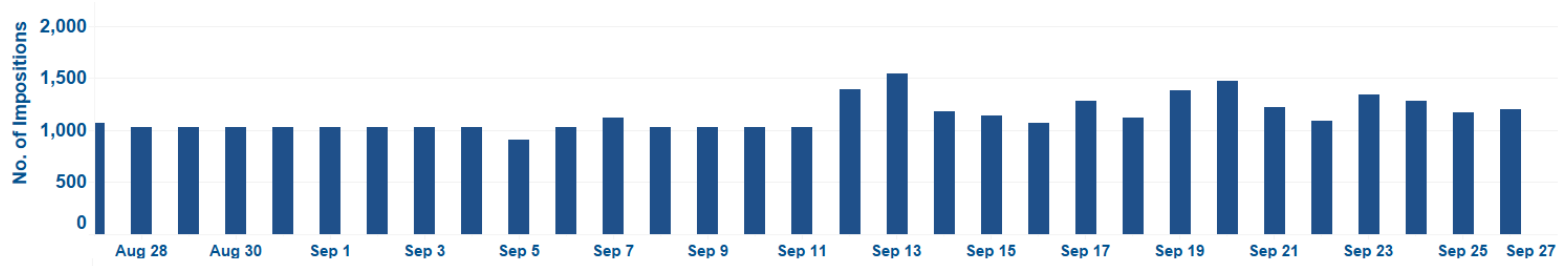
**OIL-BASED** plants have the  
**HIGHEST #** of OC imposition



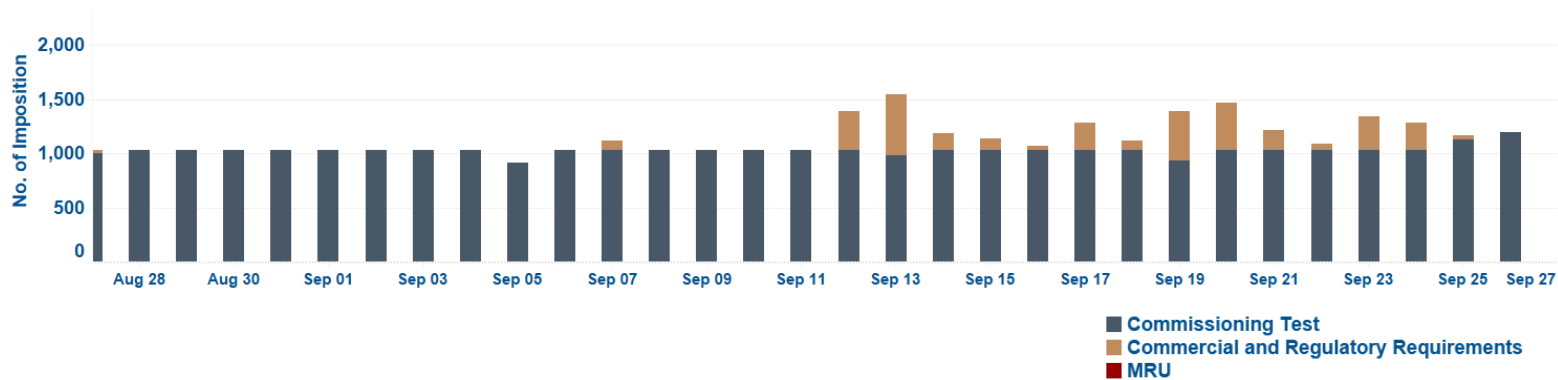
**MOST** impositions are due to **MUST-RUN UNIT**

# OC IMPOSITIONS

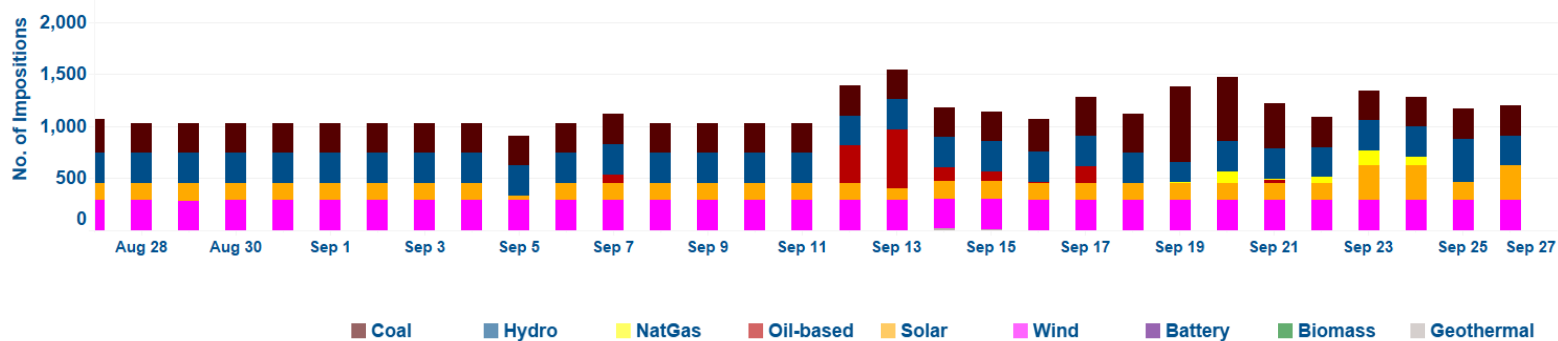
## LUZON



## by incident



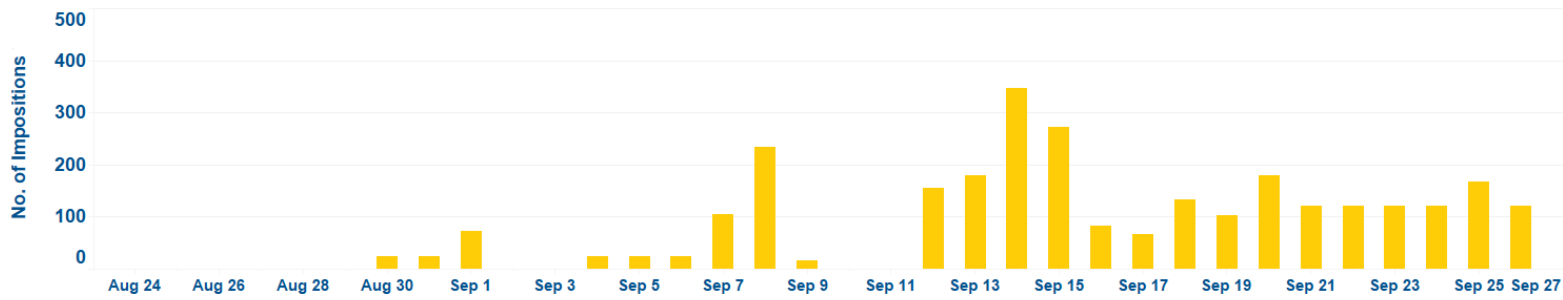
## by plant type



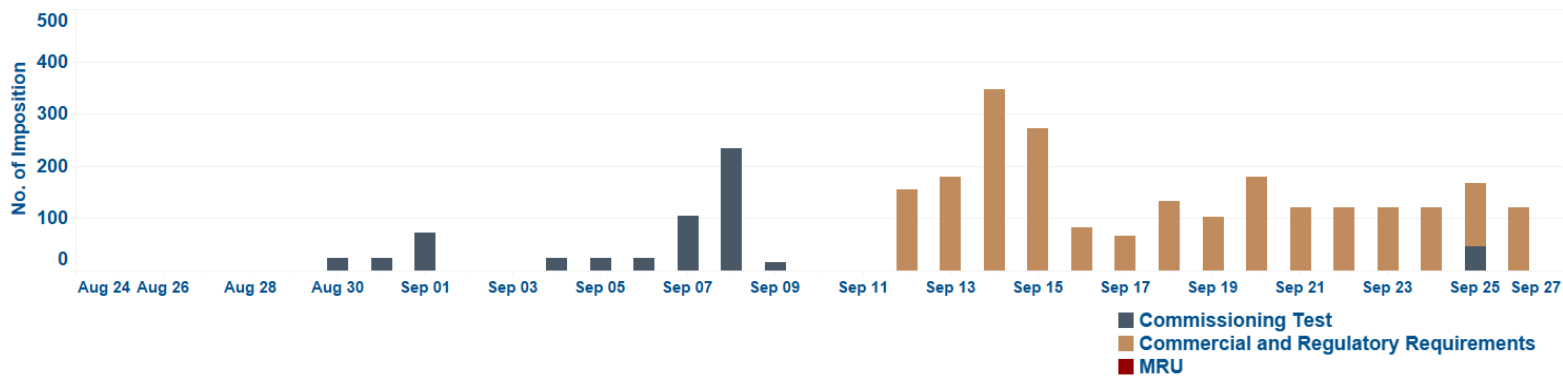
Majority of the OC impositions were noted to be accounted to Luzon grid plants attributable to the conduct of **commissioning tests**. It was likewise observed that an **oil-based** plant conducted **ancillary service test** during the third week of the reviewed billing period.

# OC IMPOSITIONS

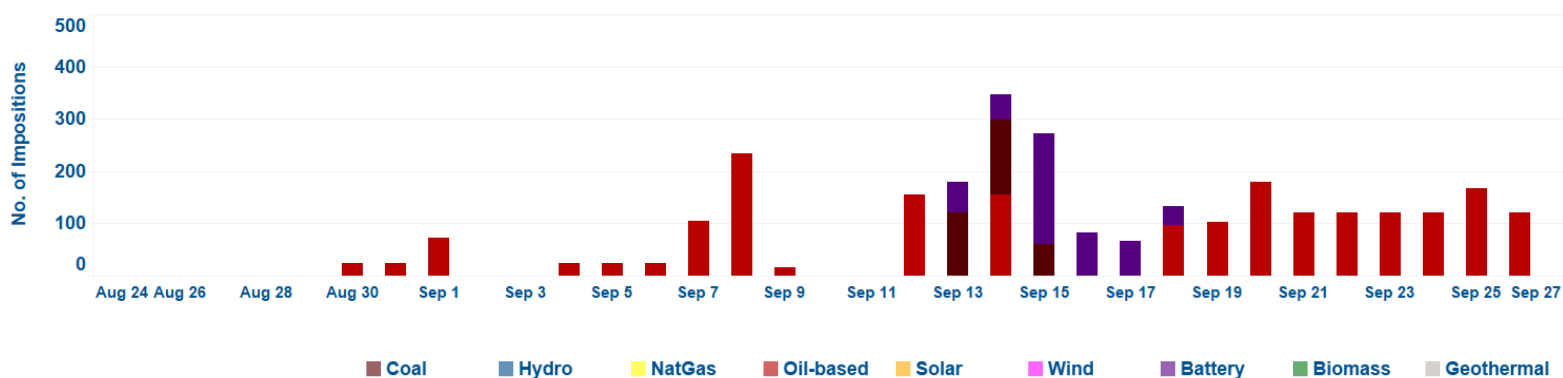
## VISAYAS



## by incident

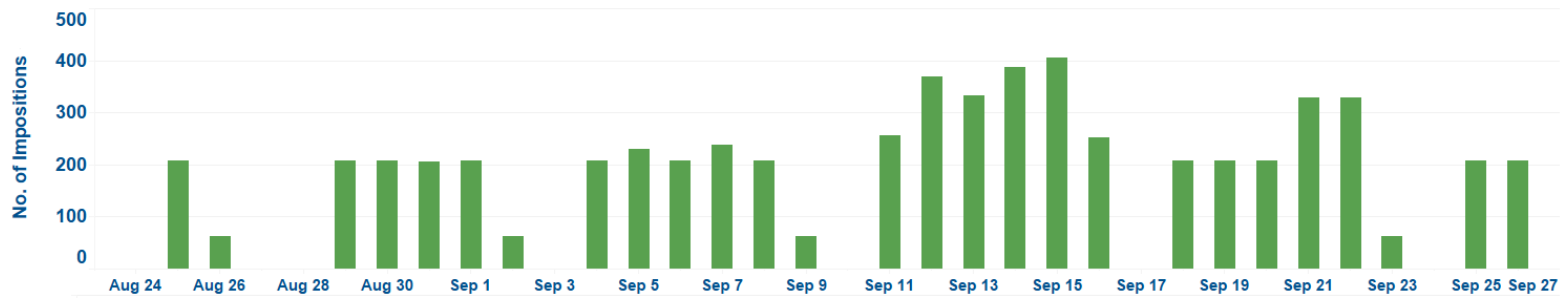


## by plant type

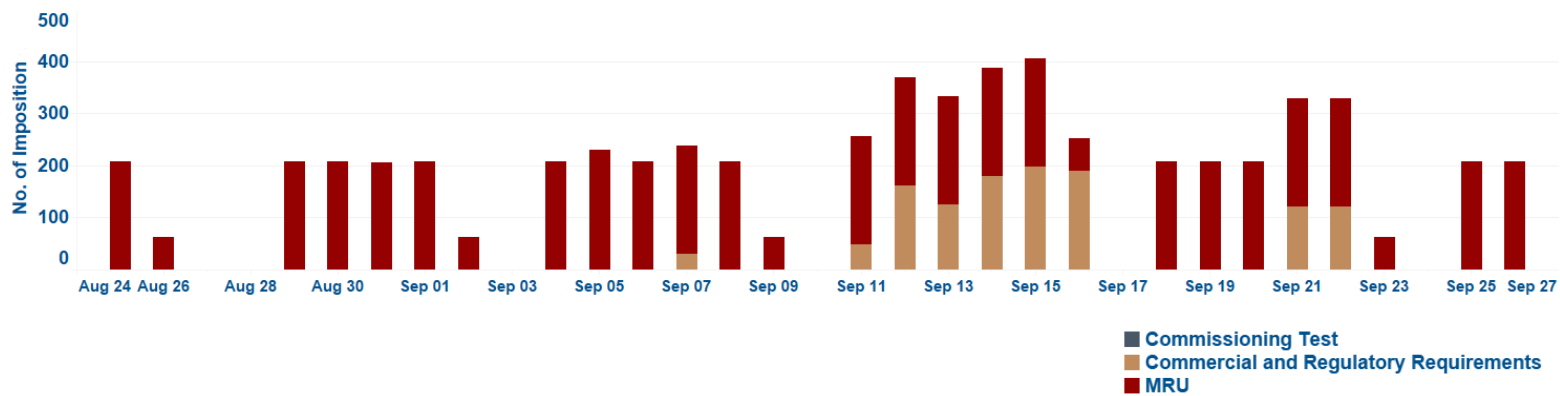


Compared to Luzon, **small shares of OC impositions** were imposed in the **Visayas region**. Most of which were related to **oil-based** plants due to conduct of **emission and ancillary service tests**.

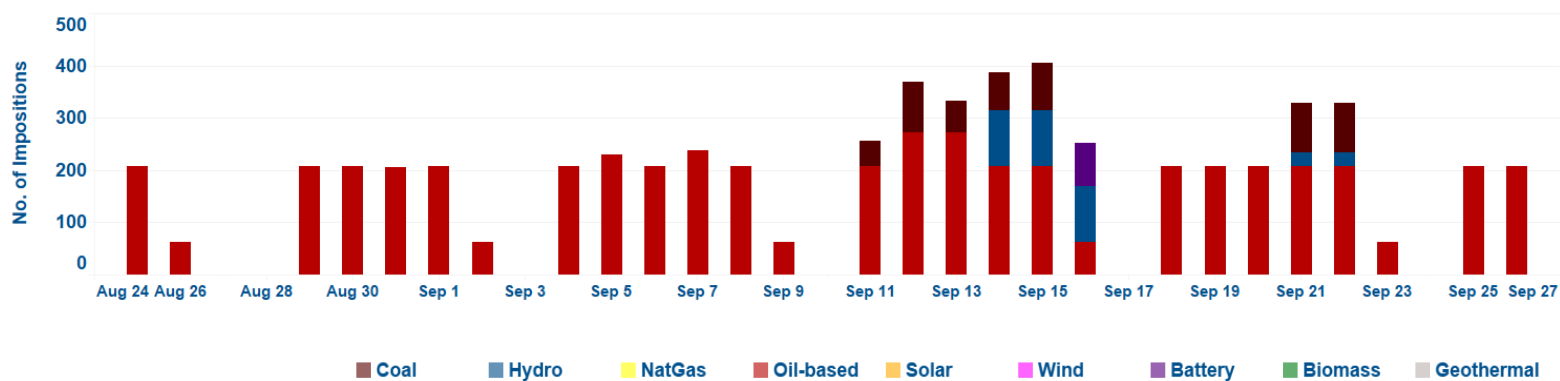
# OC IMPOSITIONS MINDANAO



## by incident



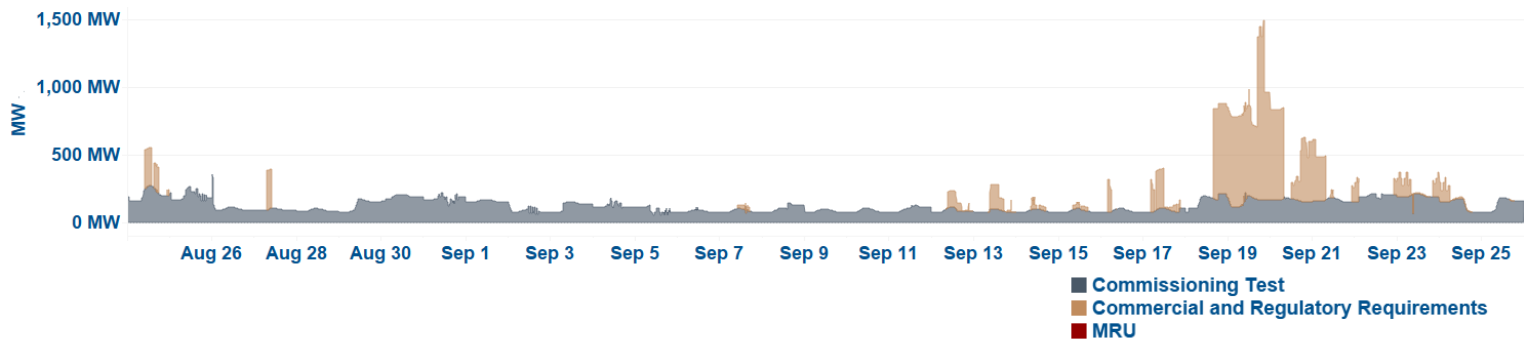
## by plant type



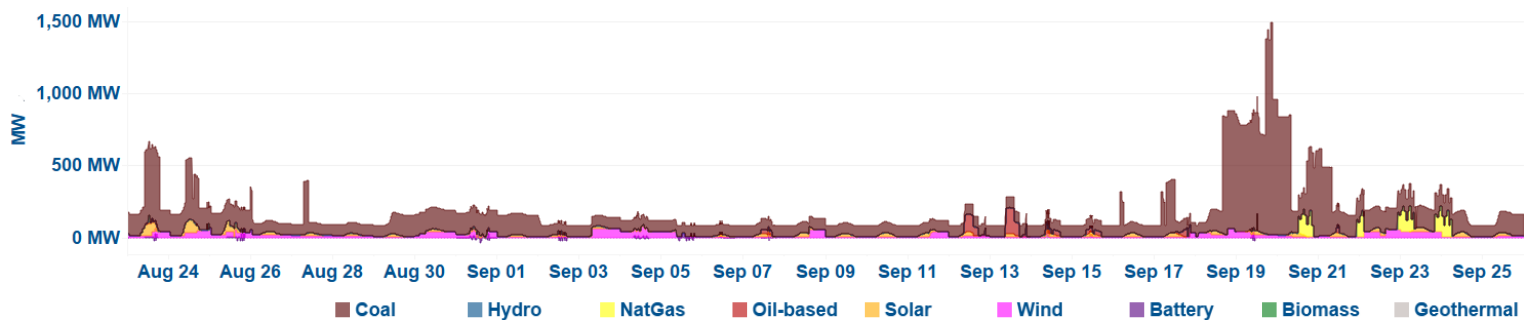
In Mindanao, an **oil-based** plant was dispatched **most of the time as MRU** during the September 2023 billing period. It was also observed that OC impositions decreased during weekends and holidays.

## by incident

## LUZON



## by plant type

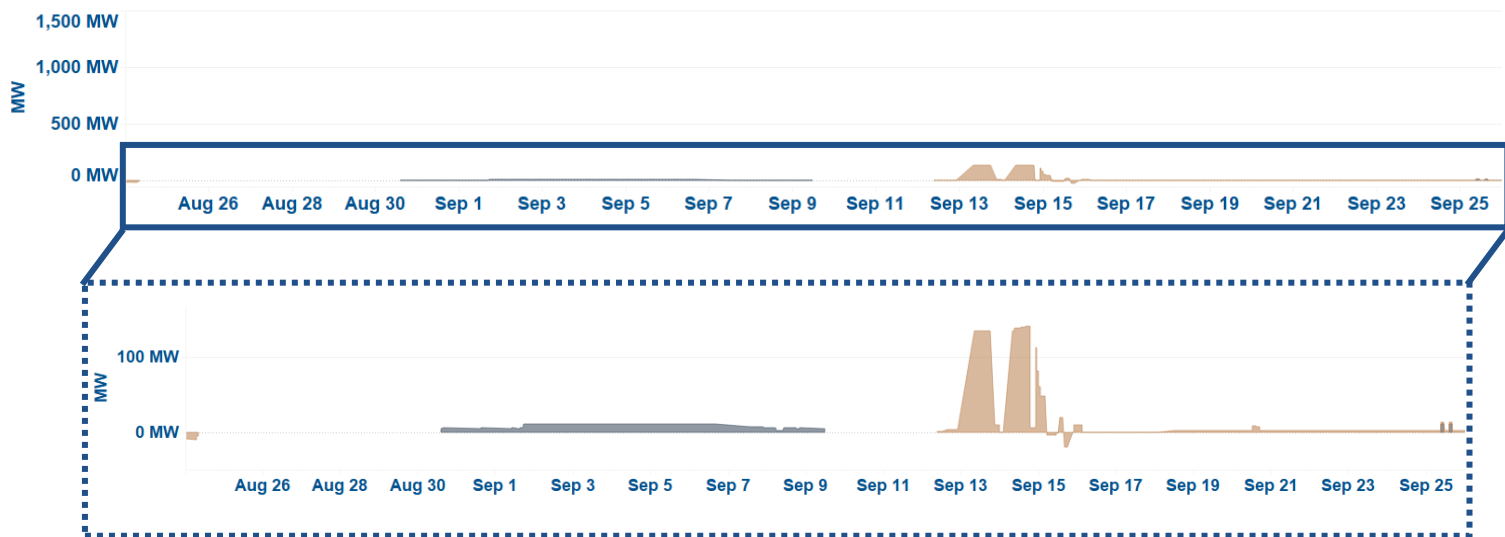


In Luzon, the highest MW scheduled was due to the conduct of performance tests of a coal plant during the last week of the billing period.

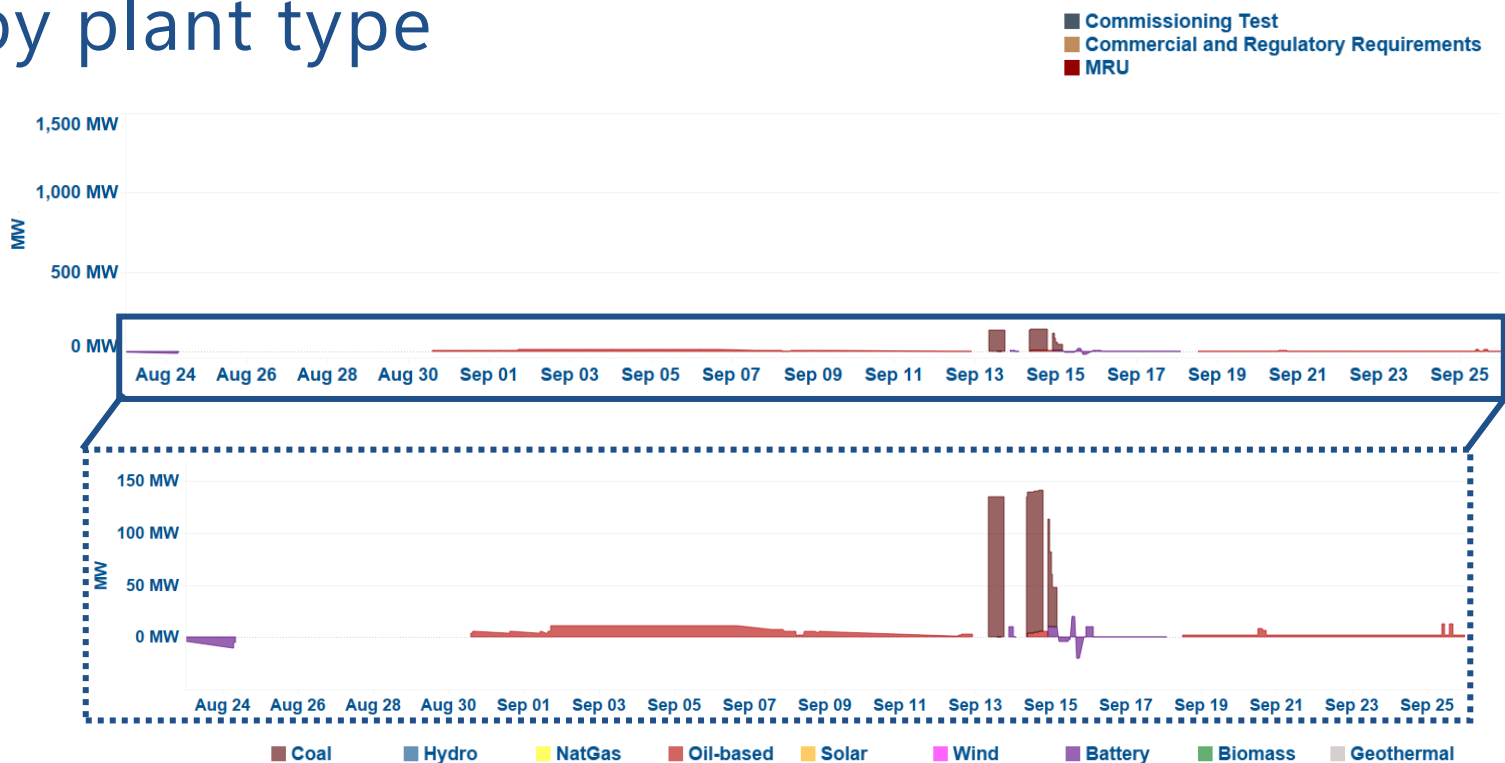
Luzon	MW Schedule	Plant Type	Incident
Minimum	-24.00 MW	BESS	Commissioning Test
Average	45.50 MW		
Maximum	668.00 MW	COAL	Performance Test

## by incident

## VISAYAS



## by plant type

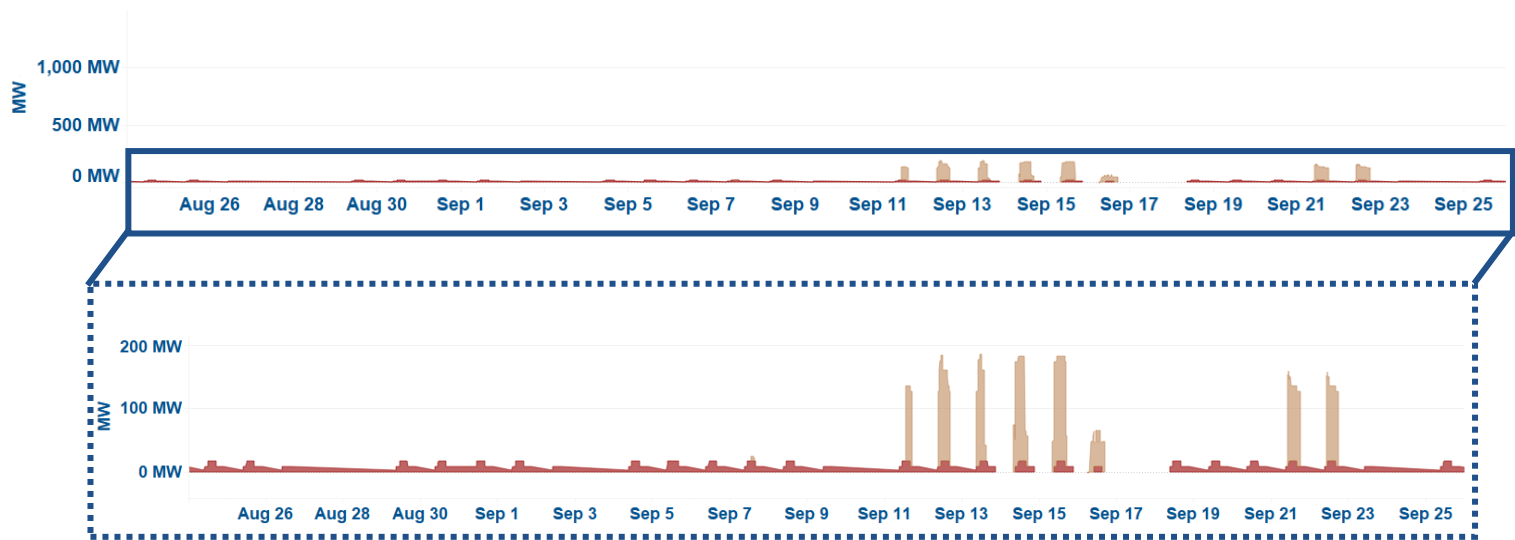


**Ancillary service test and emission test of coal plants** contributed to the recorded highest MW schedule from 13 to 15 September 2023.

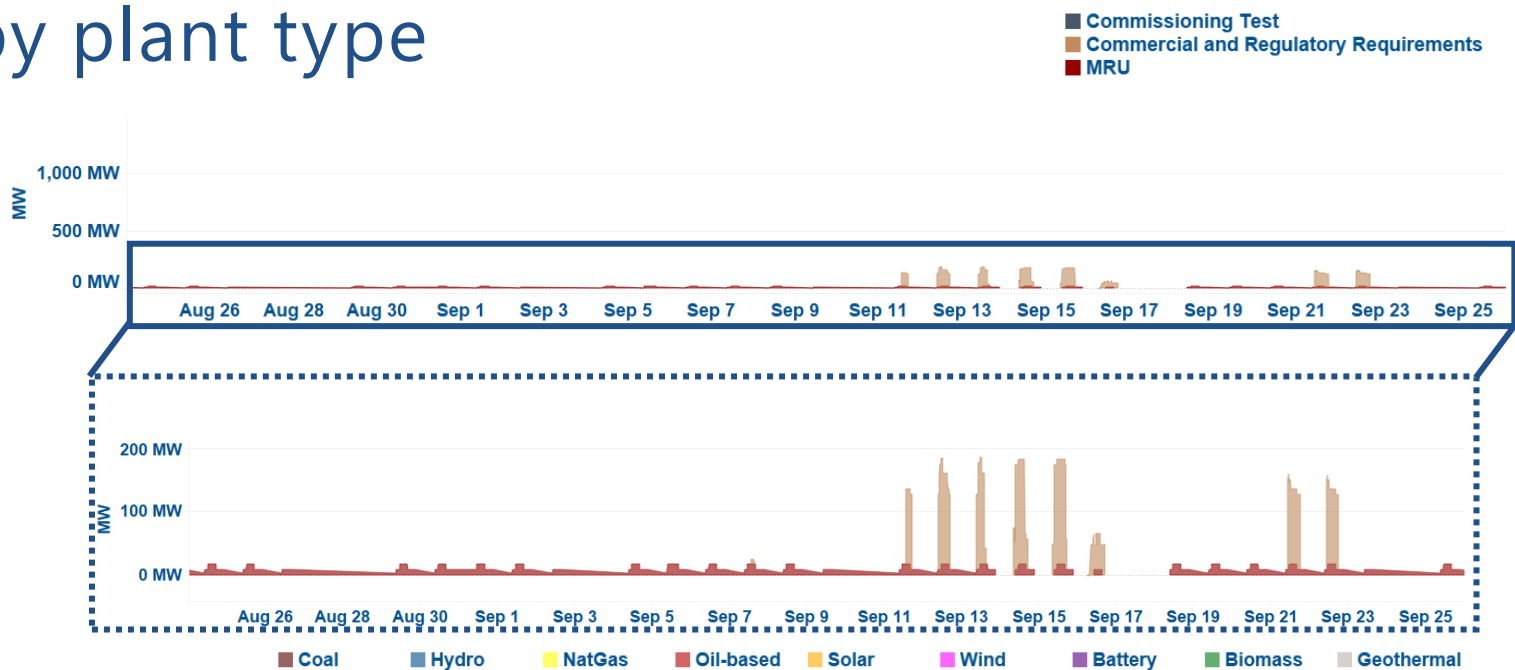
Visayas	MW Schedule	Plant Type	Incident
Minimum	-20.00 MW	BESS	Ancillary Service Test
Average	17.13 MW		
Maximum	135.00 MW	COAL	Emission Test

by incident

MW SCHEDULES  
MINDANAO



by plant type

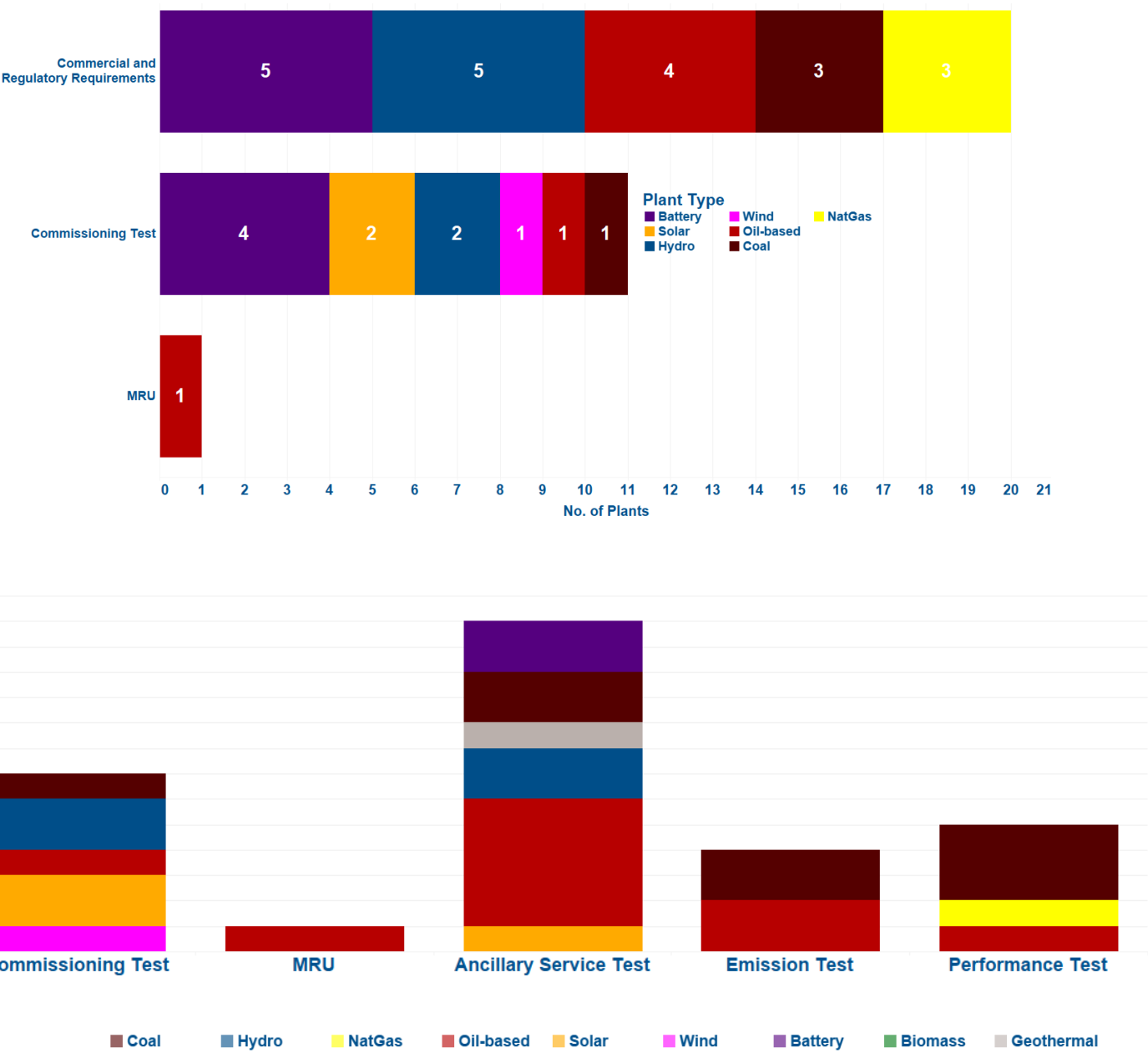


Majority of the MW scheduled in Mindanao was due to the designation as MRU of an oil-based plant. In addition, there was an observed **emission test** of a **coal plant** towards the end of the billing period.

Mindanao	MW Schedule	Plant Type	Incident
Minimum	-10.00 MW	BESS	Ancillary Service Test
Average	45.50 MW		
Maximum	118.50 MW	COAL	Emission Test



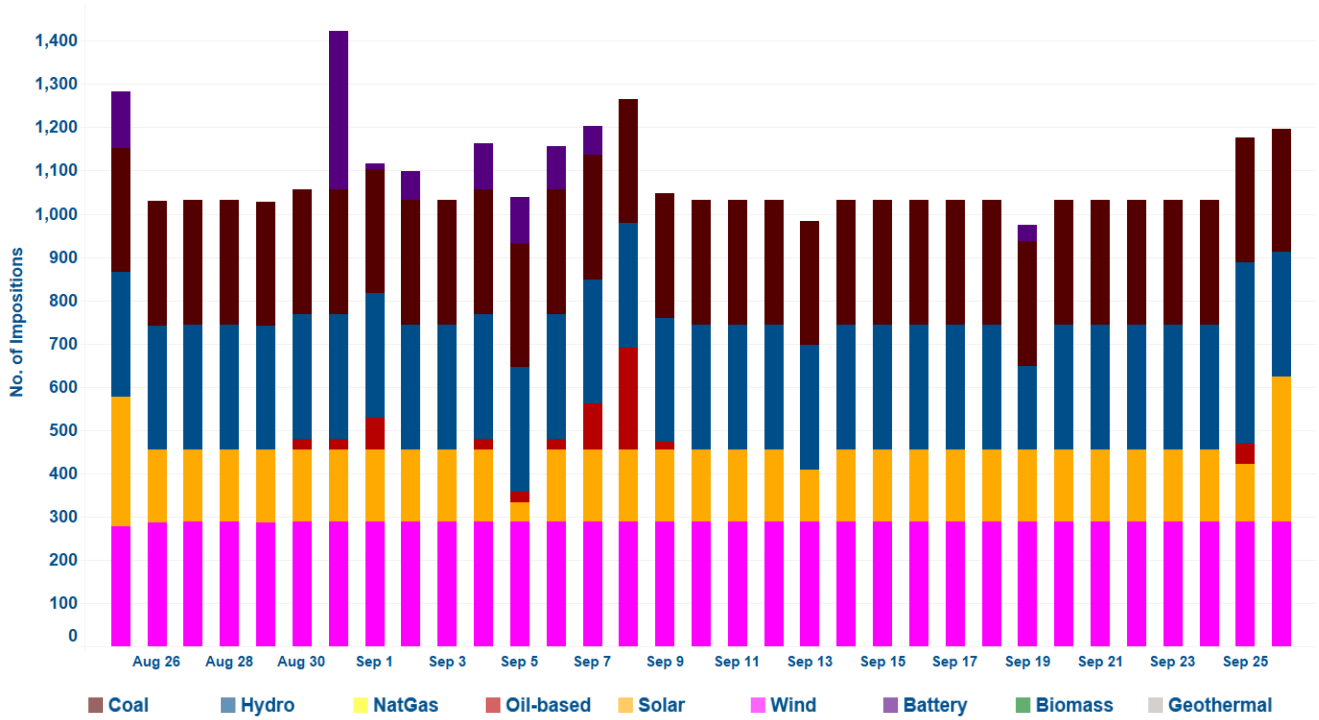
# NUMBER OF PLANTS



A total of thirty (30) plants was imposed with over-riding constraints, thirteen (13) of which conducted ancillary service tests, followed by commissioning test of seven (7) plants. OCs related to performance and emission test was imposed to five (5) and four (4) plants, respectively. While the remaining one (1) plant was imposed with MRU related OCs.

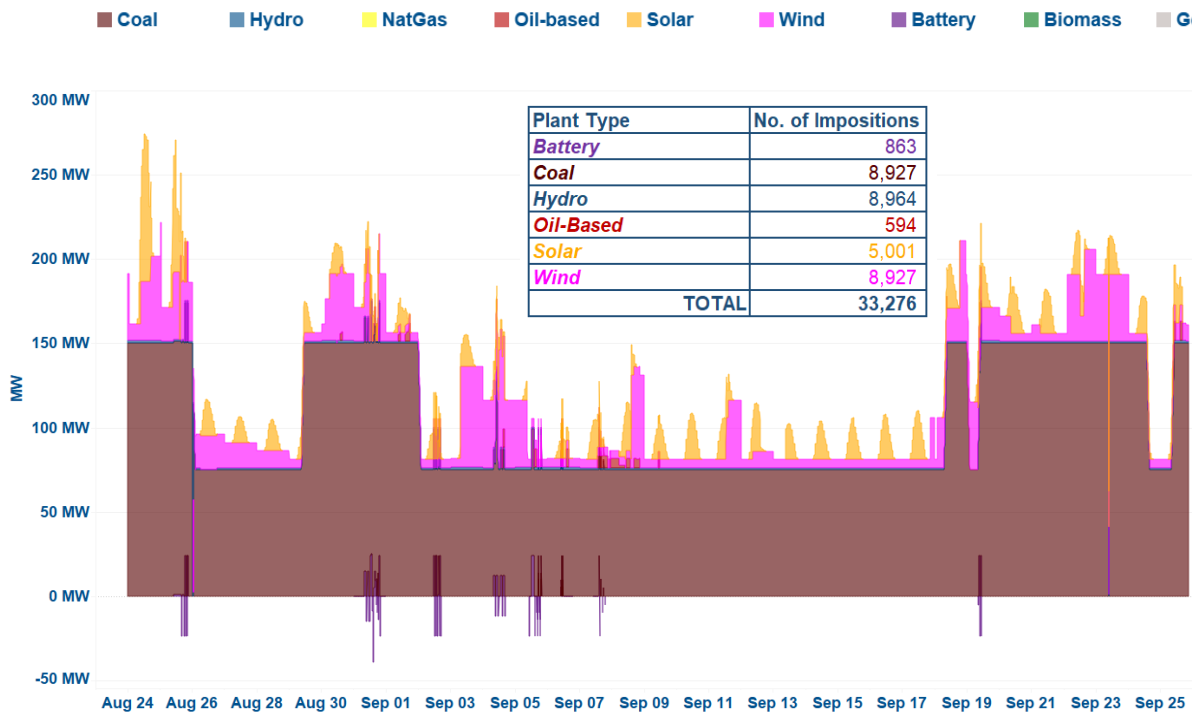
# OC IMPOSITIONS

## PLANTS UNDER COMMISSIONING TESTS



# MW SCHEDULE

## PLANTS UNDER COMMISSIONING TESTS



In terms of the number of impositions, coal, hydro, and wind plants had the greatest number of impositions related to commissioning test during the billing period.

The highest MW scheduling was attributable to a coal plant with a large capacity. Meanwhile, wind and solar plants' MW schedules varied throughout the reviewed billing period.

# ANNEX

## Plants with Over-riding Constraints

Plant/Unit Name	Plant Type	Registered Capacity (MW) <sup>1</sup>
<b>LUZON</b>		
Arayat-Mexico Solar Power Plant Project Phase 2	Solar	30.9
Balaoi and Caunayan Wind Power Project Phase 1	Wind	80
Cayanga-Bugallon Solar Power Plant	Solar	75.1
Bunker C-Fired Diesel Power Plant	Oil-based	20
Concepcion Battery Energy Storage System	Battery	60
GNPower Dinginin Coal Plant - Unit 1	Coal	668
Bataan Combined Cycle Power Plant Unit 3	Oil-based	60
Bataan Combined Cycle Power Plant Unit 5	Oil-based	60
Bataan Combined Cycle Power Plant Unit 6	Oil-based	60
Bataan Combined Cycle Power Plant Unit 7	Oil-based	60
Magat Battery Energy Storage System	Battery	24
Mariveles Solar Power Plant	Solar	16
Mariveles Coal-fired Thermal Power Plant- Phase 1	Coal	150
Mariveles Coal-fired Thermal Power Plant Unit 2	Coal	150
Masinloc Coal-Fired Thermal Power Plant Unit 1	Coal	344
Masinloc Coal-Fired Thermal Power Plant Unit 2	Coal	344
Masinloc Coal-Fired Thermal Power Plant Unit 3	Coal	335
Refinery Solid Fuel-Fired Boiler Power Plant	Coal	140
Sual Coal-Fired Power Plant 1	Coal	647
Sual Coal-Fired Power Plant 2	Coal	647
Trust Solar Power Plant	Solar	15.4
Lower Labayat Hydroelectric Power Plant	Hydro	1.5
Malaya Thermal Power Plant Unit 2	Oil-based	130
Makban-Binary 1 Geothermal Power Plant	Geothermal	6
Pagbilao Coal-Fired Power Plant 1	Coal	382
Pagbilao Coal-Fired Power Plant 2	Coal	382
Pagbilao 3 Power Plant	Coal	420
Sta. Rita Natural Gas Power Plant 2	Natural Gas	255.7
Sta. Rita Natural Gas Power Plant 3	Natural Gas	265.5
San Lorenzo Combined-Cycle Gas Turbine Power Plant Unit 50	Natural Gas	265
Tibag Hydroelectric Power Plant	Hydro	5.8
CEDC Coal-Fired Thermal Power Plant Unit 3	Coal	82
<b>VISAYAS</b>		
Calbayog Bunker C-Fired Diesel Power Plant	Oil-based	11.2

<sup>1</sup> As of 27 October 2023

Plant/Unit Name	Plant Type	Registered Capacity (MW) <sup>1</sup>
Isabel Modular Diesel Power Plant Sector 3	Oil-based	15.1
Isabel Modular Diesel Power Plant Sector 5	Oil-based	15.1
Isabel Modular Diesel Power Plant Sector 6	Oil-based	10.2
CEDC Coal-Fired Thermal Power Plant Unit 2	Coal	82
CEDC Coal-Fired Thermal Power Plant Unit 3	Coal	82
Calumangan Bunker C-Fired Diesel Power Plant Unit 1	Oil-based	4.5
Calumangan Bunker C-Fired Diesel Power Plant Unit 2	Oil-based	4.5
Calumangan Bunker C-Fired Diesel Power Plant Unit 3	Oil-based	4.5
Calumangan Bunker C-Fired Diesel Power Plant Unit 4	Oil-based	6.7
Calumangan Diesel Power Plant Unit 5	Oil-based	6.7
Power Barge 104 Unit 1	Oil-based	7
Power Barge 104 Unit 2	Oil-based	7
Power Barge 104 Unit 3	Oil-based	7
Power Barge 101- Unit 1	Oil-based	6
Power Barge 101- Unit 2	Oil-based	6
Power Barge 101- Unit 4	Oil-based	6
<b>MINDANAO</b>		
Misamis Occidental Bunker C-Fired Diesel Power Plant 3	Oil-based	15.5
Libertad Power Biomass Power Plant	Biomass	6
Misamis Occidental Bunker C-Fired Power Plant 2 Unit 1	Oil-based	7.8
Misamis Occidental Bunker C-Fired Power Plant 2 Unit 2	Oil-based	7.8
Bunker-C Fired Diesel Power Plant Unit 1	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 2	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 4	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 5	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 6	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 7	Oil-based	10
Bunker-C Fired Diesel Power Plant Unit 8	Oil-based	10.1
Bunker-C Fired Diesel Power Plant Unit 9	Oil-based	10.2
Bunker-C Fired Diesel Power Plant Unit 10	Oil-based	10.2
NBPC Bunker C Fired Diesel Power Plant	Oil-based	5
Surigao Del Sur Power Plant	Oil-based	7.8
Mobile 2 Bunker C-Fired Power Plant Unit 1	Oil-based	50
Mobile 2 Bunker C-Fired Power Plant Unit 2	Oil-based	50
Bunker C-Fired Diesel Power Plant	Oil-based	13

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