MONTHLY MONITORING OF OVER-RIDING CONSTRAINTS STATISTICS

MARCH 2025

(26 February to 25 March 2025)

Document Information Classification: Public

PUBLIC

AT A GLANCE

26 February 2025 - 25 March 2025

Total Over-riding Constraints Imposition **87,639** ▼ **35.02 %** decrease from previous billing period

LUZON
57,008

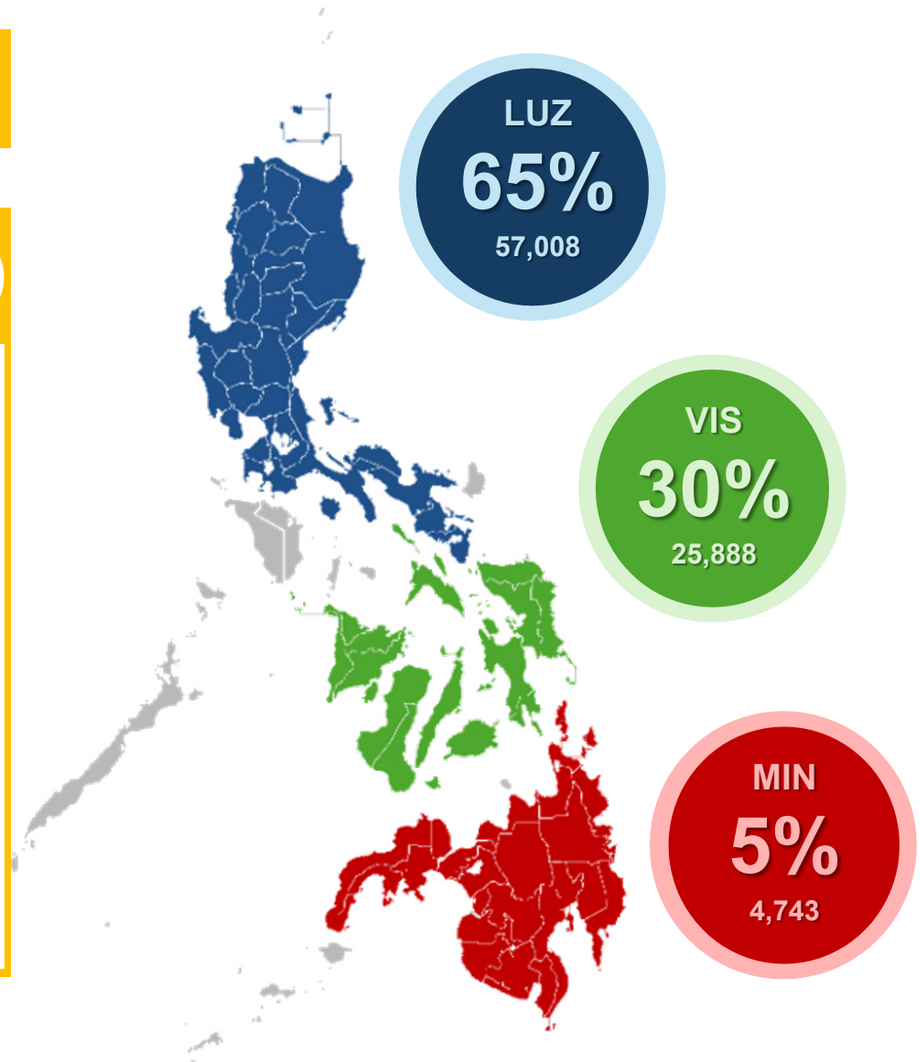
- Solar plants had the highest no. of OC*
- Coal plants, on average, had the largest capacities scheduled due to Emission and Performance Tests
- Most OC were due to commissioning test of solar plants

VISAYAS
25,888

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

MINDANAO
4,743

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



OC – Over-riding Constraints

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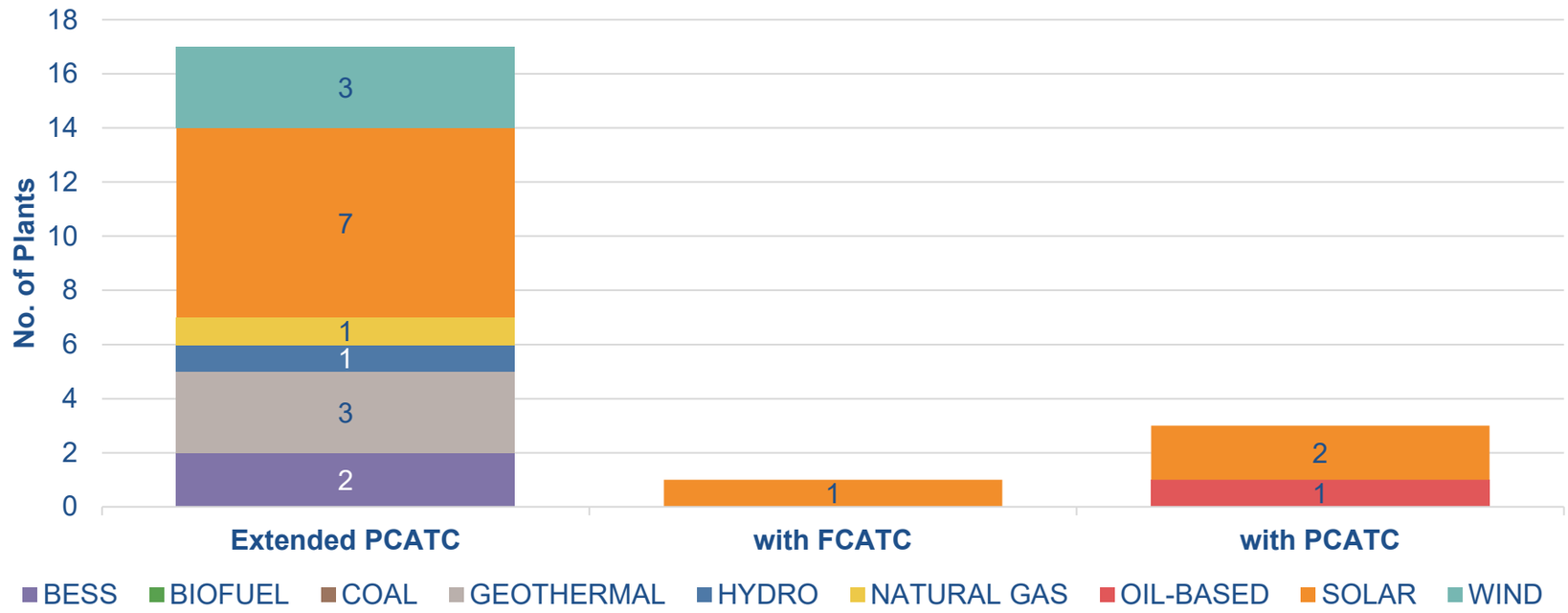
STATUS OF PLANTS UNDER COMMISSIONING TEST

26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation

No. of Plants Under Commissioning Test

21



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

Noted no. of extensions for commissioning test period

BESS
316

10 – Gamu BESS

9 - Lumban BESS

GEO
271

12 – Palayan BPP

9 – Tiwi Binary Geothermal BPP

1 - Tanawon GPP

HYDRO
197

5 - Upper Taft HEPP

NAT GAS
194

5 - Batangas CCPP Unit 3

OIL
41

SOLAR
133

11 – Subic New SPP
5 – Concepcion 1 SPP
4 – Raslag IV Solar
3 - Armenia Solar
3 – Dagohoy Solar
2 – Bongabon Solar, San Jose Solar, Calatrava Solar

WIND
497

22 – Balaoi Caunayan Wind

11 – Caparispisan Wind

10 – PWEI Nabas Wind

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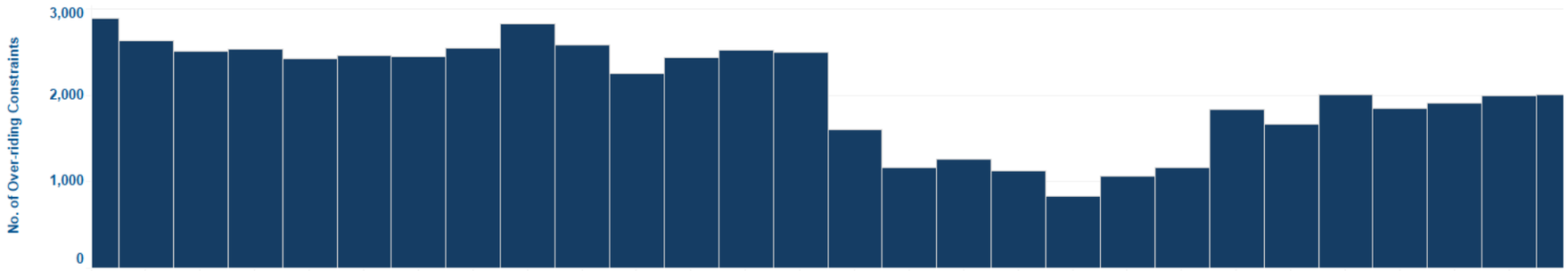
LUZON OVER-RIDING CONSTRAINTS

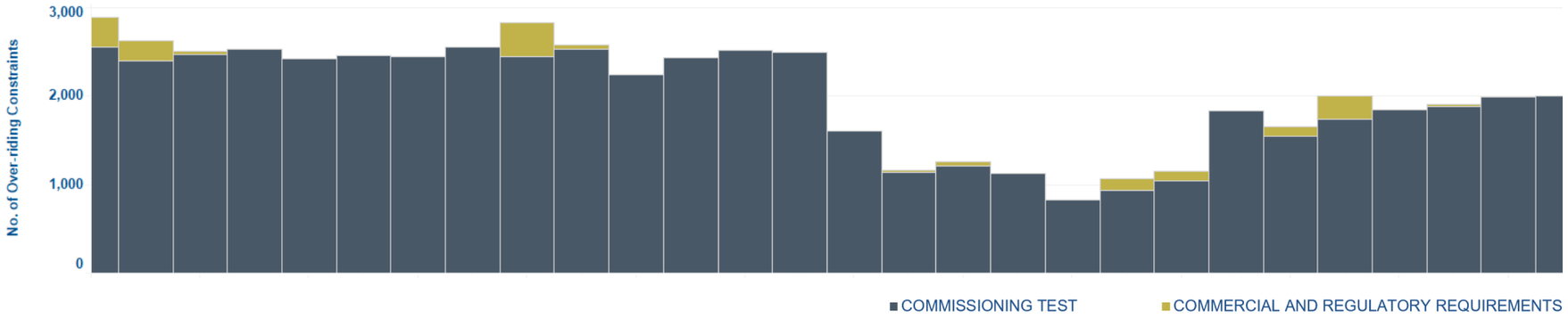
26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation



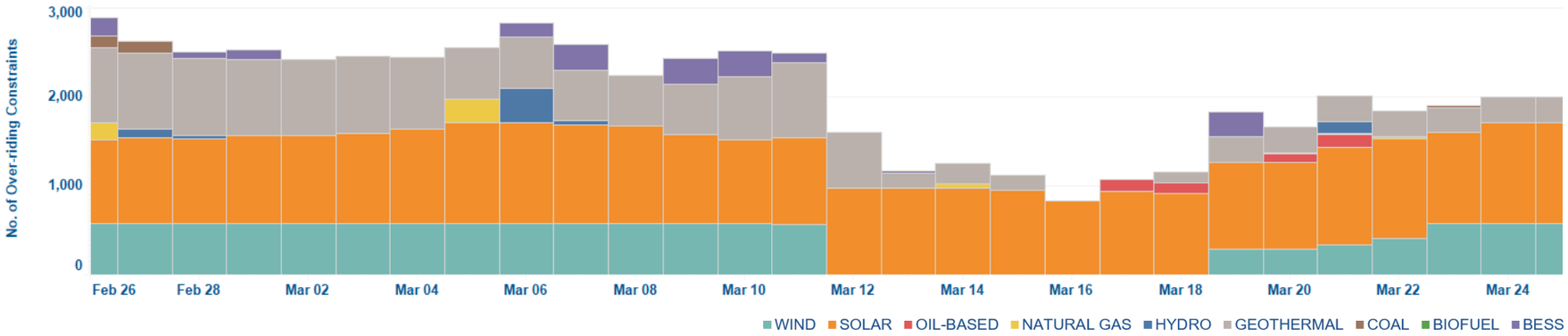
By Day

	No. of Over-riding Constraints	Date
Maximum	2,890	26-Feb
Average	2,036	
Minimum	828	16-Mar



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	55,251
Commercial and Regulatory Requirements	1,757



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	28,322
Geothermal	13,719
Wind	11,109
Battery	1,842
Hydro	688
Natural Gas	540
Oil-based	504
Coal	284

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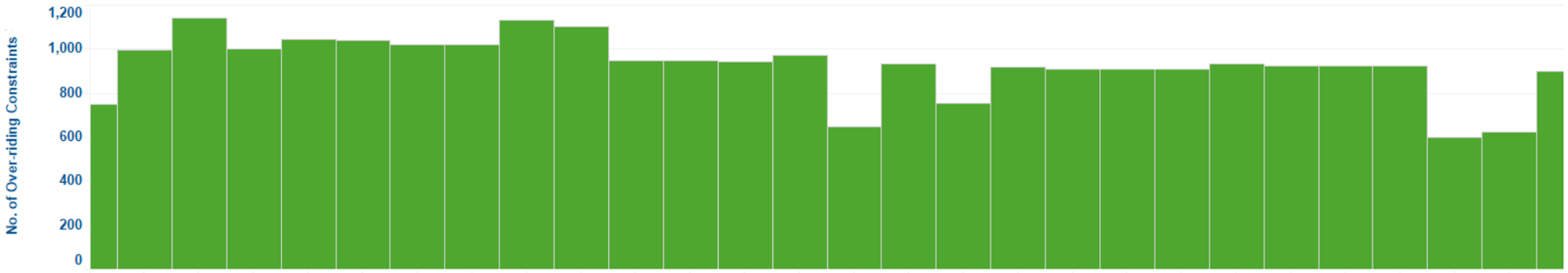
VISAYAS OVER-RIDING CONSTRAINTS

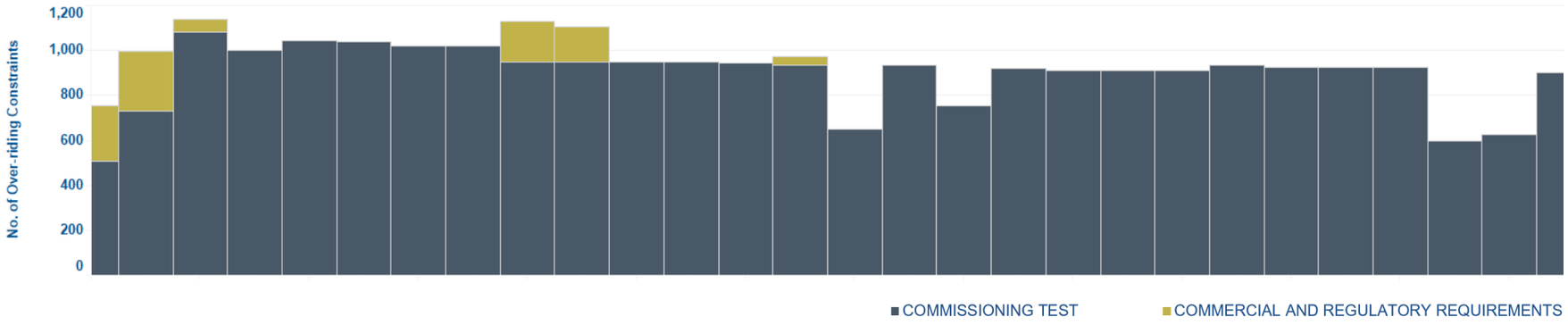
26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation



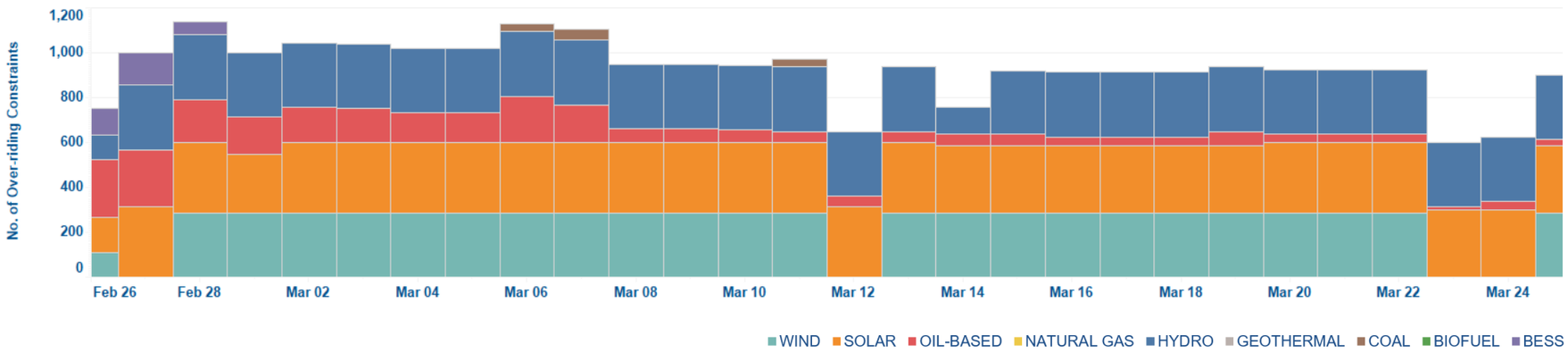
By Day

	No. of Over-riding Constraints	Date
Maximum	1,140	28-Feb
Average	925	
Minimum	600	23-Mar



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	24,945
Commercial and Regulatory Requirements	943



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	8,421
Hydro	7,712
Wind	6,734
Oil-based	2,579
Battery	322
Coal	120

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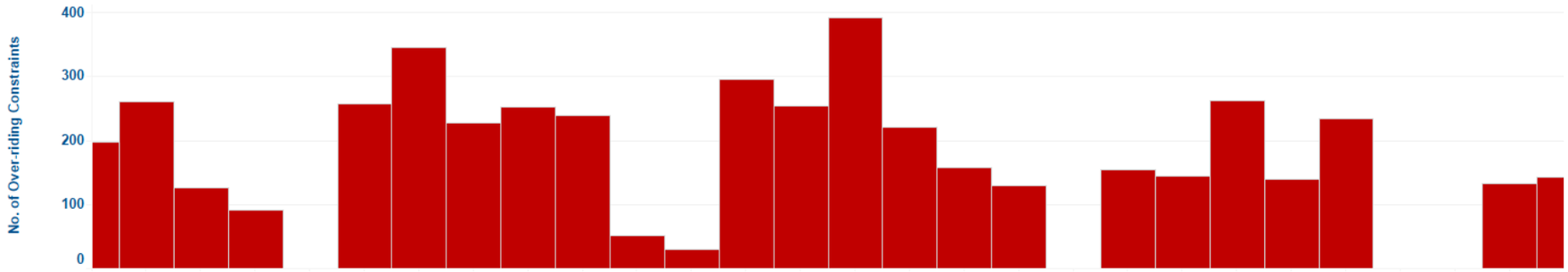
MINDANAO OVER-RIDING CONSTRAINTS

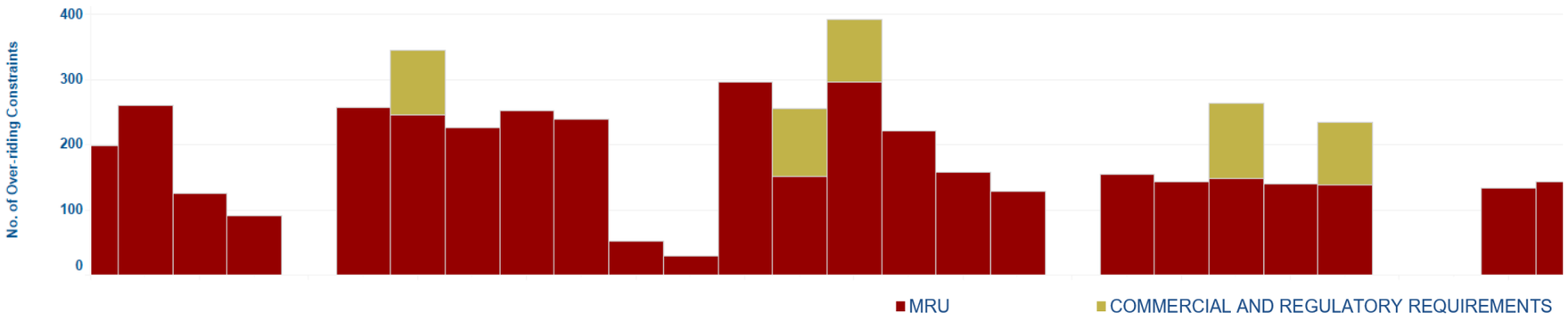
26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation



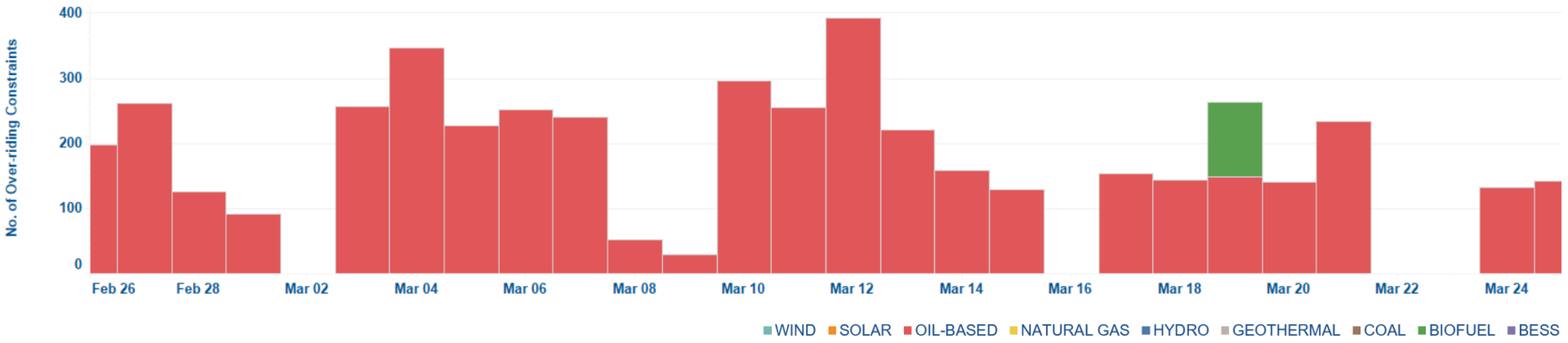
By Day

	No. of Over-riding Constraints	Date
Maximum	392	12-Mar
Average	198	
Minimum	30	9-Mar



By Incident

Incident	No. of Over-riding Constraints
MRU	4,233
Commercial and Regulatory Requirements	510



By Plant Type

Plant Type	No. of Over-riding Constraints
Oil-based	4,629
Biofuel	114

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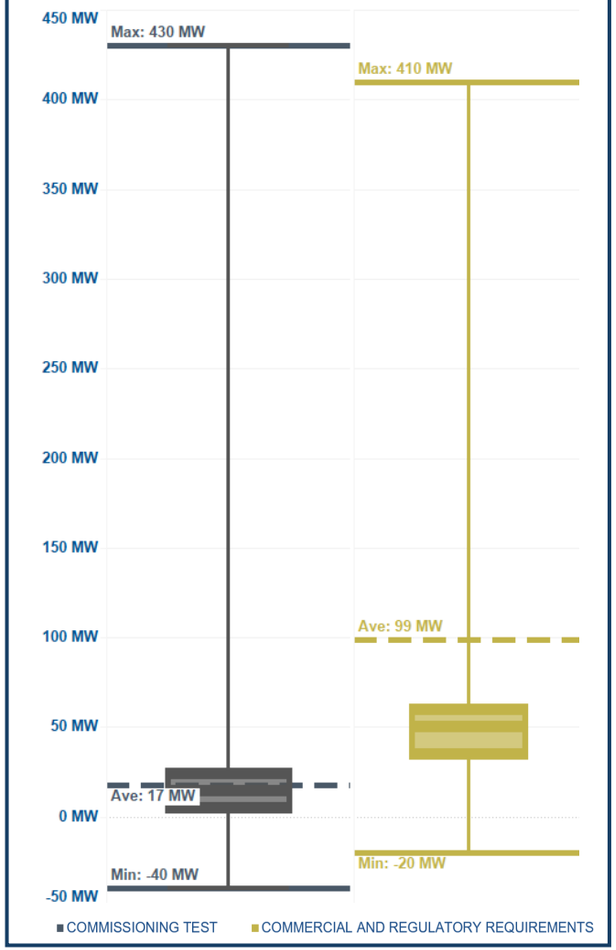
LUZON SCHEDULED CAPACITIES

26 February 2025 - 25 March 2025

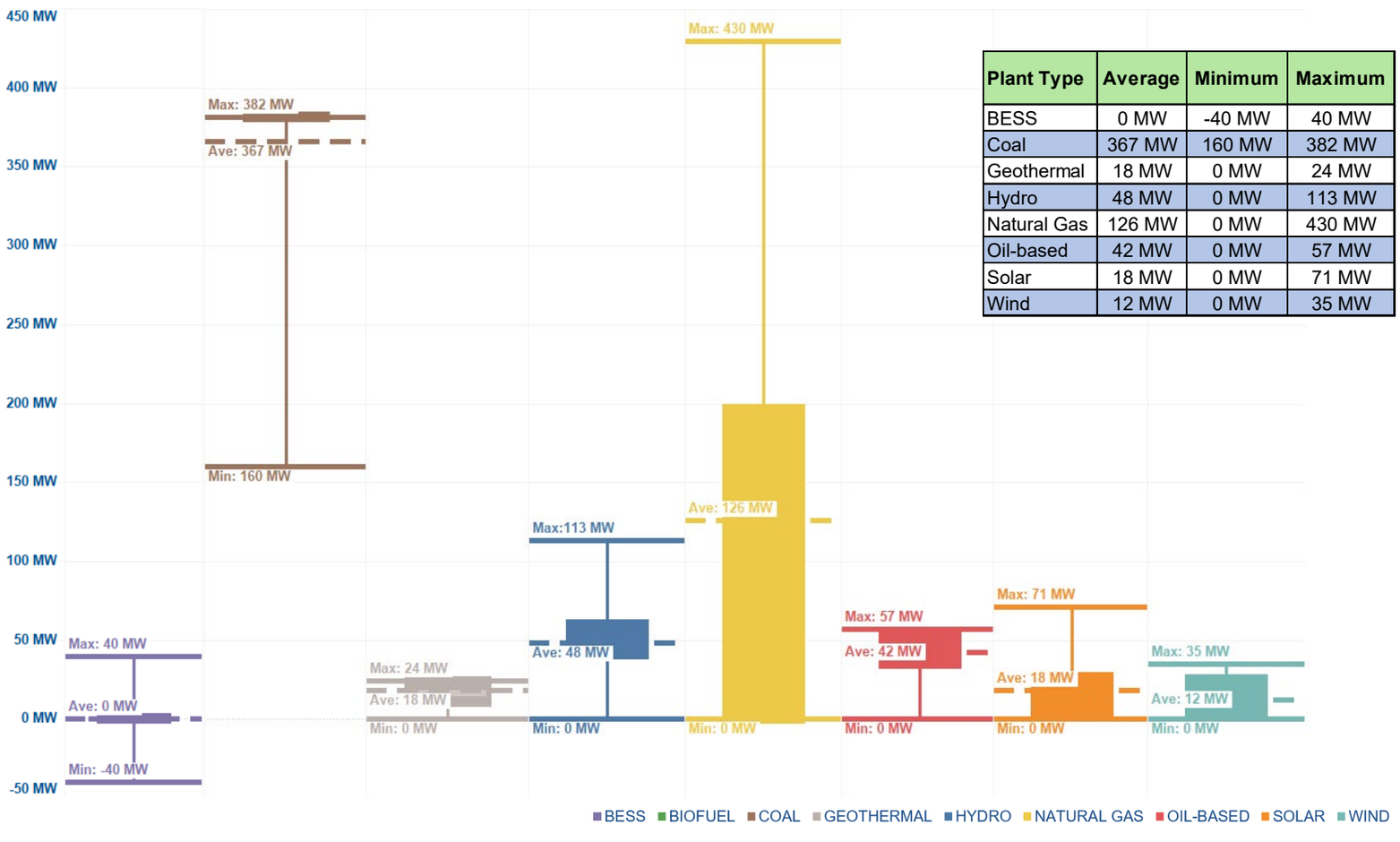
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commissioning Test	17 MW	-40 MW	430 MW
Commercial and Regulatory Requirements	99 MW	-20 MW	410 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	0 MW	-40 MW	40 MW
Coal	367 MW	160 MW	382 MW
Geothermal	18 MW	0 MW	24 MW
Hydro	48 MW	0 MW	113 MW
Natural Gas	126 MW	0 MW	430 MW
Oil-based	42 MW	0 MW	57 MW
Solar	18 MW	0 MW	71 MW
Wind	12 MW	0 MW	35 MW

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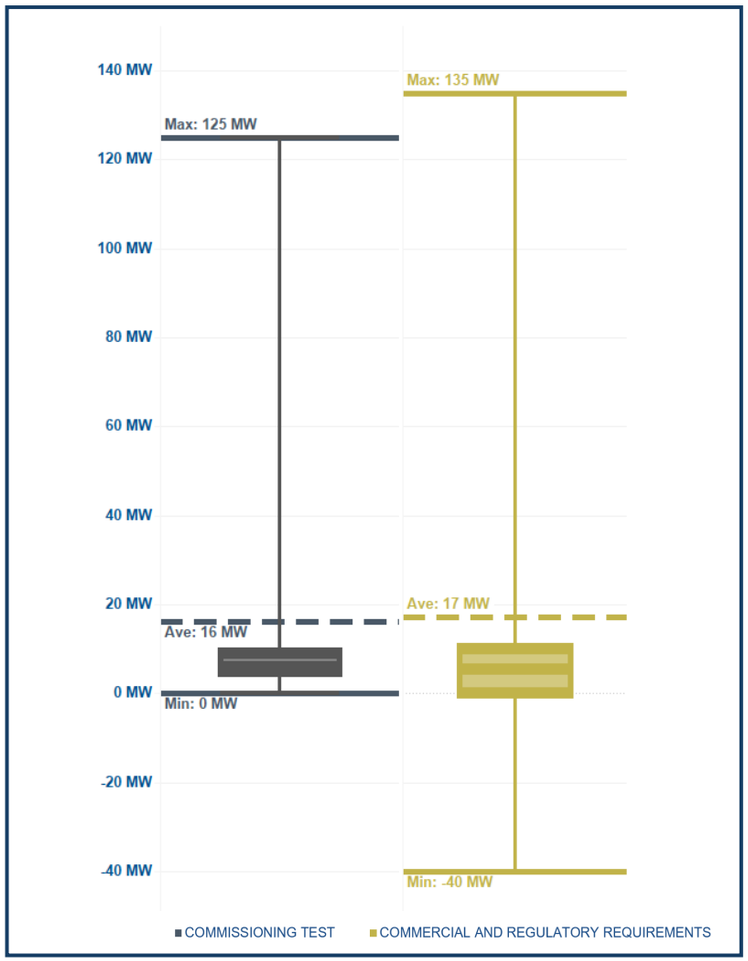
VISAYAS SCHEDULED CAPACITIES

26 February 2025 - 25 March 2025

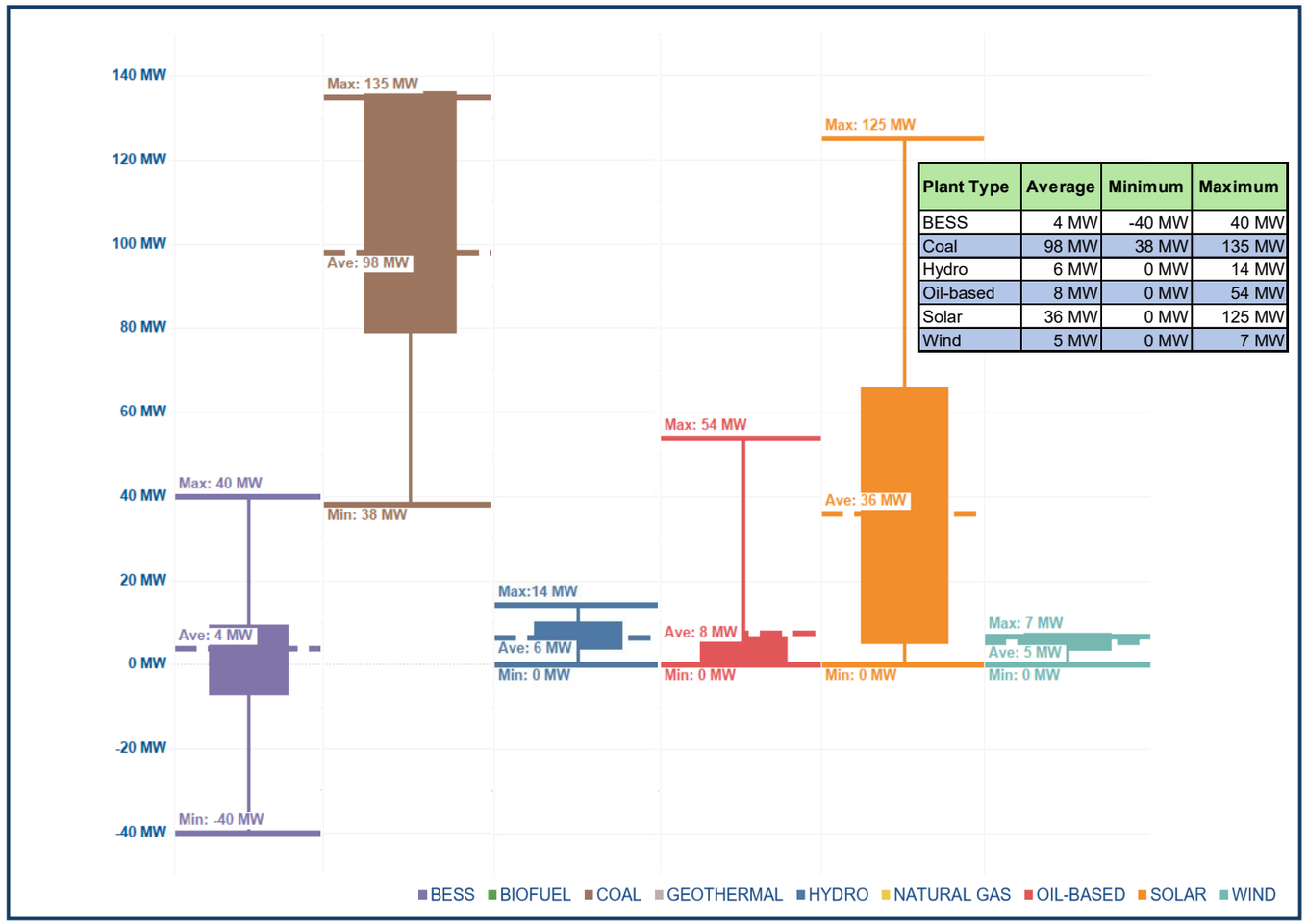
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commissioning Test	16 MW	0 MW	125 MW
Commercial and Regulatory Requirements	17 MW	-40 MW	135 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	4 MW	-40 MW	40 MW
Coal	98 MW	38 MW	135 MW
Hydro	6 MW	0 MW	14 MW
Oil-based	8 MW	0 MW	54 MW
Solar	36 MW	0 MW	125 MW
Wind	5 MW	0 MW	7 MW

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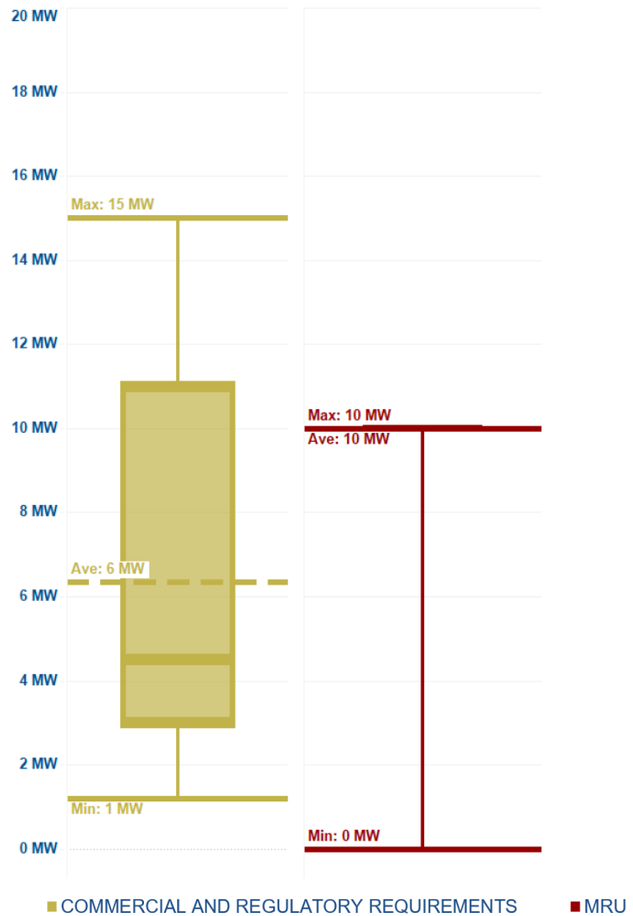
MINDANAO SCHEDULED CAPACITIES

26 February 2025 - 25 March 2025

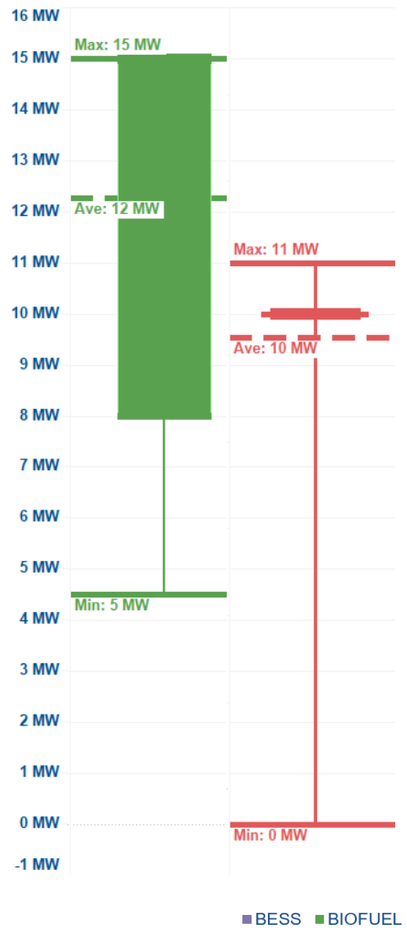
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Maximum
Commercial and Regulatory Requirements	6 MW	1 MW	15 MW
MRU	10 MW	0 MW	10 MW

By Plant Type



Plant Type	Average	Minimum	Maximum
Biofuel	12 MW	5 MW	15 MW
Oil-based	10 MW	0 MW	11 MW

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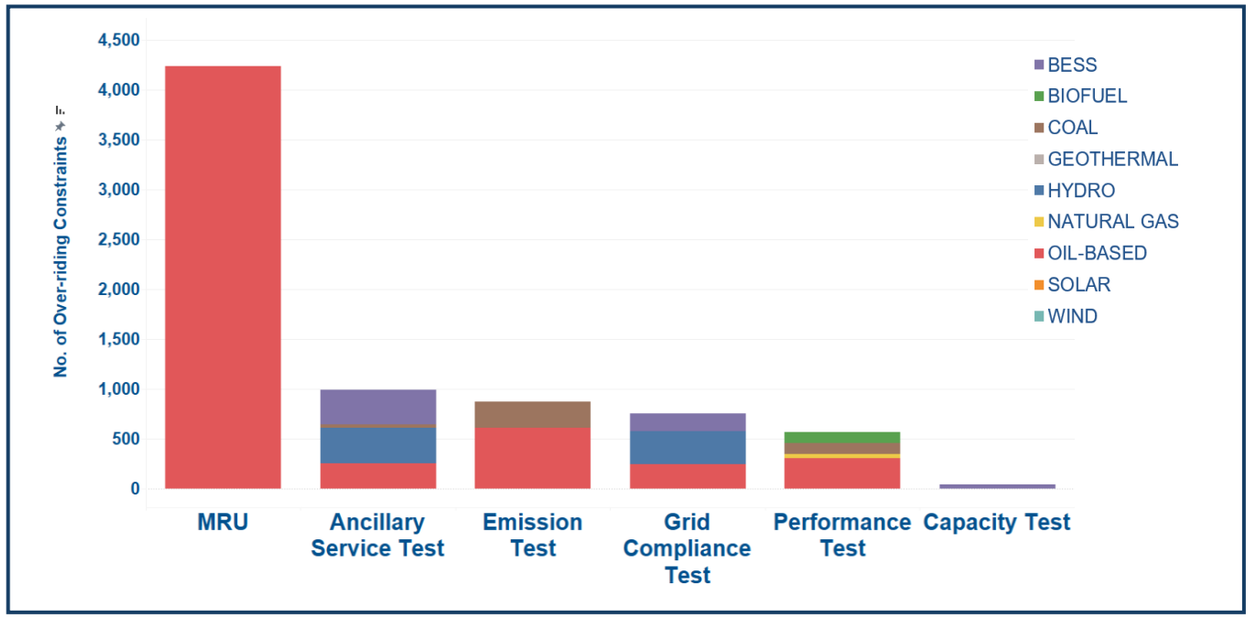
OVER-RIDING CONSTRAINTS EXCLUDING COMMISSIONING TESTS

Luzon, Visayas, Mindanao

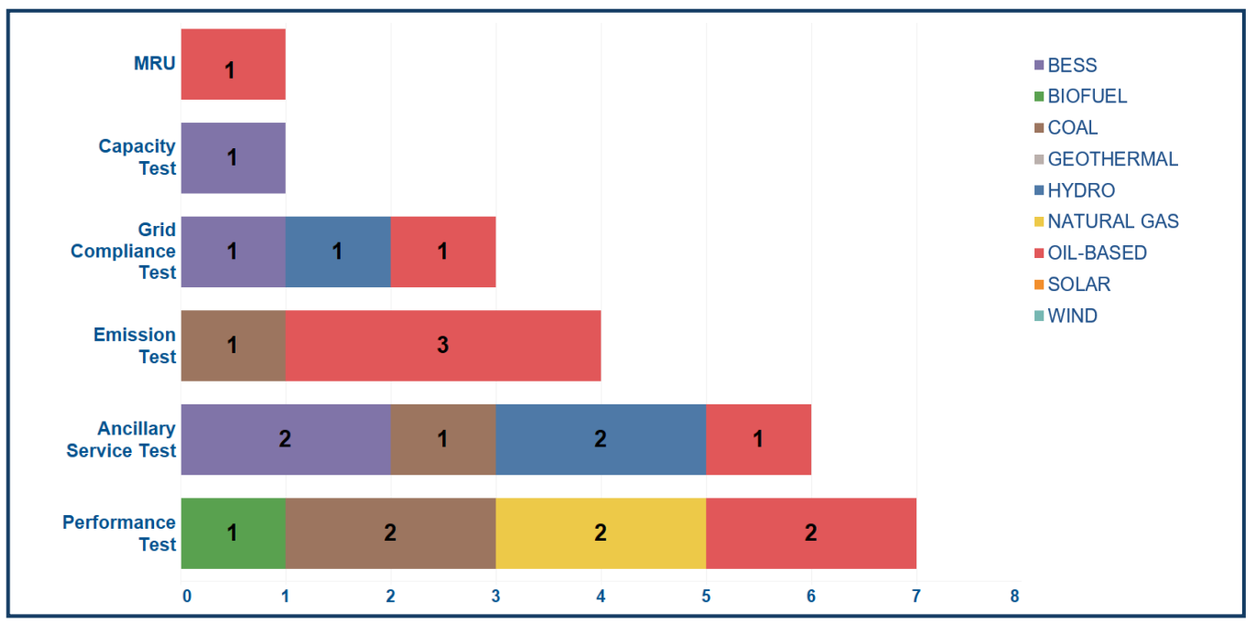
26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation



Over-riding Constraints By Incident

Reasons	No. of Over-riding Constraints
MRU	4,233
Ancillary Service Test	988
Emission Test	867
Grid Compliance Test	751
Performance Test	568
Capacity Test	36



Number of Plants By Incident

Reasons	No. of Plants
MRU	1
Capacity Test	1
Grid Compliance Test	3
Emission Test	4
Ancillary Service Test	6
Performance Test	7

PUBLIC

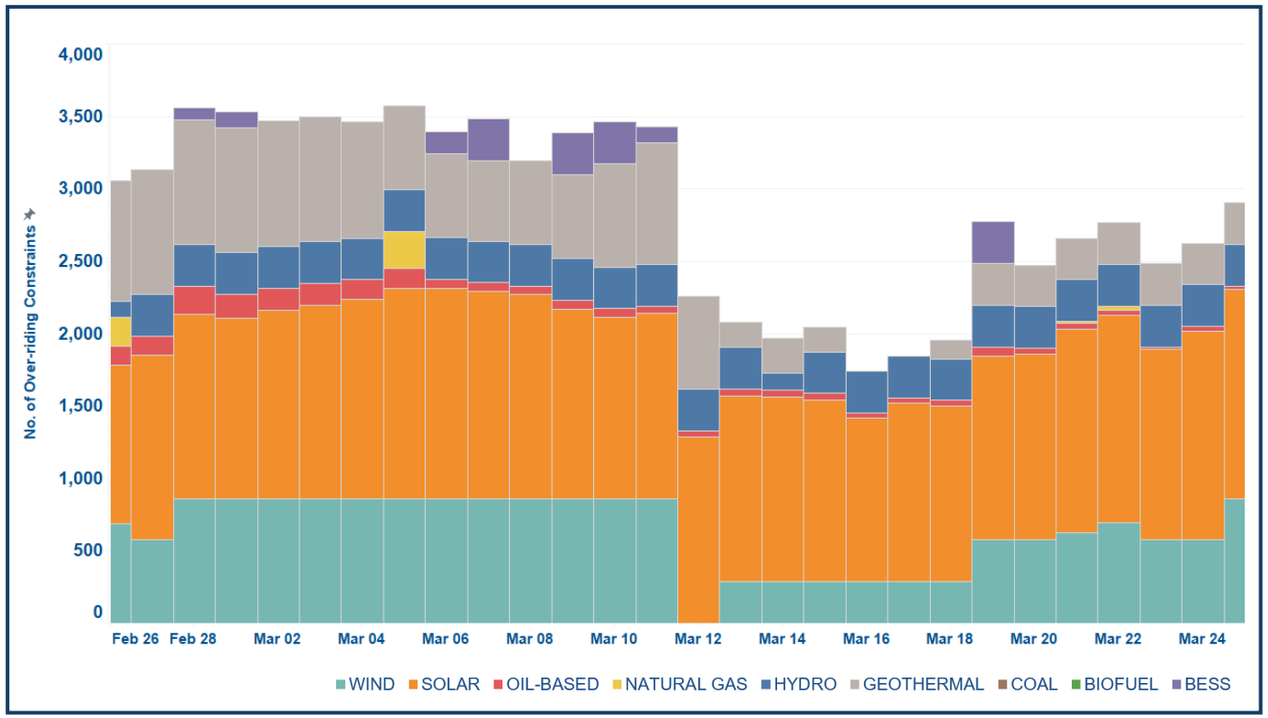
PLANTS UNDER COMMISSIONING TESTS

Luzon, Visayas, Mindanao

26 February 2025 - 25 March 2025

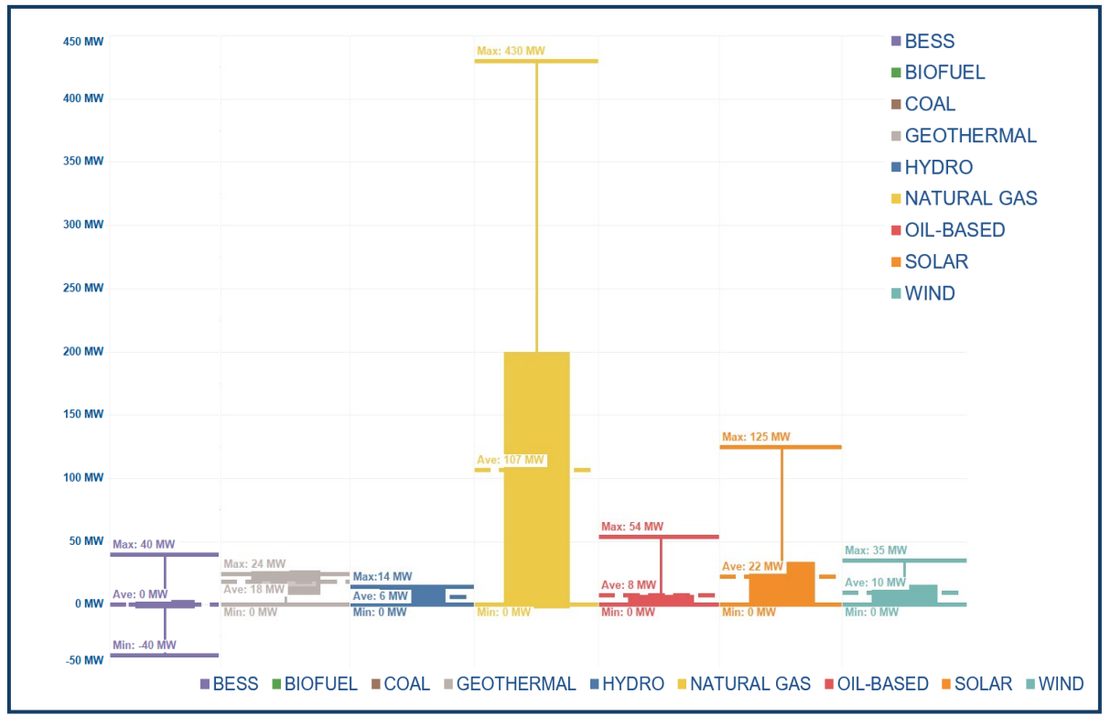
Philippine Electricity Market Corporation

Number of Over-riding Constraints
By Plant Type



Plant Type	No. of Over-riding Constraints
Solar	36,743
Wind	17,843
Geothermal	13,719
Hydro	7,712
Oil-based	2,078
Battery	1,608
Natural Gas	493

Scheduled Capacities
By Plant Type



Plant Type	Average	Minimum	Maximum
BESS	0 MW	-40 MW	40 MW
Geothermal	18 MW	0 MW	24 MW
Hydro	6 MW	0 MW	14 MW
Natural Gas	107 MW	0 MW	430 MW
Oil-based	8 MW	0 MW	54 MW
Solar	22 MW	0 MW	125 MW
Wind	10 MW	0 MW	35 MW

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 February 2025 - 25 March 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
35.700 MW Palayan Binary Power Plant	Geothermal	31
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4
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
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
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
69.949 MW Lamao Battery Energy Storage System (BESS)	Battery	50
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2
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
Angat Hydroelectric Power Plant Unit A	Hydro	40.7
Angat Hydrolectric Power Plant Unit M	Hydro	148.9
Mariveles Coal Fired Thermal Power Plant Unit 1	Coal	316
Samal Solar Power Project Phase 1	Solar	35.8

***As of 25 March 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
LUZON		
Navotas Bunker C-Fired Diesel Power Plant Power Barge 1 / Mobile 3	Oil-Based	63.8
Navotas Bunker C-Fired Diesel Power Plant Power Barge 3 / Mobile 5	Oil-Based	55.2
San Gabriel Avion Natural Gas-Fired Power Plant Unit 2	Natural Gas	45.8
57.125 MWh Lumban Battery Energy Storage System (BESS)	Battery	50
Pagbilao Coal-Fired Power Plant 1	Coal	382
442.850MW San Gabriel Combined-Cycle Power Plant (CCPP)	Natural Gas	417.4
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
47.486 MW Ormoc Battery Energy Storage System(BESS)	Battery	40
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57
14.160MW Upper Taft Hydroelectric Power Plant	Run-of River Hydro	14.2
Carmen Diesel Power Plant Unit 1	Oil-based	10
Carmen Diesel Power Plant Unit 2	Oil-based	10
Carmen Diesel Power Plant Unit 3	Oil-based	10
Cebu Coal-Fired Thermal Power Plant (Cebu CFTPP) Unit 2	Coal	103
Naga Oil-Fired Power Plant Unit 4	Oil-based	5.5
Naga Oil-Fired Power Plant Unit 5	Oil-based	5.5
Naga Oil-Fired Power Plant Unit 6	Oil-based	5.5
135.000 MW Circulating Fluidized Bed (CFB) Coal-Fired Power Plant (CFPP)	Coal	135
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
112 MW Bunker-C Fired Diesel Power Plant Unit 6	Oil-based	10.2

***As of 25 March 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
MINDANAO		
112 MW Bunker-C Fired Diesel Power Plant Unit 9	Oil-based	10.2
Misamis Occidental Bunker C-Fired Diesel Power Plant 3 Unit 1	Oil-based	7.5
Misamis Occidental Bunker C-Fired Diesel Power Plant 3 Unit 2	Oil-based	8
112 MW Bunker-C Fired Diesel Power Plant Unit 8	Oil-based	10.1
11.040 Mati Bunker C-Fired Diesel Power Plant	Oil-based	11
15.0 MW Biomass Power Plant	Biofuel	15
11.90 MW Koronadal Bunker C-Fired Diesel Power Plant	Oil-based	11.9

***As of 25 March 2025**

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ANNEX B PLANTS UNDER COMMISSIONING TEST

26 February 2025 - 25 March 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity	No. of PCATC Extensions	No. of Days under Commissioning Tests
Navotas Bunker C-Fired Diesel Power Plant Power Barge 3 / Mobile 5	Oil-based	55.2	-	0
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57	-	41
80.000 MW Balaoi and Caunayan Wind Power Project Phase 1	Wind	80	22	752
Caparispisan II Wind Power Project	Wind	50	11	385
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2	10	355
63.961 MWp Cordon Solar Power Project	Solar	52.8	-	47
Samal Solar Power Project Phase 1	Solar	35.8	-	6
72.128 MWp Subic New PV Power Plant Project	Solar	62.7	11	391
Concepcion 1 Solar Power Project	Solar	76	5	185
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4	4	158
46.658MWP Armenia Solar Power Project (SPP)	Solar	37.8	3	99
27.121 MWp Dagohoy Solar Power Project	Solar	20.2	3	133
23.776 MWP Bongabon Solar Power Project	Solar	18.8	2	116
19.613 MWp San Jose Solar Power Plant (SPP)	Solar	15.3	2	95
137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4	2	104
45.758 MWh Gamu Battery Energy Storage System (BESS)	Battery	40	10	350
57.125 MWh Lumban Battery Energy Storage System (BESS)	Battery	50	9	281
Angat Hydroelectric Power Plant Unit A	Hydro	40.7	-	0
Angat Hydrolectric Power Plant Unit M	Hydro	148.9	-	1
14.160MW Upper Taft Hydroelectric Power Plant	Run-of River Hydro	14.2	5	197
Batangas Combined Cycle Power Plant Unit 3	Natural Gas	440	5	194
35.700 MW Palayan Binary Power Plant	Geothermal	31	12	455
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2	1	63
17MW Tiwi Geothermal Binary Power Plant	Geothermal	16.7	9	294

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

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ANNEX C

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

26 February 2025 - 25 March 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
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57	-	13
18.6 MW Bunker C-Fired Diesel Power Plant	Oil-based	18.1	5	189

***As of 25 March 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.