MONTHLY MONITORING OF OVER-RIDING CONSTRAINTS STATISTICS

FEBRUARY 2025

(26 January to 25 February 2025)

Document Information Classification: Public

PUBLIC

AT A GLANCE

26 January 2025 - 25 February 2025

Total Over-riding Constraints Imposition **118,331** ▲ **4.40 %** increase from previous billing period

LUZON
93,276

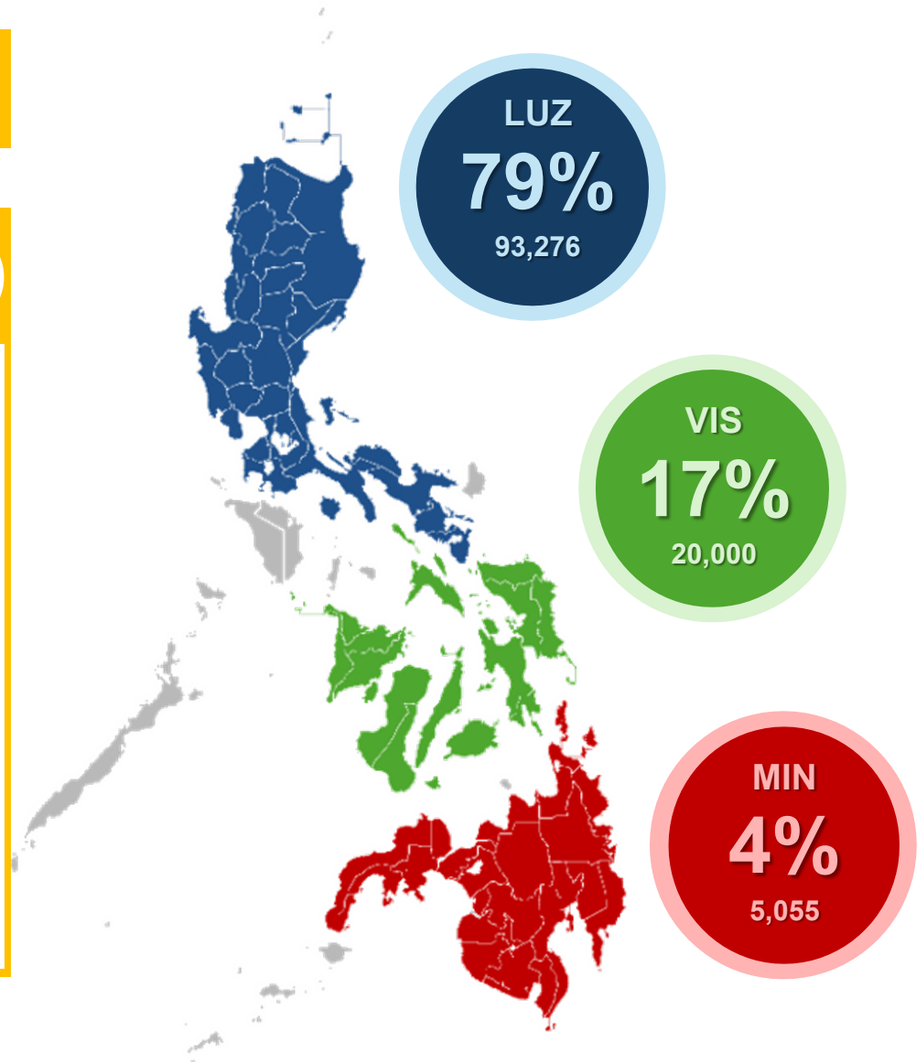
- Solar plants had the highest no. of OC*
- Coal plants, on average, had the largest capacities scheduled due to various test for CRR*
- Most OC were due to commissioning test of solar plants

VISAYAS
20,000

- Solar plants had the highest no. of OC
- Coal plants, on average, had the largest capacities scheduled due to Emission test
- Most OC were due to commissioning test of solar plants

MINDANAO
5,055

- Oil-based plants had the highest no. of OC
- Oil-based plants, on average, had the largest capacities scheduled due to Performance test and Dispatch of MRU
- Most OC were due to Dispatch of MRU for oil-based plants



*CRR – Commercial and Regulatory Requirements

*OC – Over-riding Constraints

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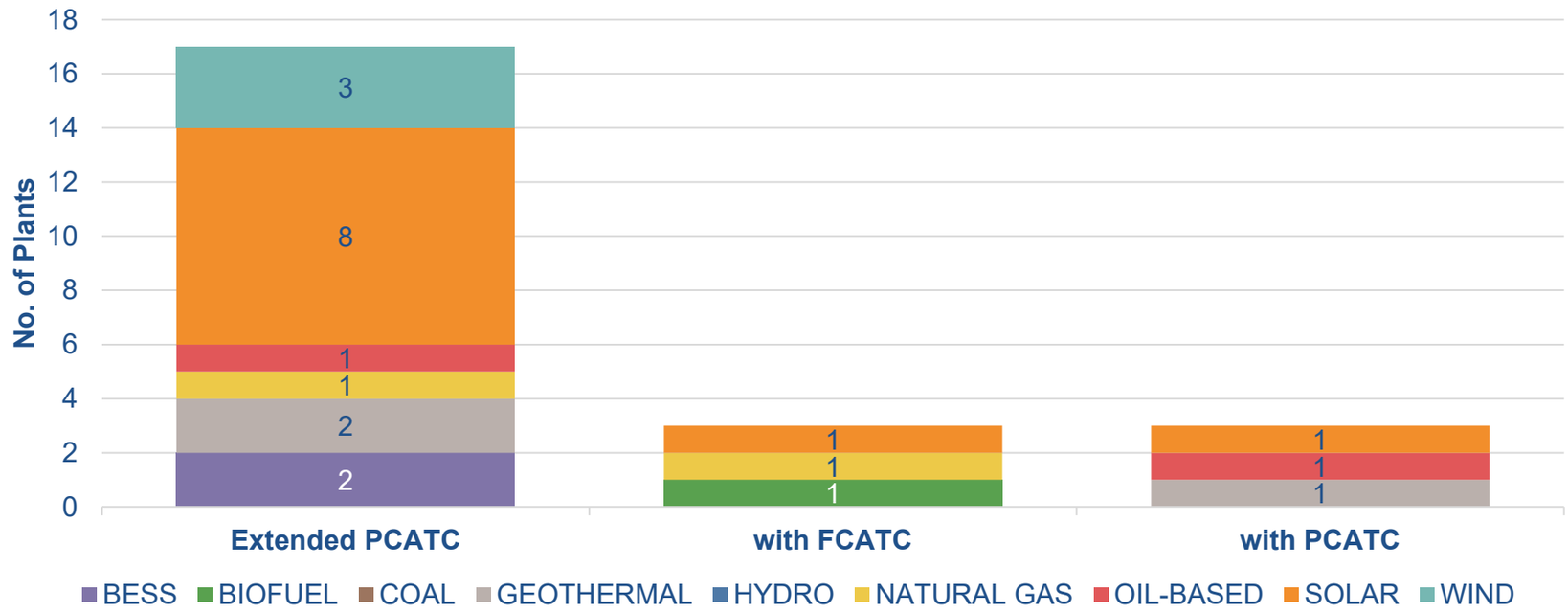
STATUS OF PLANTS UNDER COMMISSIONING TEST

26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation

No. of Plants Under Commissioning Test

23



Ave. no. of days under commissioning test per plant type

471 — BESS

11 – Bataan BESS

9 – Gamu BESS

363 — BIOFUEL

10 – Biogas Power Plant (Phase 1)

251 — GEO

11 – Palayan BPP

8 – Tiwi Binary Geothermal BPP

182 — NAT GAS

5 – Batangas CCPP Unit 2

4 – Batangas CCPP Unit 3

101 — OIL

5 – Tarlac Power Corp. Bunker C FDPP

118 — SOLAR

10 – Subic New SPP

4 – Concepcion 1 SPP

3 – Raslag IV Solar

2 – Dagohoy Solar

1 – Sto Domingo Solar, Armenia Solar, Bongabon Solar, San Jose Solar, Calatrava Solar

469 — WIND

21 – Balaoi Caunayan Wind

10 – Caparispisan Wind

9 – PWEI Nabas Wind

Noted no. of extensions for commissioning test period

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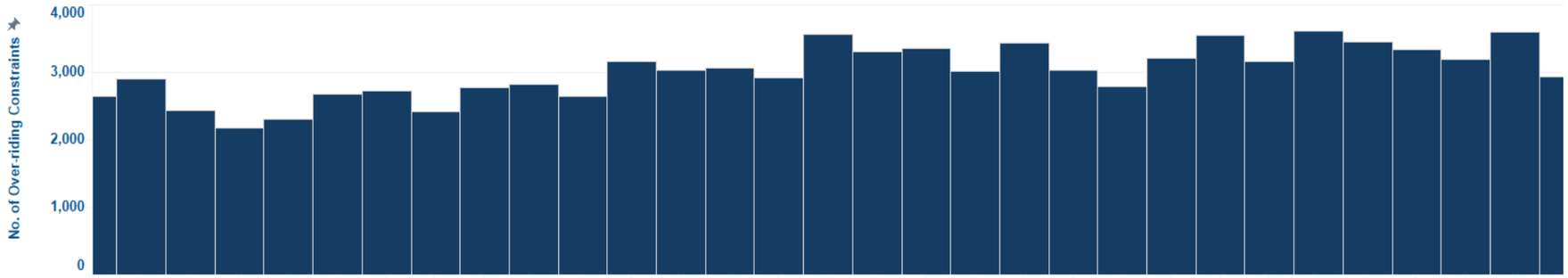
LUZON OVER-RIDING CONSTRAINTS

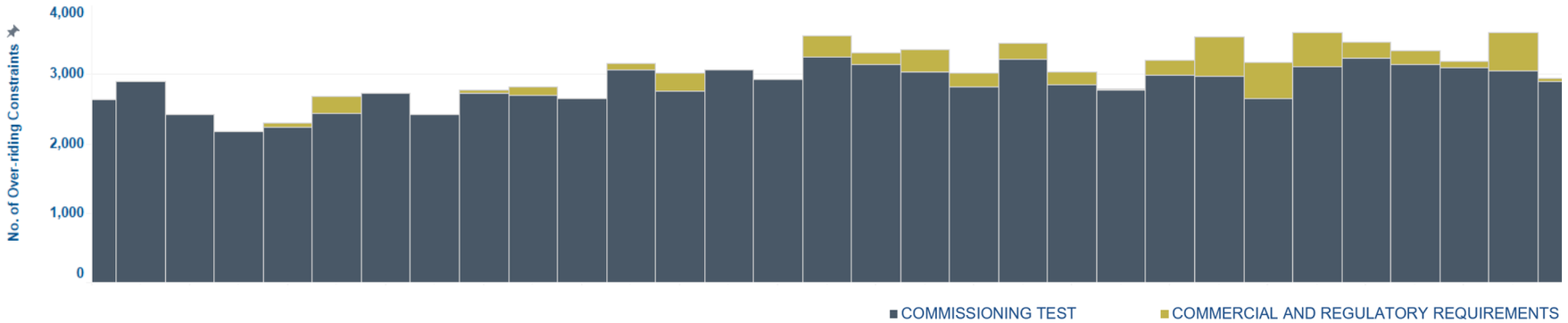
26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation



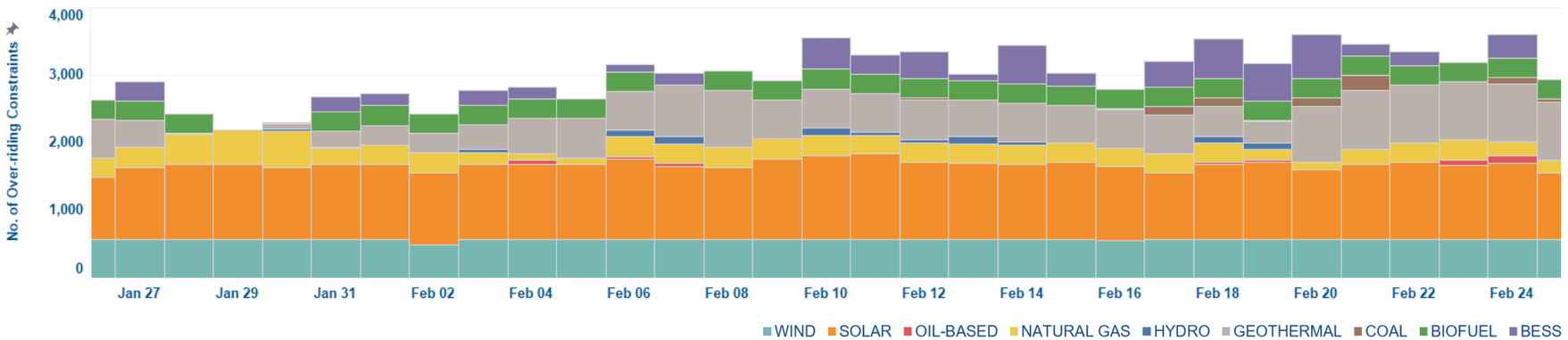
By Day

	No. of Over-riding Constraints	Date
Maximum	3,605	20-Feb
Average	3,009	
Minimum	2,183	29-Jan



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	88,119
Commercial and Regulatory Requirements	5,157



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	34,169
Wind	17,750
Geothermal	16,560
Natural Gas	8,377
Biofuel	8,060
Battery	6,291
Hydro	859
Coal	799
Oil	411

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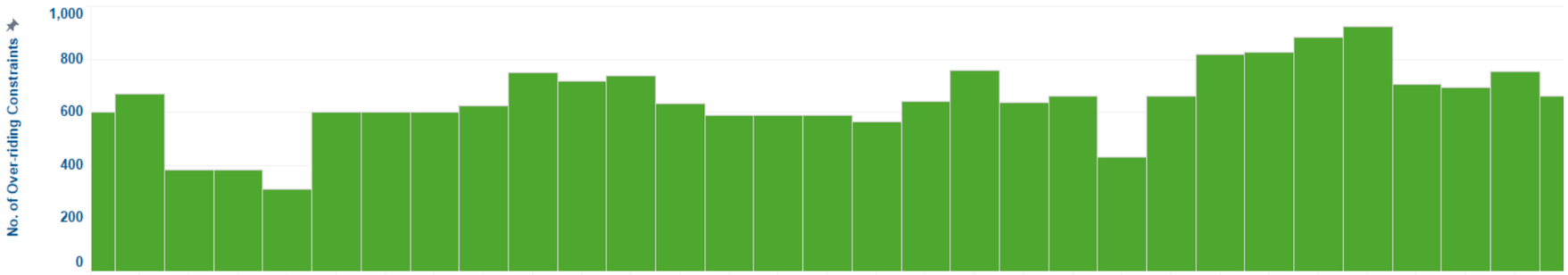
VISAYAS OVER-RIDING CONSTRAINTS

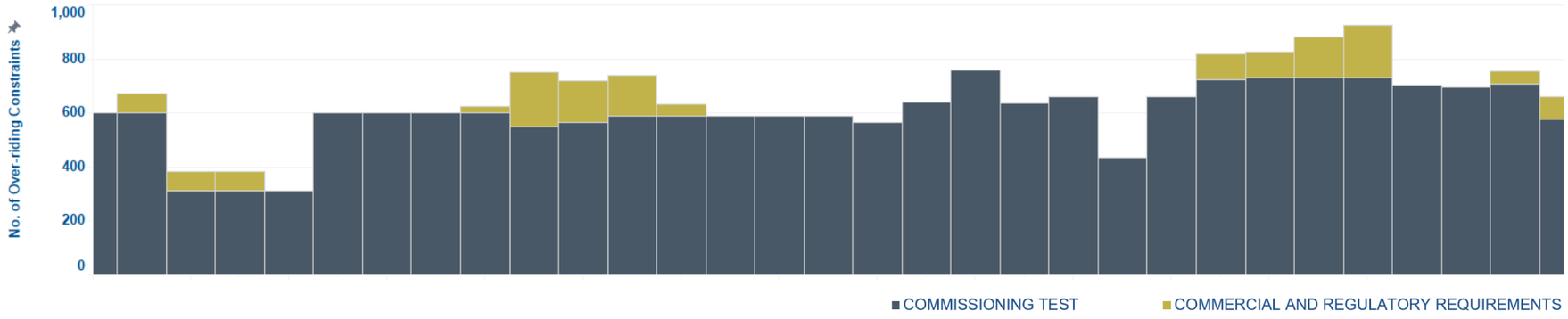
26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation



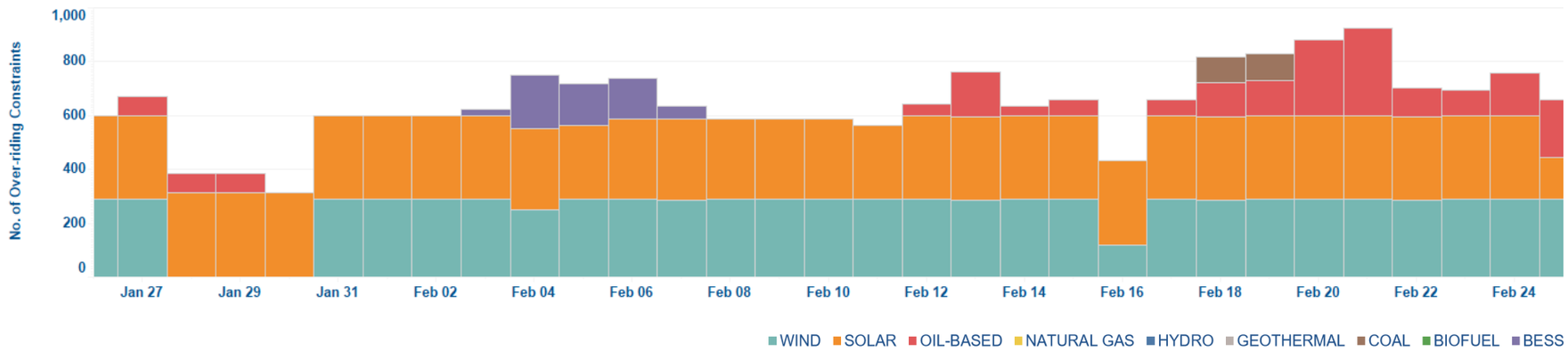
By Day

	No. of Over-riding Constraints	Date
Maximum	923	21-Feb
Average	645	
Minimum	312	30-Jan



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	18,543
Commercial and Regulatory Requirements	1,457



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	9,364
Wind	7,854
Oil-based	2,014
Battery	577
Coal	191

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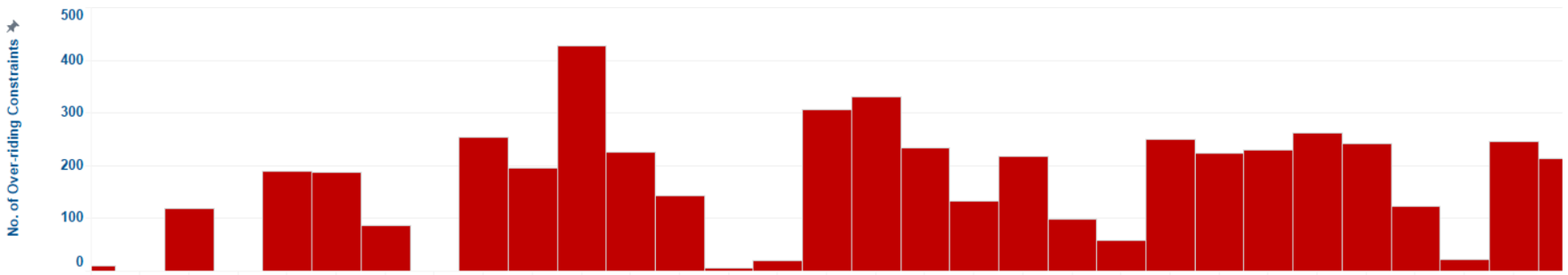
MINDANAO OVER-RIDING CONSTRAINTS

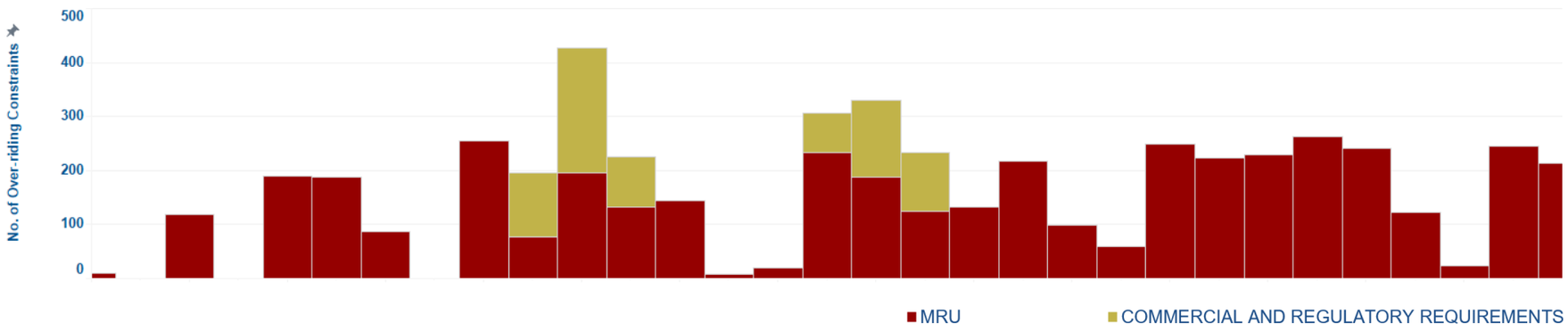
26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation



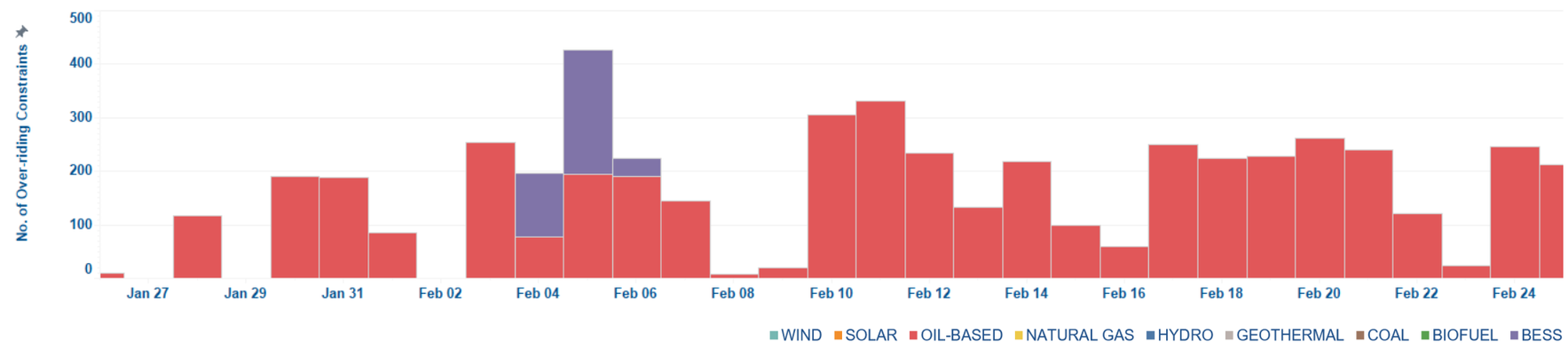
By Day

	No. of Over-riding Constraints	Date
Maximum	427	5-Feb
Average	181	
Minimum	7	8-Feb



By Incident

Incident	No. of Over-riding Constraints
MRU	4,288
Commercial and Regulatory Requirements	767



By Plant Type

Plant Type	No. of Over-riding Constraints
Oil-based	4,671
Battery	384

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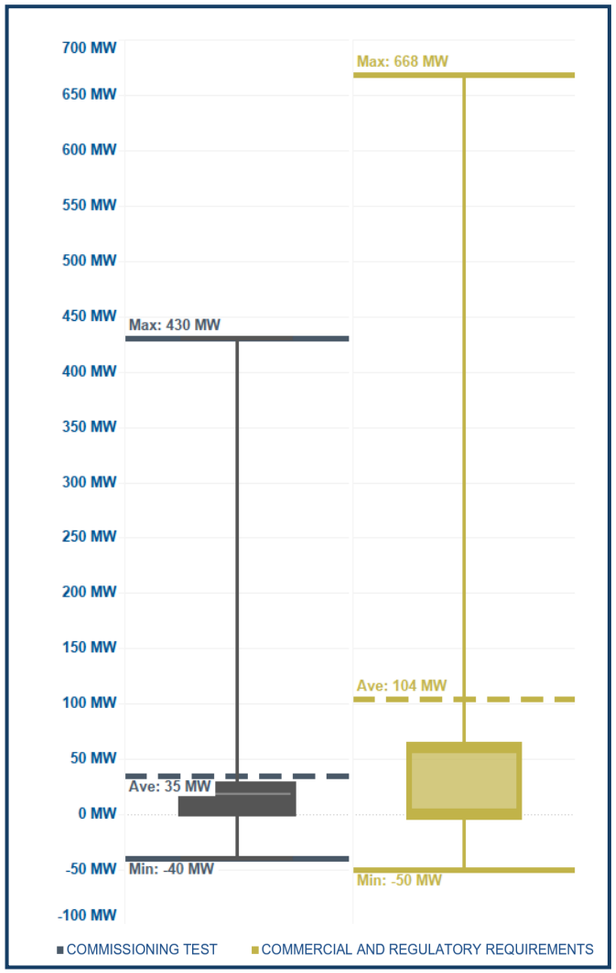
LUZON SCHEDULED CAPACITIES

26 January 2025 - 25 February 2025

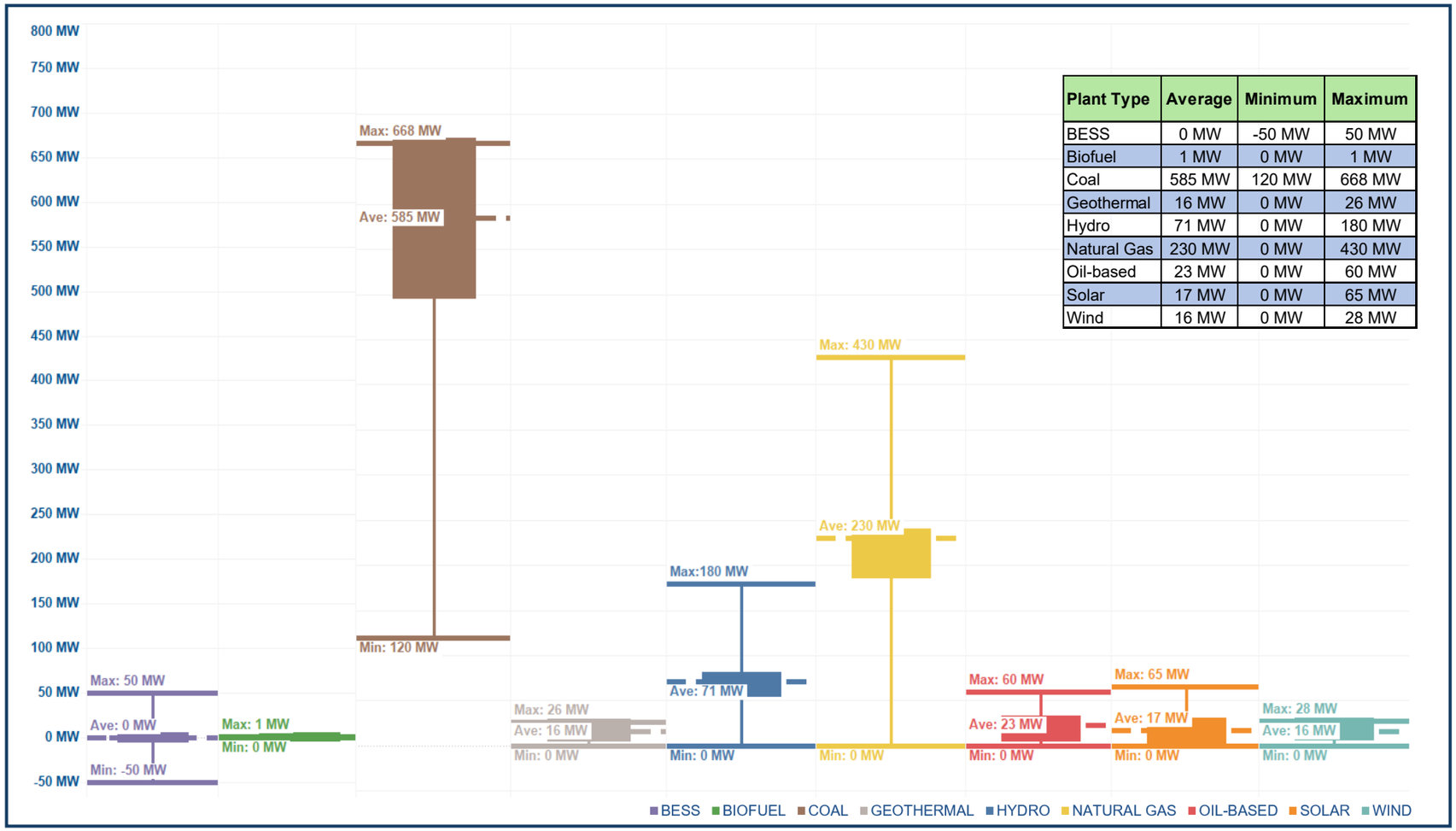
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commissioning Test	35 MW	-40 MW	430 MW
Commercial and Regulatory Requirements	104 MW	-50 MW	668 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	0 MW	-50 MW	50 MW
Biofuel	1 MW	0 MW	1 MW
Coal	585 MW	120 MW	668 MW
Geothermal	16 MW	0 MW	26 MW
Hydro	71 MW	0 MW	180 MW
Natural Gas	230 MW	0 MW	430 MW
Oil-based	23 MW	0 MW	60 MW
Solar	17 MW	0 MW	65 MW
Wind	16 MW	0 MW	28 MW

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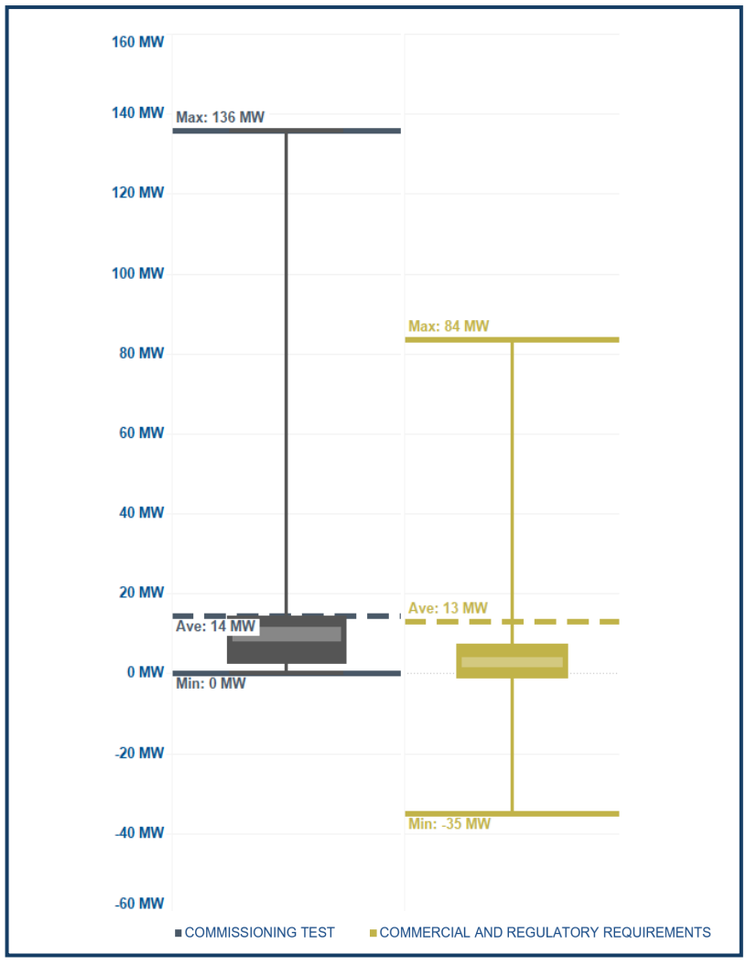
VISAYAS SCHEDULED CAPACITIES

26 January 2025 - 25 February 2025

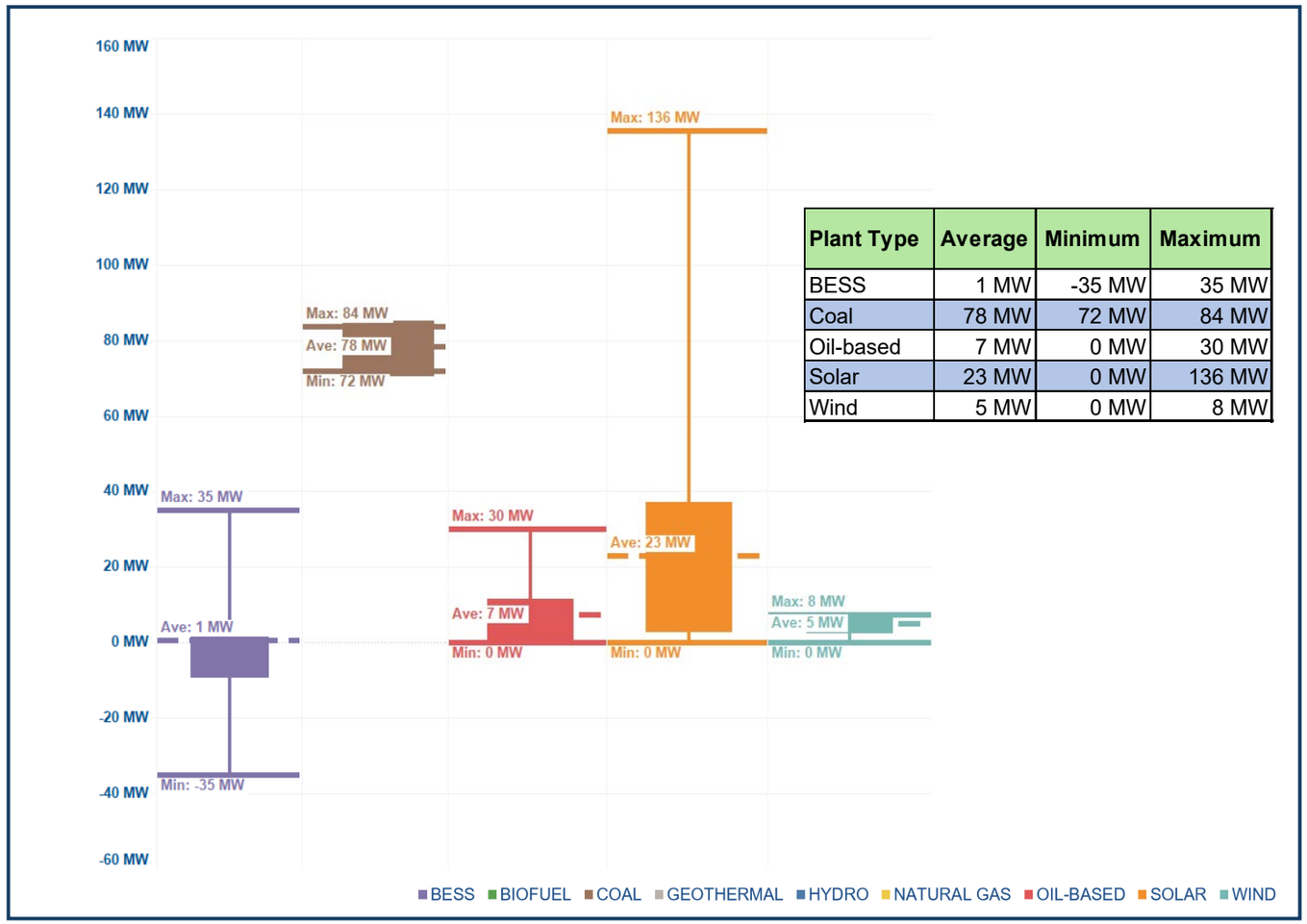
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commissioning Test	14 MW	0 MW	136 MW
Commercial and Regulatory Requirements	13 MW	-35 MW	84 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	1 MW	-35 MW	35 MW
Coal	78 MW	72 MW	84 MW
Oil-based	7 MW	0 MW	30 MW
Solar	23 MW	0 MW	136 MW
Wind	5 MW	0 MW	8 MW

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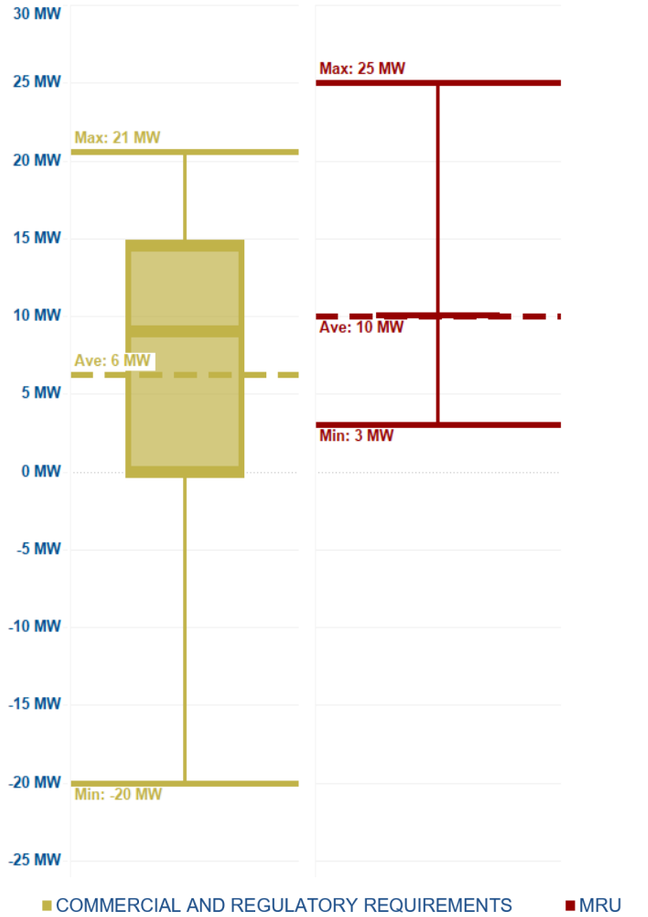
MINDANAO SCHEDULED CAPACITIES

26 January 2025 - 25 February 2025

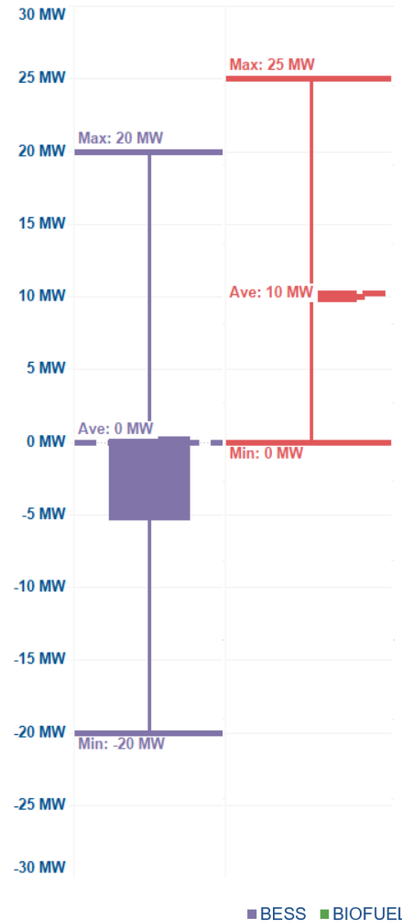
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commercial and Regulatory Requirements	6 MW	-20 MW	21 MW
MRU	10 MW	3 MW	25 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	0 MW	-20 MW	20 MW
Oil-based	10 MW	0 MW	25 MW

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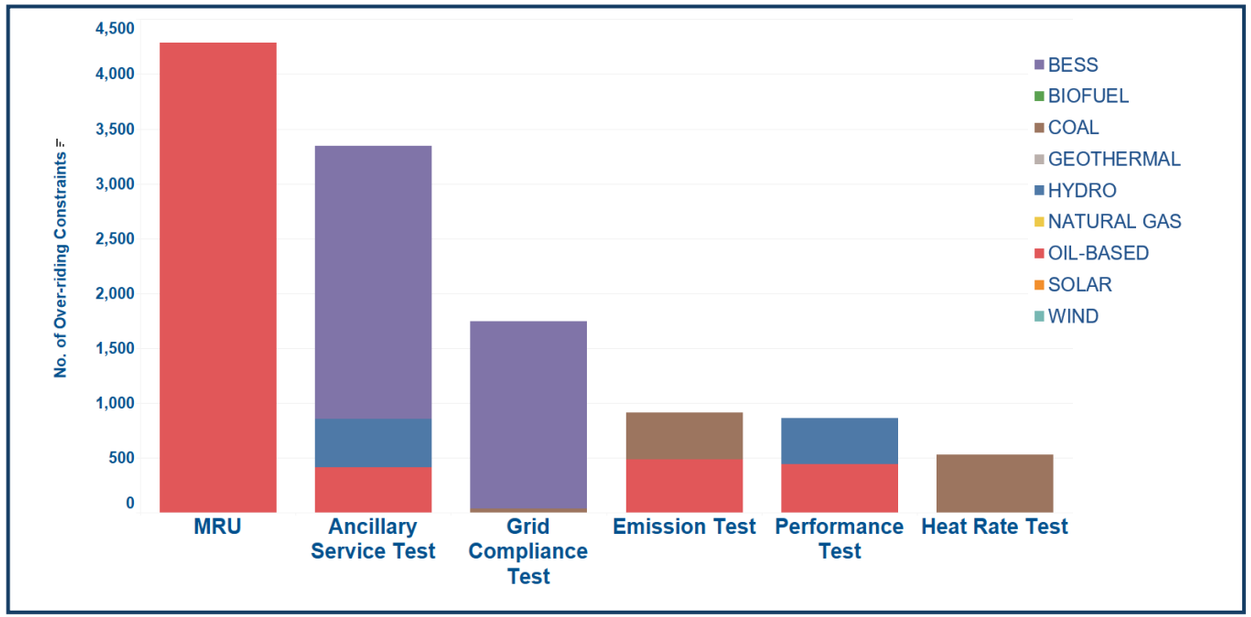
OVER-RIDING CONSTRAINTS EXCLUDING COMMISSIONING TESTS

Luzon, Visayas, Mindanao

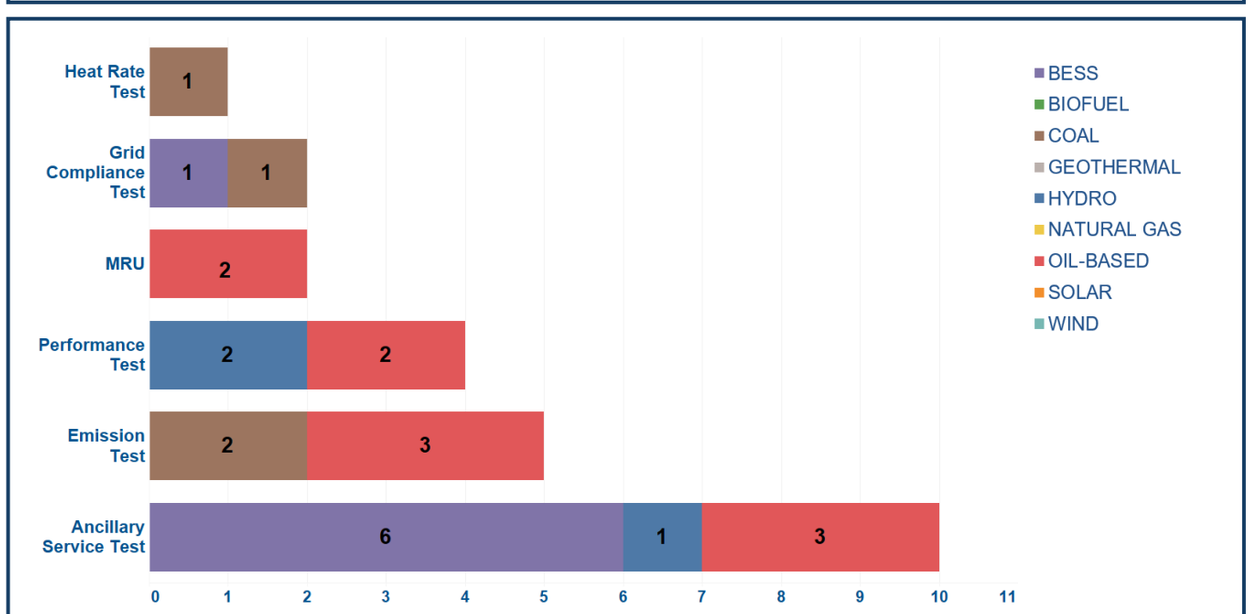
26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation



Over-riding Constraints By Incident

Reasons	No. of Over-riding Constraints
MRU	4,288
Ancillary Service Test	3,342
Grid Compliance Test	1,742
Emission Test	909
Performance Test	860
Heat Rate Test	528



Number of Plants By Incident

Reasons	No. of Plants
Heat Rate Test	1
Grid Compliance Test	2
MRU	2
Performance Test	4
Emission Test	5
Ancillary Service Test	10

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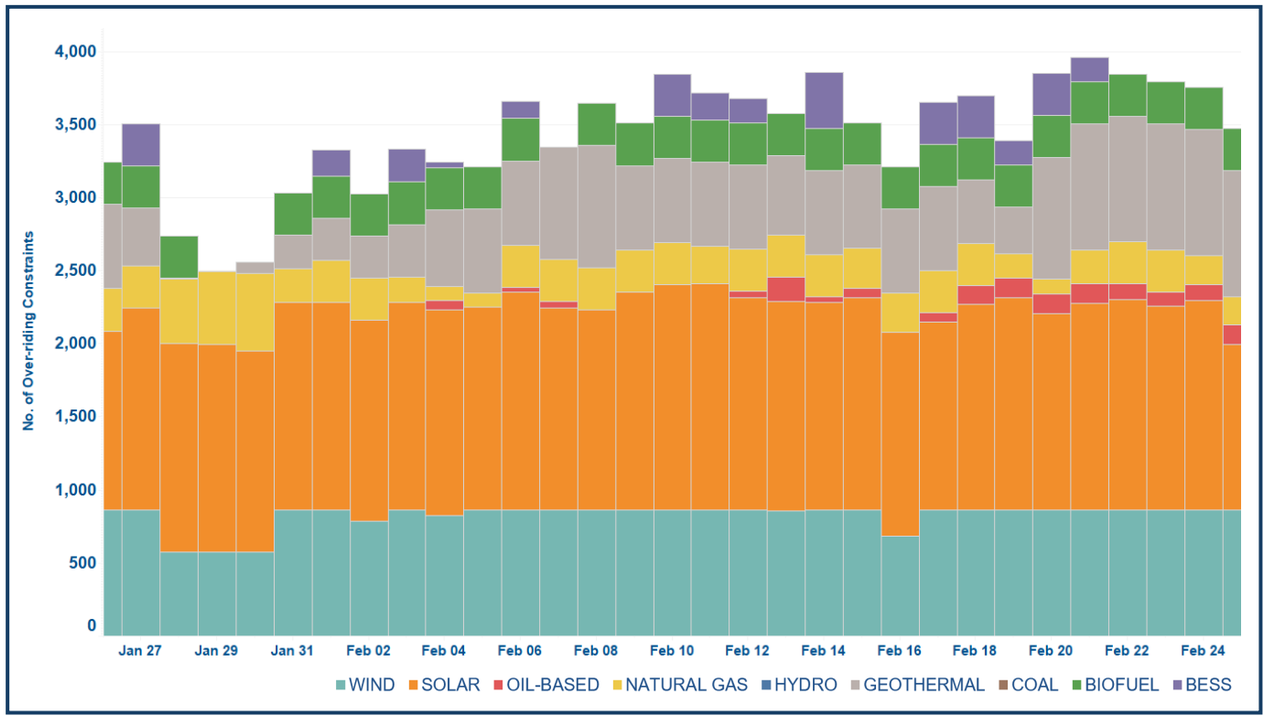
PLANTS UNDER COMMISSIONING TESTS

Luzon, Visayas, Mindanao

26 January 2025 - 25 February 2025

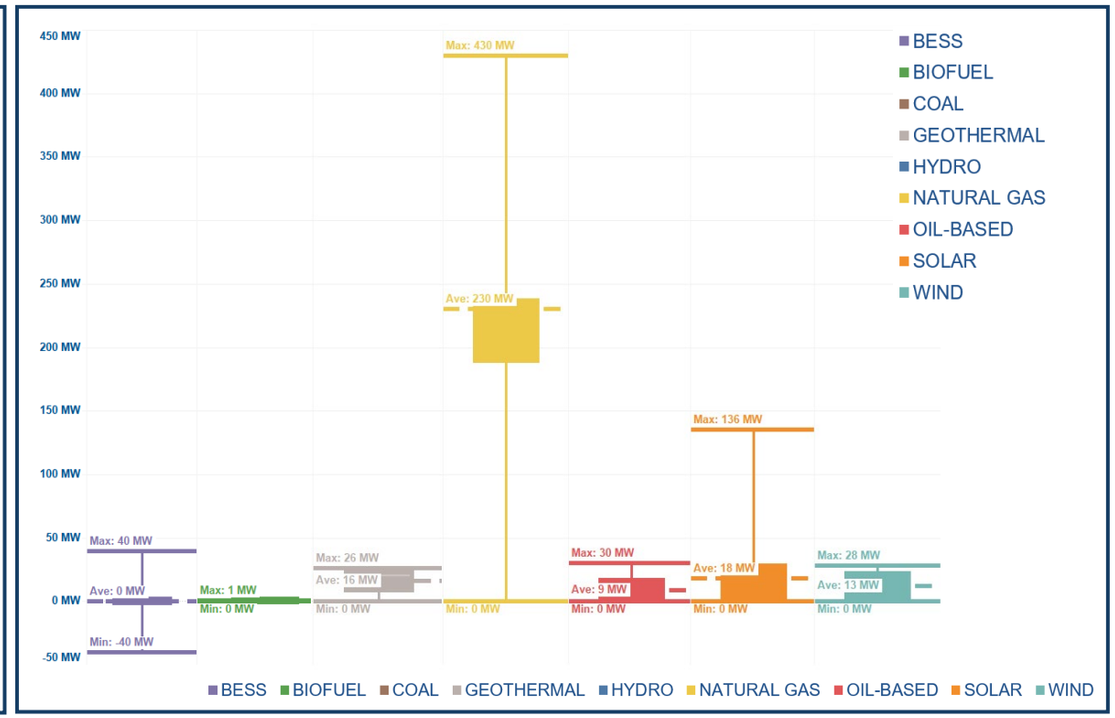
Philippine Electricity Market Corporation

Number of Over-riding Constraints
By Plant Type



Plant Type	No. of Over-riding Constraints
Solar	43,533
Wind	25,604
Geothermal	16,560
Natural Gas	8,377
Biofuel	8,060
Battery	3,059
Oil	1,469

Scheduled Capacities
By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	0 MW	-40 MW	40 MW
Biofuel	1 MW	0 MW	1 MW
Geothermal	16 MW	0 MW	26 MW
Natural Gas	230 MW	0 MW	430 MW
Oil-based	9 MW	0 MW	30 MW
Solar	18 MW	0 MW	136 MW
Wind	13 MW	0 MW	28 MW

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
LUZON		
80.000 MW Balaoi and Caunayan Wind Power Project Phase 1	Wind	80
Caparispisan II Wind Power Project	Wind	50
Concepcion 1 Solar Power Project	Solar	76
72.128 MWp Subic New PV Power Plant Project	Solar	62.7
Biogas Power Plant (Phase 1)	Biofuel	1.7
35.700 MW Palayan Binary Power Plant	Geothermal	31
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4
Sto. Domingo Solar Power Plant (SDSPP)	Solar	46.2
Batangas Combined Cycle Power Plant Unit 2	Natural Gas	421.9
46.658MWP Armenia Solar Power Project (SPP)	Solar	37.8
23.776 MWP Bongabon Solar Power Project	Solar	18.8
19.613 MWp San Jose Solar Power Plant (SPP)	Solar	15.3
18.6 MW Bunker C-Fired Diesel Power Plant	Oil-based	18.1
Kalayaan Hydro Electric Power Plant 2	Hydro	181
Pagbilao Coal-Fired Power Plant 2	Coal	382
17MW Tiwi Geothermal Binary Power Plant	Geothermal	16.7
0.531 MW/1.400 MWh Energy Storage System (ESS)	Battery	0.5
47.486 MW Bataan Battery Energy Storage System (BESS)Market	Battery	40
64.655 MW SAN MANUEL BATTERY ENERGY STORAGE SYSTEM	Battery	50
Subplant 1 Alaminos Battery Energy Storage System	Battery	20
Alaminos Battery Energy Storage System 2	Battery	20
Batangas Combined Cycle Power Plant Unit 3	Natural Gas	440
153MW Casecnan Multipurpose Hydroelectric Power Plant (HEPP)	Hydro	168
63.961 MWp Cordon Solar Power Project	Solar	52.8
45.758 MWh Gamu Battery Energy Storage System (BESS)	Battery	40
724.965 MW GNPower Dinginin Coal Plant - Unit 1	Coal	668

***As of 25 February 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
LUZON		
GNPower Dinginin Coal Plant - Unit 2	Coal	668
69.949 MW Lamao Battery Energy Storage System (BESS)	Battery	50
Bataan Combined Cycle Power Plant Unit 6	Oil-based	60
120.000 MW Bunker-C Fired Thermal Power Plant (BCFDPP)	Oil-based	110
San Roque Hydro Electric Power Plant Unit 2	Hydro	145
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2
VISAYAS		
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2
27.121 MWp Dagohoy Solar Power Project	Solar	20.2
137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4
11.174 MW Calbayog Bunker C-Fired Diesel Power Plant	Oil-based	11
47.486 MW Ormoc Battery Energy Storage System(BESS)	Battery	40
Sangi Coal Fired Power Plant	Coal	83.6
Naga Oil-Fired Power Plant Unit 2	Oil-based	5.5
Naga Oil-Fired Power Plant Unit 3	Oil-based	5.5
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57
Panay Diesel Power Plant 1 (Unit 2)	Oil-based	5
Panay Diesel Power Plant 3 (Unit Echo)	Oil-based	12
Power Barge 101- Unit 1	Oil-based	6
Power Barge 101- Unit 2	Oil-based	6
Power Barge 101- Unit 3	Oil-based	6
Power Barge 101- Unit 4	Oil-based	6
MINDANAO		
112 MW Bunker-C Fired Diesel Power Plant Unit 1	Oil-based	10.2
112 MW Bunker-C Fired Diesel Power Plant Unit 4	Oil-based	10.2
112 MW Bunker-C Fired Diesel Power Plant Unit 10	Oil-based	10.2

***As of 25 February 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
MINDANAO		
112 MW Bunker-C Fired Diesel Power Plant Unit 6	Oil-based	10.2
Iligan Diesel Power Plant Unit 1	Oil-based	5.9
112 MW Bunker-C Fired Diesel Power Plant Unit 9	Oil-based	10.2
100.327 MW Mobile 2 Bunker C-Fired Power Plant Unit 1	Oil-based	50
22.830 MWh Jasaan Battery Energy Storage System (BESS)	Battery	20

***As of 25 February 2025**

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ANNEX B PLANTS UNDER COMMISSIONING TEST

26 January 2025 - 25 February 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity	No. of PCATC Extensions	No. of Days under Commissioning Tests
0.531 MW/1.400 MWh Energy Storage System (ESS)	Battery	0.5	11	619
45.758 MWh Gamu Battery Energy Storage System (BESS)	Battery	40	9	323
1.7 MW Biogas Power Plant (Phase 1)	Biomass	1.7	10	363
35.700 MW Palayan Binary Power Plant	Geothermal	31	11	440
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2	-	35
17MW Tiwi Geothermal Binary Power Plant	Geothermal	16.7	8	279
421.9 MW Batangas Combined Cycle Power Plant Unit 2	Natural Gas	421.9	5	195
440 MW Batangas Combined Cycle Power Plant Unit 3	Natural Gas	440	4	169
18.6 MW Bunker C-Fired Diesel Power Plant	Oil-based	18.1	5	189
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57	-	13
46.658MWP Armenia Solar Power Project (SPP)	Solar	37.8	1	87
23.776 MWP Bongabon Solar Power Project	Solar	18.8	1	88
76 MW Concepcion 1 Solar Power Project	Solar	76	4	157
63.961 MWp Cordon Solar Power Project	Solar	52.8	-	19
46.2 MW Sto. Domingo Solar Power Plant (SDSPP)	Solar	46.2	1	89
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4	3	130
19.613 MWp San Jose Solar Power Plant (SPP)	Solar	15.3	1	66
72.128 MWp Subic New PV Power Plant Project	Solar	62.7	10	363
137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4	1	76
27.121 MWp Dagohoy Solar Power Project	Solar	20.2	2	104
80.000 MW Balaoi and Caunayan Wind Power Project Phase 1	Wind	80	21	724
50 MW Caparispisan II Wind Power Project	Wind	50	10	357
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2	9	327

*** Based on IEMOP-MO's status of plants under commissioning test as of 25 February 2025 and NGCP-SO's data for Security Limits for February 2025 billing period**

ANNEX C

PLANTS UNDER COMMISSIONING TEST FROM PREVIOUS BILLING PERIOD THAT CURRENTLY HAVE NO IMPOSITION OF OVER-RIDING CONSTRAINTS

26 January 2025 - 25 February 2025

Plant/Unit Name	Plant Type	Registered Capacity	No. of PCATC Extensions	No. of Days under Commissioning Tests
57.125 MWh Lumban Battery Energy Storage System (BESS)	Battery	57.1	7	244
Angat Hydroelectric Power Plant Unit A	Hydro	18	3	118

***As of 25 February 2025**

GLOSSARY

Monitoring of Over-riding Constraints

OVER-RIDING CONSTRAINTS

Constraints imposed in the market dispatch optimization model by the Market Operator, at the recommendation of the System operator, with the intention of over-riding the effect of a Trading Participant's offers or demand bids in accordance with Clause 3.5.13 of the WESM Rules.

Constraints imposed by the Market Operator, as required by the System Operator, relative to the power flow, energy generation of a specific facility in the Grid to address system security threat, mitigate the effects of a system emergency, address the need to dispatch generating units to comply with systems, regulatory and commercial test requirements, in accordance with Clause 3.5.13 of the WESM Rules and Section 5.5 of the Market Surveillance Manual.

TEST AND COMMISSIONING

Under the DOE Department Circular No. DC2024-08-0022, test and commissioning refers to the conduct of procedures to determine and certify that a Generation Facility was connected ot the grid in accordance with the Philippine Grid Code (PGC), the Philippine Distribution Code (PDC) and/or other relevant guidelines and specifications, as applicable, and to determin readiness to delivery energy to Grid or distribution network for the purpose of securing a COC from ERC.

For the purpose of this policy, Test and Commissioning includes the conduct of capability tests as specifies in the PGC, PDC, and other relevant issuances such as the Grid Compliance Test and Ancillary Services Capability Test and all other activities which require synchronization to the Grid or distribution network.

MUST-RUN UNIT (MRU)

It is a generating unit identified and instructed, by the System Operator to either a) come on-line, or b) provide additional energy on a particular dispatch interval but the dispatch of which is said to be out-of-merit, to address system security requirements. For clarity, MRU shall be utilized only after the System Operator has exhausted all available ancillary services. MRUs are classified as follows: a) Scheduled MRU - MRU designated by the System Operator before the dispatch interval and included in the real-time dispatch schedule through the imposition of security limit as defined in the WESM Dispatch Protocol Manual. B) Real-Time MRU - MRU designated by the System Operator within a dispatch interval.

PROVITIONAL CERTIFICATE OF APPROVAL TO CONNECT (PCATC)

From the DOE Department Circular No. DC2021-06-0013, it refers to the certification issued by the TNP or DU to a Generation Company, allowing the conduct of Test and Commissioning with respect to its Generation Facility/ies.

FINAL CERTIFICATE OF APPROVAL TO CONNECT (FCATC)

Under the DOE Department Circular No. DC2021-06-0013, FCATC refers to the certification issued by the TNP or DU to a Generation Company attesting that its Generation Facility/ies is ready to deliver energy to Grid or distribution network in accordance with the Philippine Grid Code (PGC), Philippine Distribution Code (PDC) and other relevant guidelines and specifications.

RENEWABLE ENERGY RESOURCE

It is an energy resource as defined in Section 4 (uu) of the Renewable Energy Act.

BATTERY ENERGY STORAGE SYSTEM (BESS)

It is a system with all related equipment essential to its functioning as a single entity which is capable of storing electrical energy through chemical reactions from which it is able to charge or discharge electrical energy to the power system.

REGISTERED CAPACITIES

It is the prevailing Maximum Stable Load or Pmax and the Minimum Stable Load or Pmin of a generating unit or generating system as registered with the Market Operator or subsequent changes confirmed and implemented by the Market Operator. The Pmax shall be the registered maximum capacity while the Pmin shall be the minimum registered capacity.