

MARKET ASSESSMENT HIGHLIGHTS
Demand, Supply, and Price

- The average weekly GWAP significantly increased by 69.85% in the Luzon region due to the planned outage of the Luzon-Visayas HVDC from 23 to 25 May and increased plant outages starting 24 May. Likewise, average weekly GWAP increased by 9.23% in the Visayas region but declined by 5.95% in the Mindanao region.
- The average weekly demand increased across all regions.
- The average weekly capacity on outage increased in the Luzon and Mindanao regions, while it decreased in the Visayas region.
- Exports from Visayas to Luzon occurred 57.44% of the time, while the flow from Mindanao to Visayas was observed 99.85% of the time.
- Pivotal suppliers were present 89.14% of the time.
- Reserve schedule capacity in the Luzon region met the reserve requirements only 98.12%, 97.82%, and 99.16% of the time for Upward Regulation, Downward Regulation, and Contingency Reserve, respectively.

Energy Offer Pattern Analysis
Luzon

- Coal plants showed a dip in offered capacity on 22 May due to commercial testing, and on 24 and 25 May due to outages and commercial testing.
- Natural Gas and Hydro plants experienced decrease in offered capacities due to outages on 23 and 24 May, respectively.
- Battery Storage System recorded decreases in offered capacities on 22, 23, and 24 May due to commercial testing, an outage, and reduced offered capacity, respectively.

Visayas

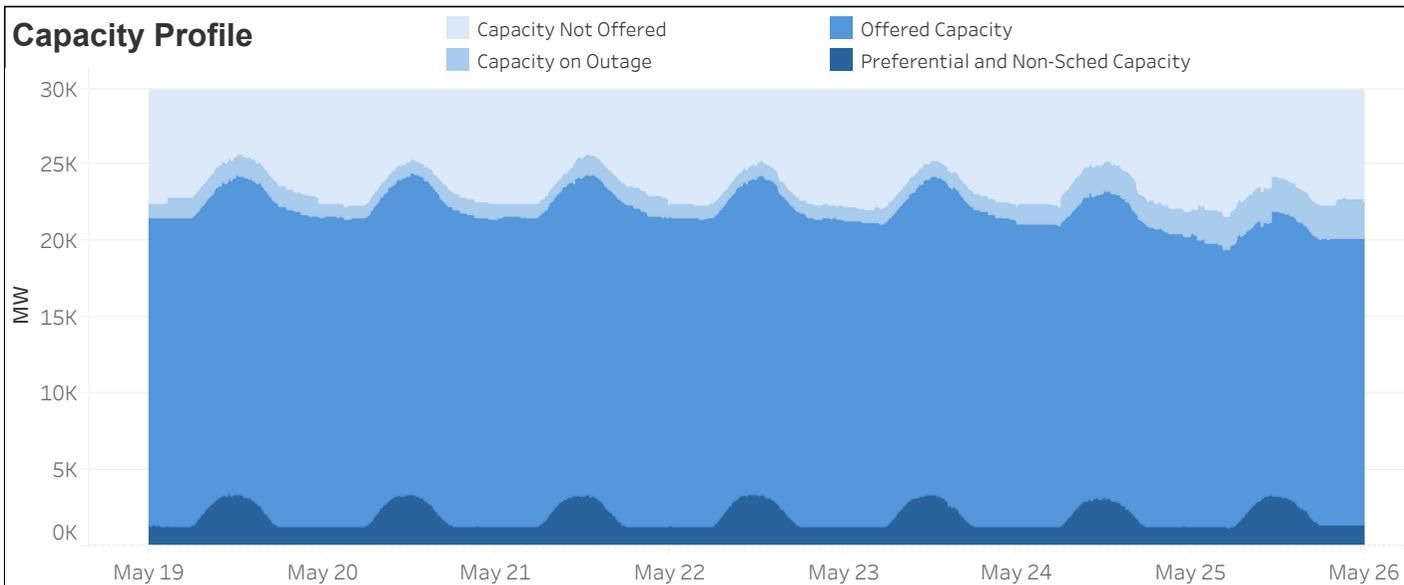
- Coal plants showed decrease in offered capacities on 20 May due to outages.
- Hydro plants have experienced variations in nominated capacities throughout the week due to resource constraints and outages.
- Oil plants recorded decreases in offered capacities from 19 to 22 May due to emission testing, and from 22 to 24 May due to outages.
- Solar and Wind plants' lowest daily peak nominations were observed on 24 May.
- Biofuel plants recorded dips in nominated capacities on 19 and 25 May due to an outage and resource constraint, respectively.

Mindanao

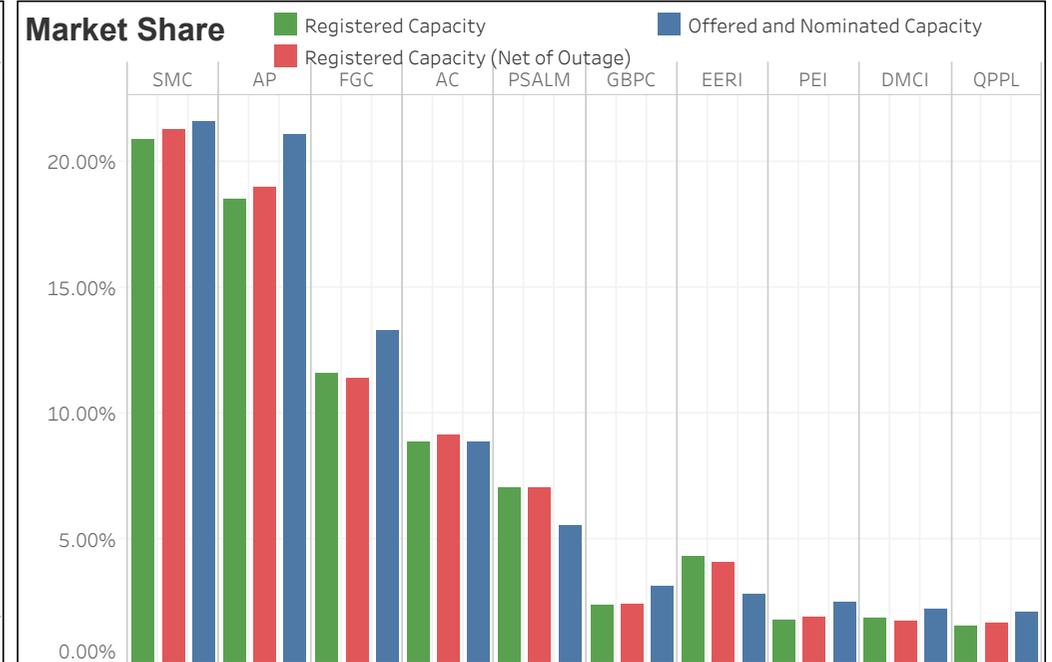
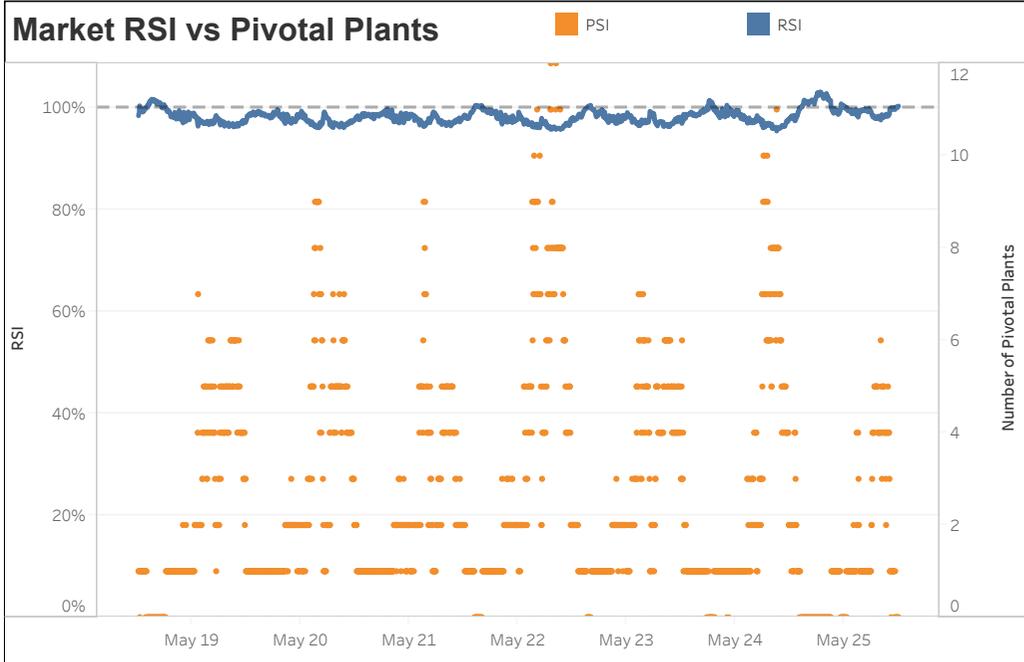
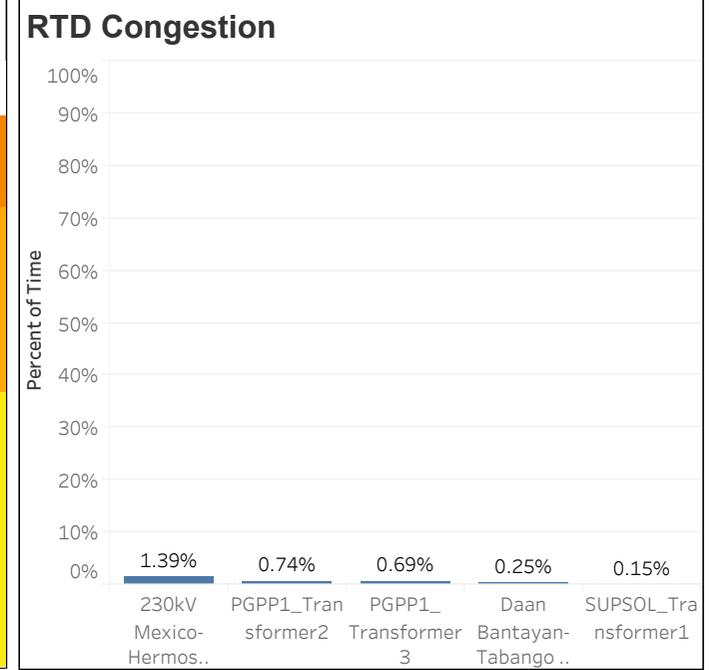
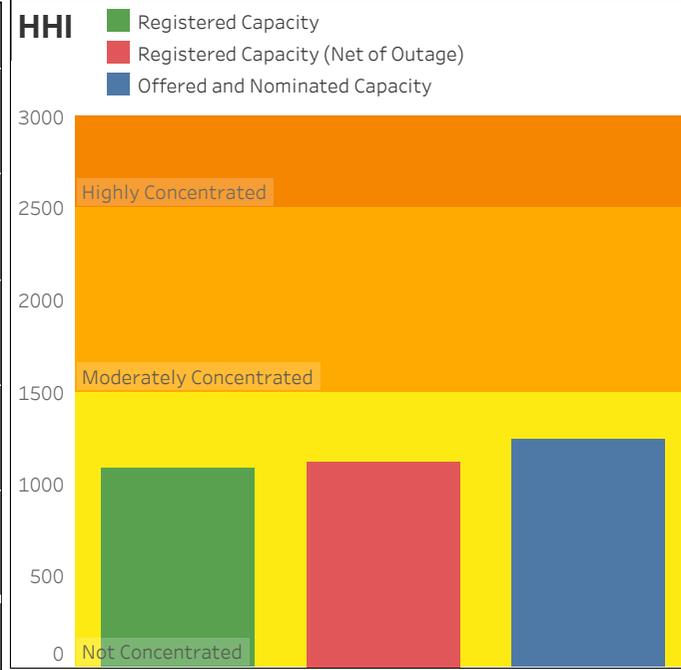
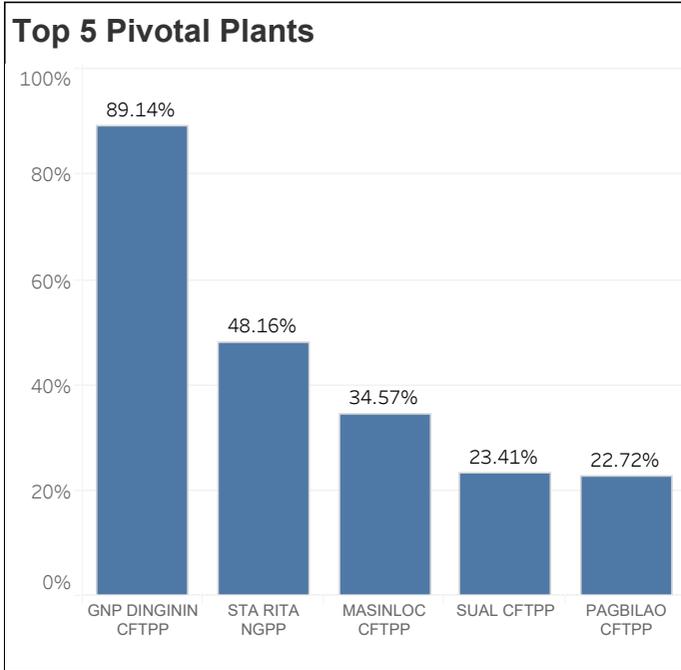
- Coal plants showed decrease in offered capacities from 20 to 21 May due to outages.
- Hydro plants recorded a decrease in offered capacities on 19 May due to outages, and grid compliance testing and a dip on 25 May due to reduced offered capacity.
- Oil plants experienced decreases in offered capacities on 20 May due to an outage, from 22 to 24 May due to emission testing, and on 25 May due to a transmission line reaching its thermal limit.
- Solar plants' lowest daily peak nominations were observed on 21 May.
- Battery Storage System recorded dip in offered capacities due to an outage on 23 May.
- Biofuel plants experienced fluctuations in nominated capacities throughout the week due to outages and resource constraints.

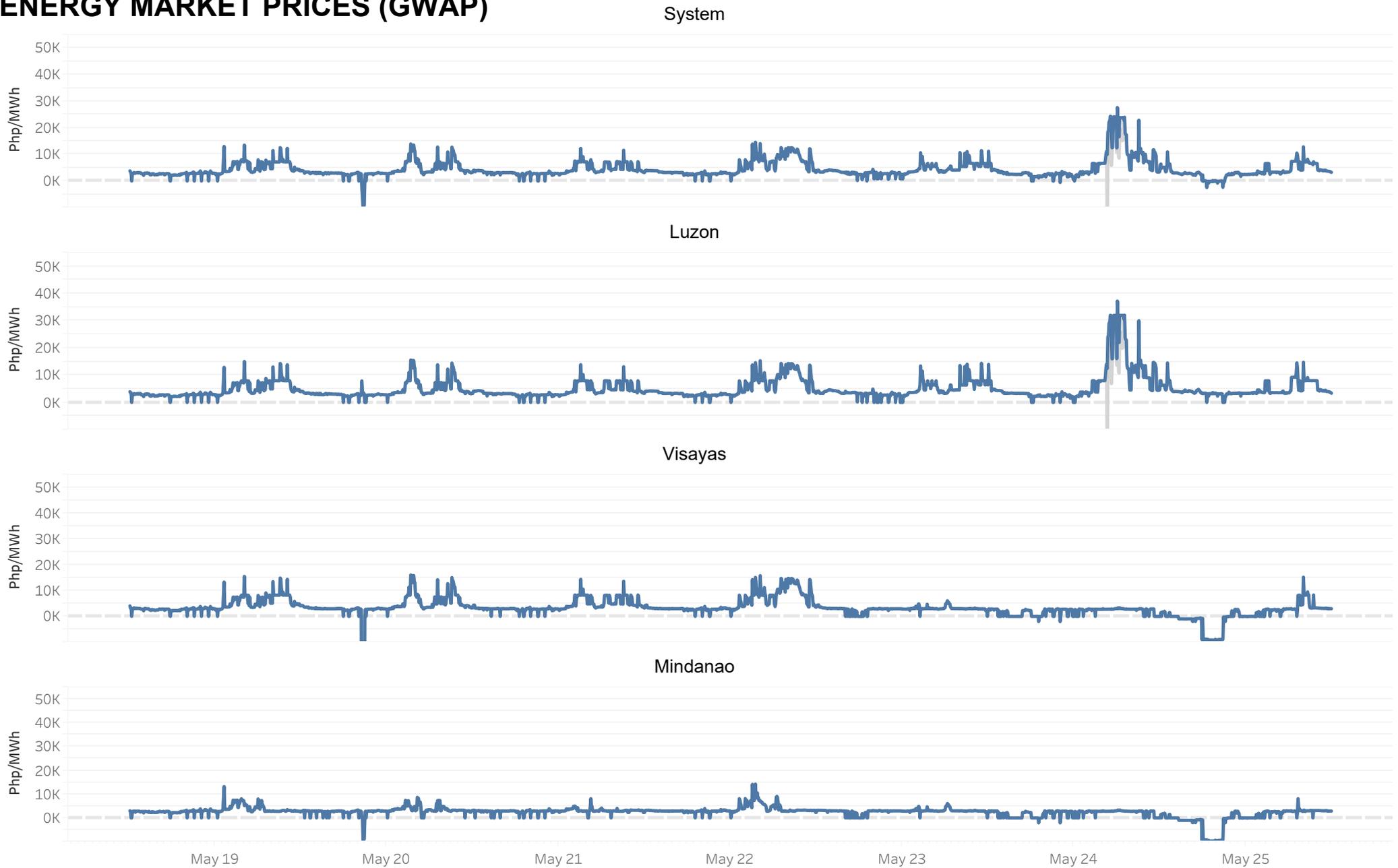
Market Systems Advisory

- No IT-related issue in IEMOP's Market Systems was reported from 19 to 25 May 2025.


SUMMARY OF AVERAGE VALUES

Particulars	19 - 25 May 2025	12 - 18 May 2025	% Change
GENERATOR WEIGHTED AVERAGE PRICE (Php/MWh)			
System	4,454	2,920	52.57%
Luzon	5,060	2,979	69.85%
Visayas	3,195	2,925	9.23%
Mindanao	2,503	2,661	-5.95%
EFFECTIVE SUPPLY (MW)			
Luzon	13,840	13,318	3.92%
Visayas	2,523	2,538	-0.61%
Mindanao	3,428	3,443	-0.43%
DEMAND (MW)			
Luzon	11,520	10,868	5.99%
Visayas	2,118	2,096	1.00%
Mindanao	2,087	2,083	0.21%
OUTAGE (MW)			
Luzon	950.4	671.5	41.53%
Visayas	245.1	252.0	-2.74%
Mindanao	135.7	108.2	25.40%
REGULATING UP PRICE (Php/MWh)			
Luzon	11,916	9,628	23.76%
Visayas	24,976	23,225	7.54%
Mindanao	24,554	24,702	-0.60%
REGULATING DOWN PRICE (Php/MWh)			
Luzon	13,161	12,897	2.05%
Visayas	56,389	45,728	23.32%
Mindanao	24,559	24,703	-0.58%
CONTINGENCY RESERVE PRICE (Php/MWh)			
Luzon	3,929	1,011	288.73%
Visayas	5,364	2,899	85.03%
Mindanao	506	694	-27.01%
DISPATCHABLE RESERVE PRICE (Php/MWh)			
Luzon	1,125	604	86.29%
Visayas	5,185	3,960	30.95%
Mindanao	0	0	

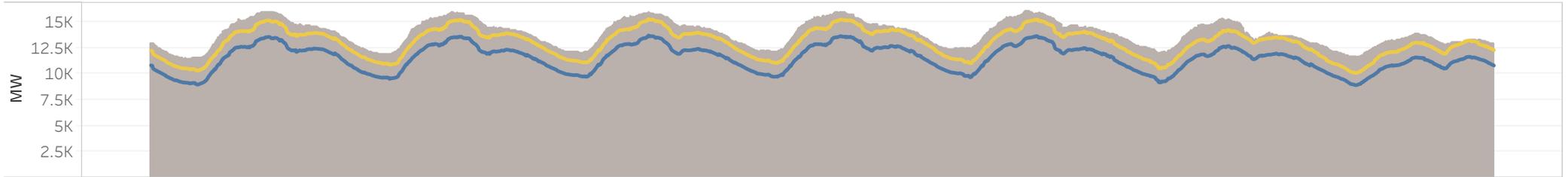


ENERGY MARKET PRICES (GWAP)


The charts show the market prices by region based on generator weighted average price (GWAP). Prices are subject to the finalization of settlement data.

■ GWAP ■ GWAP (before post market run calculation)

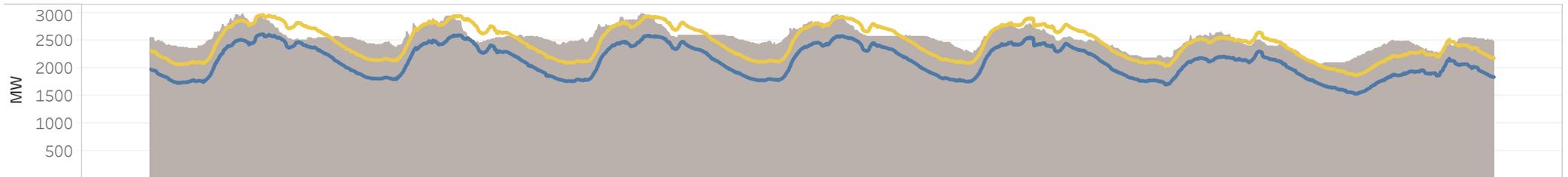
LUZON SUPPLY AND DEMAND



HVDC FLOW (BETWEEN LUZON AND VISAYAS)



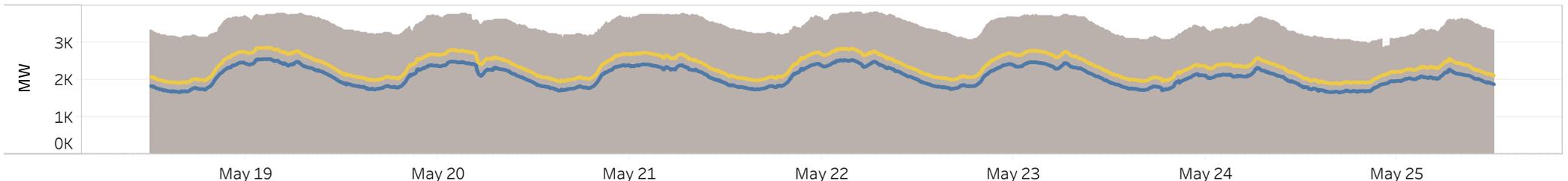
VISAYAS SUPPLY AND DEMAND



HVDC FLOW (BETWEEN VISAYAS AND MINDANAO)



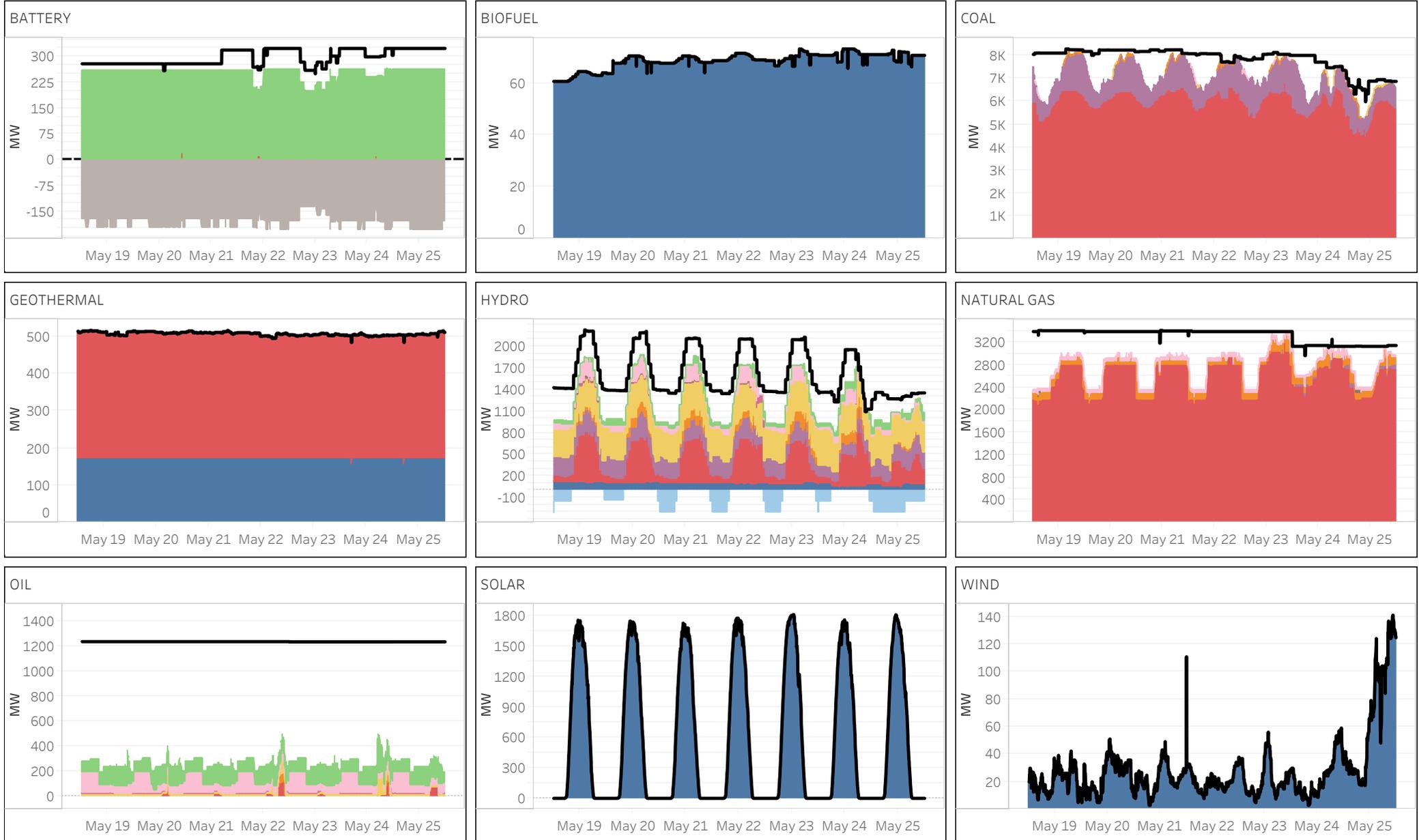
MINDANAO SUPPLY AND DEMAND



May 19 May 20 May 21 May 22 May 23 May 24 May 25

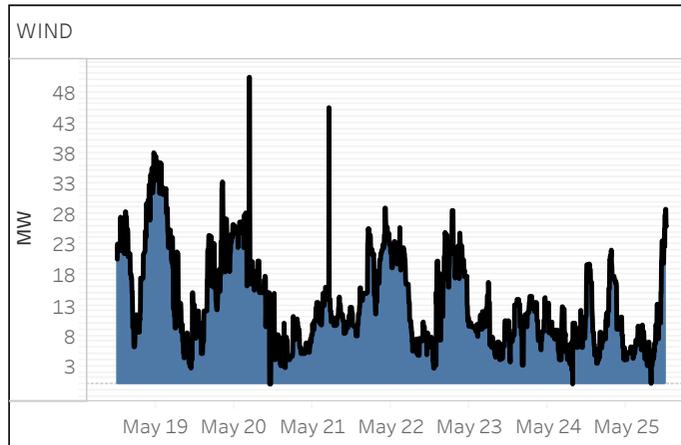
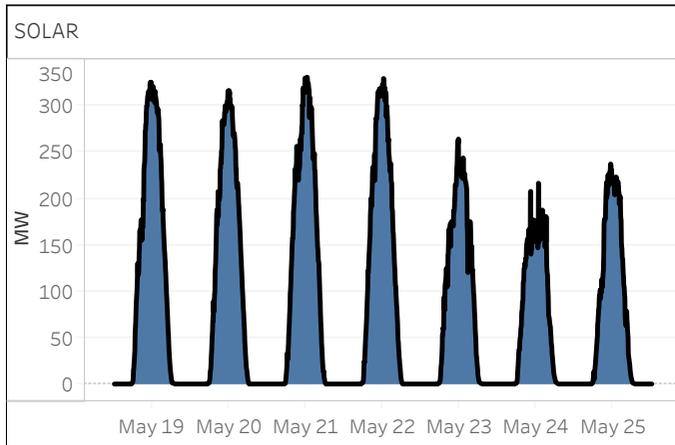
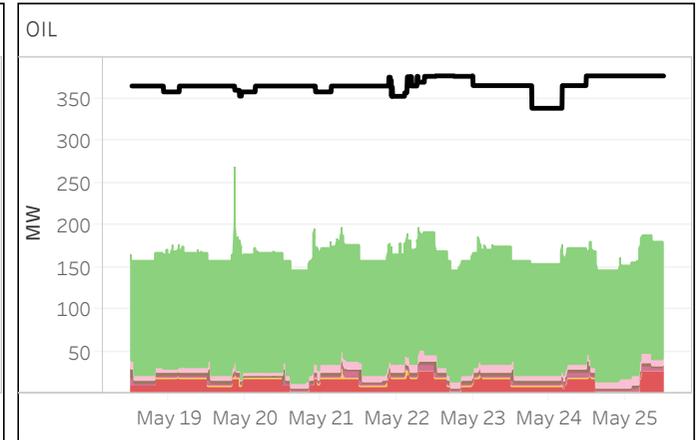
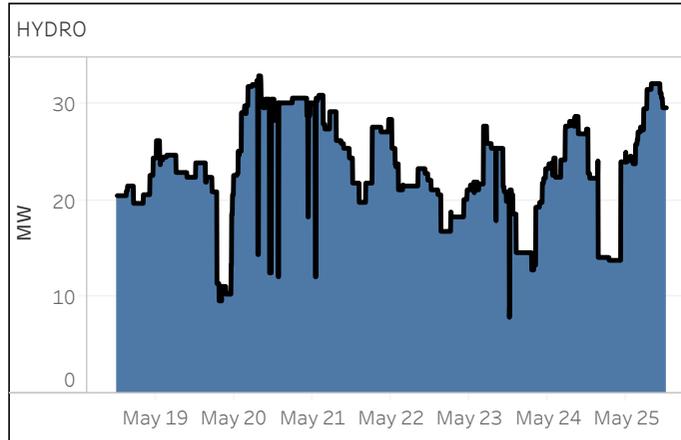
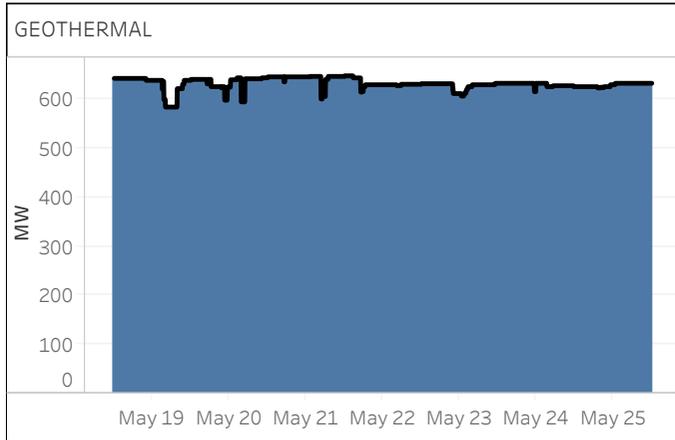
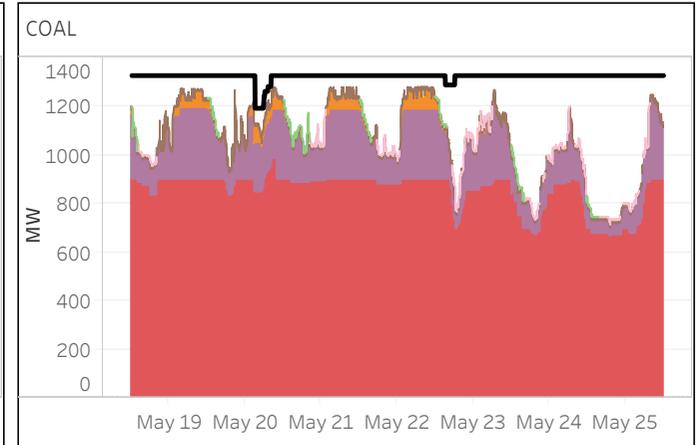
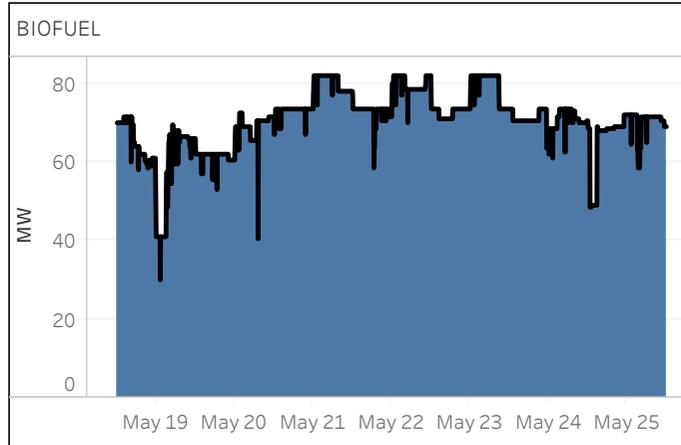
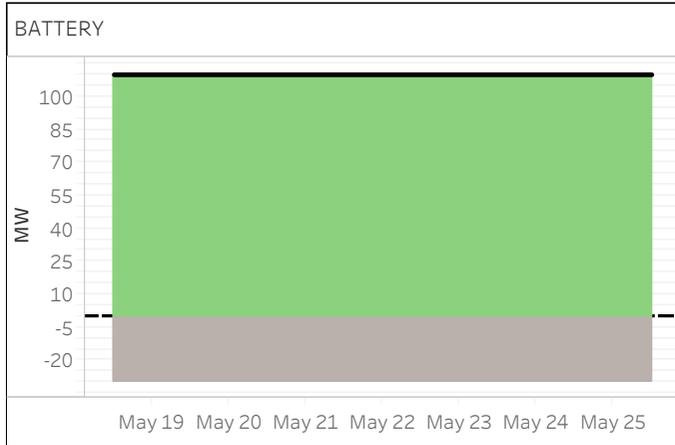
The charts shows the aggregated supply and demand in each region and the scheduled power flow from/to a particular region via HVDC links.

ENERGY OFFER PATTERN - LUZON



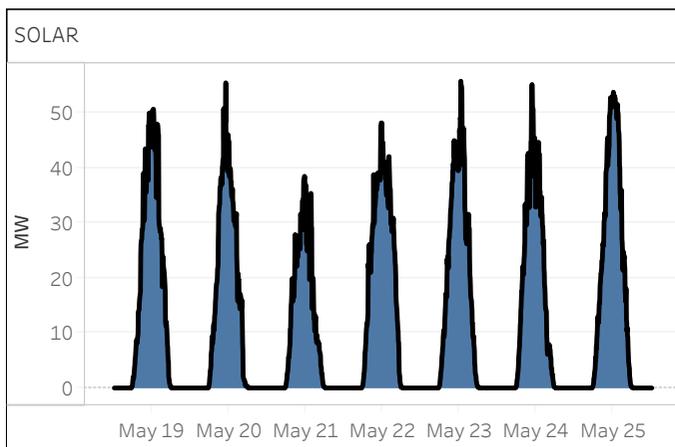
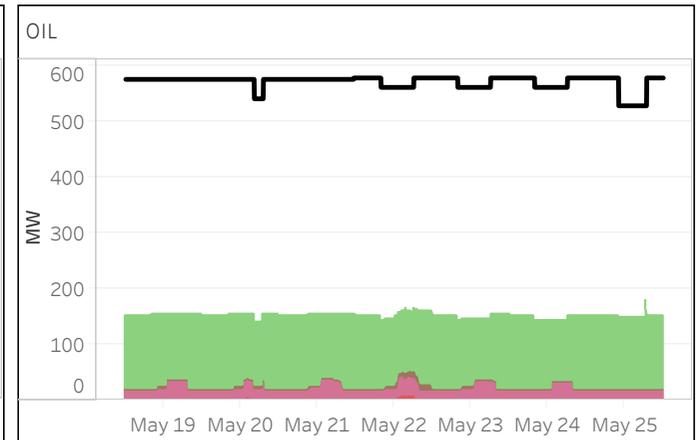
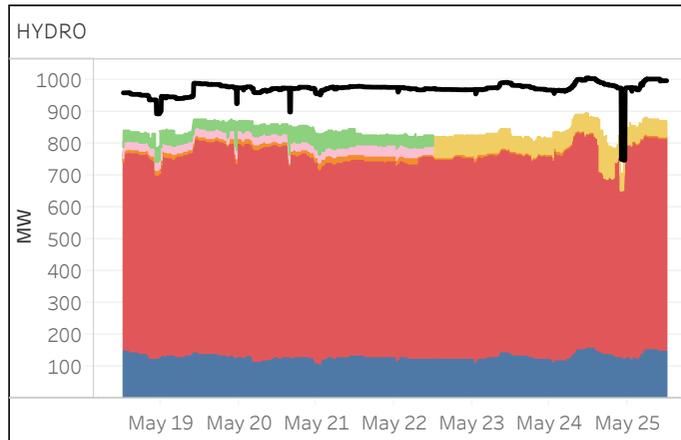
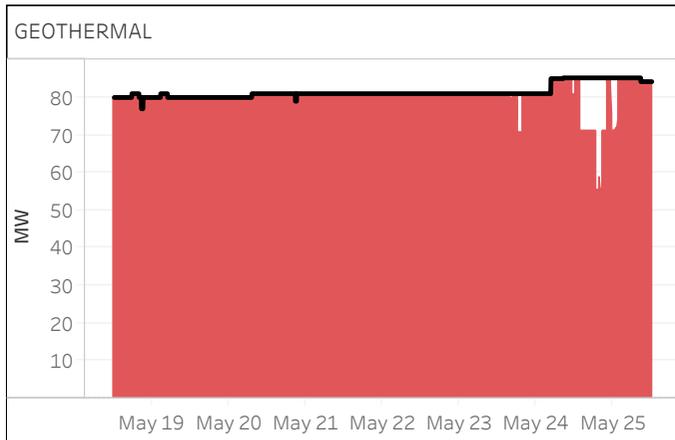
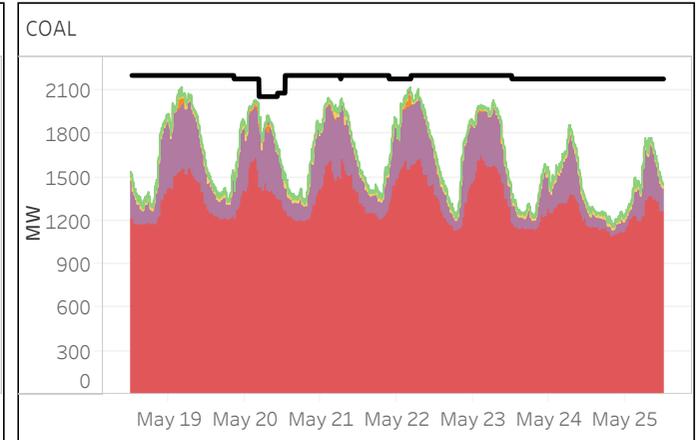
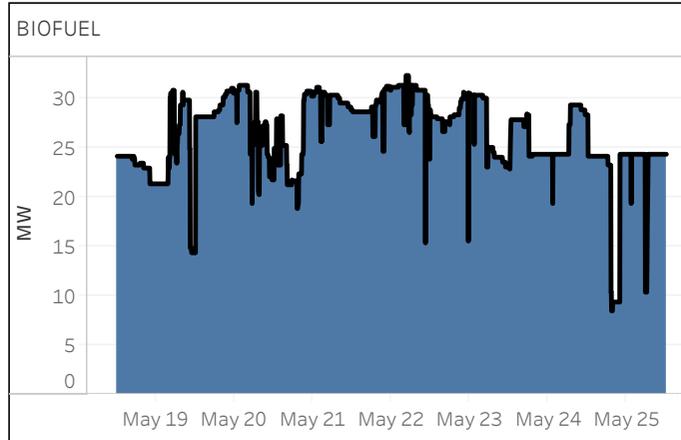
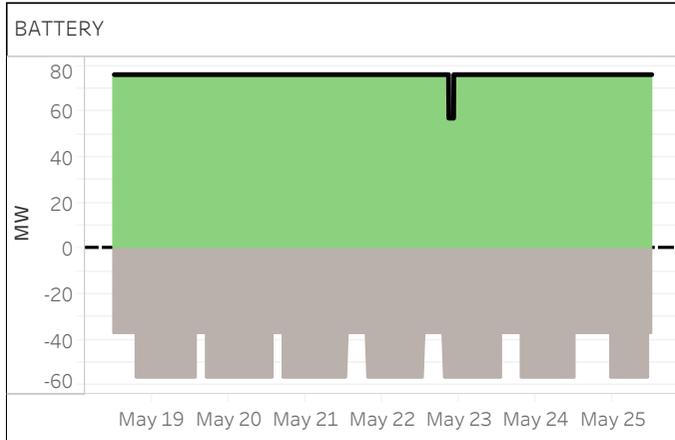
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y. 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - VISAYAS



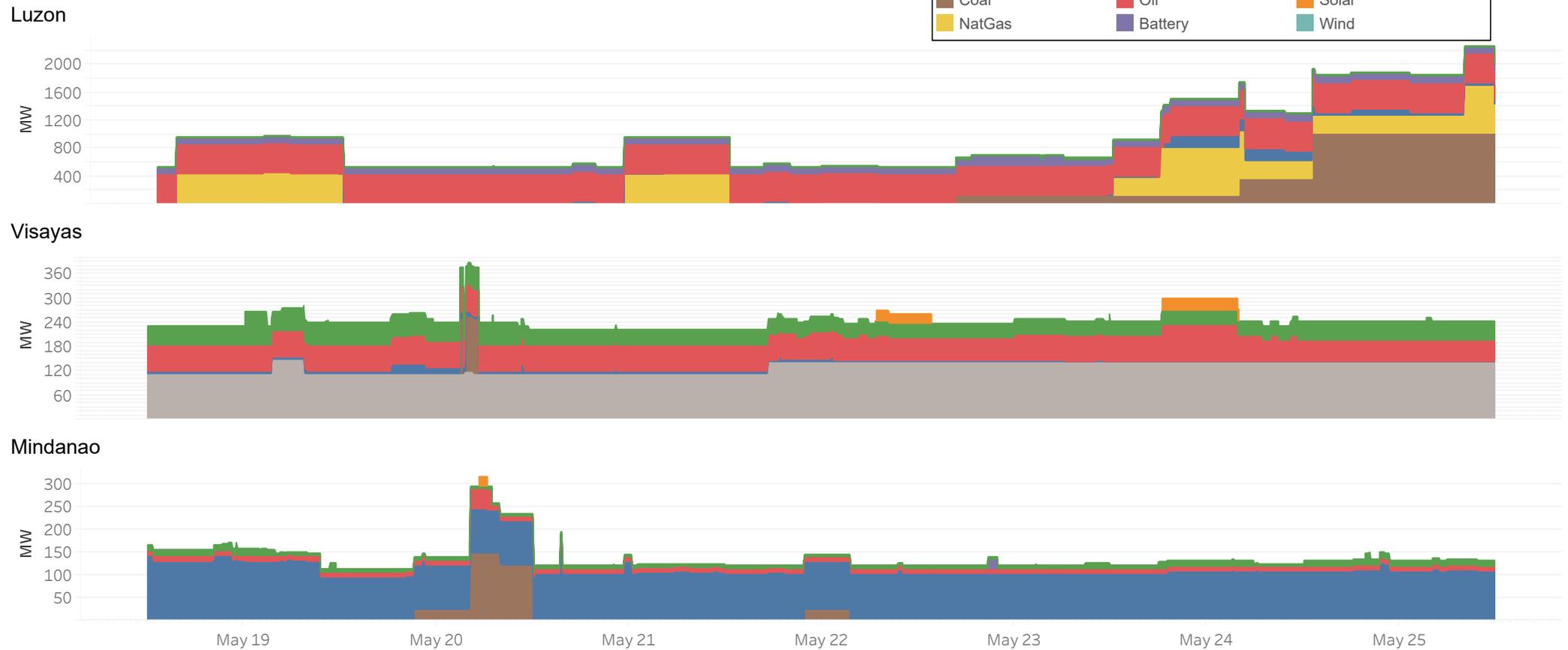
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y.
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ENERGY OFFER PATTERN - MINDANAO

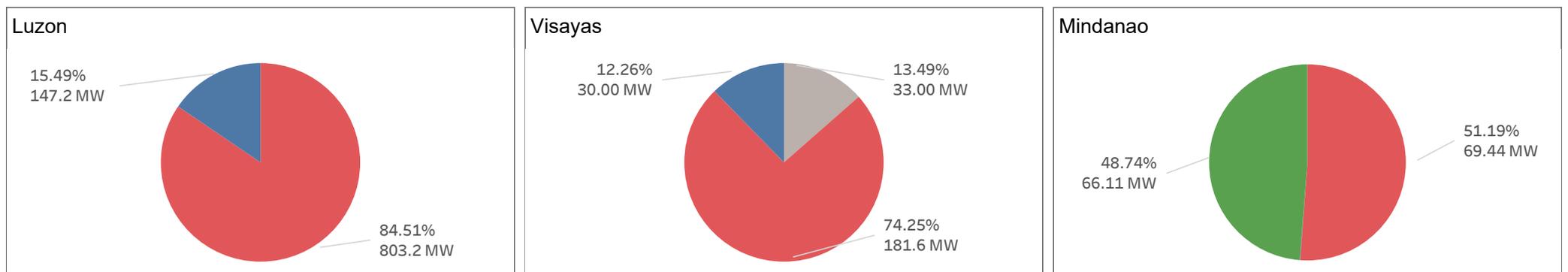


NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y.
 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

CAPACITIES ON OUTAGE PER PLANT TYPE

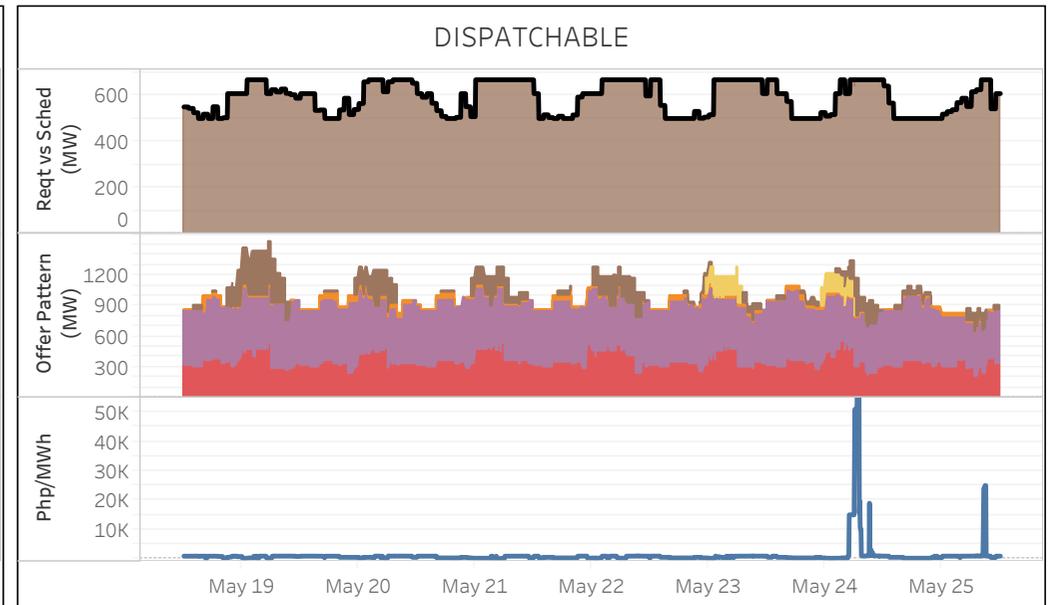
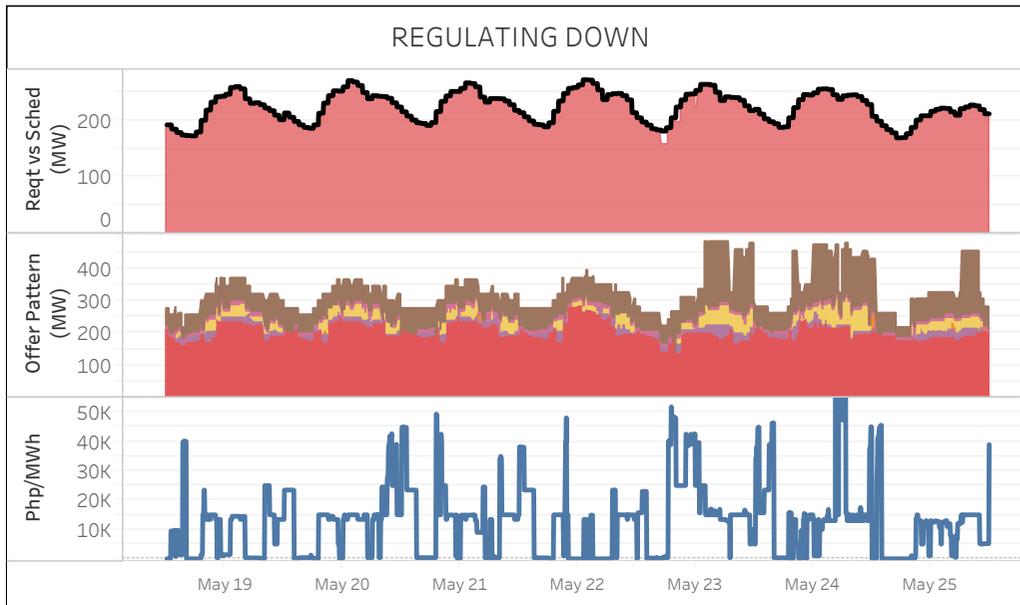
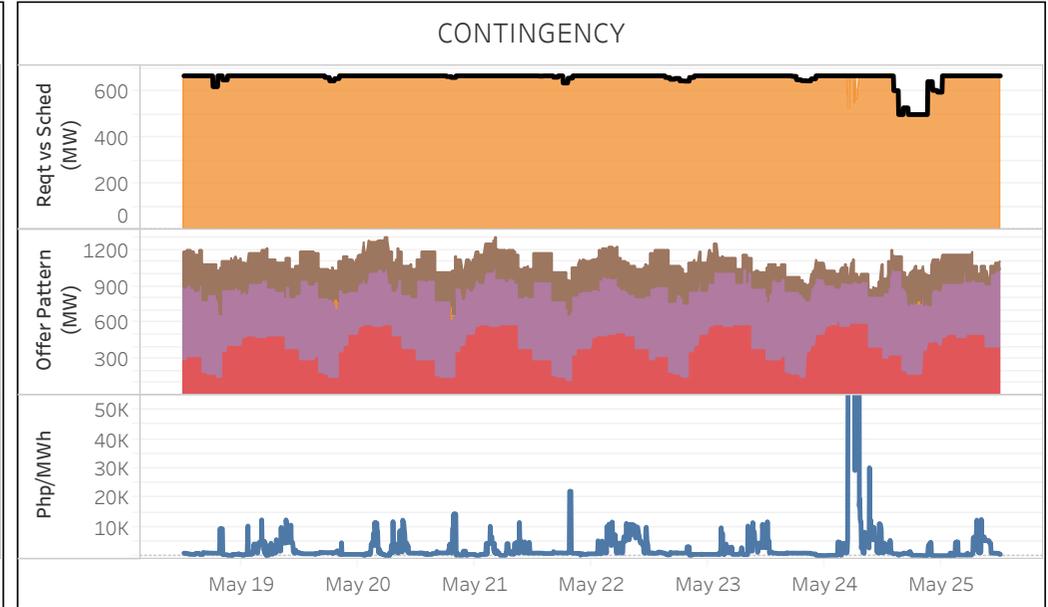
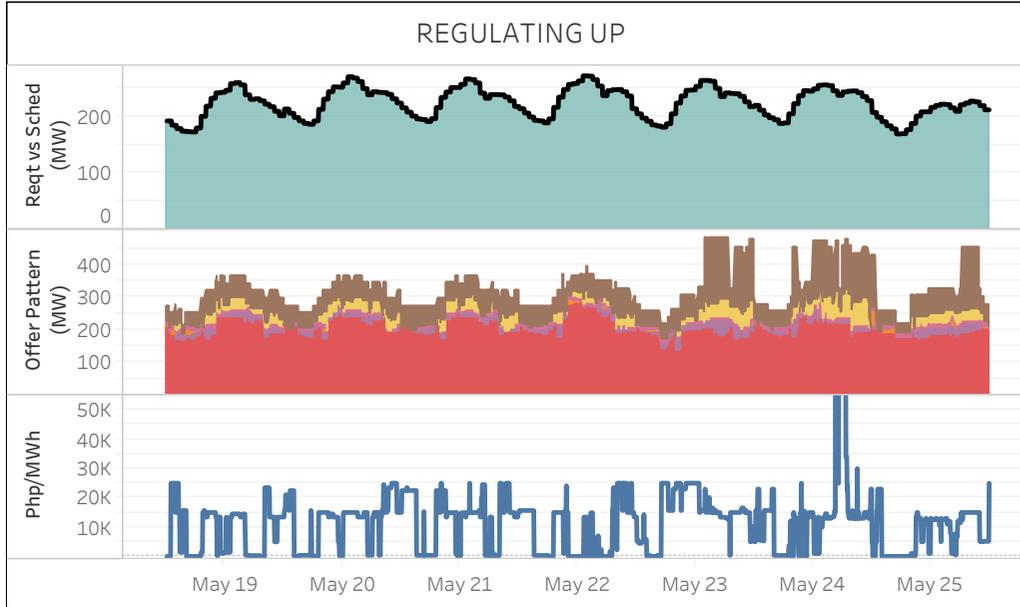


CAPACITIES ON OUTAGE PER CATEGORY



RESERVE MARKET DATA - LUZON

All reserve prices will be capped at price offer cap as per ERC NOR - Case No. 2023-002 RC - PDM Section 2.2.1.4



Req't vs Sched Legends

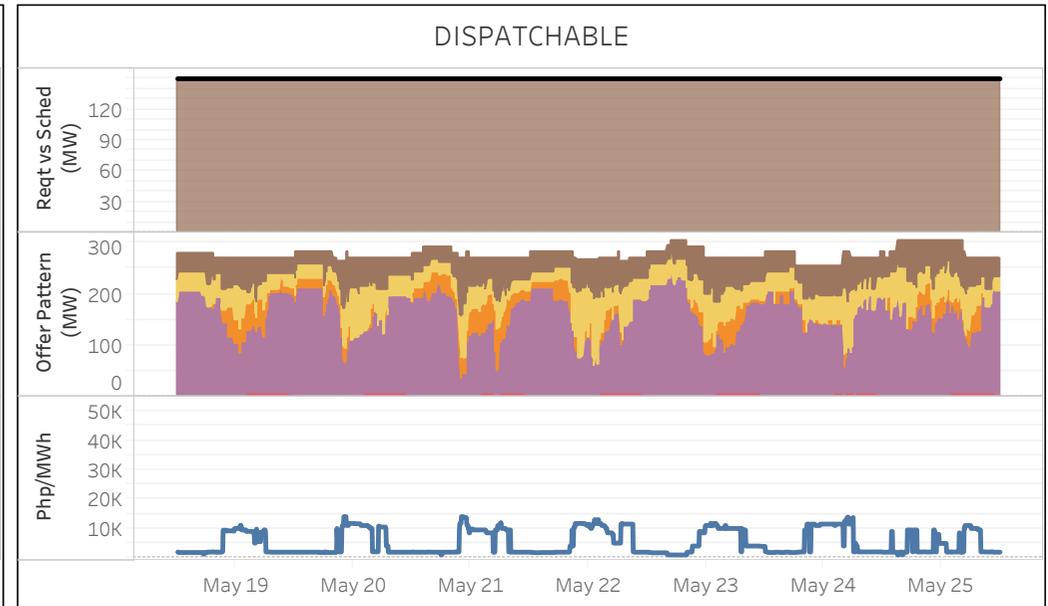
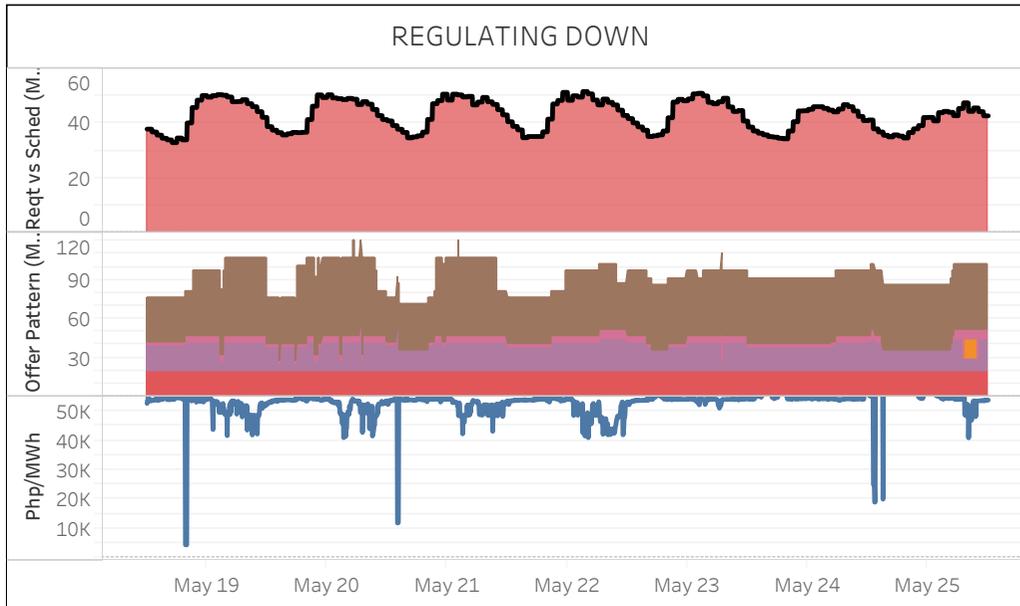
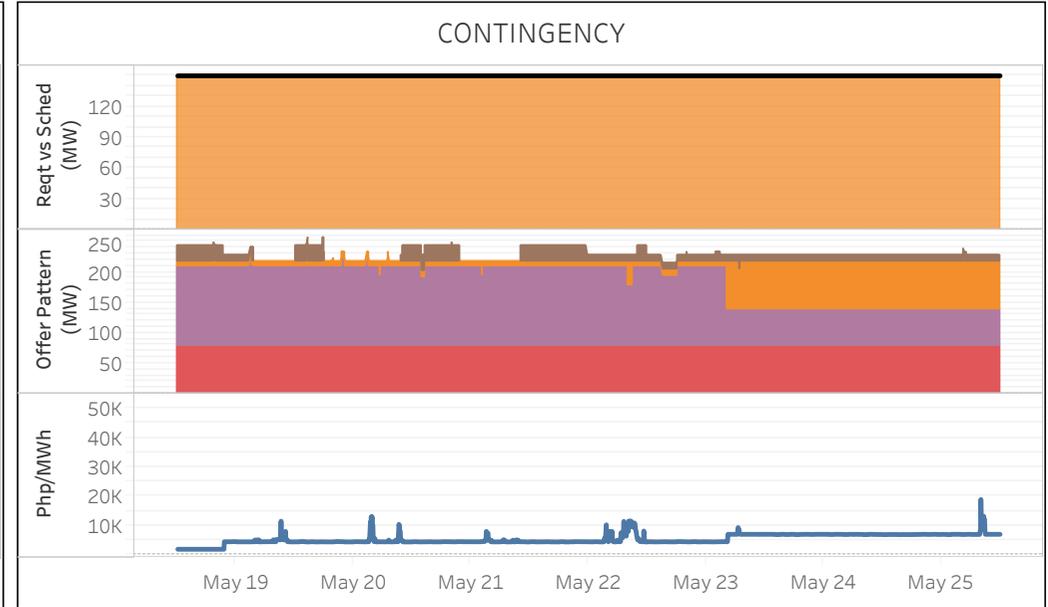
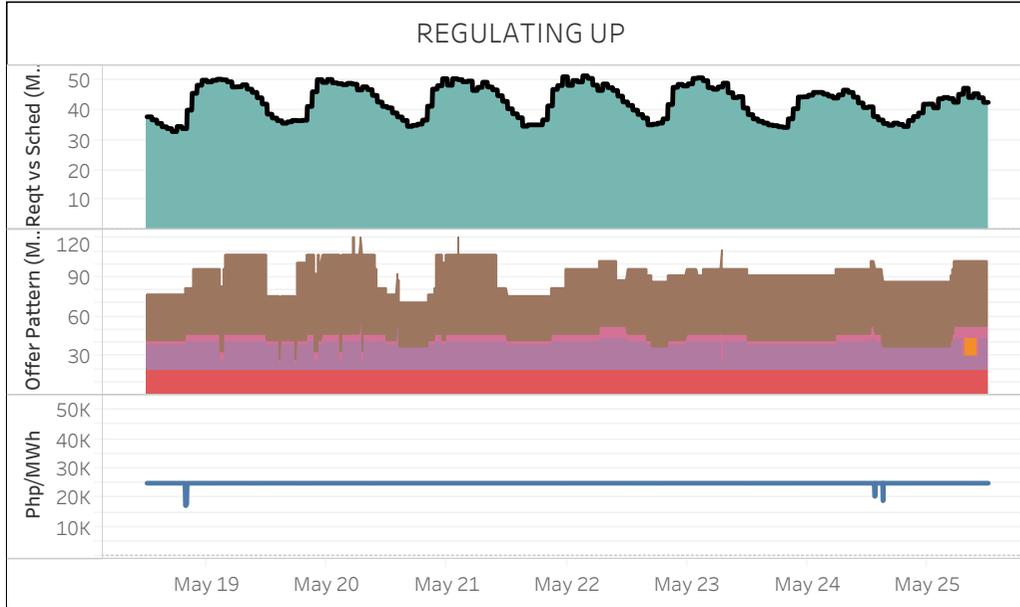
- Reserve Requirement
- RD Schedule
- DR Schedule
- RU Schedule
- FR Schedule

Offer Price Range

- Php 0
- Php (5000,10000)
- Php (15000,20000)
- Php (20000,25000)
- Php (0,5000)
- Php (10000,15000)

RESERVE MARKET DATA - VISAYAS

All reserve prices will be capped at price offer cap as per ERC NOR - Case No. 2023-002 RC - PDM Section 2.2.1.4



Req vs Sched Legends

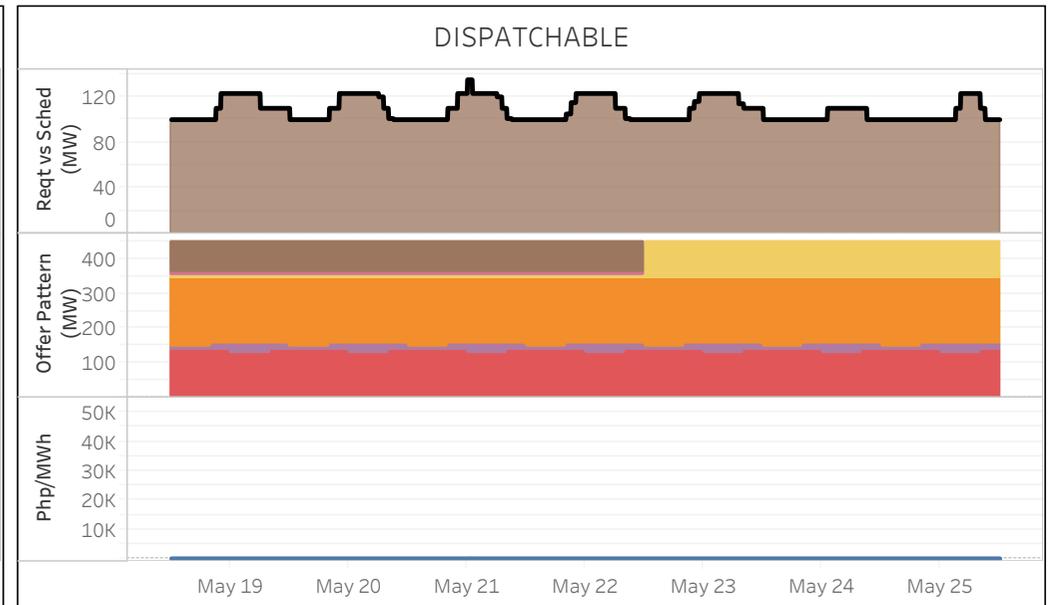
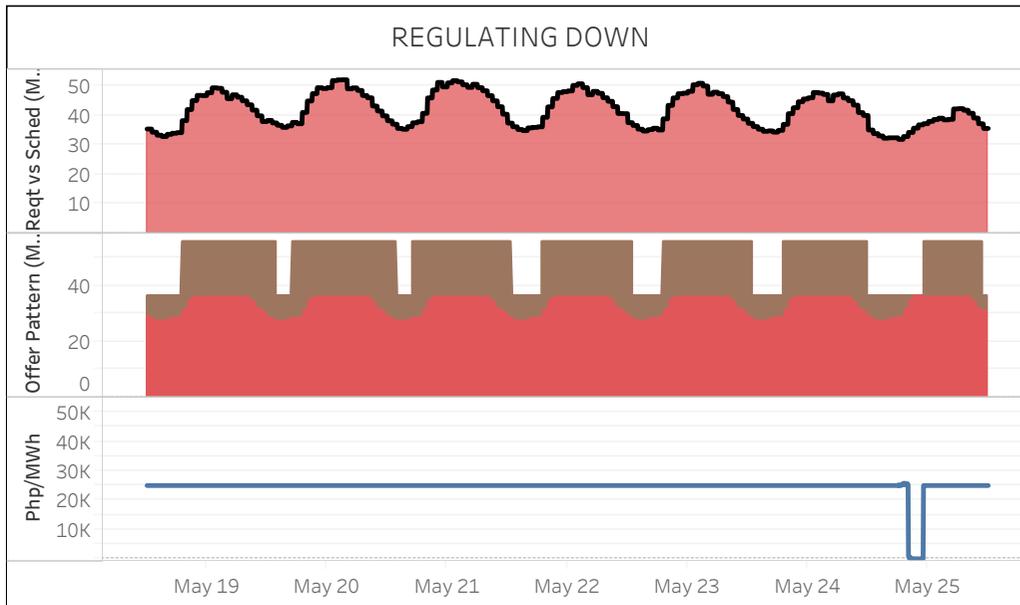
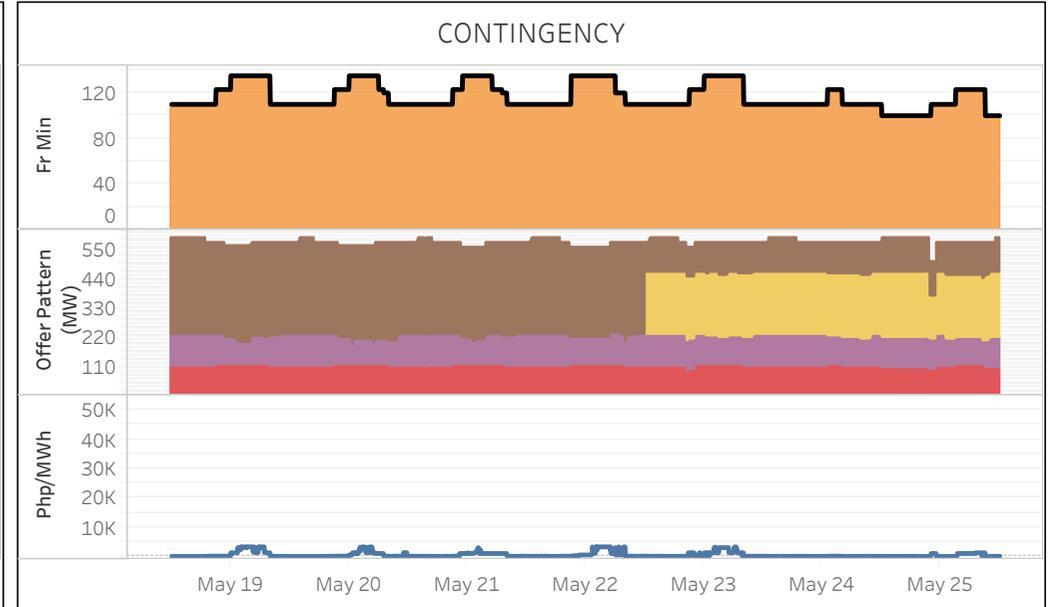
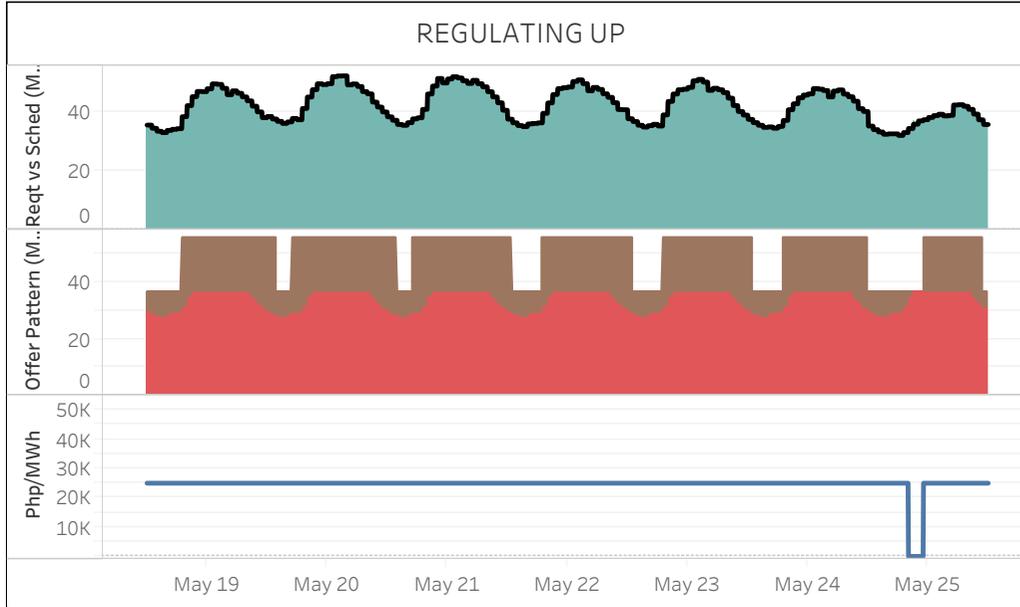
- Reserve Requirement
- RD Schedule
- DR Schedule
- RU Schedule
- FR Schedule

Offer Price Range

- Php 0
- Php (5000,10000)
- Php (15000,20000)
- Php (20000,25000)
- Php (0,5000)
- Php (10000,15000)

RESERVE MARKET DATA - MINDANAO

All reserve prices will be capped at price offer cap as per ERC NOR - Case No. 2023-002 RC - PDM Section 2.2.1.4



Req't vs Sched Legends

- Reserve Requirement
- RD Schedule
- DR Schedule
- RU Schedule
- FR Schedule

Offer Price Range

- Php 0
- Php (5000,10000)
- Php (15000,20000)
- Php (0,5000)
- Php (10000,15000)
- Php (20000,25000)

GLOSSARY OF TERMS

CAPACITY ON OUTAGE

Calculated for each 5-min interval as the sum of the capacity of all generating units on outage, which are further distinguished by plant type and category. The generating unit/s on outage and categories of outage are based on the SO's daily operations report. Cited below are the outage categories as defined in ERC Resolution No. 21, Series of 2016.

- Deactivated Shutdown* - refers to a condition where a generating unit is unavailable for service for an extended period of time for reasons not related to equipment and inactive for more than 60 days.
- Forced Maintenance* - An outage that requires immediate removal of a unit from service, another outage state, or a reserve shutdown state.
- Planned* - An outage that does not require immediate removal from the In-Service state but requires a Unit to be removed from the available state before the next planned outage. This is scheduled at least seven (7) days in advance.
- Planned* - The state in which a Unit is unavailable due to inspection, testing, preventive maintenance or overhaul. A Planned Outage is scheduled with a pre-determined duration and is coordinated with the System Operator. The Planned Outage of a Unit shall be reflected in the Grid Operating and Management Program (GOMP).

DEMAND

Calculated for each 5-minute trading interval as the sum of the real time dispatch (RTD) schedule of all load resources plus regional losses.

EFFECTIVE SUPPLY

Calculated for each 5-minute trading interval as the sum of the offered capacity of all scheduled generators considering their offered ramp rates, nominated loading level of nonscheduled generators and projected output of preferential dispatch generators, adjusted for any over-riding constraints imposed by the System Operator (SO), and reserve offers. Output of generators on testing and commissioning were considered based on the over-riding constraints imposed by the SO.

HERFINDAHL-HIRSCHMAN INDEX (HHI)

It is a commonly accepted measure of market concentration that takes into account the relative size and distribution of participants in the market. The HHI is a number between 0 and 10,000, which is calculated as the sum of squares of the participant's market share. The HHI approaches zero when the market has very large number of participants with each having a relatively small market share. In contrary, the HHI increases as the number of participants in the market decreases, and the disparity in the market shares among the participants increases. The following are the widely used HHI screening numbers: (1) less than 1,500 - not concentrated; (2) 1,500 to 2,500 - moderately concentrated; and (3) greater than 2,500 - highly concentrated.

MARKET RESIDUAL SUPPLY INDEX (Market RSI)

The RSI is a dynamic continuous index measured as ratio of the available generation without a generator to the total generation required to supply the demand. The RSI is measured for each generator. The greater the RSI of a generator, the less will be its potential ability to exercise market power and manipulate prices, as there will be sufficient capacity from the other generators. In contrary, the lower the RSI, the greater the market power of a generator (and its potential benefit of exercising market power), as the market is strongly dependent on its availability to be able to fully supply the demand. In particular, a RSI greater than 100% for a generator means that the remaining generators can cover the demand, and in principle that generator cannot manipulate market price. On the other hand, a RSI less than 100% means that the generator is pivotal in supplying the demand.

The RSI for the whole market (Market RSI) is measured as the lowest RSI among all the generators in the market. A Market RSI less than 100% indicates the presence of pivotal generator/s

MARKET SHARE

The fraction of the total capacity or energy that a company or related group owns or controls in the market.

MAJOR PARTICIPANT GROUP

The grouping of generators by ownership or control.

GLOSSARY OF TERMS

NOMINATED CAPACITY

The available capacity declared by self-scheduled generators.

OFFERED CAPACITY

The available capacity declared by scheduled generators.

PIVOTAL SUPPLIER INDEX (PSI)

The pivotal supplier index is a binary variable (1 for pivotal and 0 for not pivotal) for each generator. The index identifies whether a generator is pivotal in supplying the demand. The PSI is calculated as the percentage of time that a generator is pivotal in a period (i.e. monthly).

POST MARKET RUN CALCULATION

Price adjustment after consideration of different pricing conditions such as AP, SPC, PSM, and PEN.

REGISTERED CAPACITY

The capacity registered by a generator with WESM.

REGISTERED CAPACITY (NET OF OUTAGE)

The capacity registered by a generator with WESM less capacity on outage.

RESERVE CATEGORIES

Regulating (RU and RD) - Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal frequency caused by unpredicted variations in demand or generation output.

Contingency (FR) - Synchronized generation capacity from Qualified Generating Units and Qualified Interruptible Loads allocated to cover the loss or failure of a synchronized generating unit or a transmission element of the power import from a circuit interconnection.

Dispatchable (DR) - Generating Capacity that are readily available for dispatch in order to replenish the Contingency Reserves whenever a generating unit trips or a loss of a single transmission interconnection occurs.

DISCLAIMER

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