



MONTHLY OVER-RIDING CONSTRAINTS HIGHLIGHTS

26 July to 25 August 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

- Increase in over-riding constraints (OC) impositions in Luzon was due to extension of commissioning test period of plants who previously have expired Provisional Certificates of Approval to Connect (PCATCs).
- Natural gas plants imposed with OC were noted to have had the largest MW capacities affected.
- In Mindanao, most OCs were imposed to Oil-based plants and majority of which were attributable to designation as Must-Run Units (MRUs) to address the system voltage requirement.

AT A GLANCE

Total Over-riding
Constraints
Imposition

48,359

▼ **7.8%**
decrease from
previous billing
period



LUZON
40,486



HYDRO plants have the
HIGHEST # of OC imposition

NATGAS plants, on average,
have the **LARGEST MW** scheduled
due to **PERFORMANCE TEST**



MOST impositions were due to
COMMISSIONING TESTS



VISAYAS
1,828



HYDRO plants have the
HIGHEST # of OC
imposition and on average,
have the **LARGEST MW**
scheduled due to
COMMISSIONING TEST

Same with Luzon, **MOST** impositions
were due to **COMMISSIONING**



MINDANAO
6,045



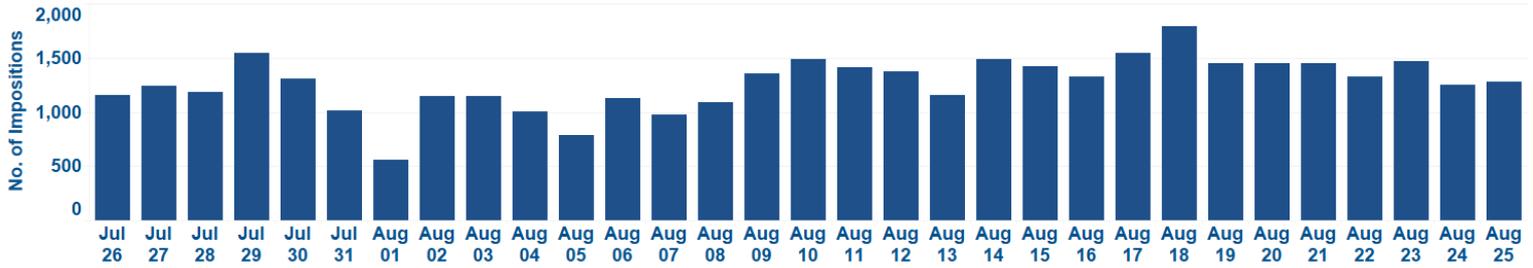
OIL-BASED plants have the
HIGHEST # of OC imposition



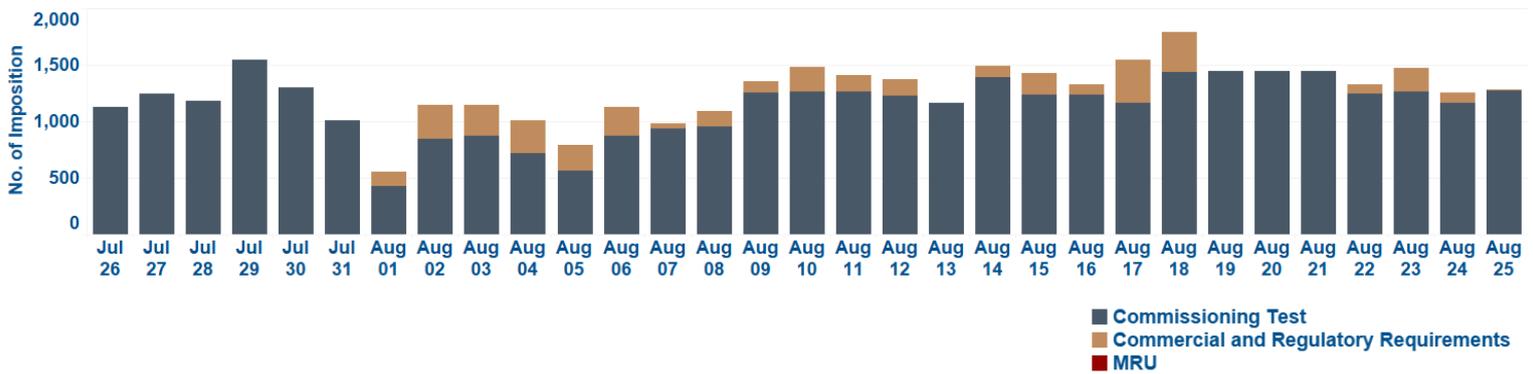
MOST impositions were due to
MUST-RUN UNIT

OC IMPOSITIONS

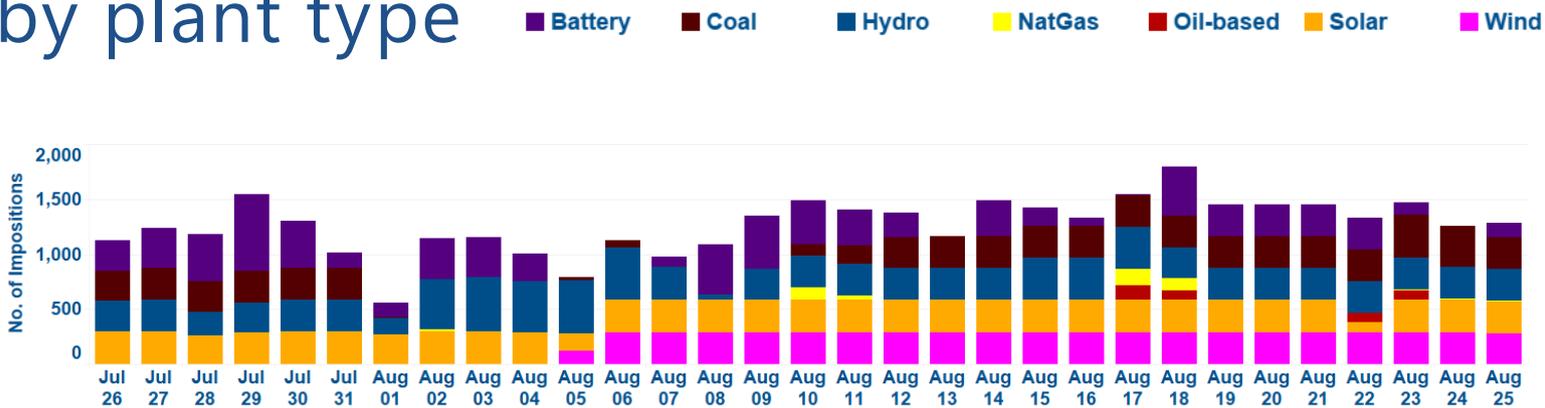
LUZON



by incident



by plant type



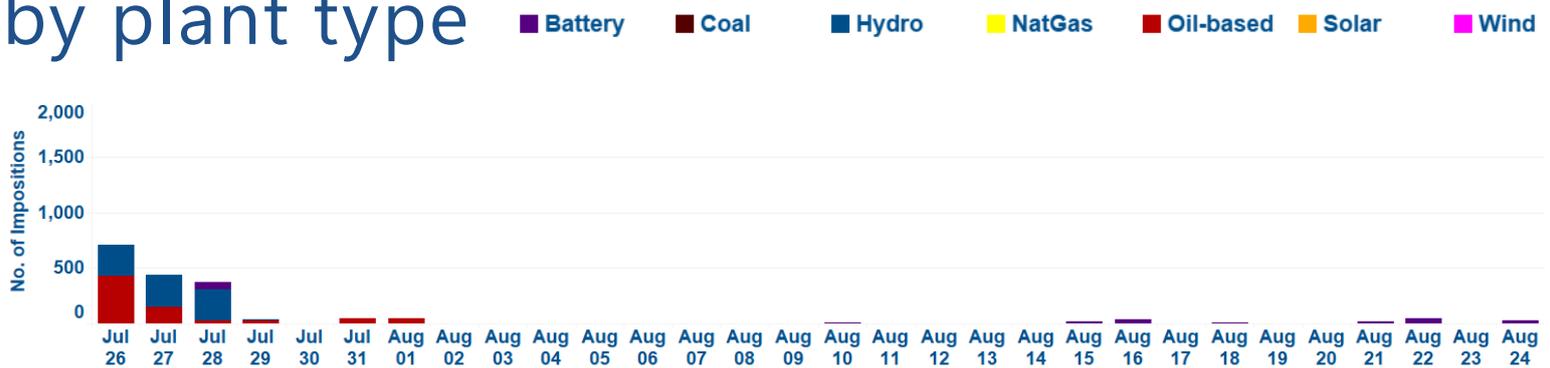
Majority of the OC impositions were noted to be accounted to Luzon grid plants. Expiration of PCATC of one (1) Coal and one (1) BESS was noted at the first week of August 2023.



by incident

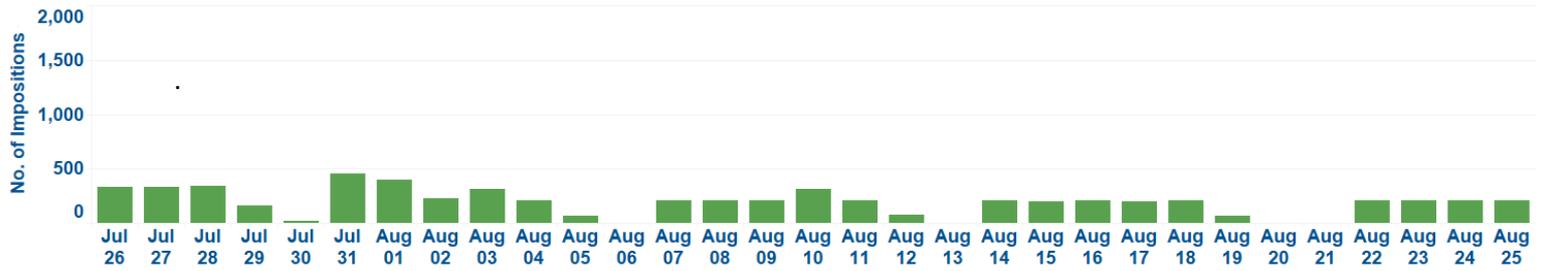


by plant type

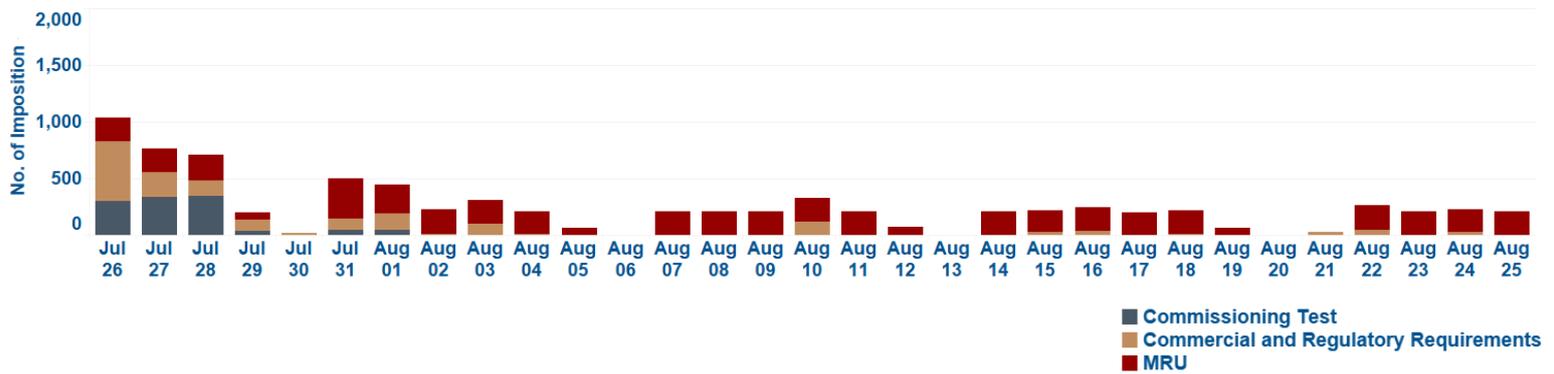


Small shares of OC impositions were imposed in the **Visayas region**. Most of which were related to commissioning test of hydro plants.

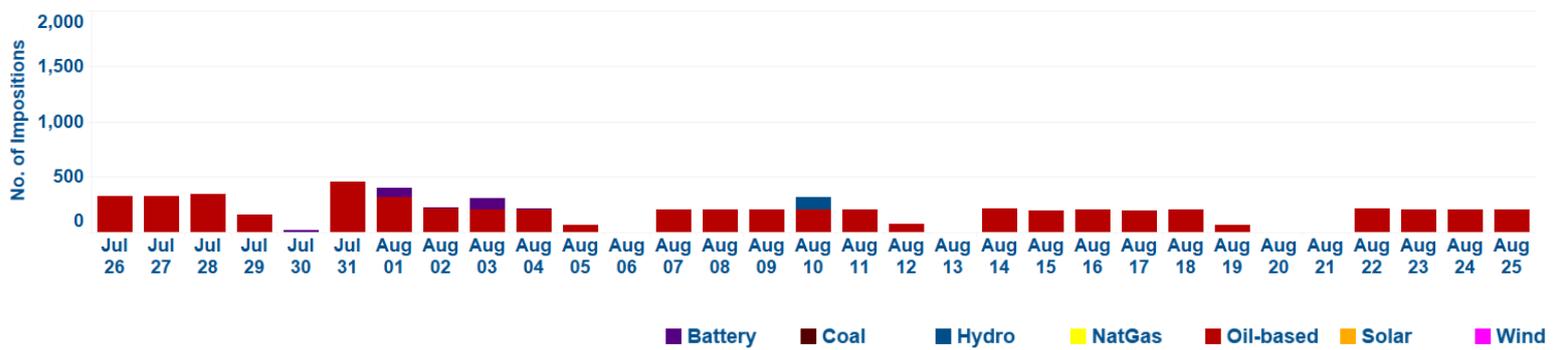
OC IMPOSITIONS MINDANAO



by incident



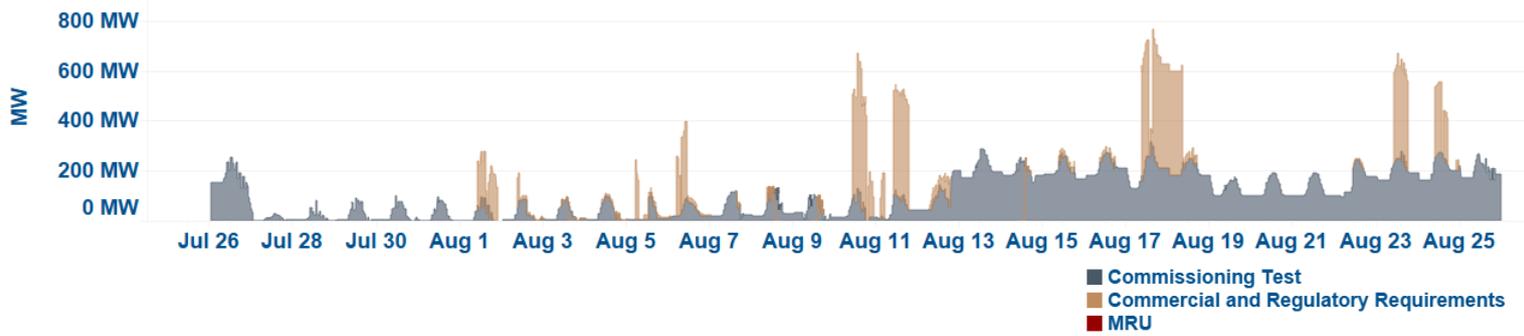
by plant type



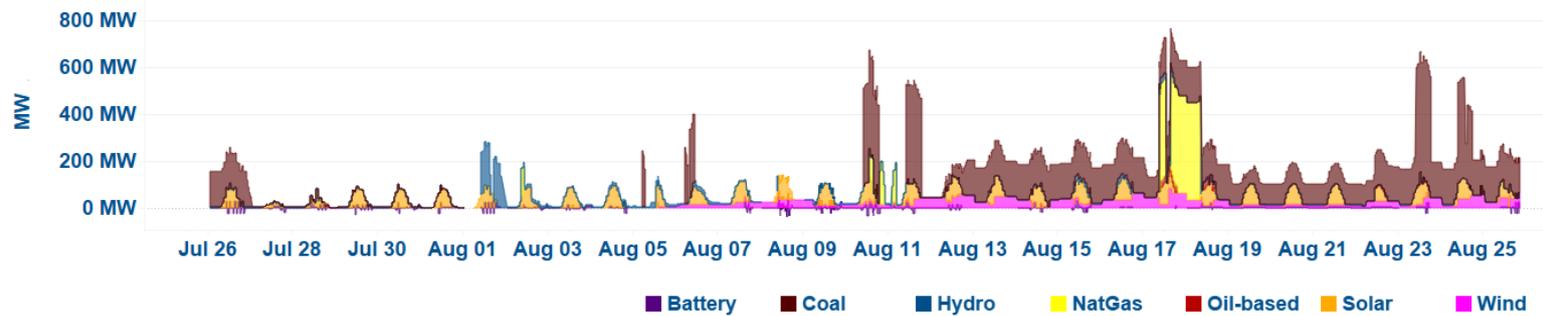
In Mindanao, oil-based plants were dispatched most of the time as MRU during the August 2023 billing period. It was also observed that OC impositions decreases during weekends.

by incident

LUZON



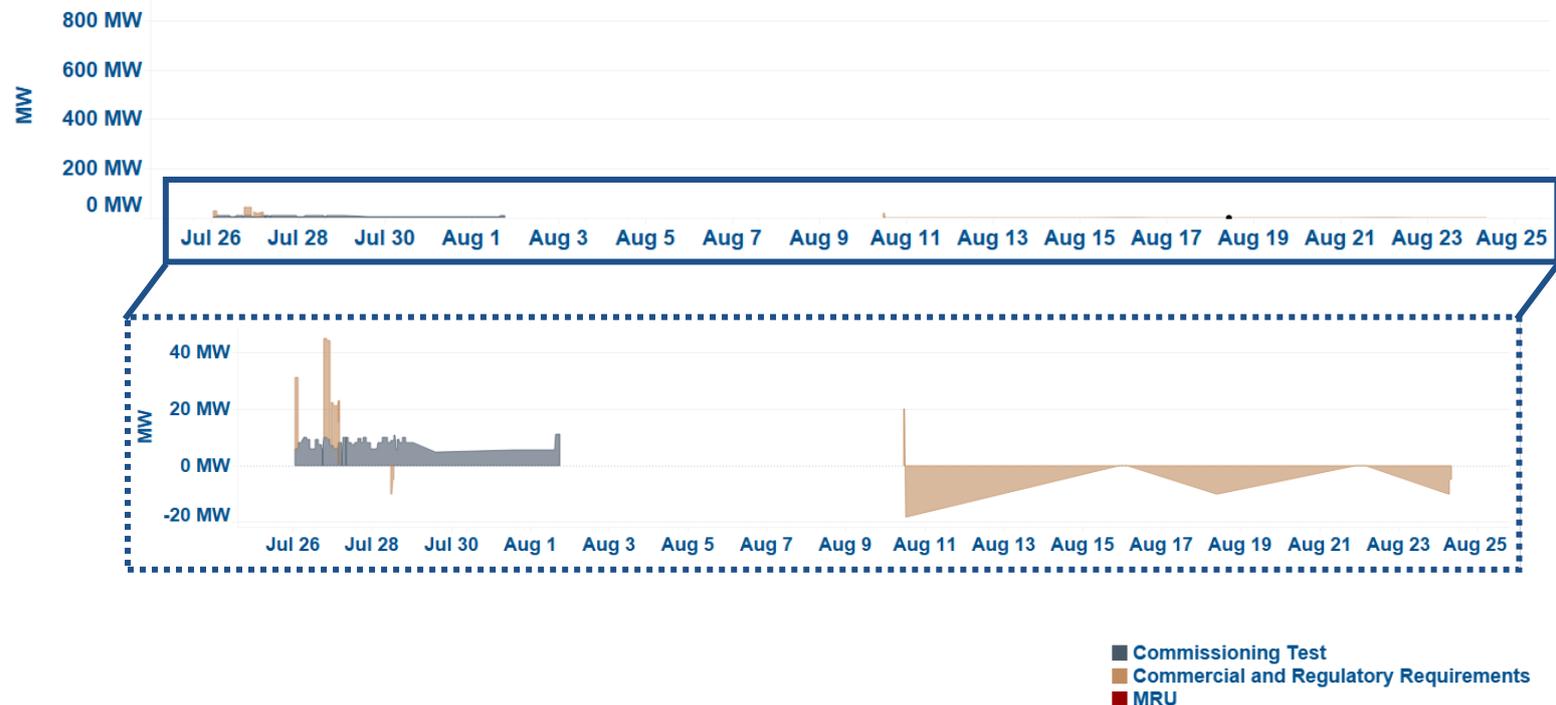
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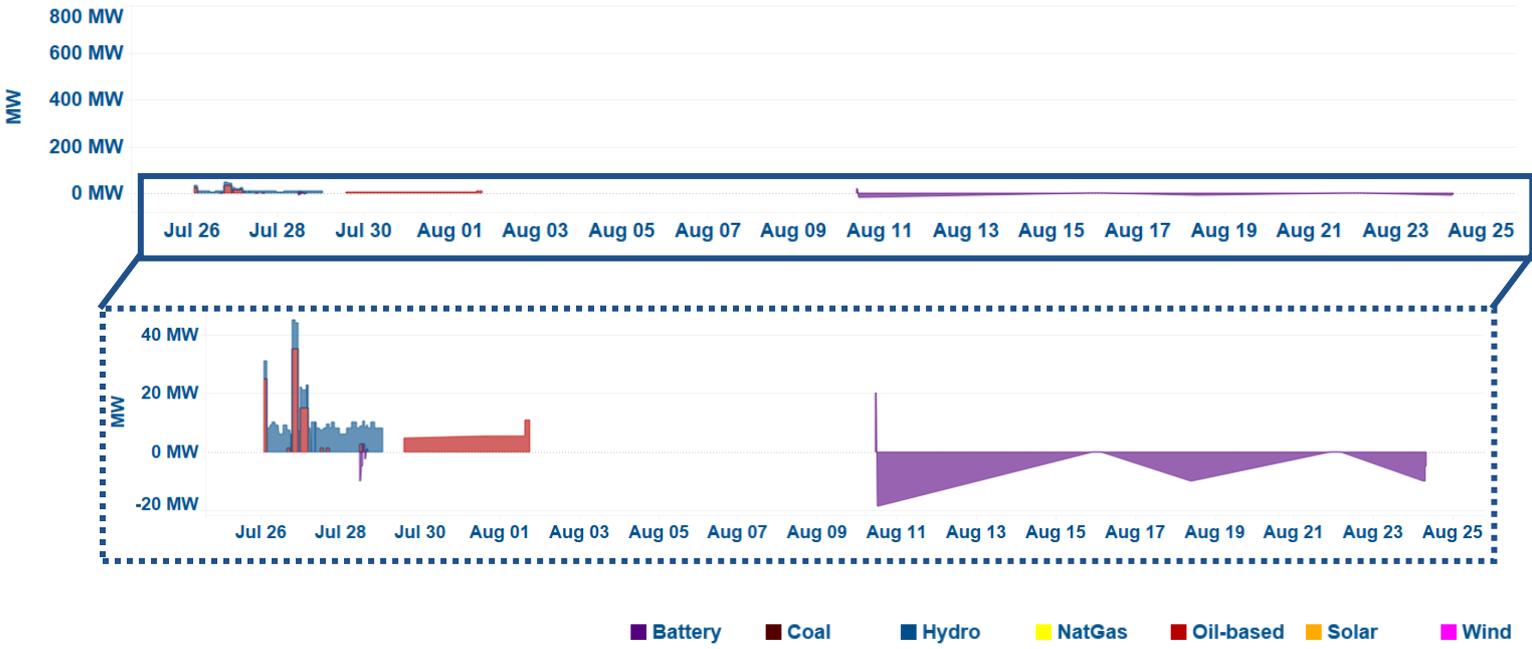
In Luzon, similar with previous billing month, the highest MW scheduled during the billing period was due to net dependable capacity and performance tests of natural gas plant.

by incident

VISAYAS

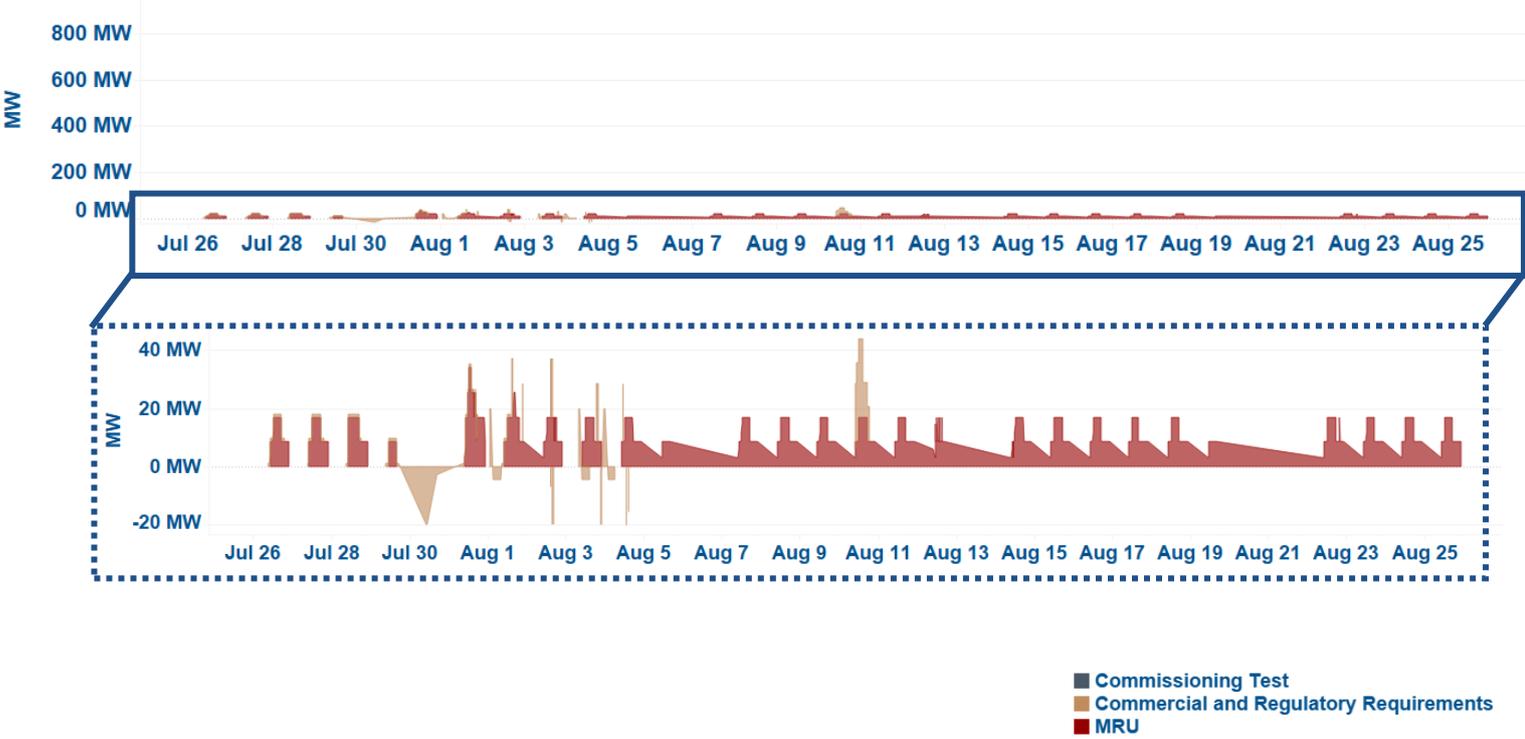


by plant type

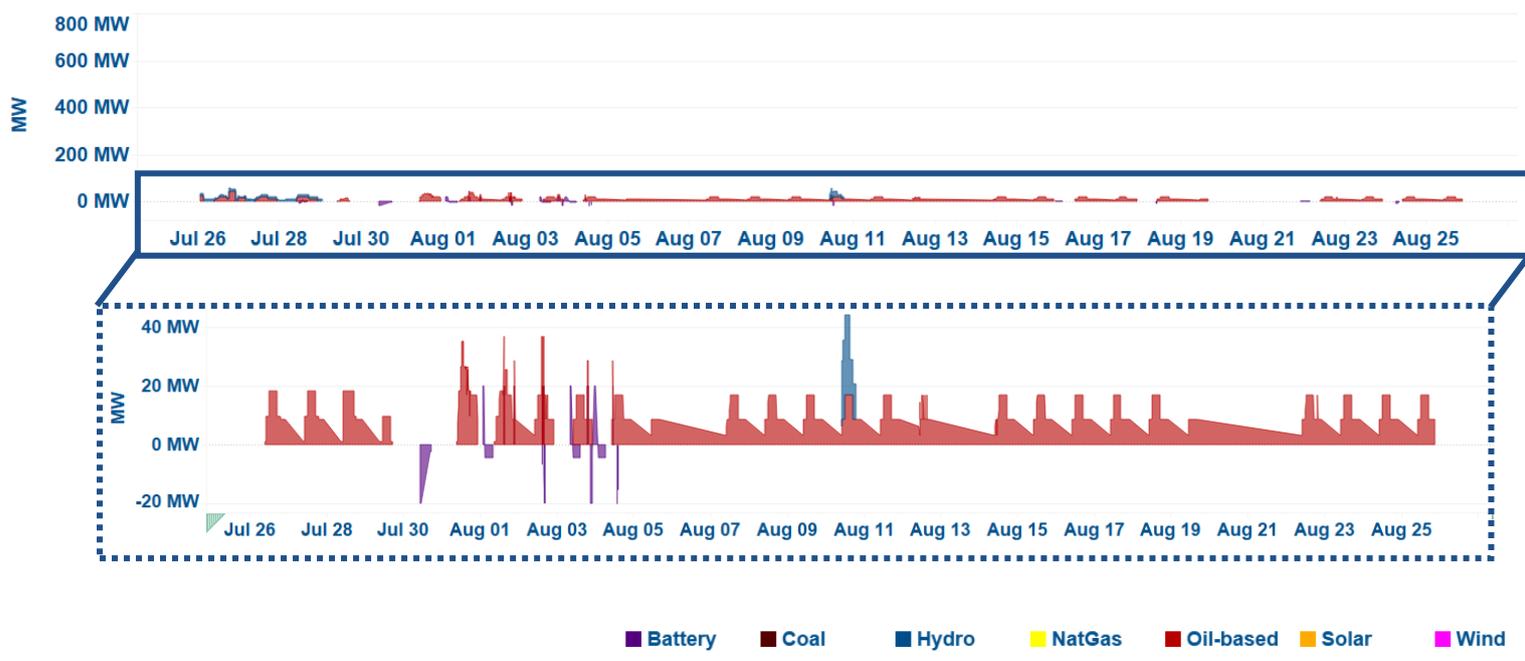


by incident

MINDANAO

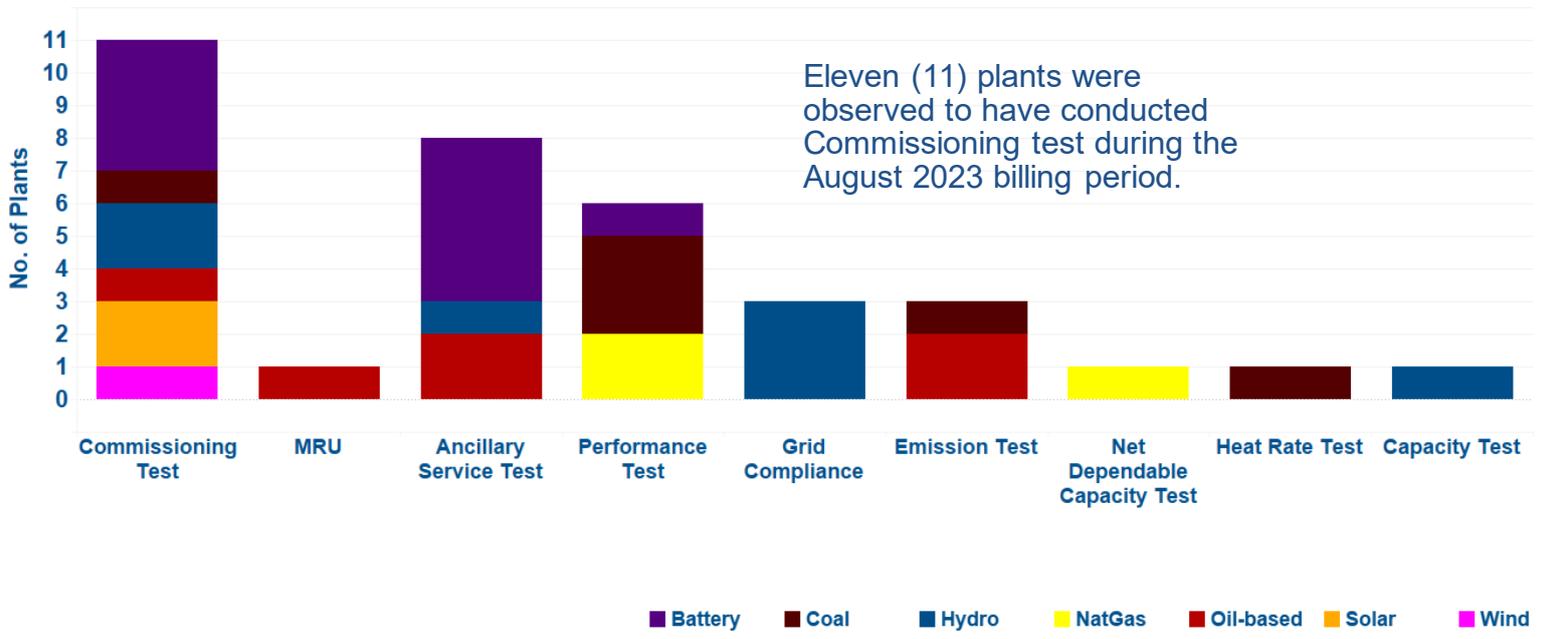


by plant type



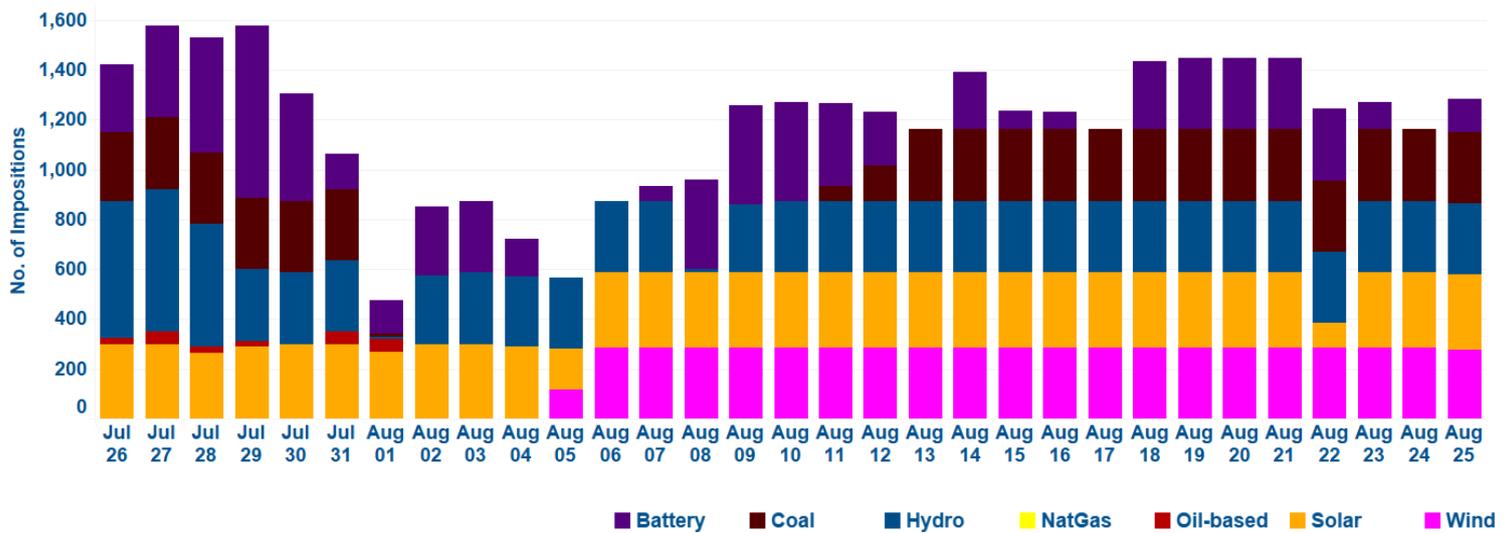
The MW scheduled observed was a result of oil-based plants being dispatched as MRU to address system voltage requirement in Mindanao region.

NUMBER OF PLANTS



OC IMPOSITIONS

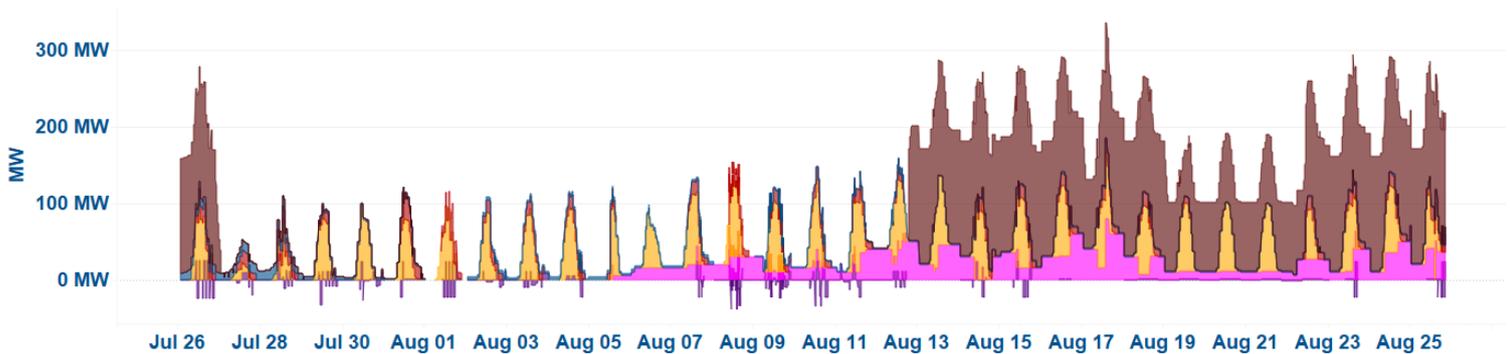
PLANTS UNDER COMMISSIONING TESTS



There was a total of thirty-five (35) plants-imposed OC for this billing period, twenty-three (23) is accounted to commercial and regulatory requirements and one (1) attributed to MRU. Meanwhile, a total of eleven (11) plants were under commissioning tests.

MW SCHEDULE

PLANTS UNDER COMMISSIONING TESTS



Expiration of PCATC of one (1) coal plant and one (1) BESS was the reason for the decrease of OC imposition accounted to commissioning test during the second week of the observed billing period. The Commissioning Tests of these plants resumed during the second half of August 2023 billing period by virtue of the PCATC extension approved by the NGCP-SO.

ANNEX

Plants with Over-riding Constraints

Plant/Unit Name	Plant Type	Registered Capacity (MW) ¹
LUZON		
Ambuklao Hydroelectric Power Plant Unit 1	Hydro	37.5
Ambuklao Hydroelectric Power Plant Unit 2	Hydro	37.5
Ambuklao Hydroelectric Power Plant Unit 3	Hydro	37.5
Arayat-Mexico Solar Power Plant Project Phase 2	Solar	30.9
Balaoi and Caunayan Wind Power Project Phase 1	Wind	80.0
Currimao 2 Solar Power Plant	Solar	68.7
Bataan Battery Energy Storage System	Battery	40.0
Magat Battery Energy Storage System	Battery	24.0
Mariveles Coal-Fired Power Plant 2	Coal	316.0
Mariveles Coal-fired Thermal Power Plant- Phase 1	Coal	150.0
Refinery Solid Fuel-Fired Boiler Power Plant	Coal	140.0
San Roque Hydro Electric Power Plant Unit 2	Hydro	145.0
Pinugay Solar Power Plant	Solar	75.0
San Gabriel Avion Natural Gas-Fired Power Plant Unit 1	Natural Gas	47.2
Botocan Hydro Electric Power Plant	Hydro	20.8
Kalayaan Hydro Electric Power Plant 1	Hydro	180.0
Kalayaan Hydro Electric Power Plant 2	Hydro	180.0
Kalayaan Hydro Electric Power Plant 3	Hydro	180.0
Kalayaan Hydro Electric Power Plant 4	Hydro	180.0
Malaya Thermal Power Plant Unit 2	Oil-Based	130.0
Pagbilao 3 Power Plant	Coal	420.0
Sta. Rita Natural Gas Power Plant 1	Natural Gas	257.3
Sta. Rita Natural Gas Power Plant 2	Natural Gas	255.7
Sta. Rita Natural Gas Power Plant 3	Natural Gas	265.5
Sta. Rita Natural Gas Power Plant 4	Natural Gas	264.0
San Lorenzo Combined-Cycle Gas Turbine Power Plant Unit 50	Natural Gas	265.0
San Lorenzo Combined-Cycle Gas Turbine Power Plant Unit 60 (San Lorenzo CCGTPP)	Natural Gas	265.0
Tibag Hydroelectric Power Plant	Hydro	5.8
VISAYAS		
Calbayog Bunker C-Fired Diesel Power Plant	Oil-Based	11.2
Isabel Modular Diesel Power Plant Sector 1	Oil-Based	10
Isabel Modular Diesel Power Plant Sector 2	Oil-Based	10.1
Isabel Modular Diesel Power Plant Sector 3	Oil-Based	15.1

¹ As of 26 July 2023

Plant/Unit Name	Plant Type	Registered Capacity (MW) ¹
Isabel Modular Diesel Power Plant Sector 4	Oil-Based	10.2
Isabel Modular Diesel Power Plant Sector 5	Oil-Based	15.1
Isabel Modular Diesel Power Plant Sector 6	Oil-Based	10.2
Ormoc Battery Energy Storage System	Battery	40
Kabankalan Battery Energy Storage System	Battery	20
Timbaban Hydro Power Plant	Hydro	18.9
MINDANAO		
Bunker-C Fired Diesel Power Plant Unit 1	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 2	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 3	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 5	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 6	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 7	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 8	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 9	Oil-Based	10.7
Bunker-C Fired Diesel Power Plant Unit 10	Oil-Based	10.7
Agus VII Hydroelectric Power Plant Unit 2	Hydro	15
Malita Battery Energy Storage System (BESS)	Battery	20
Digos Modular Diesel Power Plant (Units 1-16)	Oil-Based	16.9

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