MONTHLY MONITORING OF OVER-RIDING CONSTRAINTS STATISTICS

APRIL 2025

(26 March to 25 April 2025)

Document Information Classification: Public

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.

PUBLIC

AT A GLANCE

26 March 2025 - 25 April 2025

Total Over-riding Constraints Imposition **89,898** | ▲ **2.51 %** increase from previous billing period

LUZON
58,325

- 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 plants

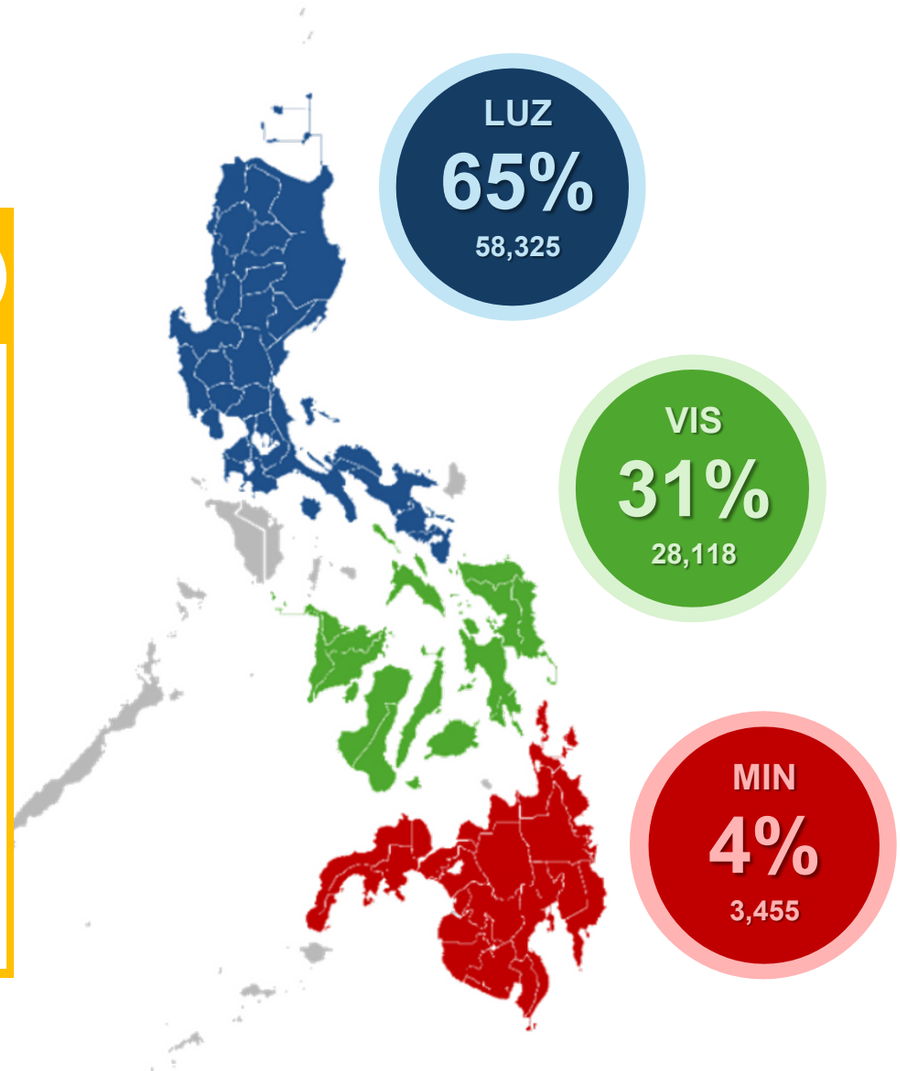
VISAYAS
28,118

- Hydro plants had the highest no. of OC
- Coal plants, on average, had the largest capacities scheduled due to Ancillary Service Test and Dispatch of MRU
- Most OC were due to commissioning test of Hydro plants

MINDANAO
3,455

- Oil-based plants had the highest no. of OC
- Coal plants, on average, had the largest capacities scheduled due to Emission, Ancillary Service Tests, and Dispatch of MRU
- Most OC were due to Dispatch of MRU for oil-based plants

OC – Over-riding Constraints



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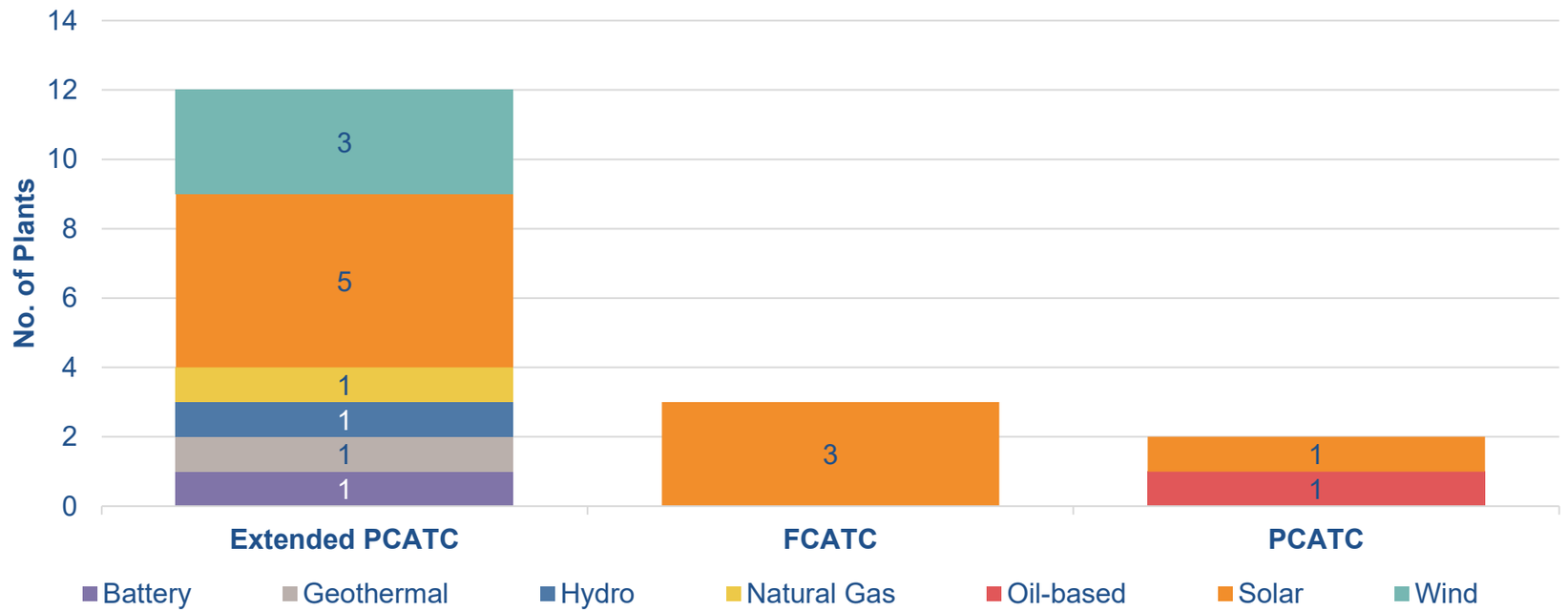
STATUS OF PLANTS UNDER COMMISSIONING TEST

26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation

No. of Plants Under Commissioning Test

17



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

Noted no. of extensions for commissioning test period

BESS	GEO	HYDRO	NAT GAS	OIL	SOLAR	WIND
372	94	228	217	48	160	528
11 – Gamu BESS	2 – Tanawon GPP	6 – Upper Taft HEPP	6 – Batangas CCPP Unit 3	1 – Bohol In-Island DPP	11 - Subic New SPP 6 - Concepcion 1 SPP 4 - Raslag IV Solar 3 - Bongabon Solar, Calatrava Solar, Dagohoy Solar 2 - San Jose Solar, Cordon Solar	23 – Balaoi Caunayan Wind 12 – Caparispisan Wind 11 – PWEI Nabas Wind

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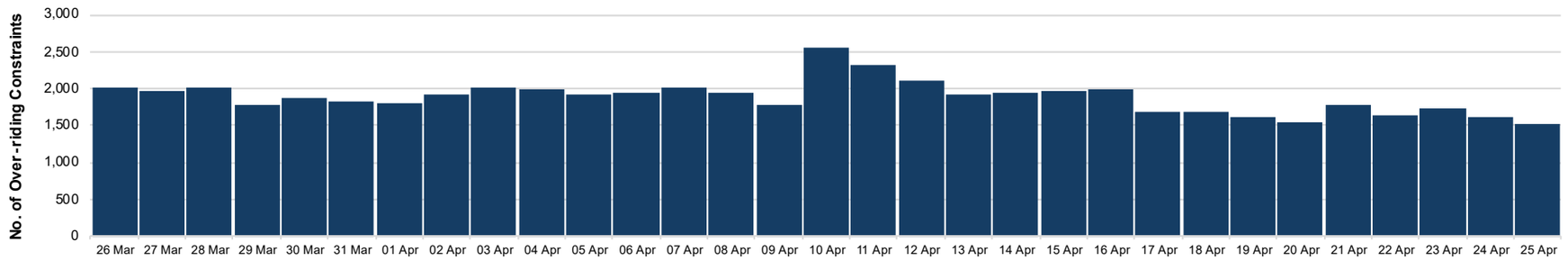
LUZON OVER-RIDING CONSTRAINTS

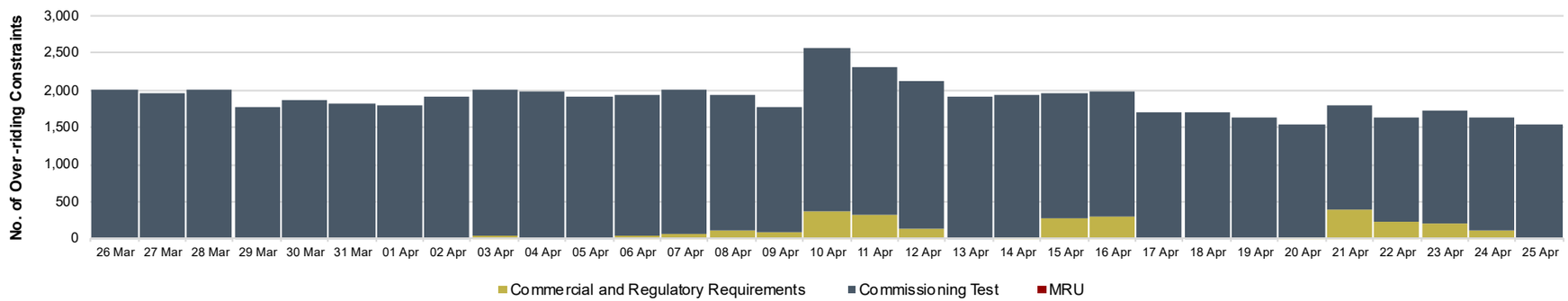
26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation



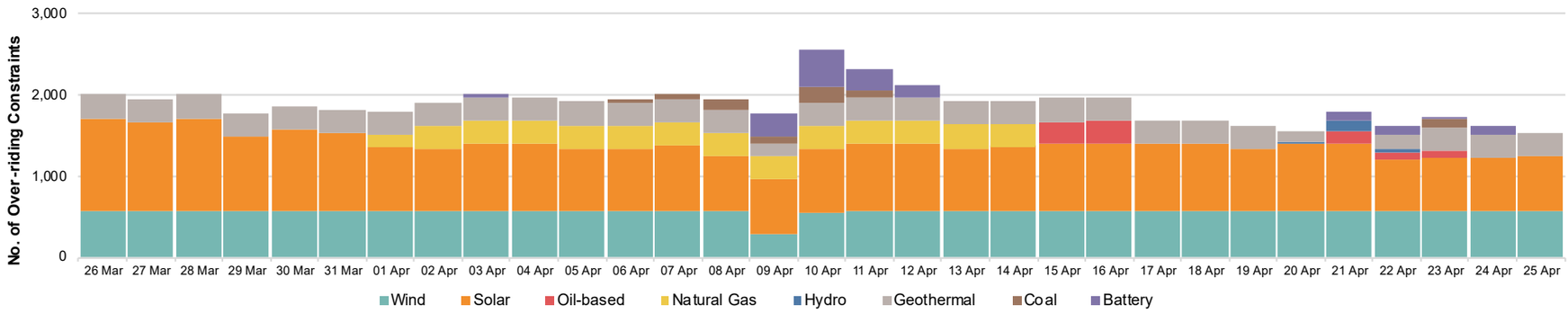
By Day

	No. of Over-riding Constraints	Date
Maximum	2,558	10-Apr
Average	1,881	
Minimum	1,529	25-Apr



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	55,628
Commercial and Regulatory Requirements	2,697
MRU	-



By Plant Type

Plant Type	No. of Over-riding Constraints
Solar	25,413
Wind	17,528
Geothermal	8,224
Natural Gas	3,887
Battery	1,506
Oil-based	890
Coal	696
Hydro	181

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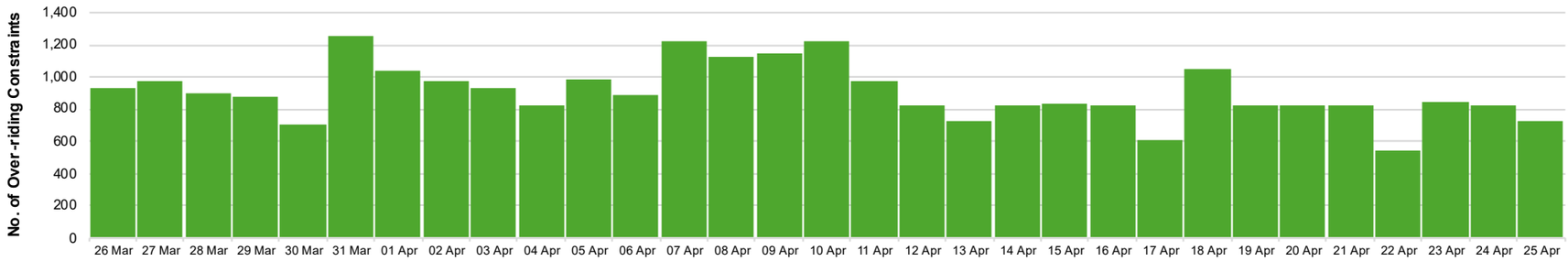
VISAYAS OVER-RIDING CONSTRAINTS

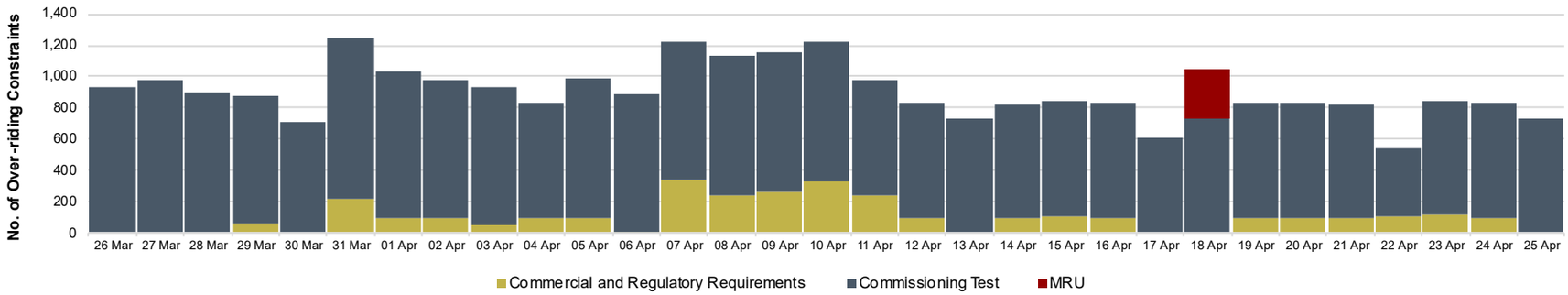
26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation



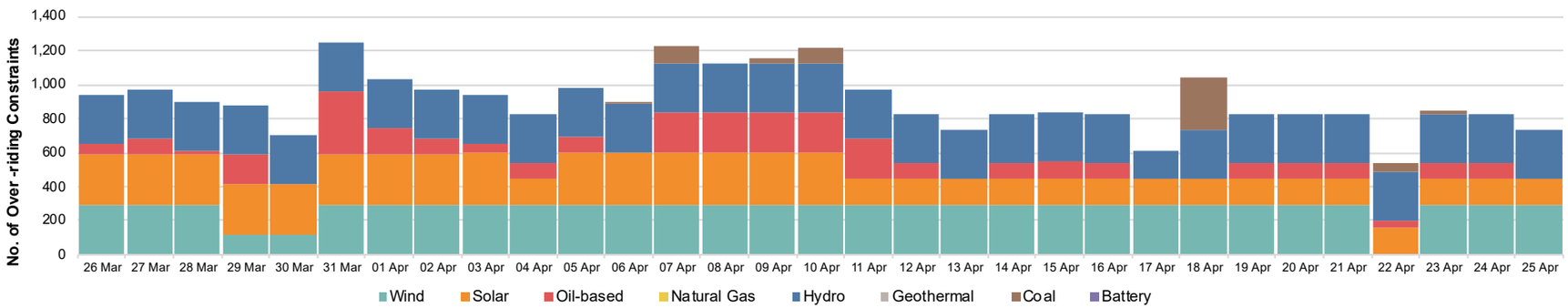
By Day

	No. of Over-riding Constraints	Date
Maximum	1,250	31-Mar
Average	907	
Minimum	543	22-Apr



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	24,675
Commercial and Regulatory Requirements	3,128
MRU	315



By Plant Type

Plant Type	No. of Over-riding Constraints
Hydro	8,800
Wind	8,295
Solar	7,070
Oil-based	3,341
Coal	612

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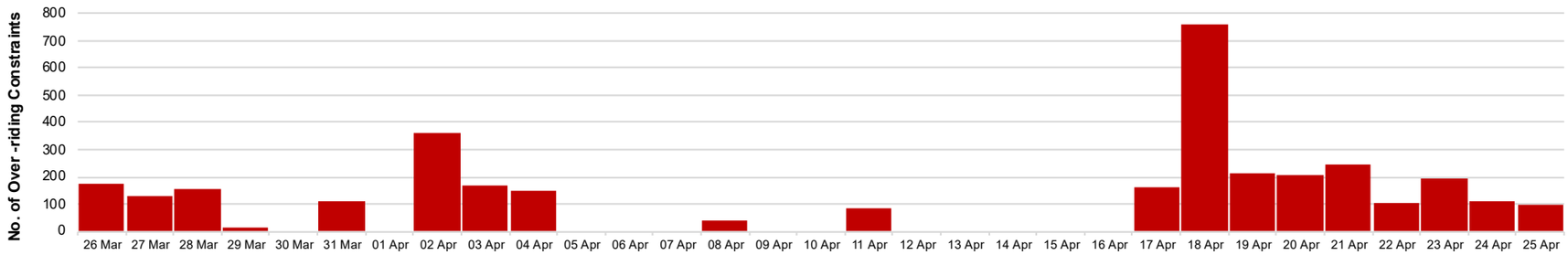
MINDANAO OVER-RIDING CONSTRAINTS

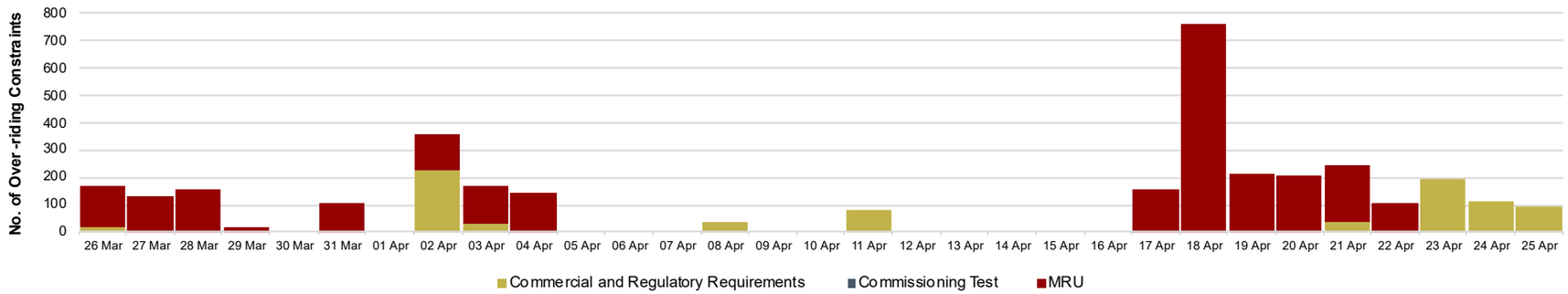
26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation



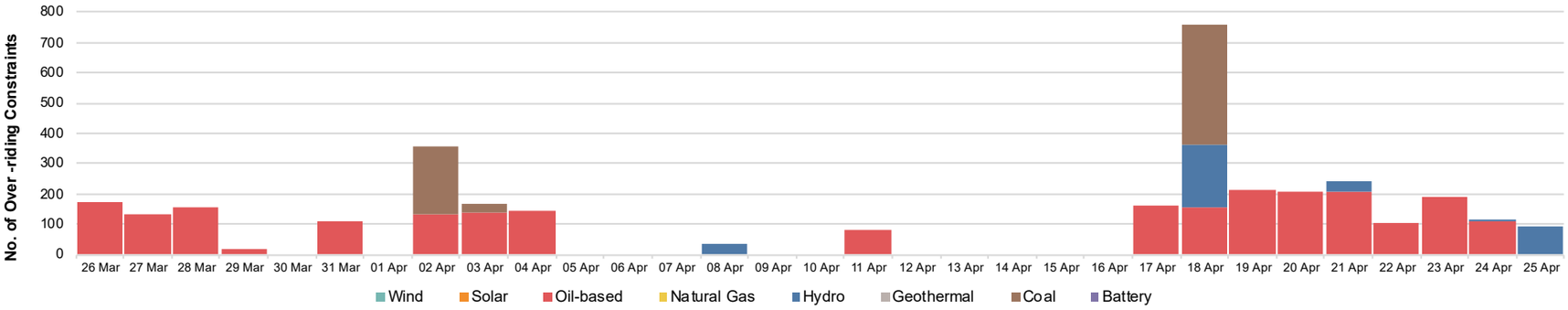
By Day

	No. of Over-riding Constraints	Date
Maximum	759	18-Apr
Average	182	
Minimum	16	29-Mar



By Incident

Incident	No. of Over-riding Constraints
Commissioning Test	-
Commercial and Regulatory Requirements	826
MRU	2,629



By Plant Type

Plant Type	No. of Over-riding Constraints
Oil-based	2,426
Coal	647
Hydro	382

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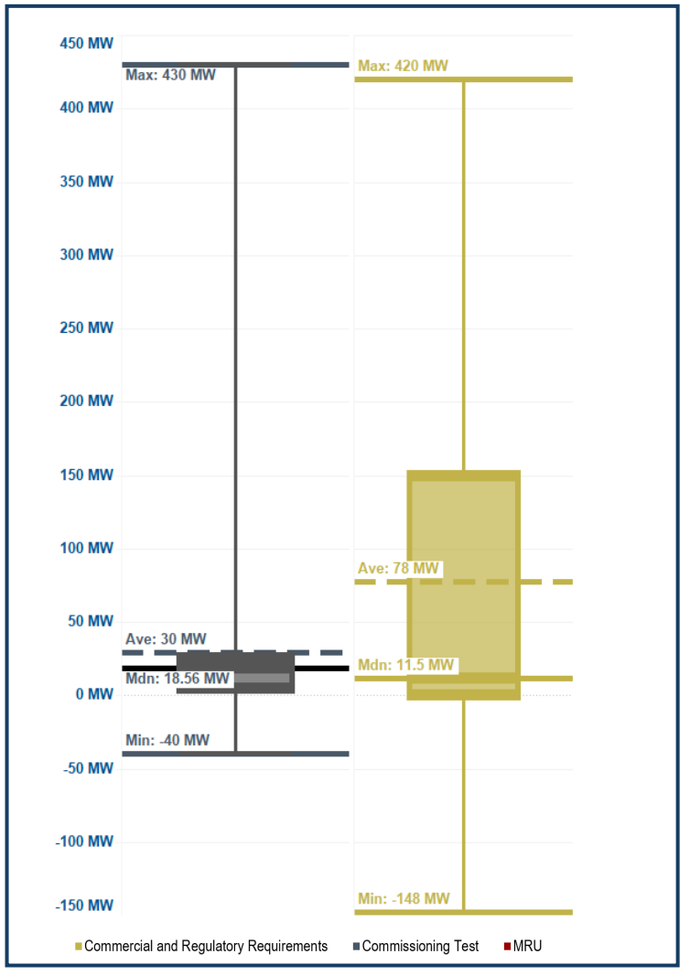
LUZON SCHEDULED CAPACITIES

26 March 2025 - 25 April 2025

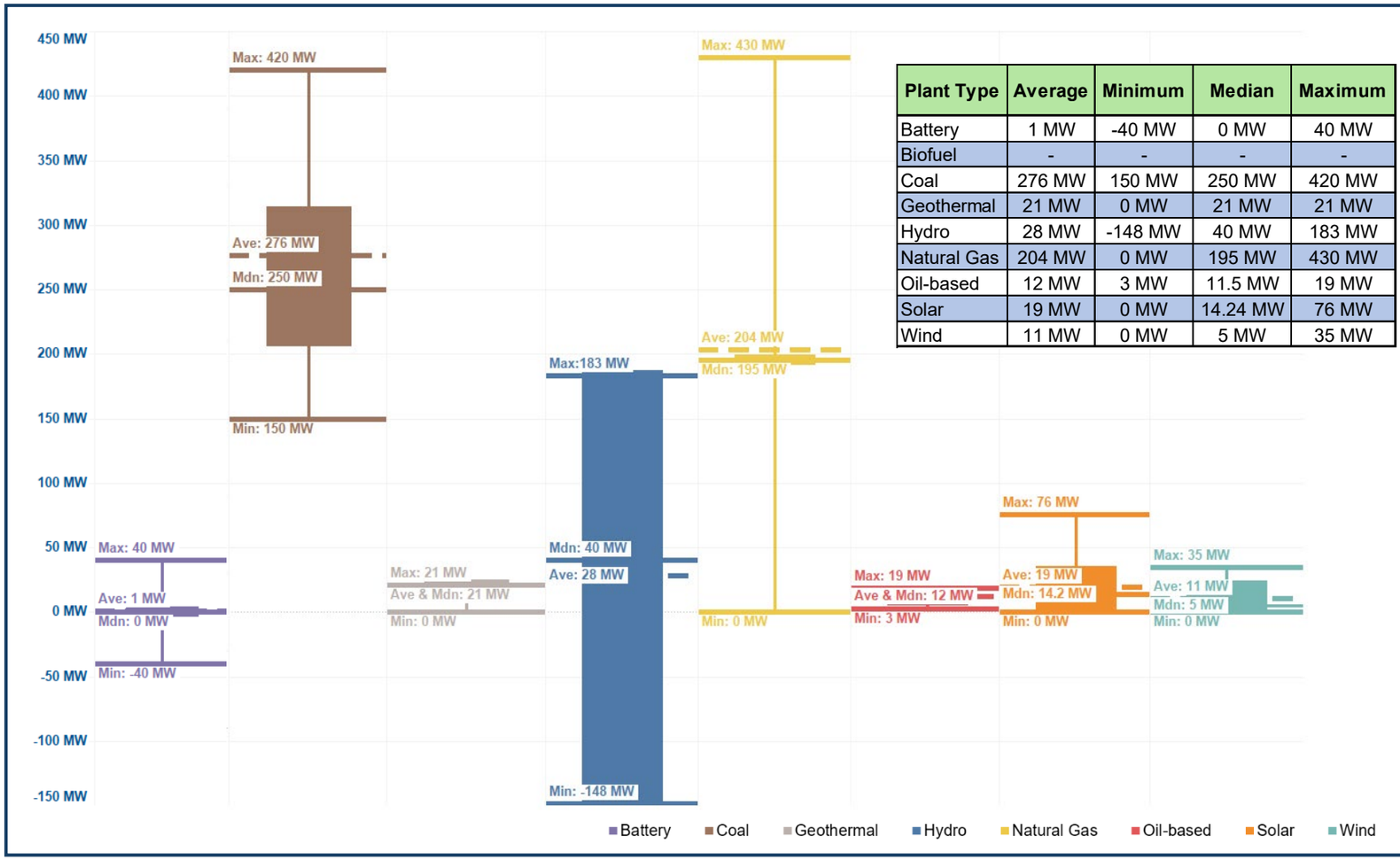
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	30 MW	-40 MW	18.555 MW	430 MW
Commercial and Regulatory Requirements	78 MW	-148 MW	11.5 MW	420 MW
MRU	-	-	-	-

By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	1 MW	-40 MW	0 MW	40 MW
Biofuel	-	-	-	-
Coal	276 MW	150 MW	250 MW	420 MW
Geothermal	21 MW	0 MW	21 MW	21 MW
Hydro	28 MW	-148 MW	40 MW	183 MW
Natural Gas	204 MW	0 MW	195 MW	430 MW
Oil-based	12 MW	3 MW	11.5 MW	19 MW
Solar	19 MW	0 MW	14.24 MW	76 MW
Wind	11 MW	0 MW	5 MW	35 MW

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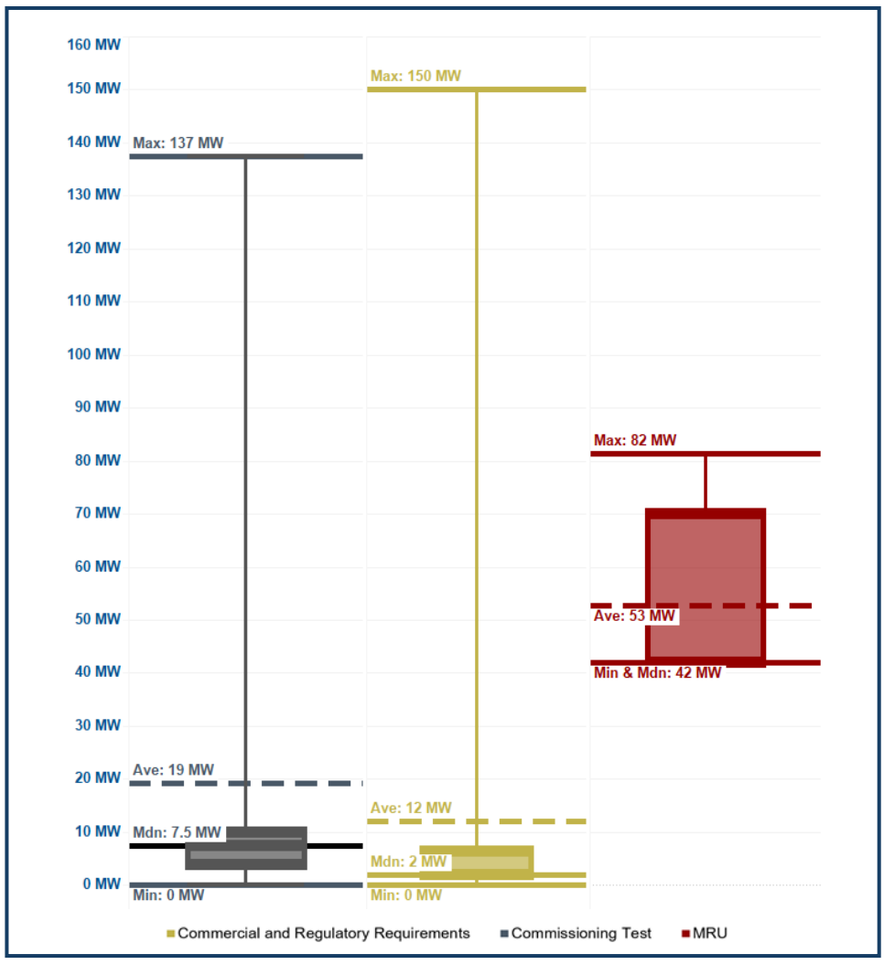
VISAYAS SCHEDULED CAPACITIES

26 March 2025 - 25 April 2025

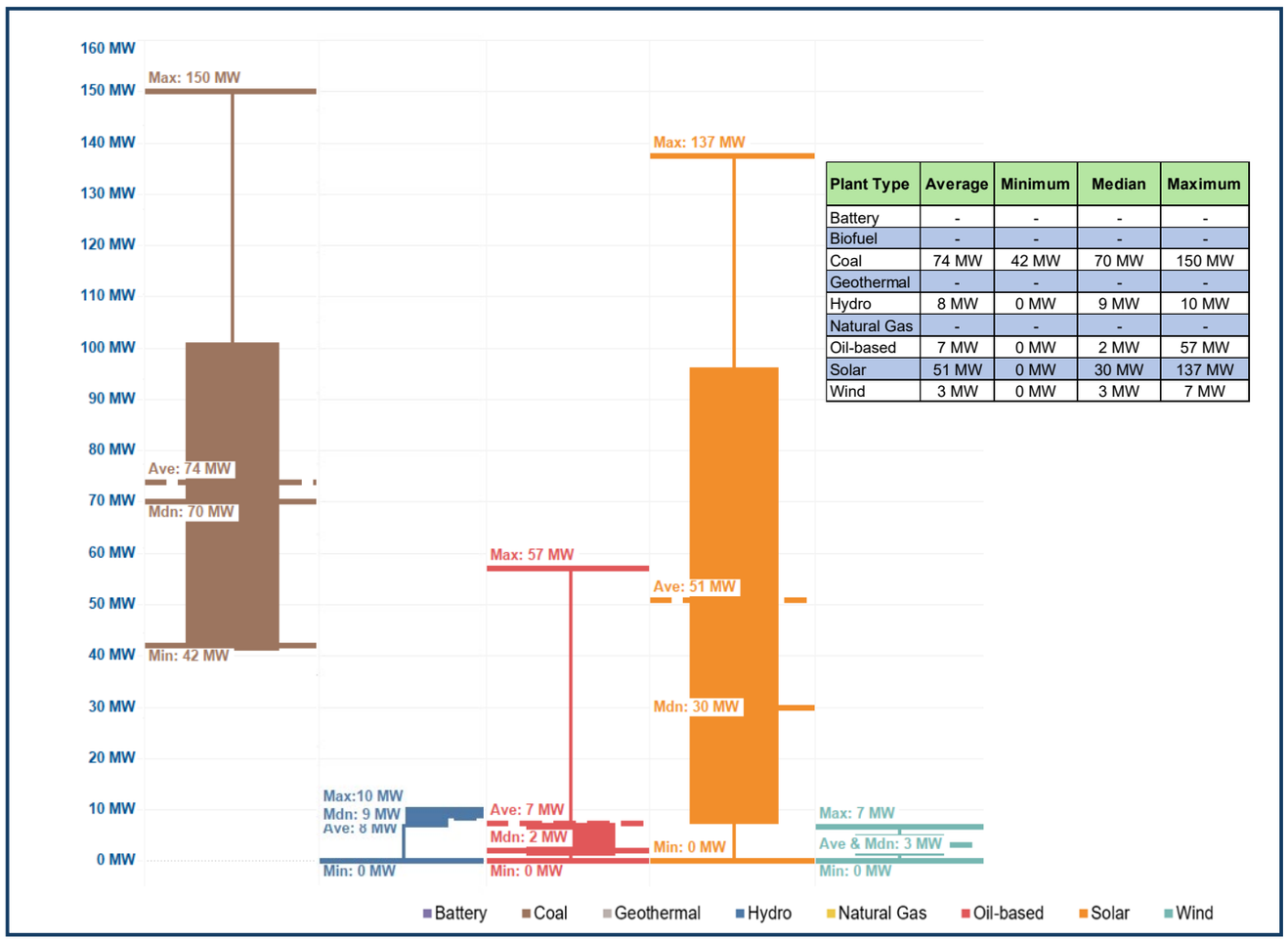
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	19 MW	0 MW	7.5 MW	137 MW
Commercial and Regulatory Requirements	12 MW	0 MW	2 MW	150 MW
MRU	53 MW	42 MW	42 MW	82 MW

By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	-	-	-	-
Biofuel	-	-	-	-
Coal	74 MW	42 MW	70 MW	150 MW
Geothermal	-	-	-	-
Hydro	8 MW	0 MW	9 MW	10 MW
Natural Gas	-	-	-	-
Oil-based	7 MW	0 MW	2 MW	57 MW
Solar	51 MW	0 MW	30 MW	137 MW
Wind	3 MW	0 MW	3 MW	7 MW

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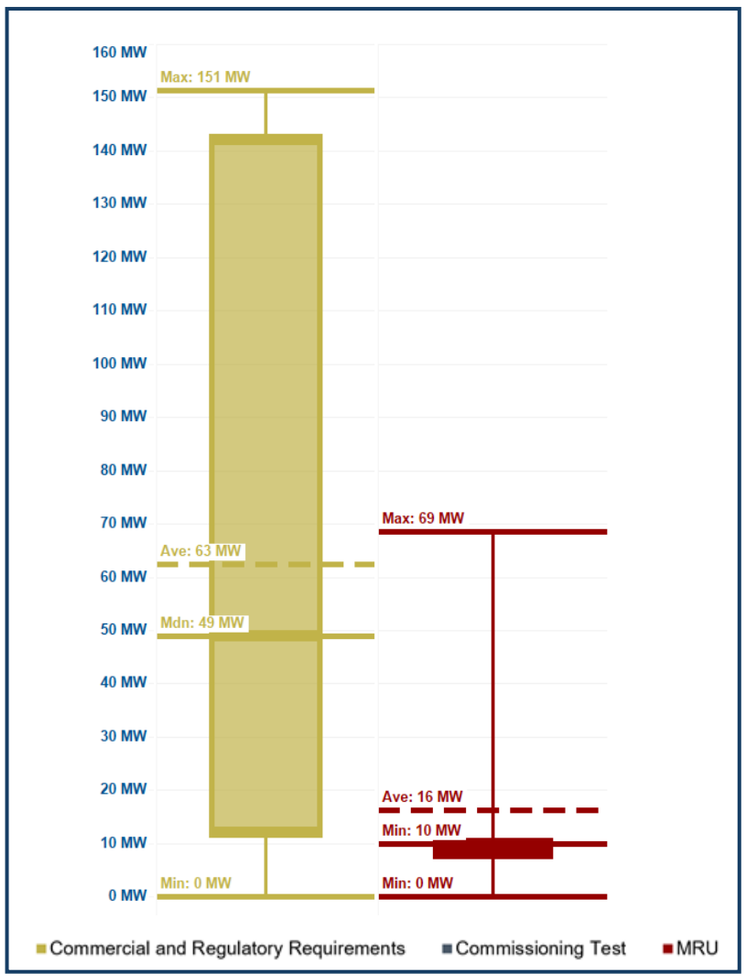
MINDANAO SCHEDULED CAPACITIES

26 March 2025 - 25 April 2025

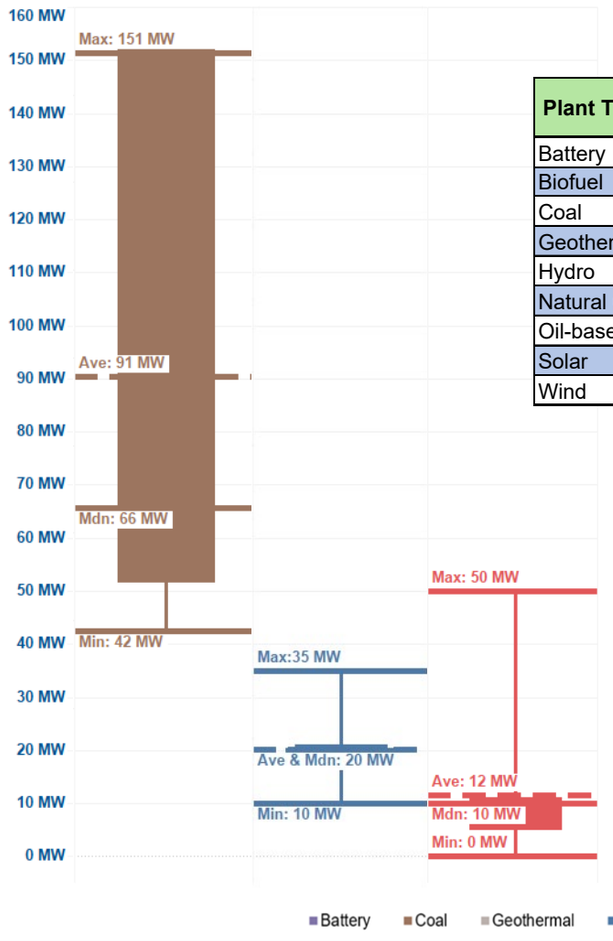
Philippine Electricity Market Corporation

By Incident



Incident	Average	Minimum	Median	Maximum
Commissioning Test	-	-	-	-
Commercial and Regulatory Requirements	63 MW	0 MW	49 MW	151 MW
MRU	16 MW	0 MW	10 MW	69 MW

By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	-	-	-	-
Biofuel	-	-	-	-
Coal	91 MW	42 MW	65.6 MW	151 MW
Geothermal	-	-	-	-
Hydro	20 MW	10 MW	20 MW	35 MW
Natural Gas	-	-	-	-
Oil-based	12 MW	0 MW	10 MW	50 MW
Solar	-	-	-	-
Wind	-	-	-	-

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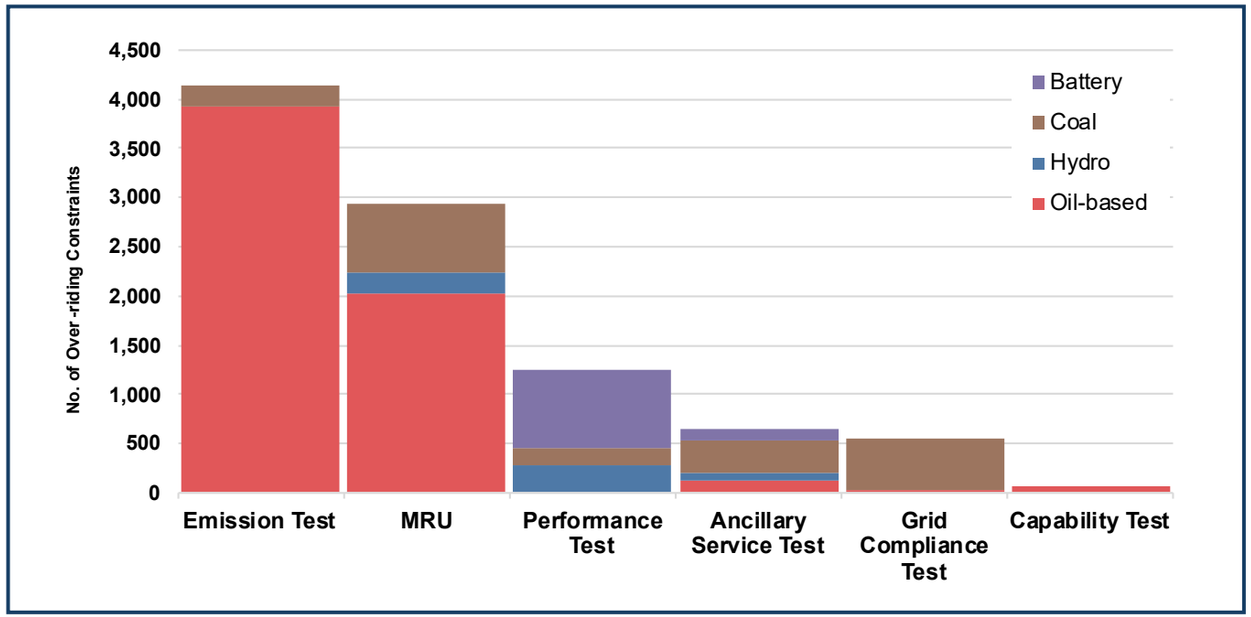
OVER-RIDING CONSTRAINTS EXCLUDING COMMISSIONING TESTS

Luzon, Visayas, Mindanao

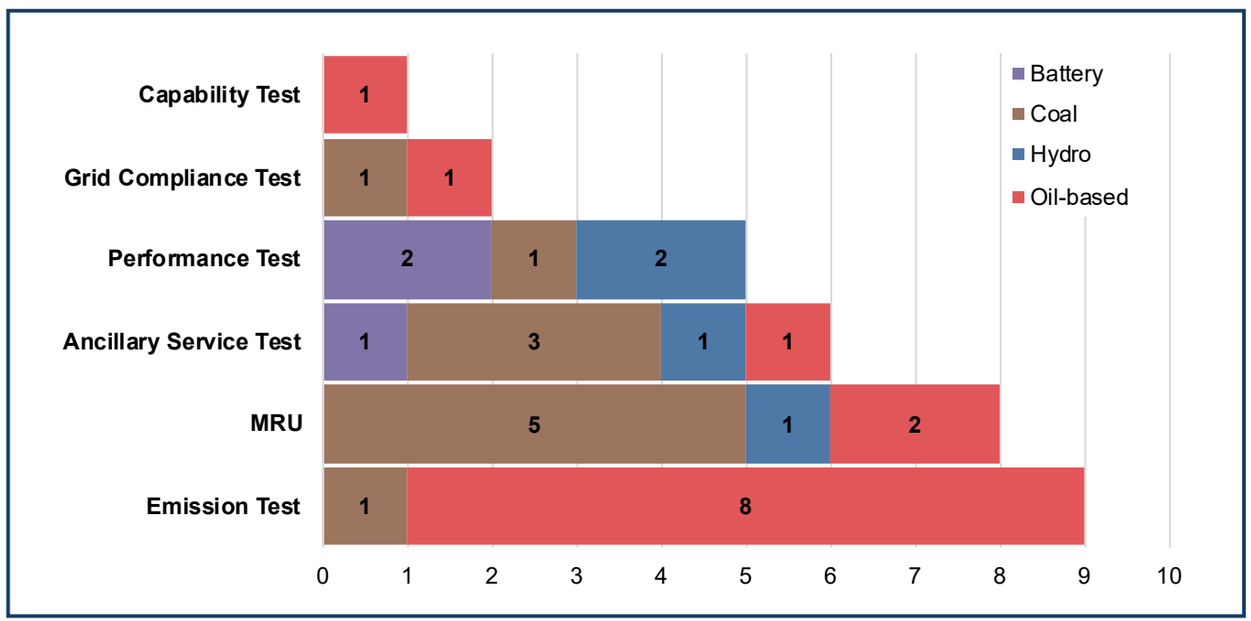
26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation



Over-riding Constraints By Incident

Reasons	No. of Over-riding Constraints
Emission Test	4,142
MRU	2,944
Performance Test	1,252
Ancillary Service Test	654
Grid Compliance Test	541
Capability Test	62



Number of Plants By Incident

Reasons	No. of Plants
Capability Test	1
Grid Compliance Test	2
Performance Test	5
Ancillary Service Test	6
MRU	8
Emission Test	9

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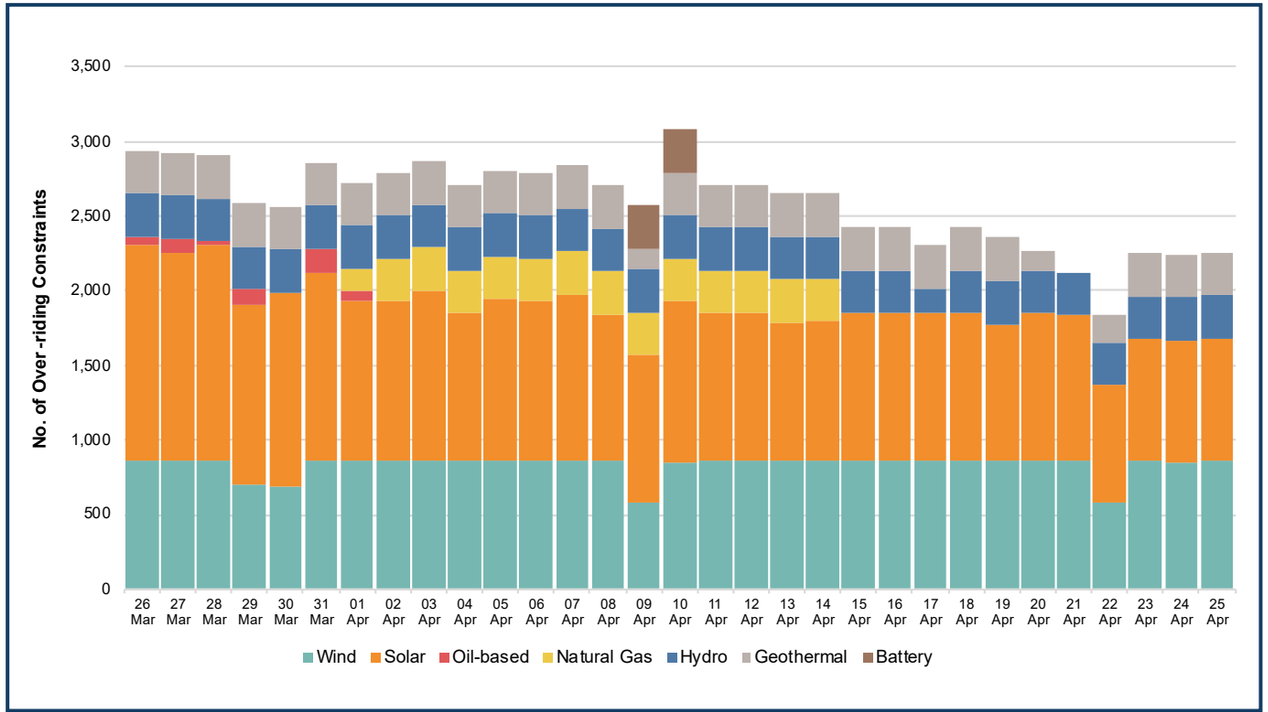
PLANTS UNDER COMMISSIONING TESTS

Luzon, Visayas, Mindanao

26 March 2025 - 25 April 2025

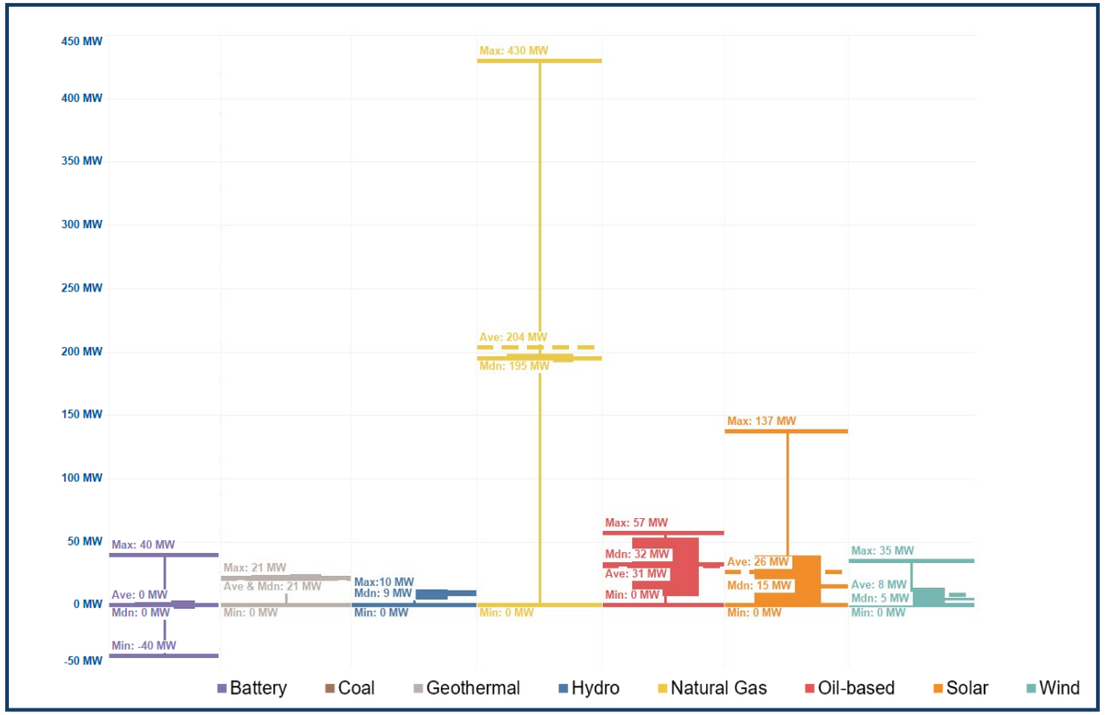
Philippine Electricity Market Corporation

Number of Over-riding Constraints
By Plant Type



Plant Type	No. of Over-riding Constraints
Solar	32,483
Wind	25,823
Hydro	8,800
Geothermal	8,224
Natural Gas	3,887
Battery	576
Oil-based	510

Scheduled Capacities
By Plant Type



Plant Type	Average	Minimum	Median	Maximum
Battery	0 MW	-40 MW	0 MW	40 MW
Biofuel	-	-	-	-
Coal	-	-	-	-
Geothermal	21 MW	0 MW	21 MW	21 MW
Hydro	8 MW	0 MW	9 MW	10 MW
Natural Gas	204 MW	0 MW	195 MW	430 MW
Oil-based	31 MW	0 MW	32 MW	57 MW
Solar	26 MW	0 MW	15 MW	137 MW
Wind	8 MW	0 MW	5 MW	35 MW

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 March 2025 - 25 April 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
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4
23.776 MWP Bongabon Solar Power Project	Solar	18.8
19.613 MWp San Jose Solar Power Plant (SPP)	Solar	15.3
Alaminos Battery Energy Storage System 2	Battery	20
Batangas Combined Cycle Power Plant Unit 3	Natural Gas	440
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
Samal Solar Power Project Phase 1	Solar	35.8
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
32.423 MW Magat Battery Energy Storage System	Battery	24
Batangas Coal-Fired Thermal Power Plant 1	Coal	240
Calaca Coal-Fired Thermal Power Plant 2	Coal	300
Pililla Diesel Power Plant Sector 1	Oil-based	28
Pililla Diesel Power Plant Sector 2	Oil-based	22
Pililla Diesel Power Plant Sector 3	Oil-based	22
Pililla Diesel Power Plant Sector 4	Oil-based	28
Pililla Diesel Power Plant Sector 5	Oil-based	22
Pililla Diesel Power Plant Sector 6	Oil-based	28
Kalayaan Hydro Electric Power Plant 2	Hydro	181

***As of 25 April 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
LUZON		
Kalayaan Hydro Electric Power Plant 3	Hydro	181.4
Pagbilao 3 Power Plant	Coal	420
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
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
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
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
251.1MW Circulating Fluidized Bed Coal-Fired Thermal Power Plant Unit 3	Coal	83.1
CPPC Bunker C-Fired Diesel Power Plant Unit 1	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 2	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 3	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 4	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 5	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 6	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 7	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 8	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 9	Oil-based	6.5
CPPC Bunker C-Fired Diesel Power Plant Unit 10	Oil-based	6.5
Sangi Coal Fired Power Plant	Coal	83.6

***As of 25 April 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
VISAYAS		
Unit 1 Calumangan Bunker C-Fired Diesel Power Plant	Oil-based	4.5
Unit 2 Calumangan Bunker C-Fired Diesel Power Plant	Oil-based	4.5
Unit 3 Calumangan Bunker C-Fired Diesel Power Plant	Oil-based	4.5
Unit 4 Calumangan Bunker C-Fired Diesel Power Plant	Oil-based	6.7
Unit 5 Calumangan Diesel Power Plant	Oil-based	6.7
PEDC Coal-Fired Thermal Power Plant Unit 1	Coal	83.7
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
Power Barge 101- Unit 1	Oil-based	6
Power Barge 101- Unit 2	Oil-based	6
MINDANAO		
112 MW Bunker-C Fired Diesel Power Plant Unit 9	Oil-based	10.2
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
Agus I Hydroelectric Power Plant Unit 1	Hydro	35
Agus I Hydroelectric Power Plant Unit 2	Hydro	35
Agus VII Hydroelectric Power Plant Unit 2	Hydro	25.3
GNPK's Coal Fired Power Plant Unit 3	Coal	151.3
GNPK's Coal Fired Power Plant Unit 4	Coal	151
7.841 MW Bukidnon Bunker C-Fired Diesel Power Plant 2	Oil-based	7.5
255 MW Pulangi IV Hydroelectric Power Plant Unit 1	Hydro	75
255 MW Pulangi IV Hydroelectric Power Plant Unit 2	Hydro	75
255 MW Pulangi IV Hydroelectric Power Plant Unit 3	Hydro	75
232 MW Mindanao Coal Fired Thermal Power Plant 1	Coal	105
232 MW Mindanao Coal Fired Thermal Power Plant 2	Coal	105
10.944 MW Diesel Power Plant	Oil-based	10.7

***As of 25 April 2025**

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ANNEX A PLANTS WITH OVER-RIDING CONSTRAINTS

26 March 2025 - 25 April 2025

Philippine Electricity Market Corporation

Plant/Unit Name	Plant Type	Registered Capacity(MW)
MINDANAO		
TSI Coal Fired-Power Plant Unit 1	Coal	151.4
TSI Coal Fired-Power Plant Unit 2	Coal	150
100.337 MW Mobile 1 Bunker C-Fired Power Plant Unit 1	Oil-based	49
100.337 MW Mobile 1 Bunker C-Fired Power Plant Unit 2	Oil-based	50
118.501 MW Phase 1 Coal-Fired Thermal Power Plant	Coal	122
118.50 MW Phase 2 Coal-Fired Power Plant	Coal	122

***As of 25 April 2025**

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ANNEX B PLANTS UNDER COMMISSIONING TEST

26 March 2025 - 25 April 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	23	783
Caparispisan II Wind Power Project	Wind	50	12	416
13.200 Nabas Wind Power Plant Phase 2 (Nabas-2)	Wind	13.2	11	386
Samal Solar Power Project Phase 1	Solar	35.8	-	37
72.128 MWp Subic New PV Power Plant Project	Solar	62.7	11	398
Concepcion 1 Solar Power Project	Solar	76	6	216
36.646 MWp RASLAG IV Solar Power Project	Solar	26.4	4	161
23.776 MWP Bongabon Solar Power Project	Solar	18.8	3	147
137.400 MWAC Calatrava Solar Power Project (SPP)	Solar	137.4	3	135
27.121 MWp Dagohoy Solar Power Project	Solar	20.2	3	149
19.613 MWp San Jose Solar Power Plant (SPP)	Solar	15.3	2	122
63.961 MWp Cordon Solar Power Project	Solar	52.8	1	78
45.758 MWh Gamu Battery Energy Storage System (BESS)	Battery	40	11	372
14.160MW Upper Taft Hydroelectric Power Plant	Run-of River Hydro	14.2	6	228
Batangas Combined Cycle Power Plant Unit 3	Natural Gas	440	6	217
21.573 MW Tanawon Geothermal Power Plant	Geothermal	20.2	2	94
60.702 MW Bohol In-Island Diesel Power Plant	Oil-based	57	1	48

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

Philippine Electricity Market Corporation

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	50	9	281
35.700 MW Palayan Binary Power Plant	Geothermal	31	12	455
17MW Tiwi Geothermal Binary Power Plant	Geothermal	16.7	9	294

***As of 25 April 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.