MONTHLY MONITORING OF OVER-RIDING CONSTRAINTS STATISTICS

MAY 2025
(26 April to 25 May 2025)

Document Information Classification: Public

PUBLIC

AT A GLANCE

26 April 2025 - 25 May 2025

Total Over-riding Constraints Imposition **71,288** | **▼26.11%** decrease from previous billing period

LUZON
47,571

Solar plants had the highest no. of OC*

Coal plants, on average, had the largest capacities scheduled due to Performance and Grid Compliance Tests

Most OC were due to commissioning test of Solar and Wind plants

VISAYAS
22,660

Hydro plants had the highest no. of OC

Solar plants, on average, had the largest capacities scheduled due to Commissioning Tests

Most OC were due to commissioning test of Wind and Hydro plants

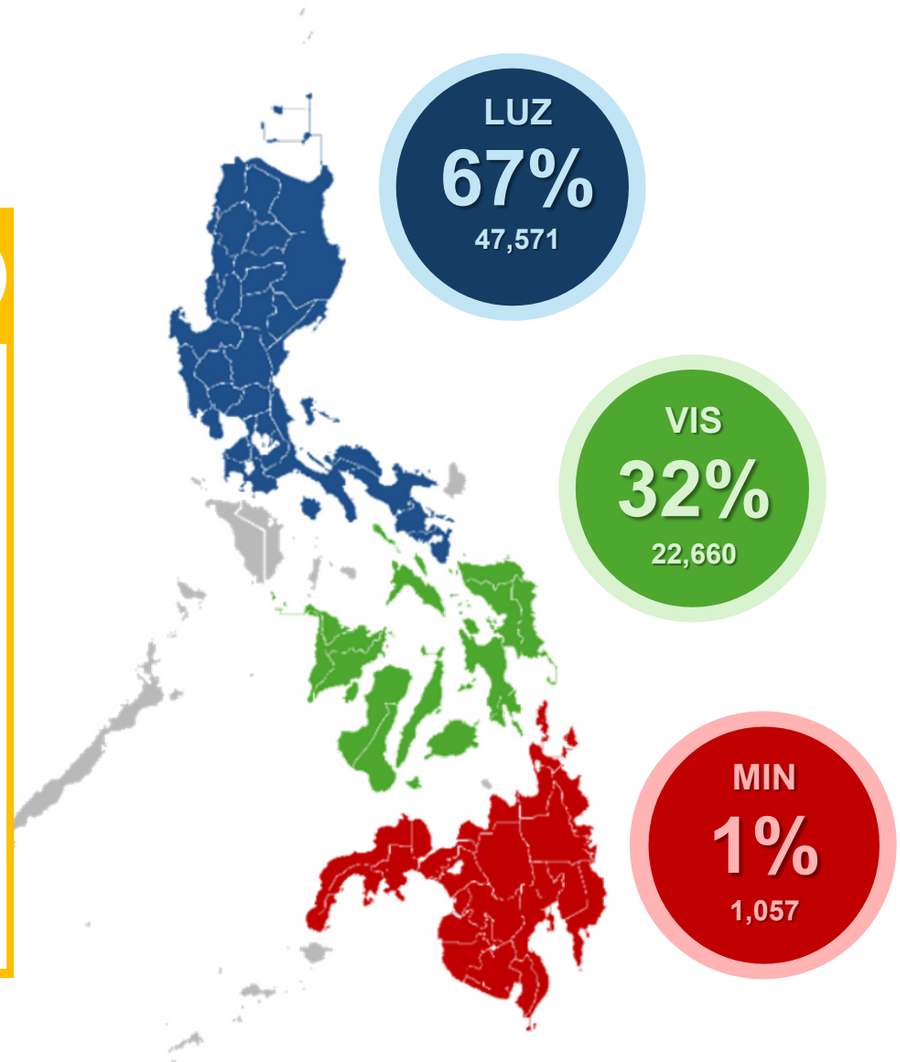
MINDANAO
1,057

Oil-based plants had the highest no. of OC

Coal plants, on average, had the largest capacities scheduled due to Emission Tests

Most OC were due to Emmission Test for Coal and Oil-based plants

*OC – Over-riding Constraints



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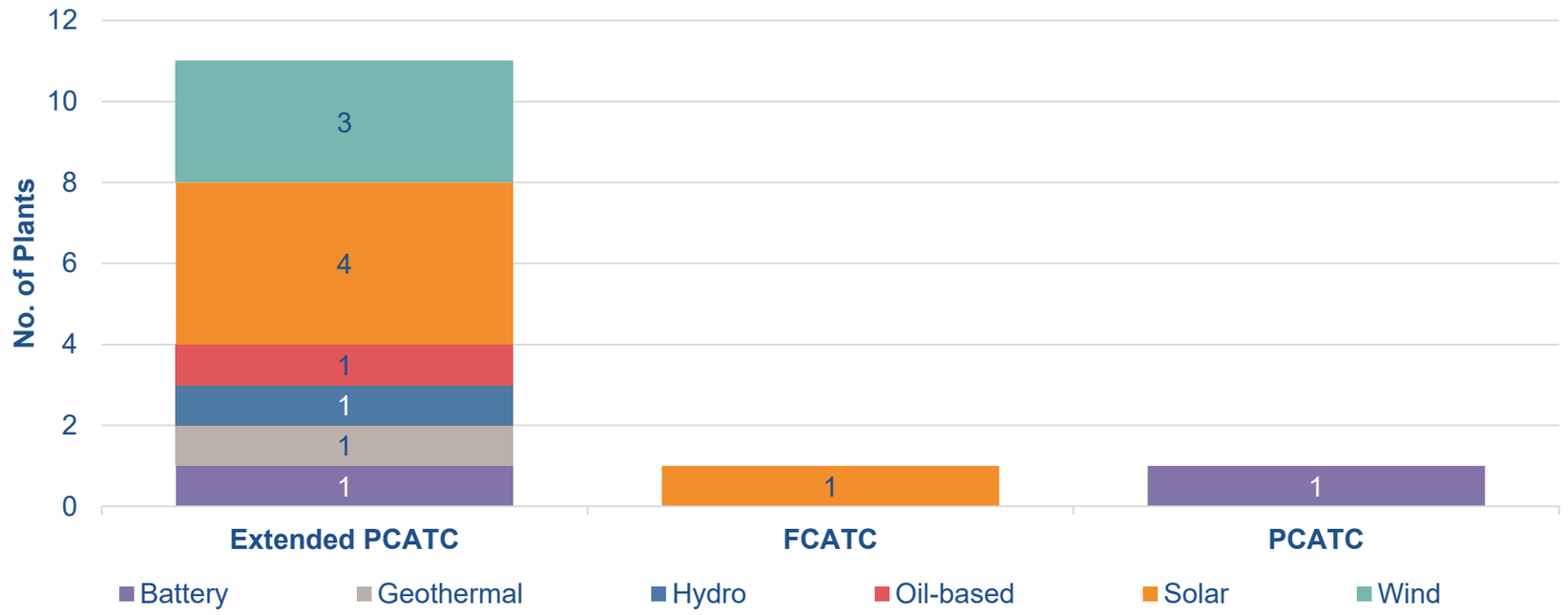
STATUS OF PLANTS UNDER COMMISSIONING TEST

26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation

No. of Plants Under Commissioning Test

13



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

Noted no. of extensions for commissioning test period

BESS	GEO	HYDRO	OIL	SOLAR	WIND
57	124	258	87	153	558
1 – Bacman Battery	3 – Tanawon GPP	7 – Upper Taft HEPP	1 – Bohol In-Island DPP	7 – Concepcion 1 Solar 4 – Calatrava Solar 2 – Cordon Solar 1 – Samal Solar	24 – Balaoi Caunayan Wind 13 – Caparispisan Wind 12 – PWEI Nabas Wind

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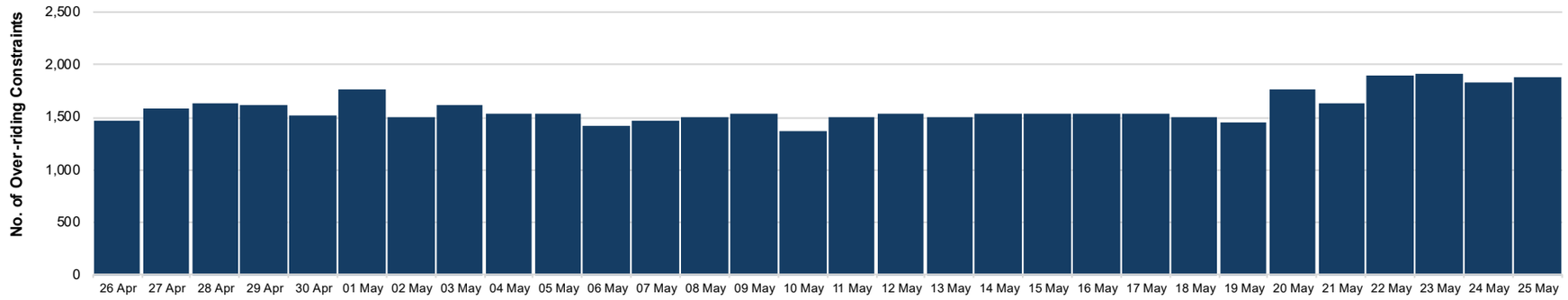
LUZON OVER-RIDING CONSTRAINTS

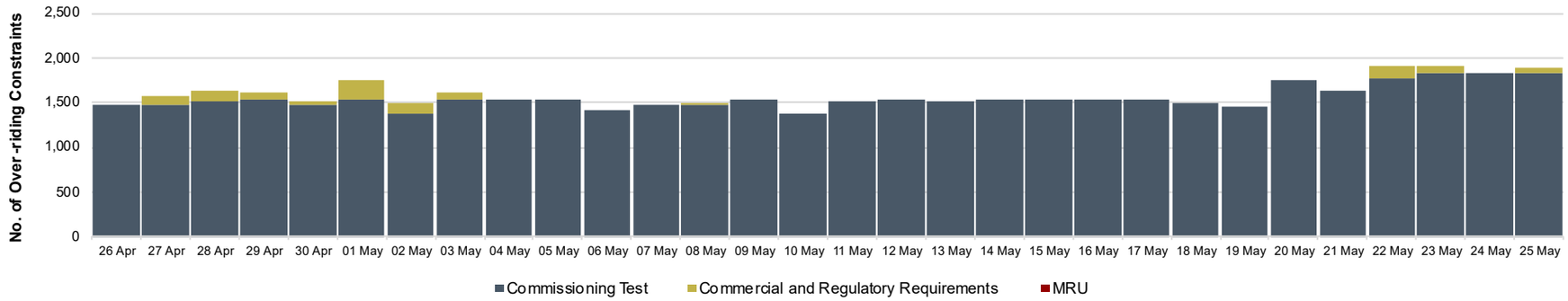
26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation



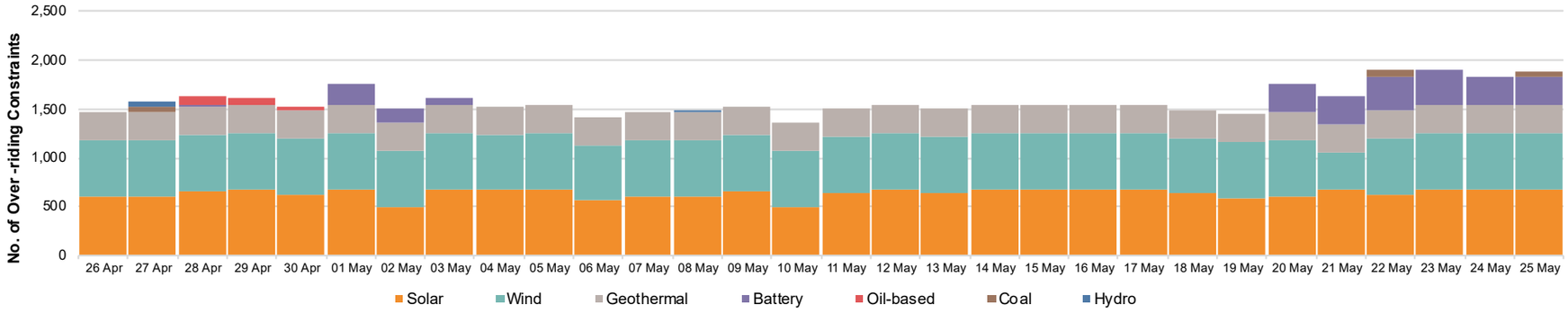
By Day

	No. of Over-riding Constraints	Date
Maximum	1,910	23-May
Average	1,586	
Minimum	1,368	10-May



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	46,519
Commercial and Regulatory Requirements	1,052
MRU	-



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	19,080
Wind	17,071
Geothermal	8,640
Battery	2,325
Oil-based	199
Coal	190
Hydro	66

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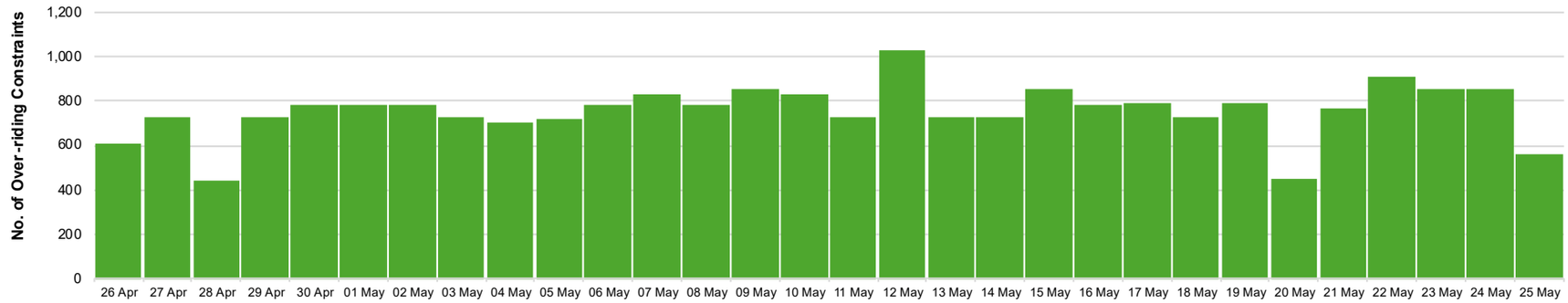
VISAYAS OVER-RIDING CONSTRAINTS

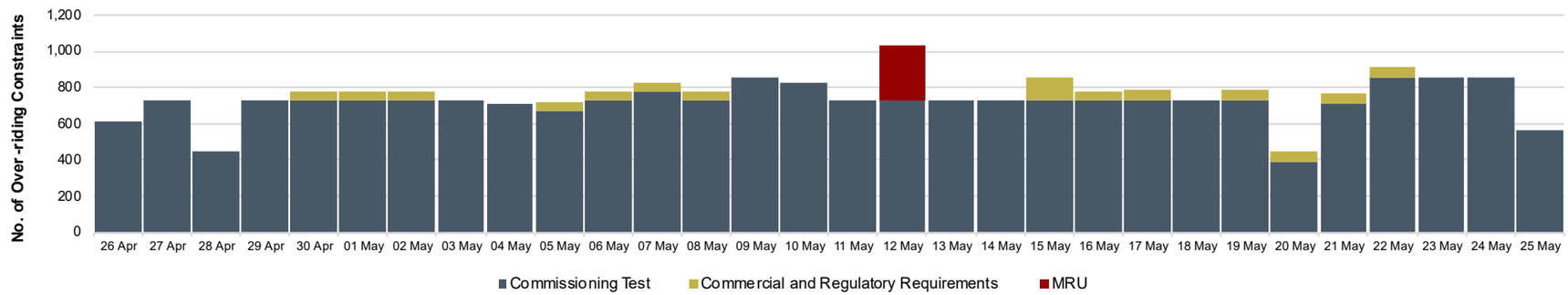
26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation



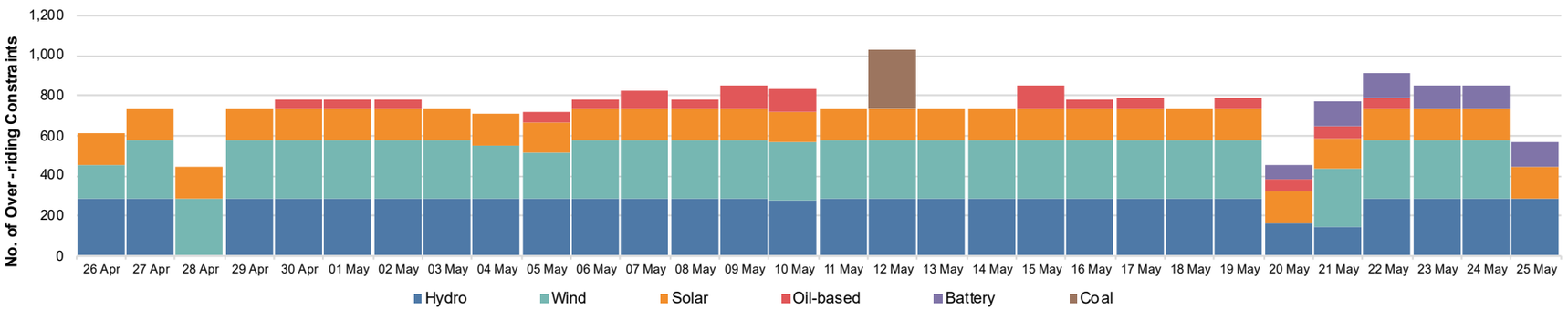
By Day

	No. of Over-riding Constraints	Date
Maximum	1,030	12-May
Average	755	
Minimum	444	28-Apr



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	21,557
Commercial and Regulatory Requirements	805
MRU	298



By Plant Type

Plant Type	No. of Over-riding Constraints
Hydro	8,073
Wind	7,857
Solar	4,680
Oil-based	1,080
Battery	672
Coal	298

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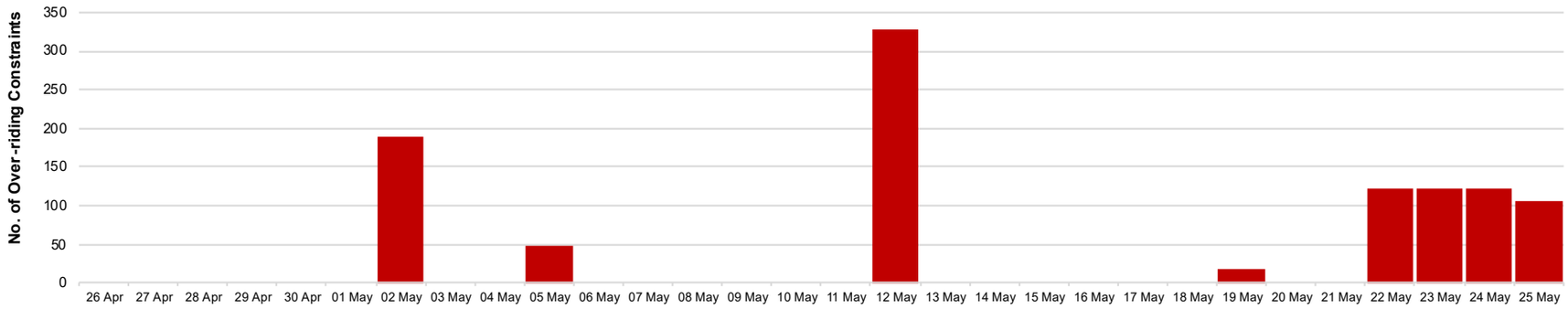
MINDANAO OVER-RIDING CONSTRAINTS

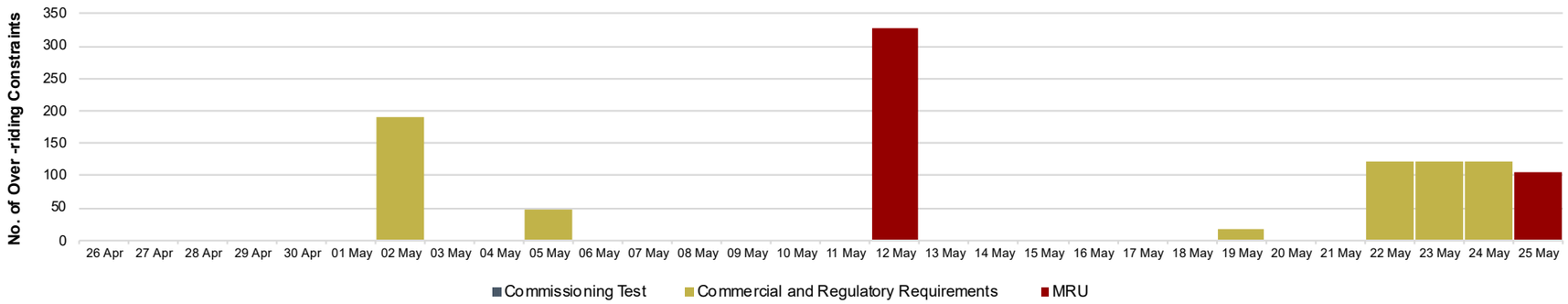
26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation



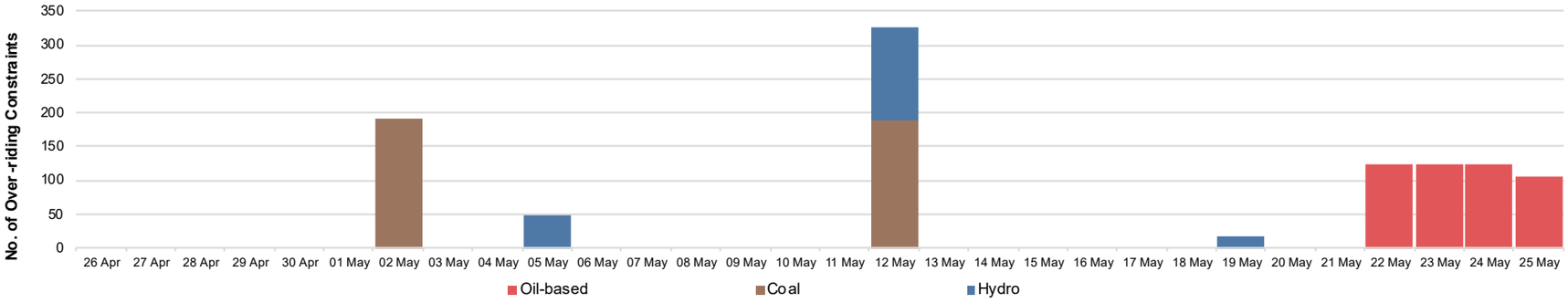
By Day

	No. of Over-riding Constraints	Date
Maximum	327	12-May
Average	132	
Minimum	18	19-May



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	-
Commercial and Regulatory Requirements	625
MRU	432



By Plant Type

Plant Type	No. of Over-riding Constraints
Oil-based	474
Coal	378
Hydro	205

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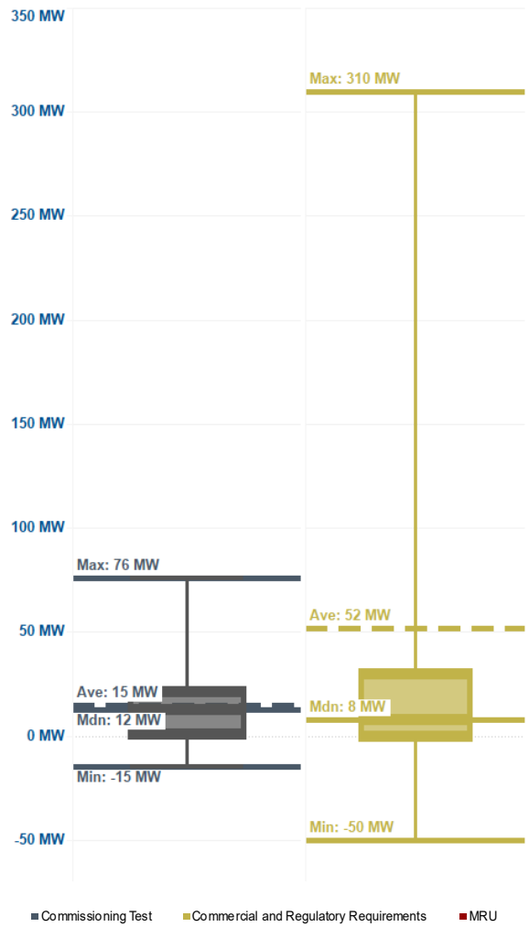
LUZON SCHEDULED CAPACITIES

26 April 2025 - 25 May 2025

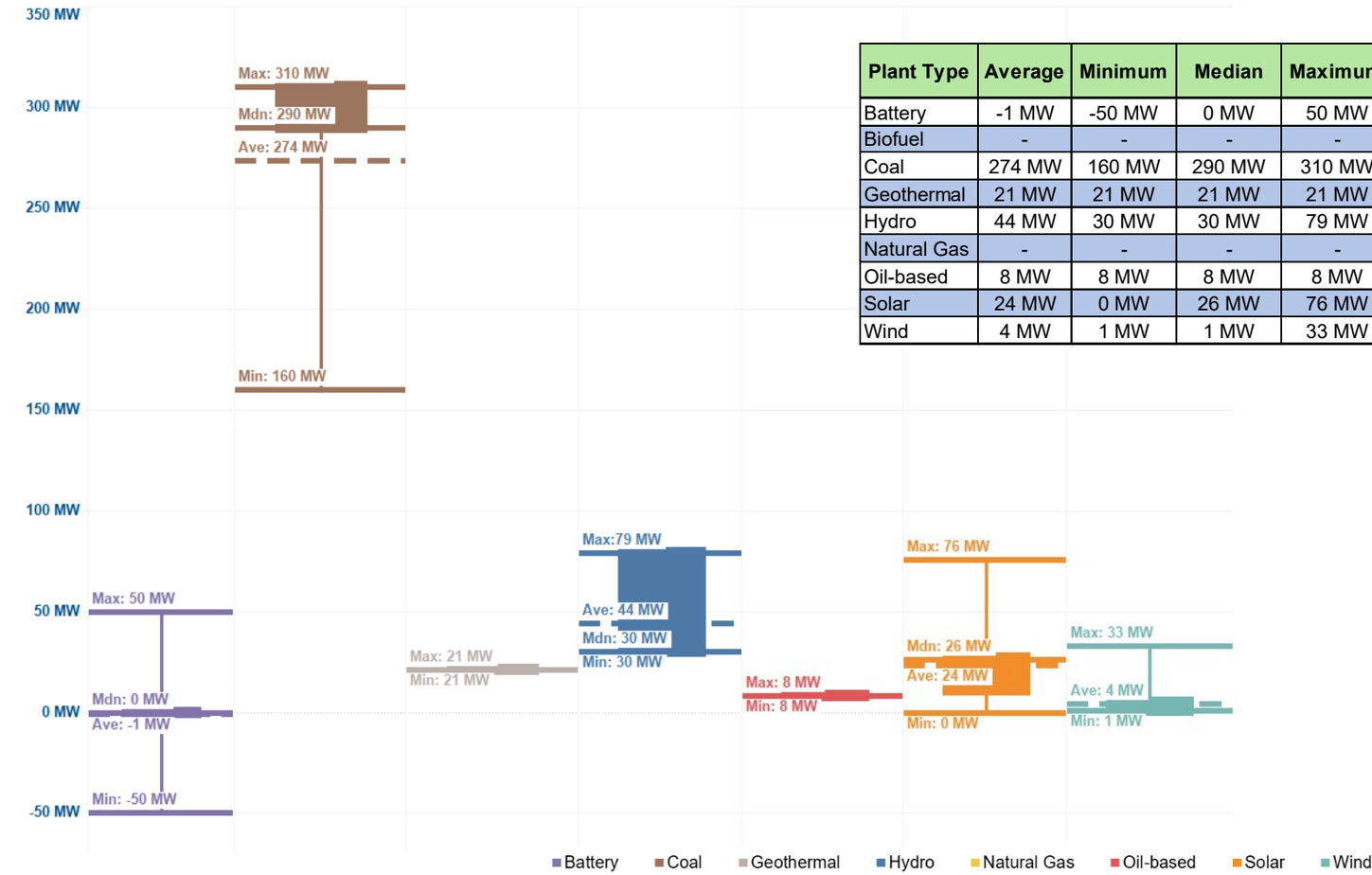
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	15 MW	-15 MW	12 MW	76 MW
Commercial and Regulatory Requirements	52 MW	-50 MW	8 MW	310 MW
MRU	-	-	-	-

By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	-1 MW	-50 MW	0 MW	50 MW
Biofuel	-	-	-	-
Coal	274 MW	160 MW	290 MW	310 MW
Geothermal	21 MW	21 MW	21 MW	21 MW
Hydro	44 MW	30 MW	30 MW	79 MW
Natural Gas	-	-	-	-
Oil-based	8 MW	8 MW	8 MW	8 MW
Solar	24 MW	0 MW	26 MW	76 MW
Wind	4 MW	1 MW	1 MW	33 MW

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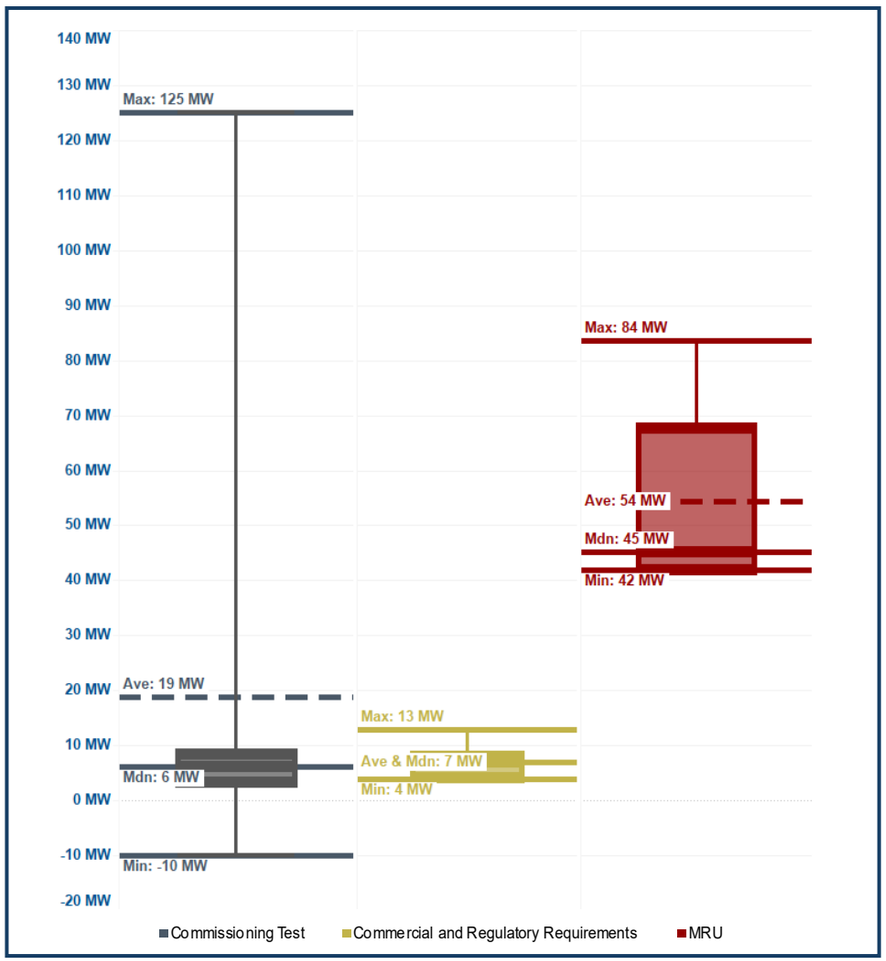
VISAYAS SCHEDULED CAPACITIES

26 Apr 2025 - 25 May 2025

Philippine Electricity Market Corporation

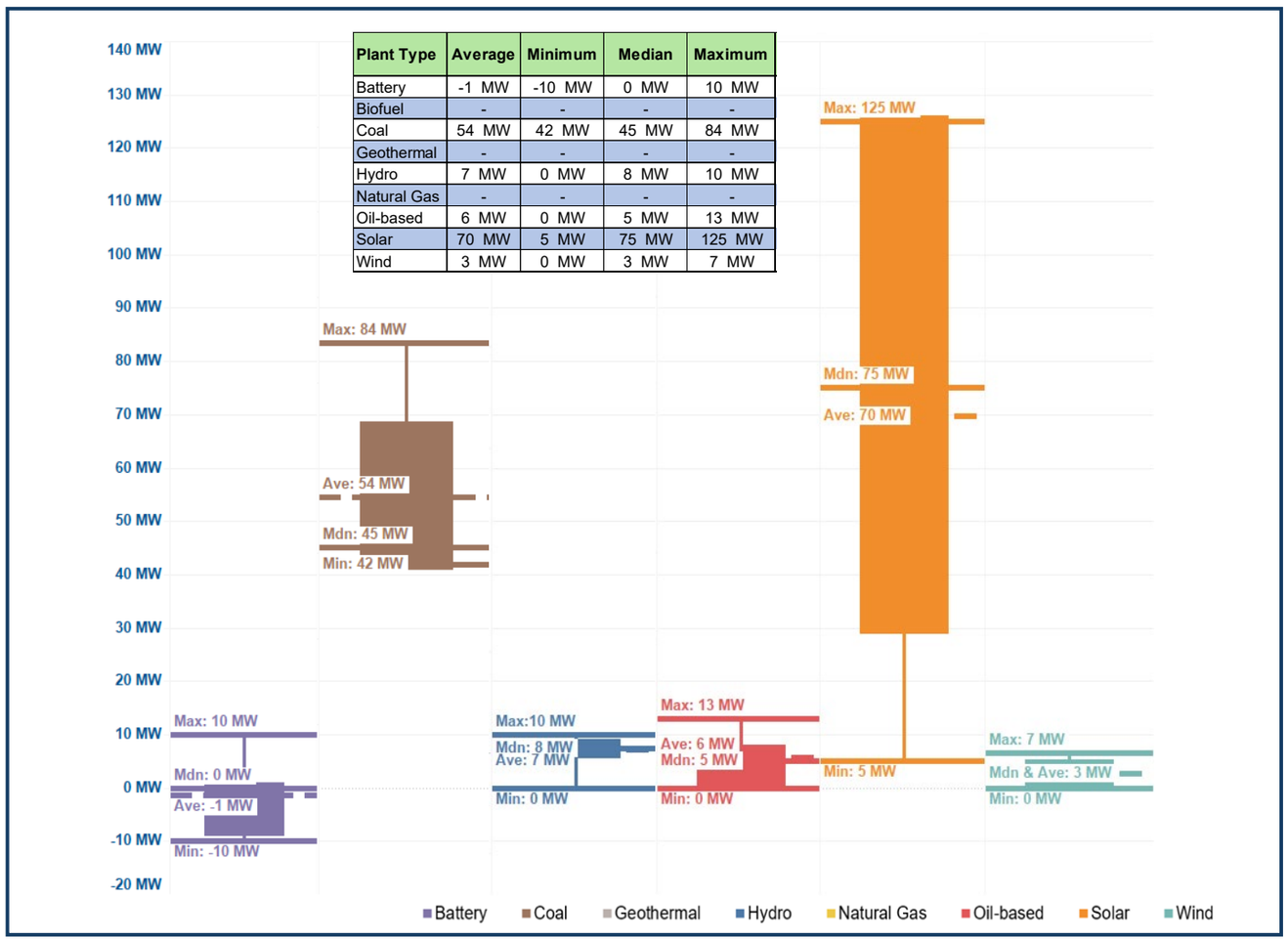
By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	19 MW	-10 MW	6 MW	125 MW
Commercial and Regulatory Requirements	7 MW	4 MW	7 MW	13 MW
MRU	54 MW	42 MW	45 MW	84 MW

By Plant Type

Plant Type	Average	Minimum	Median	Maximum
Battery	-1 MW	-10 MW	0 MW	10 MW
Biofuel	-	-	-	-
Coal	54 MW	42 MW	45 MW	84 MW
Geothermal	-	-	-	-
Hydro	7 MW	0 MW	8 MW	10 MW
Natural Gas	-	-	-	-
Oil-based	6 MW	0 MW	5 MW	13 MW
Solar	70 MW	5 MW	75 MW	125 MW
Wind	3 MW	0 MW	3 MW	7 MW



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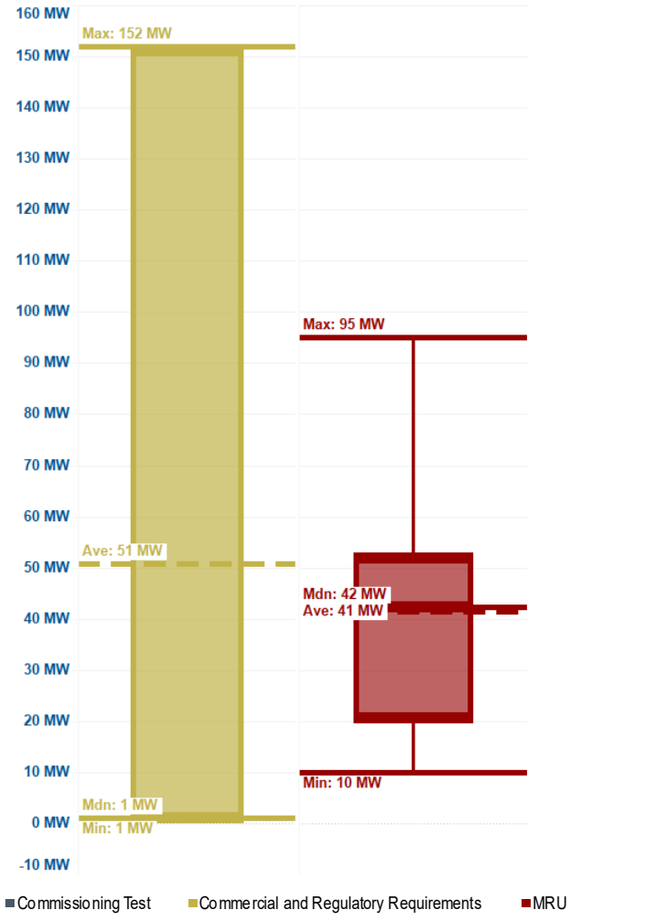
MINDANAO SCHEDULED CAPACITIES

26 April 2025 - 25 May 2025

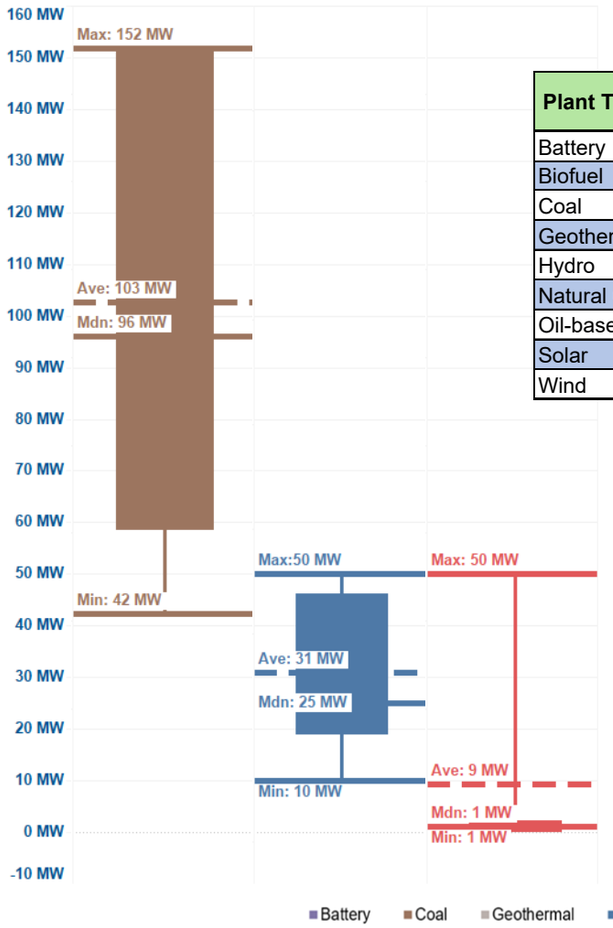
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	-	-	-	-
Commercial and Regulatory Requirements	51 MW	1 MW	1 MW	152 MW
MRU	41 MW	10 MW	42 MW	95 MW

By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	-	-	-	-
Biofuel	-	-	-	-
Coal	103 MW	42 MW	96 MW	152 MW
Geothermal	-	-	-	-
Hydro	31 MW	10 MW	25 MW	50 MW
Natural Gas	-	-	-	-
Oil-based	9 MW	1 MW	1 MW	50 MW
Solar	-	-	-	-
Wind	-	-	-	-

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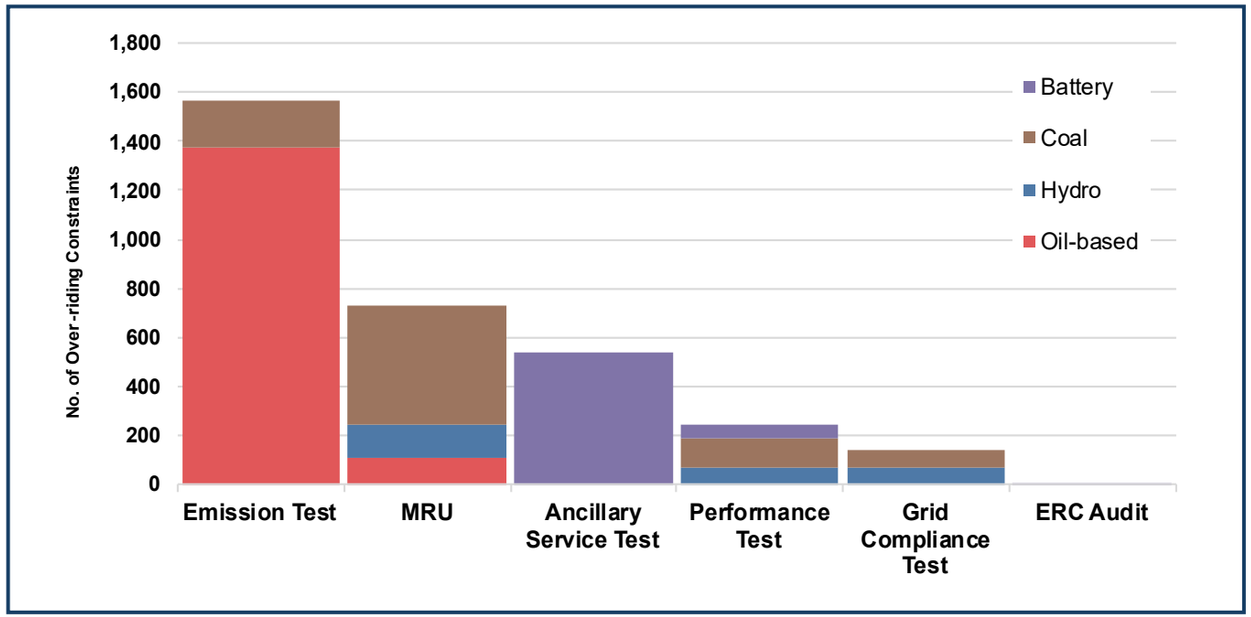
OVER-RIDING CONSTRAINTS EXCLUDING COMMISSIONING TESTS

Luzon, Visayas, Mindanao

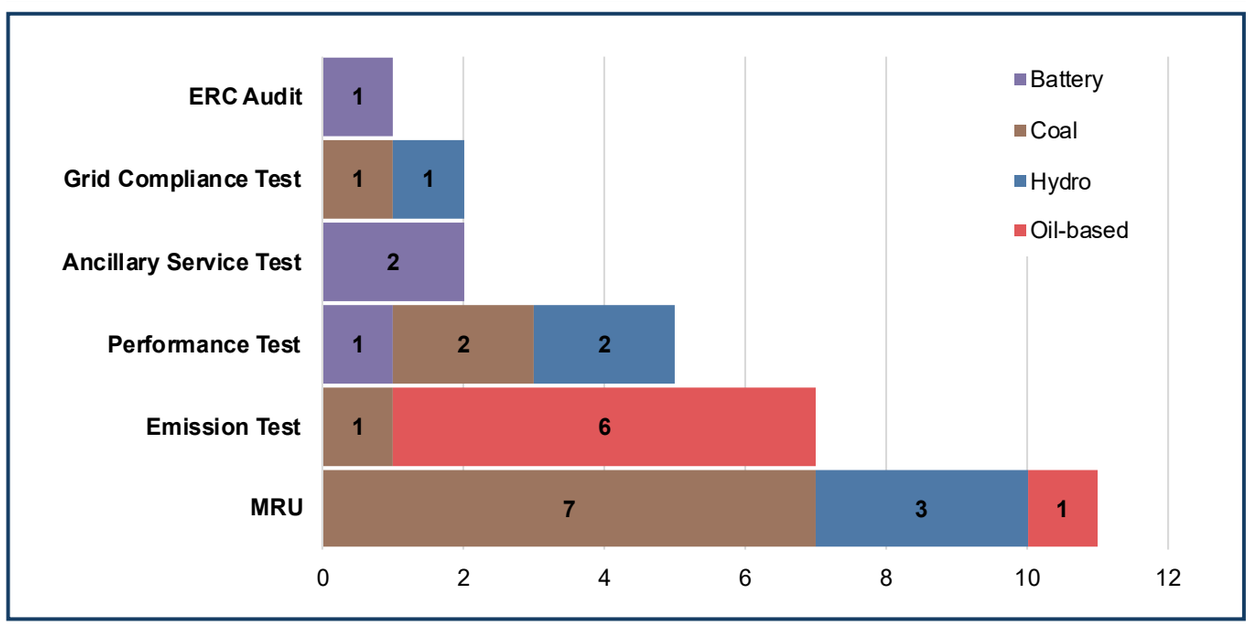
26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation



Over-riding Constraints By Incident

Reasons	No. of Over-riding Constraints
Emission Test	1,563
MRU	730
Ancillary Service Test	535
Performance Test	244
Grid Compliance Test	138
ERC Audit	2



Number of Plants By Incident

Reasons	No. of Plants
ERC Audit	1
Grid Compliance Test	2
Ancillary Service Test	2
Performance Test	5
Emission Test	7
MRU	11

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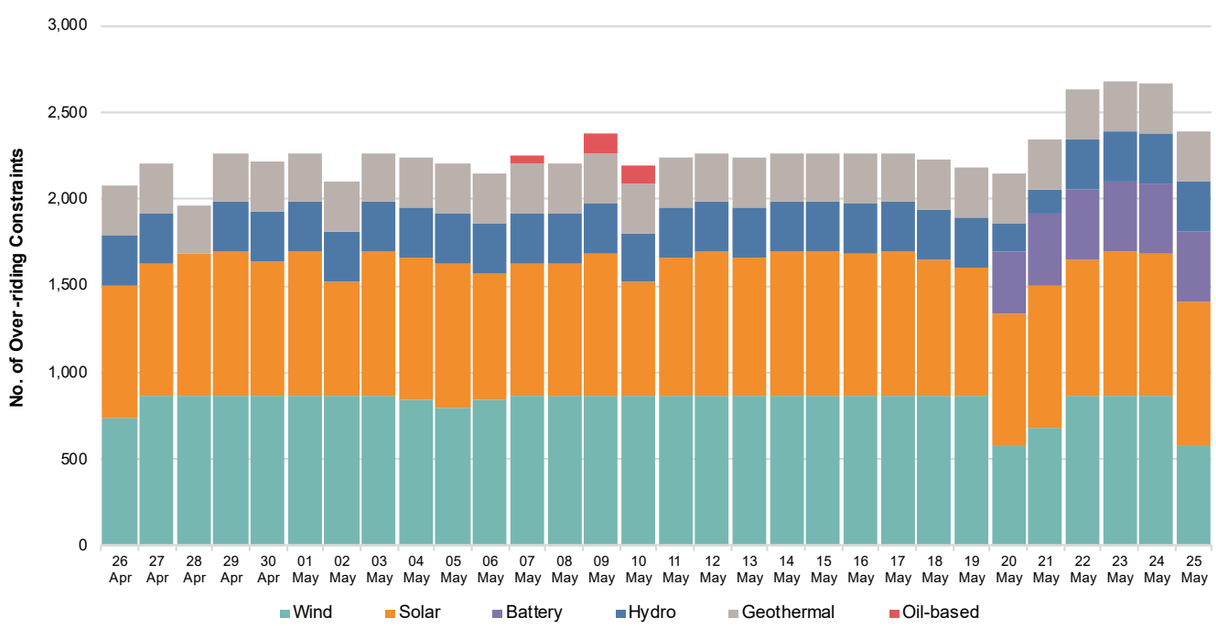
PLANTS UNDER COMMISSIONING TESTS

Luzon, Visayas, Mindanao

26 April 2025 - 25 May 2025

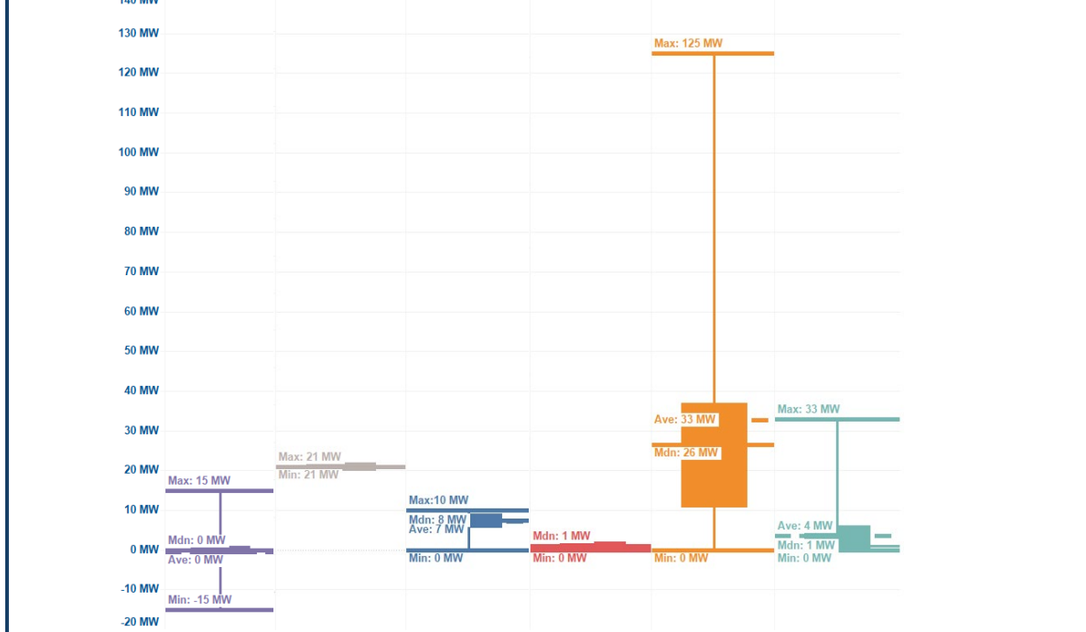
Philippine Electricity Market Corporation

Number of Over-riding Constraints
By Plant Type



Plant Type	No. of Over-riding Constraints
Wind	24,928
Solar	23,751
Battery	2,400
Hydro	8,073
Geothermal	8,640
Oil-based	275

Scheduled Capacities
By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	0 MW	-15 MW	0 MW	15 MW
Biofuel	-	-	-	-
Coal	-	-	-	-
Geothermal	21 MW	21 MW	21 MW	21 MW
Hydro	7 MW	0 MW	8 MW	10 MW
Natural Gas	-	-	-	-
Oil-based	1 MW	0 MW	1 MW	1 MW
Solar	33 MW	0 MW	26 MW	125 MW
Wind	4 MW	0 MW	1 MW	33 MW

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 April 2025 - 25 May 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
23.776 MWP Bongabon Solar Power Project	Solar	18.8
Alaminos Battery Energy Storage System 2	Battery	20
63.961 MWp Cordon Solar Power Project	Solar	52.8
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2
Samal Solar Power Project Phase 1	Solar	35.8
32.423 MW Magat Battery Energy Storage System	Battery	24
Calaca Coal-Fired Thermal Power Plant 2	Coal	300
Pagbilao 3 Power Plant	Coal	420
Casecnan Hydroelectric Power Plant Unit 1	Hydro	79.1
62.954 MW Concepcion Battery Energy Storage System (BESS)	Battery	50
Mariveles Coal Fired Thermal Power Plant Unit 1	Coal	316
Pantabangan Hydro Electric Power Plant Unit 1	Hydro	60
54.62 MW PPGC Diesel Power Plant	Oil-Based	48
Bac-Man Energy Storage System	Battery	28.5
57.125 MWh Lumban Battery Energy Storage System (BESS)	Battery	50
VISAYAS		
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2
168.953 MWP / 137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4
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
251.1MW Circulating Fluidized Bed Coal-Fired Thermal Power Plant Unit 3	Coal	83.1
Sangi Coal Fired Power Plant	Coal	83.6
PEDC Coal-Fired Thermal Power Plant Unit 1	Coal	83.7

***As of 25 May 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
VISAYAS		
PEDC Coal-Fired Thermal Power Plant Unit 2	Coal	83.7
150.025 MW Unit 3 Circulating Fluidized Bed (CFB) Coal Fired Thermal Power Plant	Coal	150
251.1MW Circulating Fluidized Bed Coal-Fired Thermal Power Plant Unit 1	Coal	83.2
251.1MW Circulating Fluidized Bed Coal-Fired Thermal Power Plant Unit 2	Coal	83.4
Circulating Fluidized Bed Coal-Fired Power Plant Unit 1	Coal	169
Circulating Fluidized Bed Coal-Fired Power Plant Unit 2	Coal	169
14.535 MWh Southern Negros Battery Energy Storage System	Battery	14.2
Bohol Diesel Power Plant Unit 1	Oil-Based	4
Bohol Diesel Power Plant Unit 2	Oil-Based	4
Bohol Diesel Power Plant Unit 3	Oil-Based	4.2
Bohol Diesel Power Plant Unit 4	Oil-Based	4
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 104 Unit 4	Oil-Based	8
135.000 MW Circulating Fluidized Bed (CFB) Coal-Fired Power Plant (CFPP)	Coal	135
Panay Diesel Power Plant 1 (Unit 2)	Oil-Based	5
Panay Diesel Power Plant 1 (Unit 3)	Oil-Based	5
Panay Diesel Power Plant 1 (Unit 5)	Oil-Based	5
Panay Diesel Power Plant 3 (Unit Charlie)	Oil-Based	12
Panay Diesel Power Plant 3 (Unit Echo)	Oil-Based	12
Panay Diesel Power Plant 3 (Unit Golf)	Oil-Based	13
Panay Diesel Power Plant 3 (Unit Hotel)	Oil-Based	13
MINDANAO		
255 MW Pulangi IV Hydroelectric Power Plant Unit 1	Hydro	75
255 MW Pulangi IV Hydroelectric Power Plant Unit 2	Hydro	75

***As of 25 May 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
MINDANAO		
255 MW Pulangi IV Hydroelectric Power Plant Unit 3	Hydro	75
TSI Coal Fired-Power Plant Unit 1	Coal	151.4
TSI Coal Fired-Power Plant Unit 2	Coal	150
118.501 MW Phase 1 Coal-Fired Thermal Power Plant	Coal	122
118.50 MW Phase 2 Coal-Fired Power Plant	Coal	122
Agus IV Hydroelectric Power Plant Unit 1	Hydro	52.7
Agus IV Hydroelectric Power Plant Unit 2	Hydro	52.7
Agus V Hydroelectric Power Plant Unit 1	Hydro	27.5
Agus V Hydroelectric Power Plant Unit 2	Hydro	27.5
Agus VI Hydroelectric Power Plant Unit 5	Hydro	43.8
GNPK's Coal Fired Power Plant Unit 1	Coal	151.9
GNPK's Coal Fired Power Plant Unit 2	Coal	151
100.327 MW Mobile 2 Bunker C-Fired Power Plant Unit 1	Oil-Based	50
18.040 MW Digos Modular Diesel Power Plant (Digos MDPP)	Oil-Based	16.9

***As of 25 May 2025**

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ANNEX B PLANTS UNDER COMMISSIONING TEST

26 April 2025 - 25 May 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity	No. of PCATC Extensions	No. of Days under Commissioning Tests
80.000 MW Balaoi and Caunayan Wind Power Project Phase 1	Wind	80	24	813
Caparispisan II Wind Power Project	Wind	50	13	446
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2	12	415
23.776 MWP Bongabon Solar Power Project	Solar	18.8	4	177
Concepcion 1 Solar Power Project	Solar	76	7	246
63.961 MWp Cordon Solar Power Project	Solar	52.8	2	108
Samal Solar Power Project Phase 1	Solar	35.8	1	67
168.953 MWP / 137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4	4	165
Bac-Man Energy Storage System	Battery	28.5	1	84
14.535 MWh Southern Negros Battery Energy Storage System	Battery	14.2	1	30
14.160MW Upper Taft Hydroelectric Power Plant	Run-of River Hydro	14.2	7	258
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2	3	124
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57	1	87

*** 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 April 2025 - 25 May 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity	No. of PCATC Extensions	No. of Days under Commissioning Tests
45.758 MWh Gamu Battery Energy Storage System (BESS)	Battery	40	11	372
Batangas Combined Cycle Power Plant Unit 3	Natural gas	440	6	217
72.128 MWp Subic New PV Power Plant Project	Solar	61.6	11	398

***As of 25 May 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.