

MARKET ASSESSMENT HIGHLIGHTS
Demand, Supply, and Price

- The average weekly GWAP significantly decreased by 25.77%, 22.34%, and 26.90% in the Luzon, Visayas, and Mindanao regions, respectively.
- The average weekly demand decreased across all regions.
- The average weekly capacity on outage decreased in the Luzon and Mindanao regions, while it increased in the Visayas region.
- Exports from Visayas to Luzon occurred 82.84% of the time, while the flow from Mindanao to Visayas was observed 99.80% of the time. The Luzon-Visayas HVDC was on unplanned outage from 15:30h to 18:42h of 28 April.
- Pivotal suppliers were present 74.31% of the time.

Energy Offer Pattern Analysis

- Luzon**
- Natural Gas plants recorded dips in offered capacity from 30 April to 01 May due to outages.
 - Oil plants showed decreases in offered capacity from 28 to 30 April due to commercial testing, followed by a decrease on 01 May due to outages.
 - Battery Storage Systems recorded dips in offered capacities from 01 to 03 May due to commercial testing.
 - Biofuel plants showed a dip in nominated capacities on 03 May due to outages, and on 04 May due to resource constraints and outages.
 - Wind plants' showed an increase in nominated capacities compared to the previous week.
 - Kalayaan PSPF increased its pump operations for the entire day on 04 May.

Visayas

- Coal plants showed decrease in offered capacities on 30 April and from 02 May onwards due to outages.
- Geothermal plants recorded decreases in nominated capacities from 28 to 30 April, and 02 May due to outages.
- Biofuel and Hydro plants experienced fluctuations in nominated capacities throughout the week due to resource constraints and outages.
- Solar and Wind plants' lowest daily peak nominations were observed on 03 May.

Mindanao

- Battery Storage Systems recorded a dip in offered capacities on 03 May.
- Biofuel plants showed a decreasing trend in nominated capacities starting 29 April due to resource constraints and outages.
- Coal plants experienced decreases in offered capacities on 30 April and 02 May due to an outage and emission testing of a plant, respectively.
- Hydro plants recorded an increase in nominated and offered capacities from 02 May onwards due to resumption of plants from outages.
- Oil plants recorded a decrease in offered capacity from 02 May onwards due to outages.
- Solar plants' lowest daily peak nominations were observed on 30 April.

Market Systems Advisory

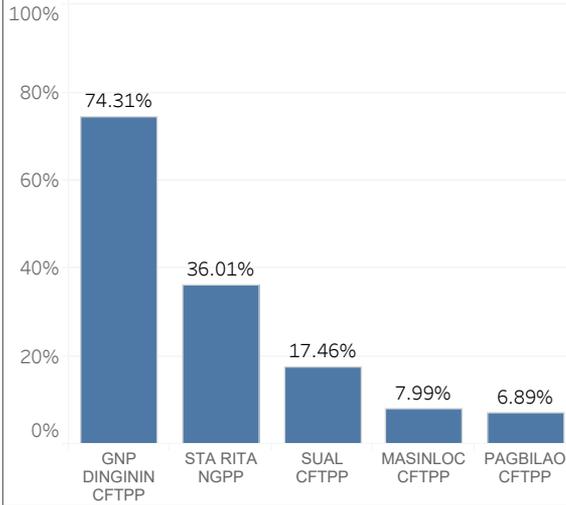
- No IT-related issue in IEMOP's Market Systems was reported from 28 April to 04 May 2025.

Capacity Profile

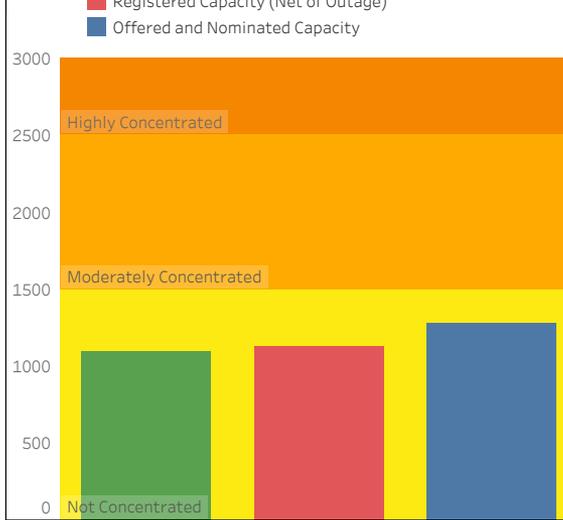
SUMMARY OF AVERAGE VALUES

Particulars	28 Apr - 04 May 2025	21 - 27 Apr 2025	% Change
GENERATOR WEIGHTED AVERAGE PRICE (Php/MWh)			
System	3,761	5,050	-25.52%
Luzon	3,845	5,180	-25.77%
Visayas	4,019	5,176	-22.34%
Mindanao	3,202	4,381	-26.90%
EFFECTIVE SUPPLY (MW)			
Luzon	13,647	13,730	-0.61%
Visayas	2,490	2,579	-3.46%
Mindanao	3,459	3,452	0.21%
DEMAND (MW)			
Luzon	11,247	11,534	-2.49%
Visayas	2,054	2,135	-3.79%
Mindanao	2,107	2,166	-2.75%
OUTAGE (MW)			
Luzon	1,319	1,366	-3.40%
Visayas	282	266	5.94%
Mindanao	83	119	-30.56%
REGULATING UP PRICE (Php/MWh)			
Luzon	11,134	14,982	-25.68%
Visayas	24,829	23,073	7.61%
Mindanao	24,405	25,000	-2.38%
REGULATING DOWN PRICE (Php/MWh)			
Luzon	12,280	14,414	-14.81%
Visayas	48,184	41,373	16.46%
Mindanao	24,405	25,000	-2.38%
CONTINGENCY RESERVE PRICE (Php/MWh)			
Luzon	3,052	3,491	-12.56%
Visayas	2,060	3,452	-40.33%
Mindanao	669	888	-24.65%
DISPATCHABLE RESERVE PRICE (Php/MWh)			
Luzon	854	943	-9.42%
Visayas	5,127	6,642	-22.81%
Mindanao	5	1	334.51%

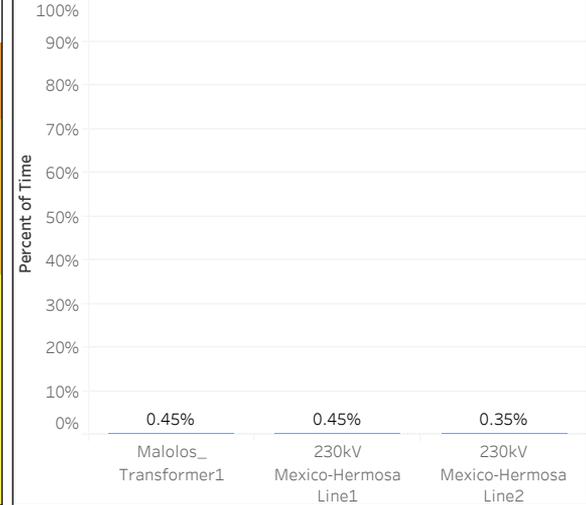
Top 5 Pivotal Plants



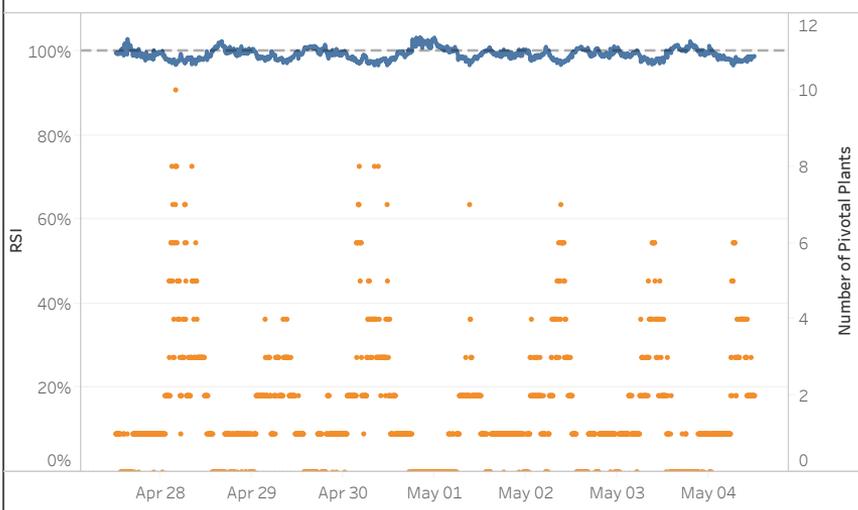
HHI



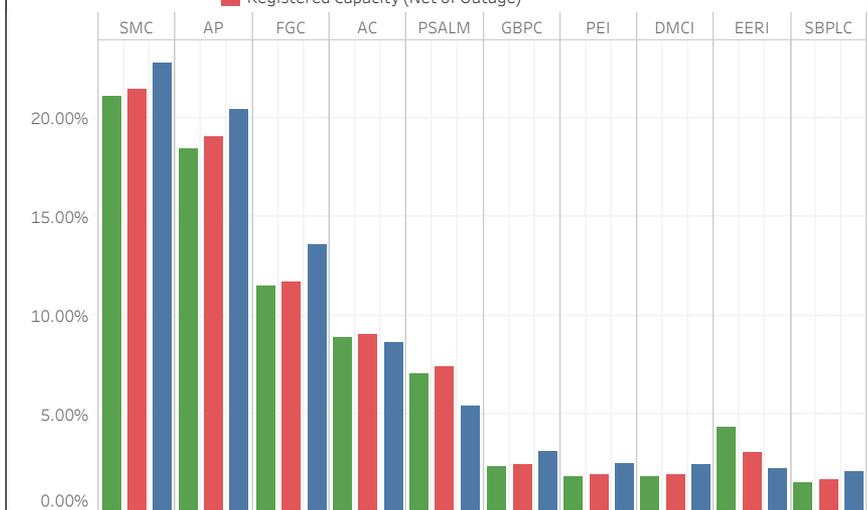
RTD Congestion



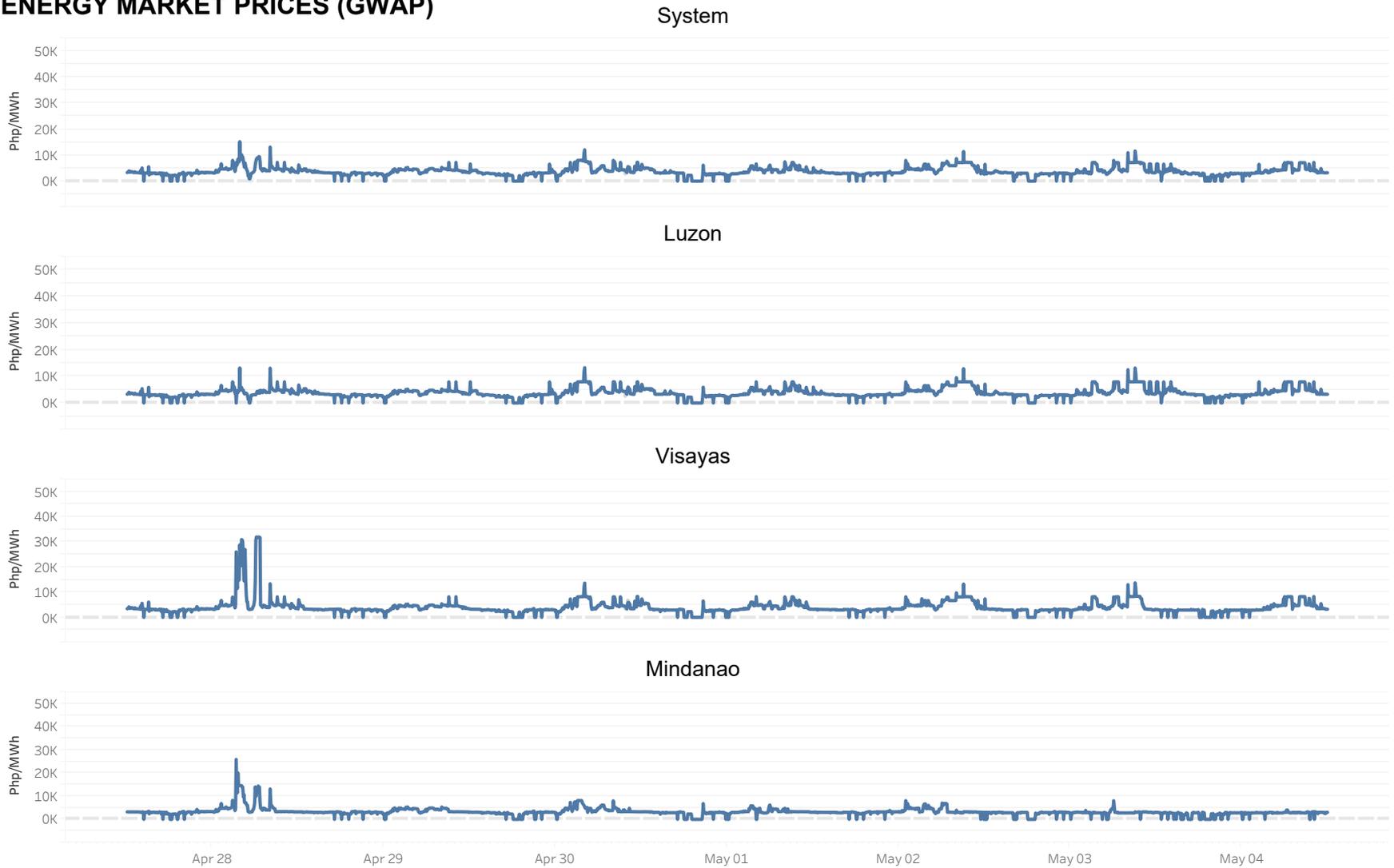
Market RSI vs Pivotal Plants



Market Share



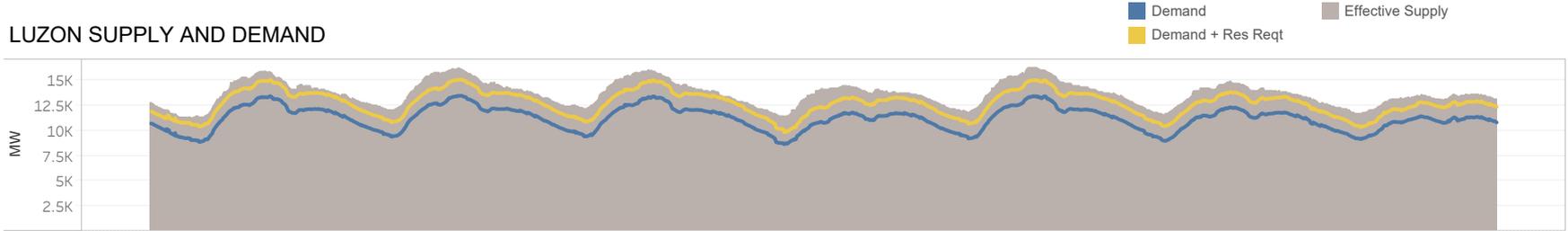
ENERGY MARKET PRICES (GWAP)



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)

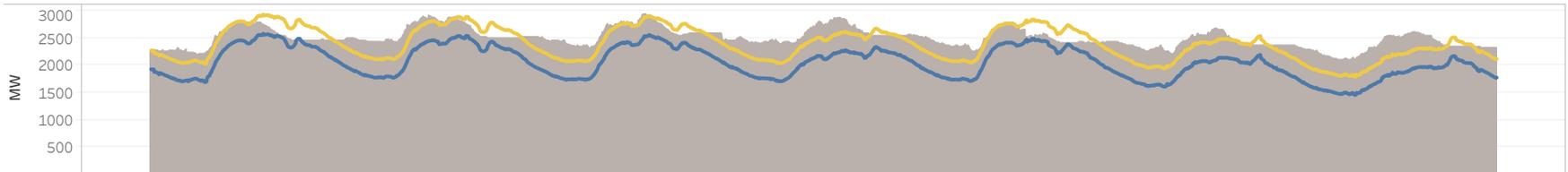
LUZON SUPPLY AND DEMAND



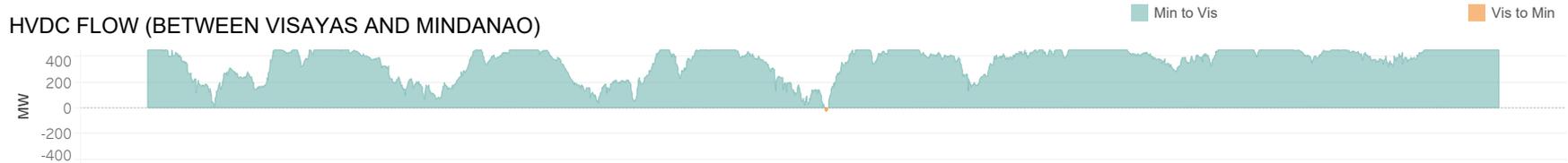
HVDC FLOW (BETWEEN LUZON AND VISAYAS)



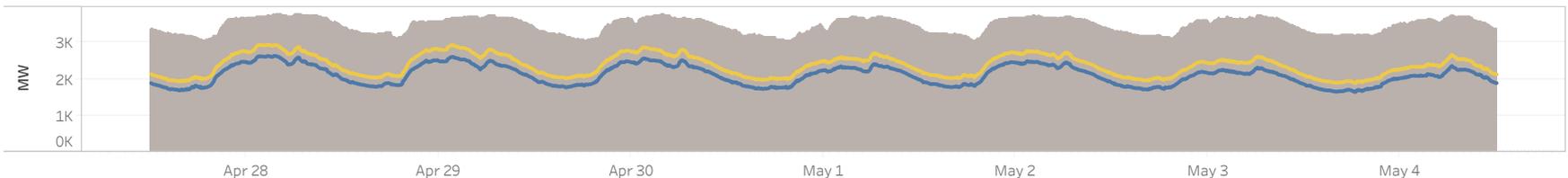
VISAYAS SUPPLY AND DEMAND



HVDC FLOW (BETWEEN VISAYAS AND MINDANAO)

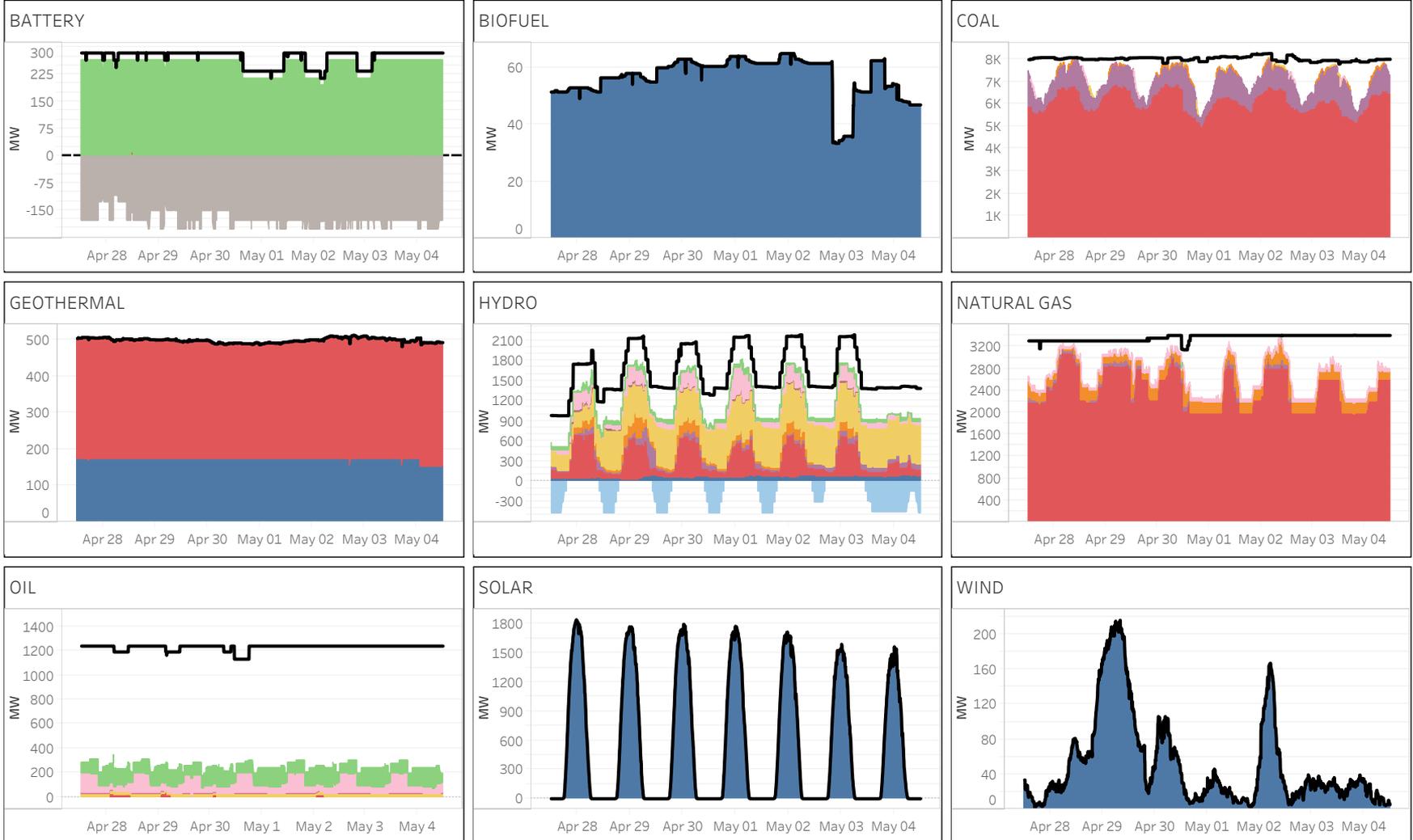


MINDANAO SUPPLY AND DEMAND



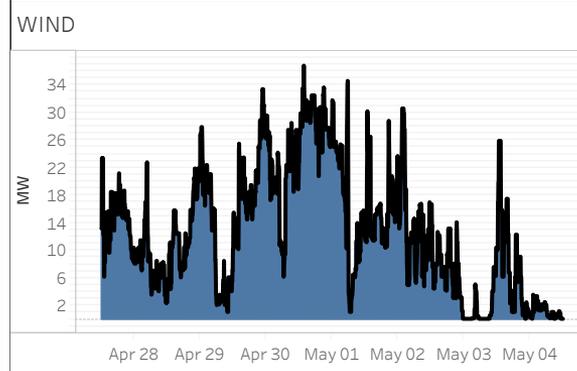
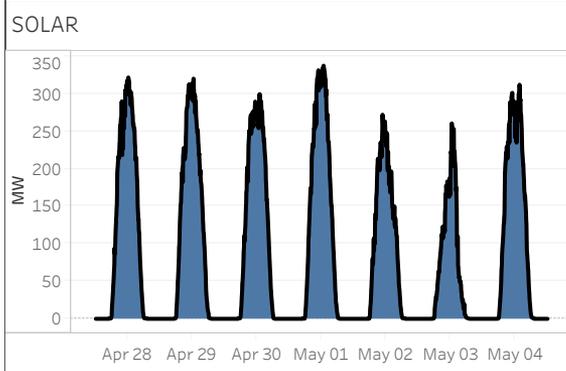
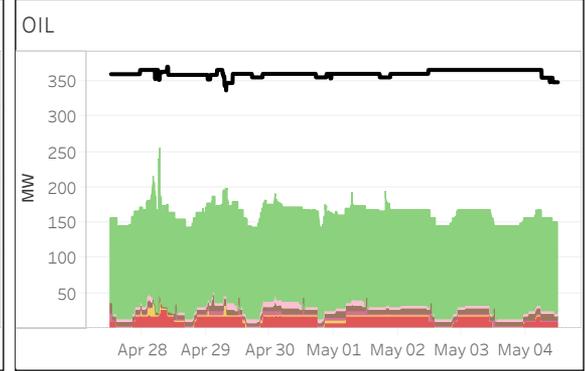
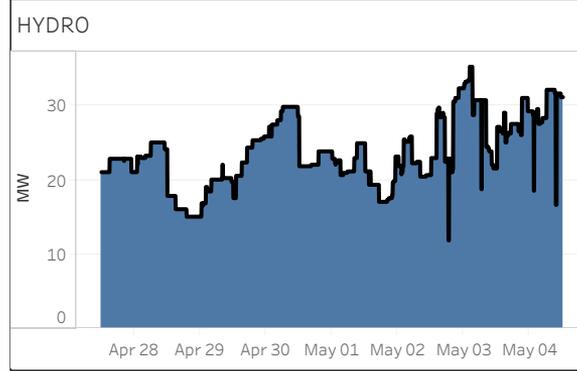
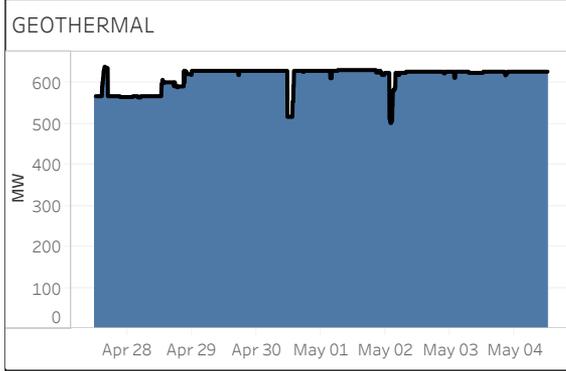
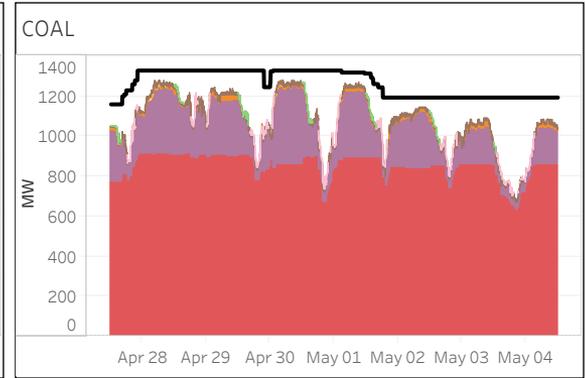
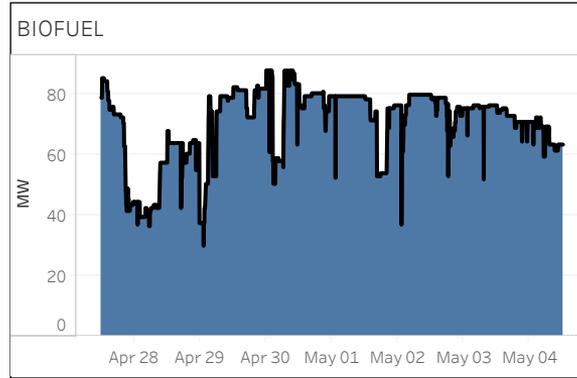
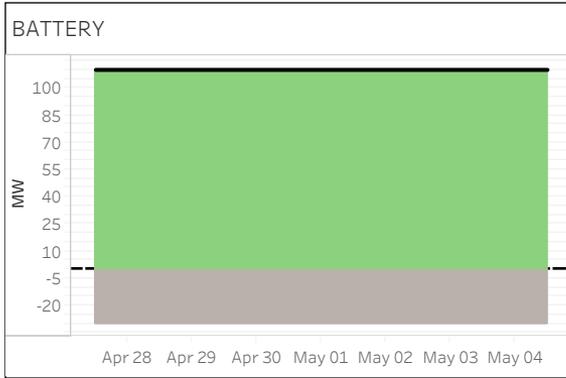
The charts show the aggregated supply and demand in each region and the scheduled power flow from/to a particular region via HVDC links.

ENERGY OFFER PATTERN - LUZON



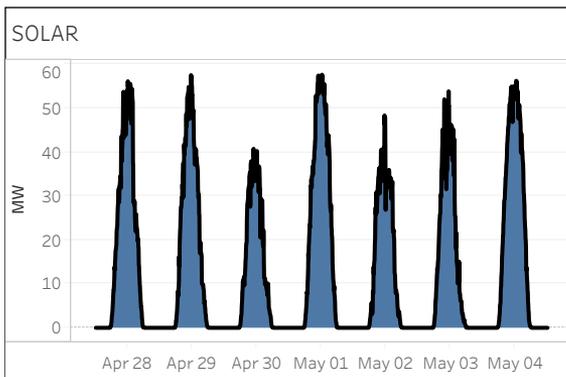
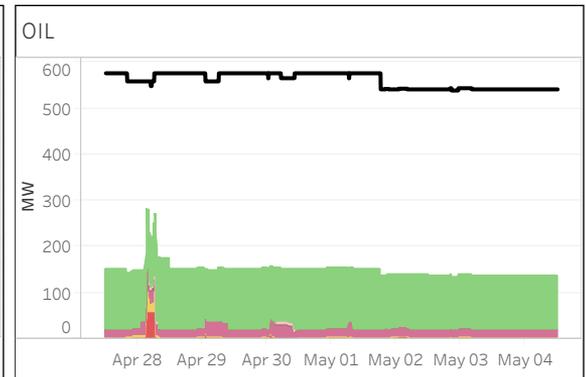
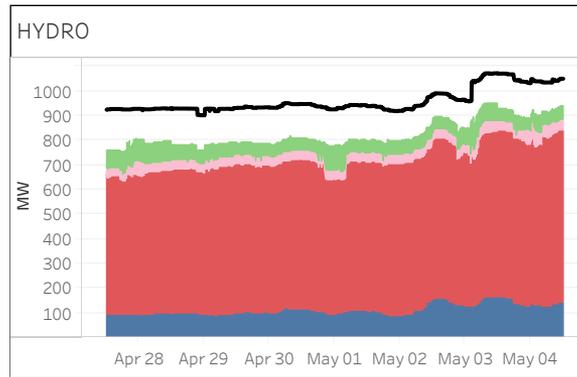
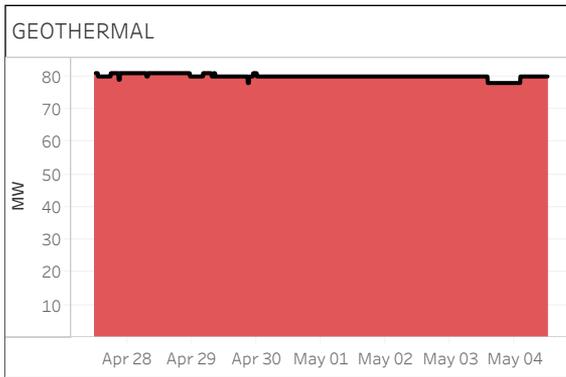
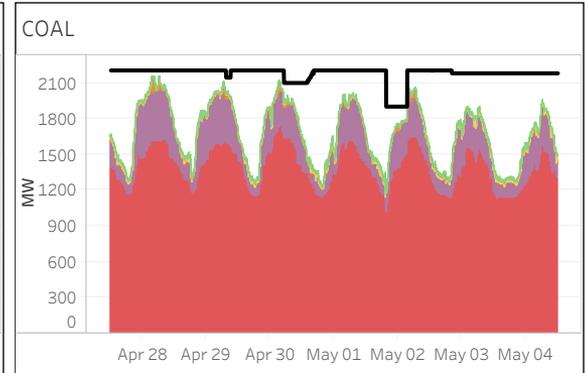
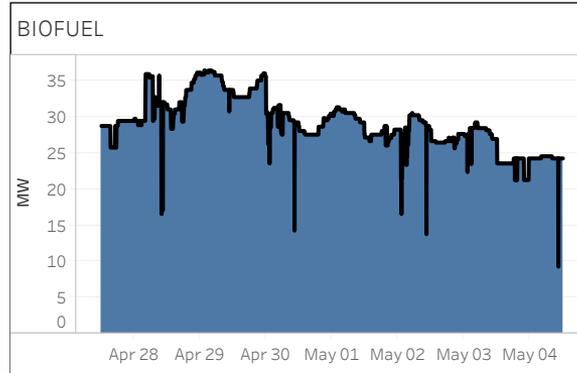
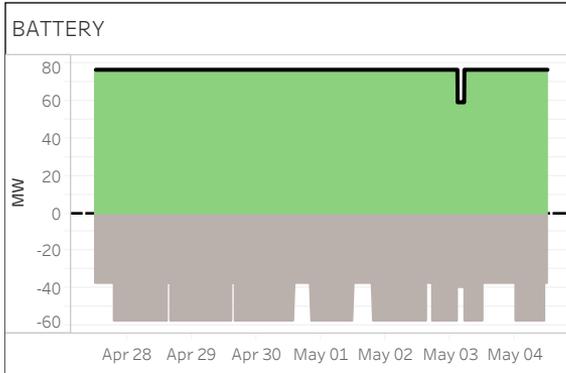
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y. 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

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.
 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - MINDANAO



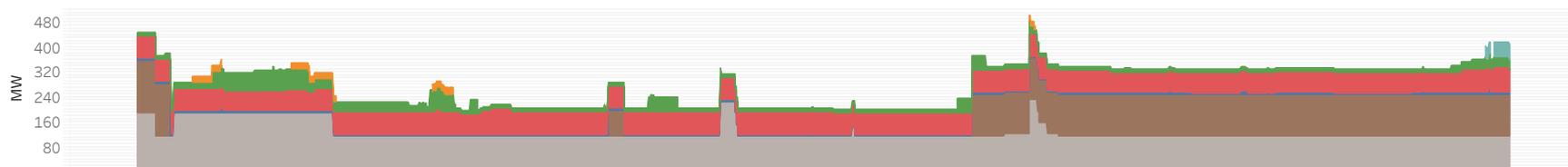
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y.
 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

CAPACITIES ON OUTAGE PER PLANT TYPE

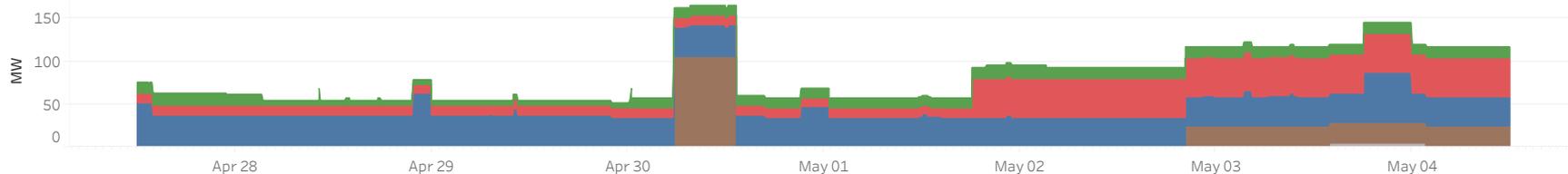
Luzon



Visayas



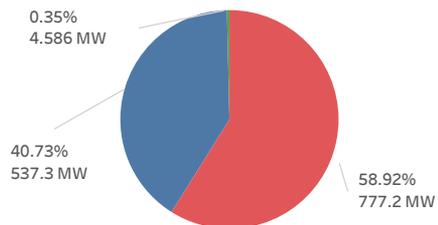
Mindanao



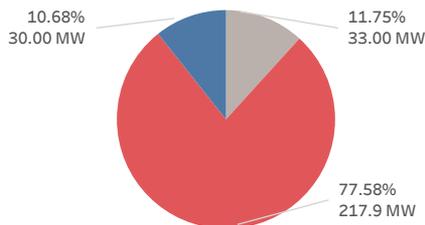
CAPACITIES ON OUTAGE PER CATEGORY

Deactivated Shutdown Forced Maintenance Planned

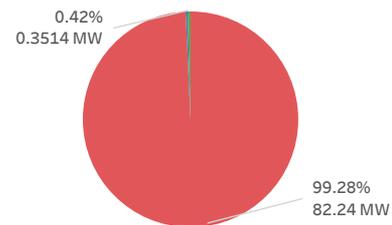
Luzon



Visayas

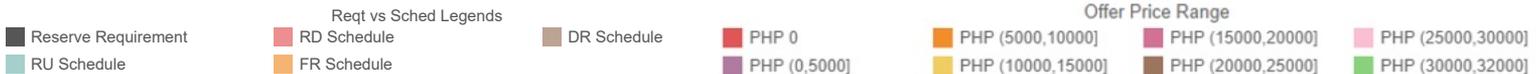
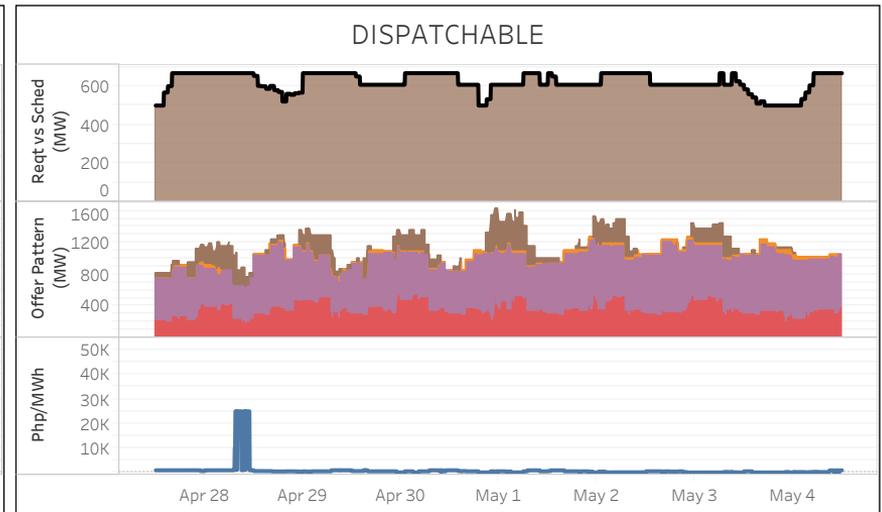
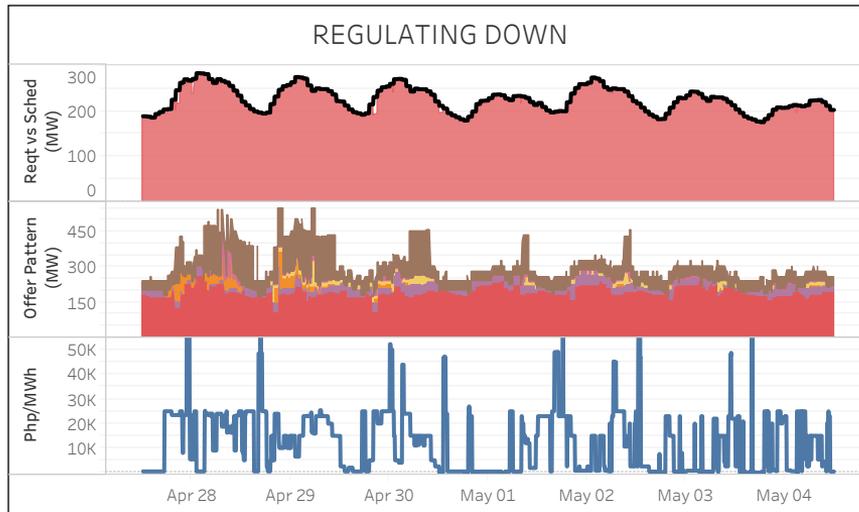
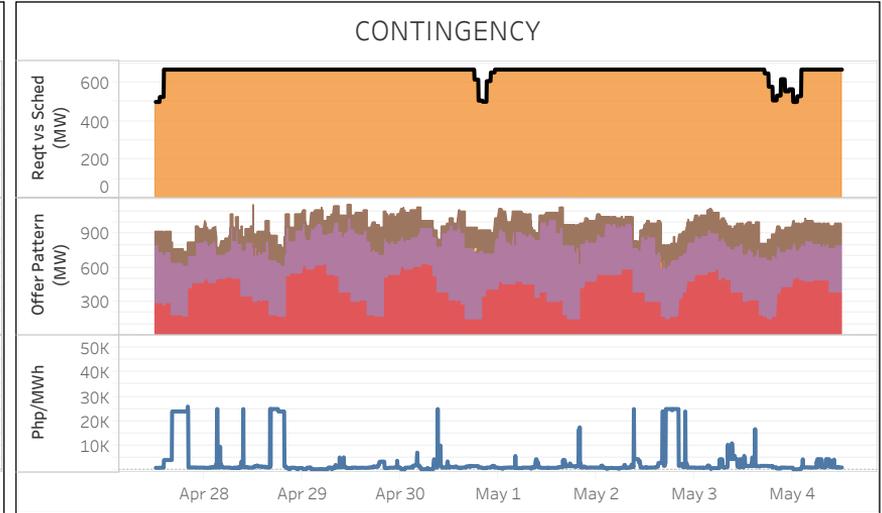
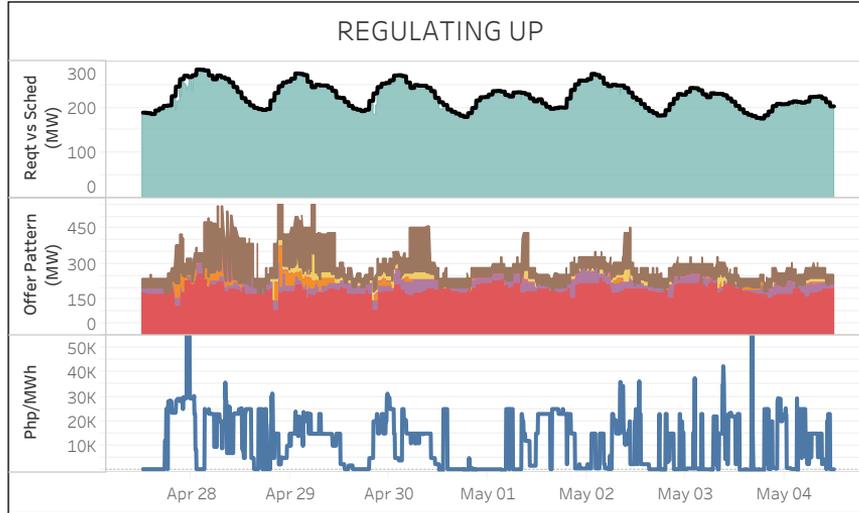


Mindanao



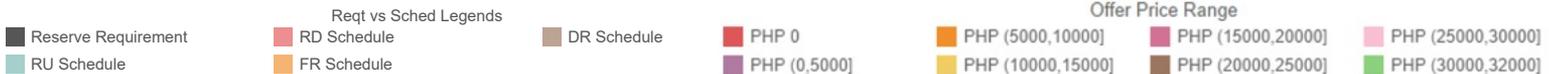
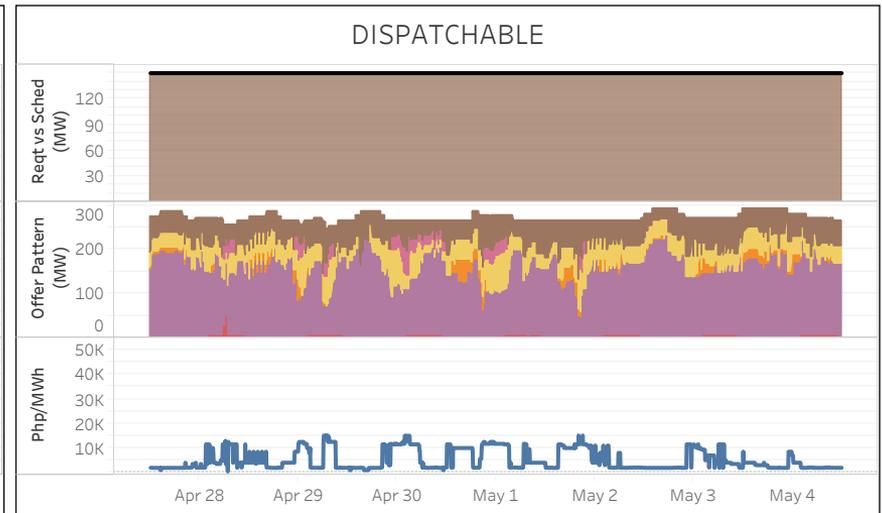
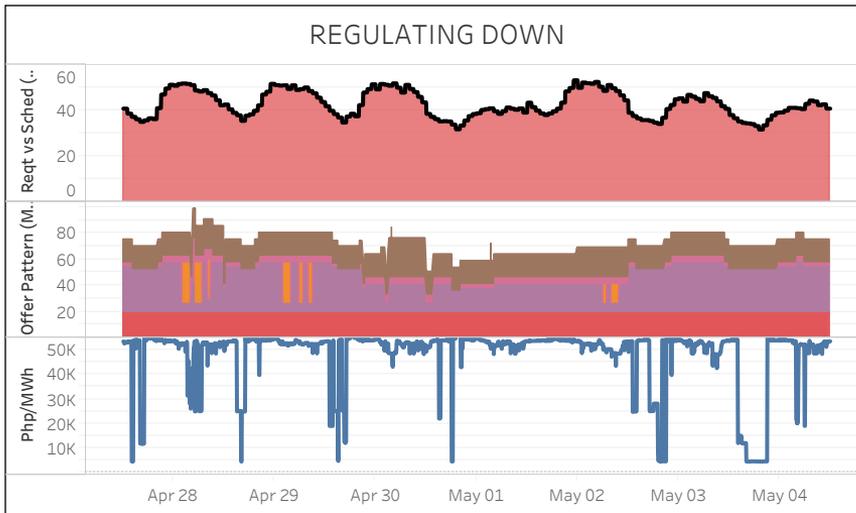
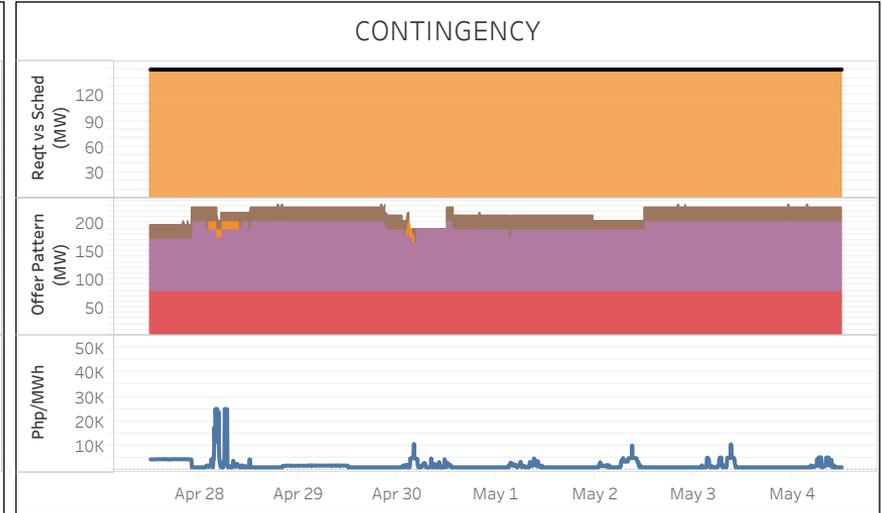
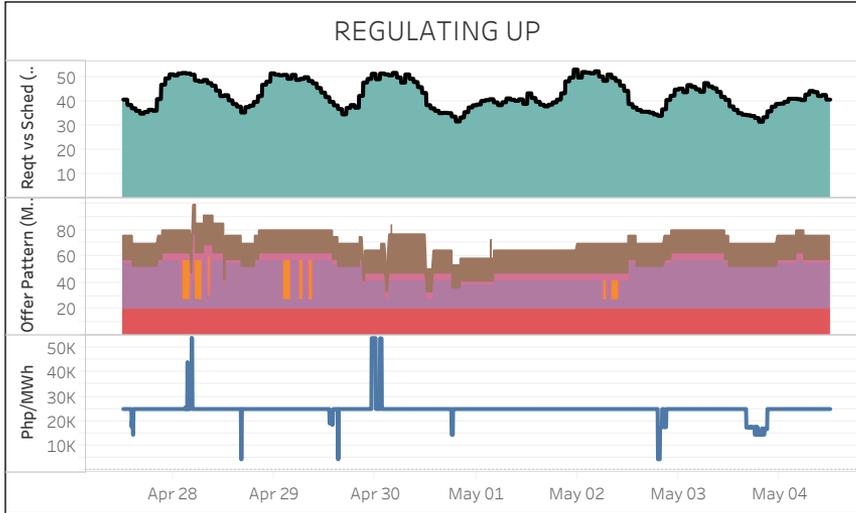
RESERVE MARKET DATA - LUZON

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



RESERVE MARKET DATA - VISAYAS

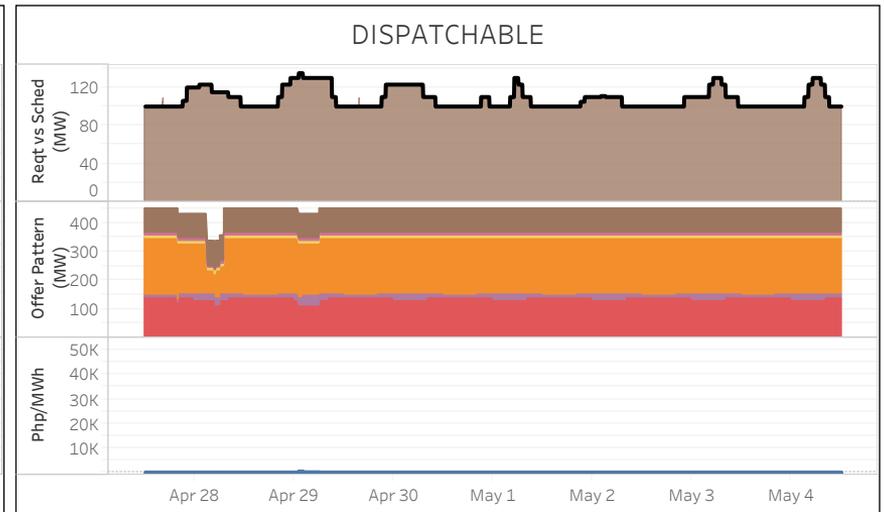
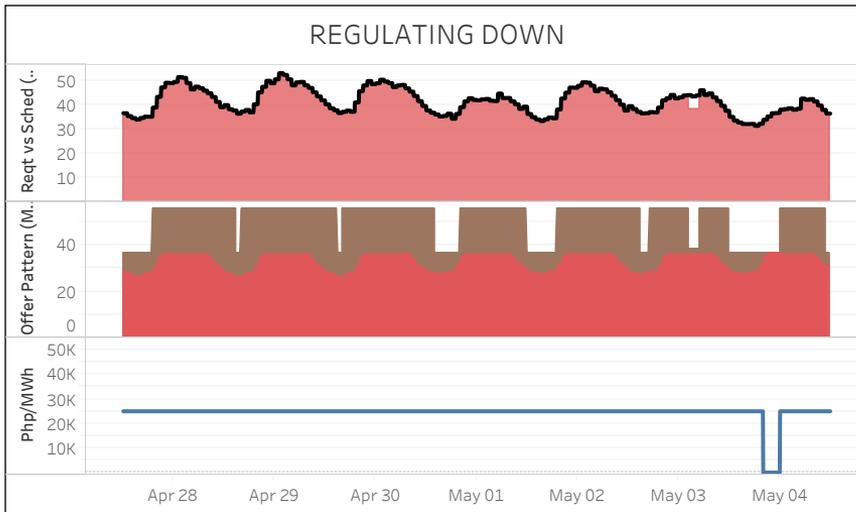
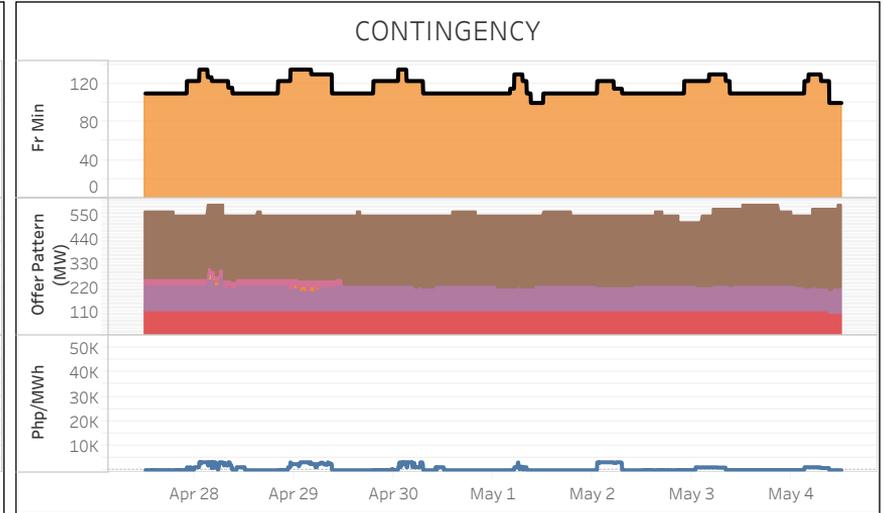
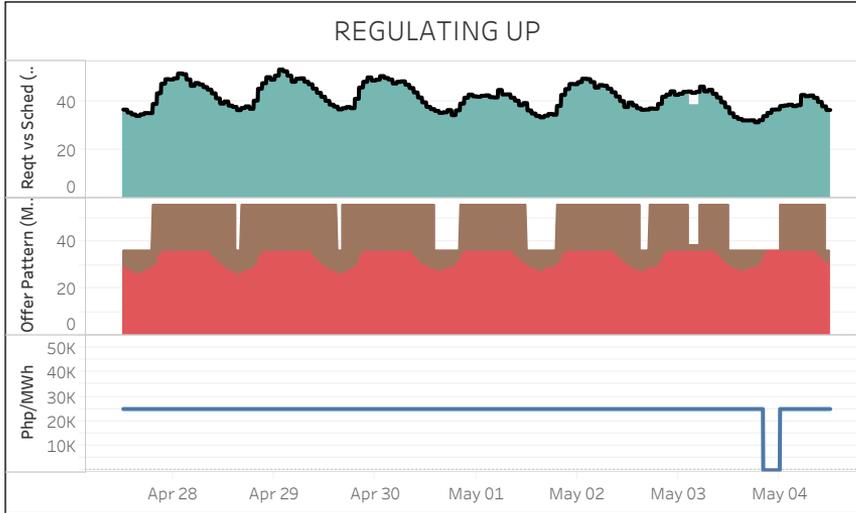
All reserve prices will be capped at price offer cap as per ERC NOR - Case No. 2023-002 RC - PDM Section 2.2.1.4





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
 - RU Schedule
 - RD Schedule
 - FR Schedule
 - DR Schedule
- Offer Price Range**
- PHP 0
 - PHP (0,5000]
 - PHP (5000,10000]
 - PHP (10000,15000]
 - PHP (15000,20000]
 - PHP (20000,25000]
 - PHP (25000,30000]
 - PHP (30000,32000]

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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