

MARKET ASSESSMENT HIGHLIGHTS
Demand, Supply, and Price

- The average weekly demand increased in all regions while the average weekly outage only decreased in Mindanao region.
- The exports from Luzon to Visayas occurred 24.20% of the time, while the flow from Mindanao to Visayas was observed for 100.00% of the time.
- The average weekly GWAPs increased by 66.81%, 57.09%, and 38.79% in Luzon, Visayas, and Mindanao regions, respectively.
- The weekly regulating up and down reserves in the Visayas region both showed shortfalls of up to 64% for 06 to 10 January.
- Regulation Up and Regulation Down prices decreased significantly in Luzon and Mindanao regions.

Energy Offer Pattern Analysis
Luzon

- Coal plants recorded less offered capacity compared to previous week due to outage.
- Geothermal plants recorded dips in nominated capacities on 07 January.
- Hydro plants decreased their offered capacities relative to last week. Decrease in the capacity offering between Php 25,000 and Php 30,000 was observed.
- Natural gas plants recorded a decrease in offered capacity due to outages on 08 January.
- Solar and Wind plants' lowest nomination were observed on 09 January and 06 January, respectively.

Visayas

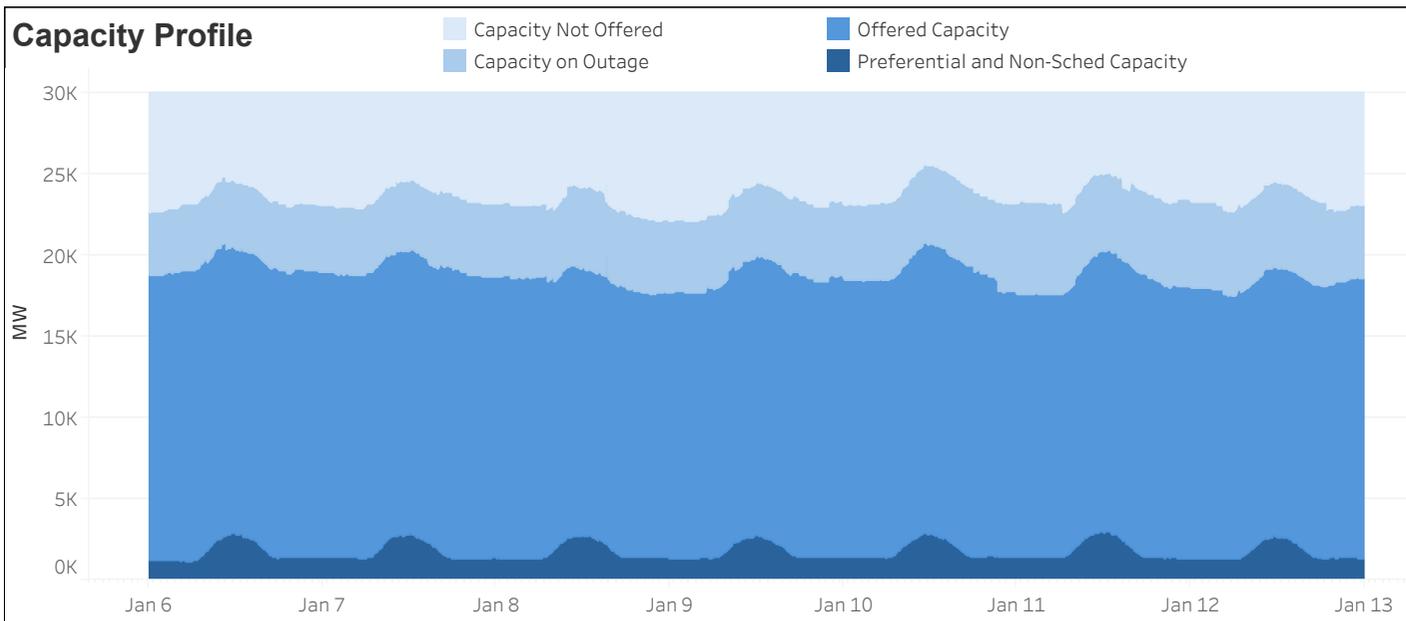
- Coal plants recorded a decrease in its offered capacity starting 11 January due to outage.
- Hydro plants recorded an increasing trend in nominated capacities throughout the week, followed by a sudden decrease at the end of the week due to outages.
- Oil plants recorded dips in offered capacities due to outages during the whole week.
- Solar plants' lowest daily peak nomination was observed on 08 January.
- Wind plants had higher nominated capacities compared to the previous week.

Mindanao

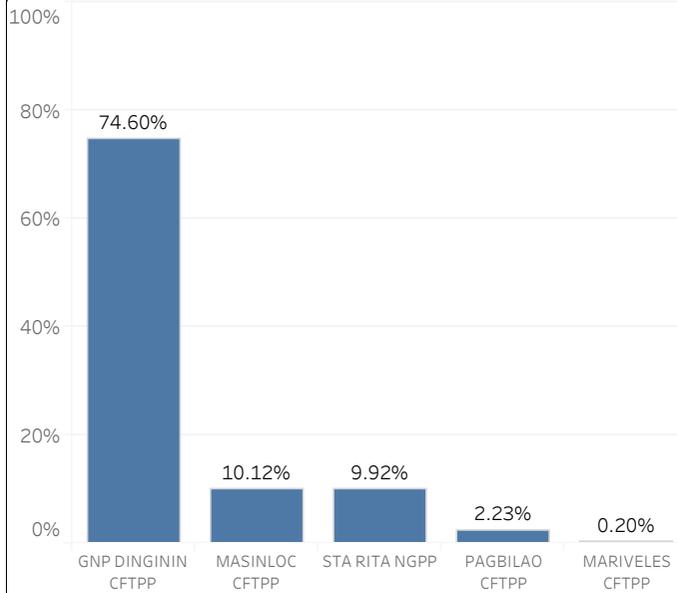
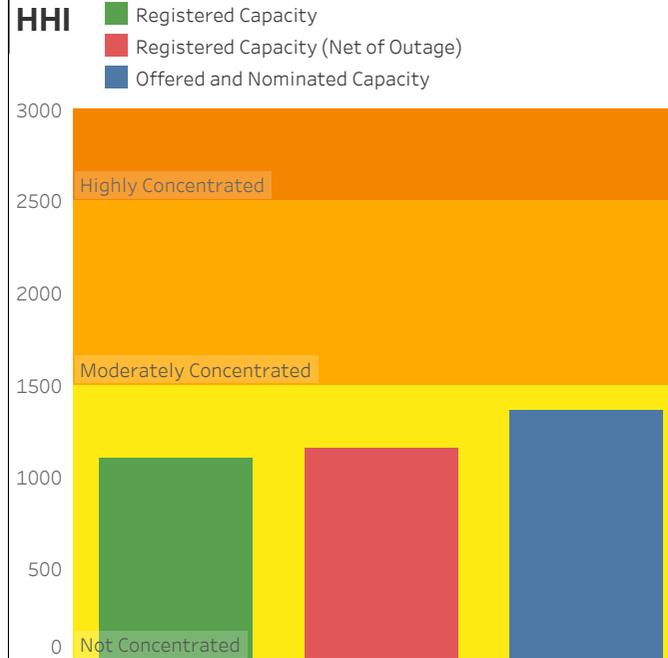
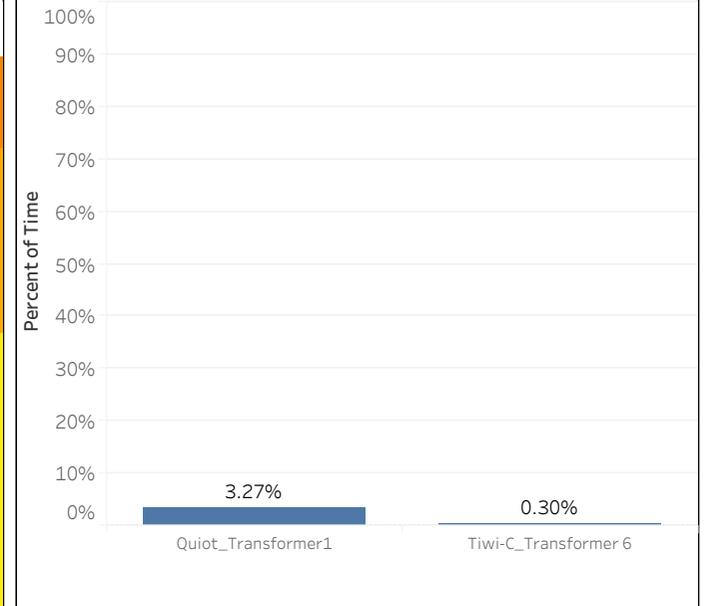
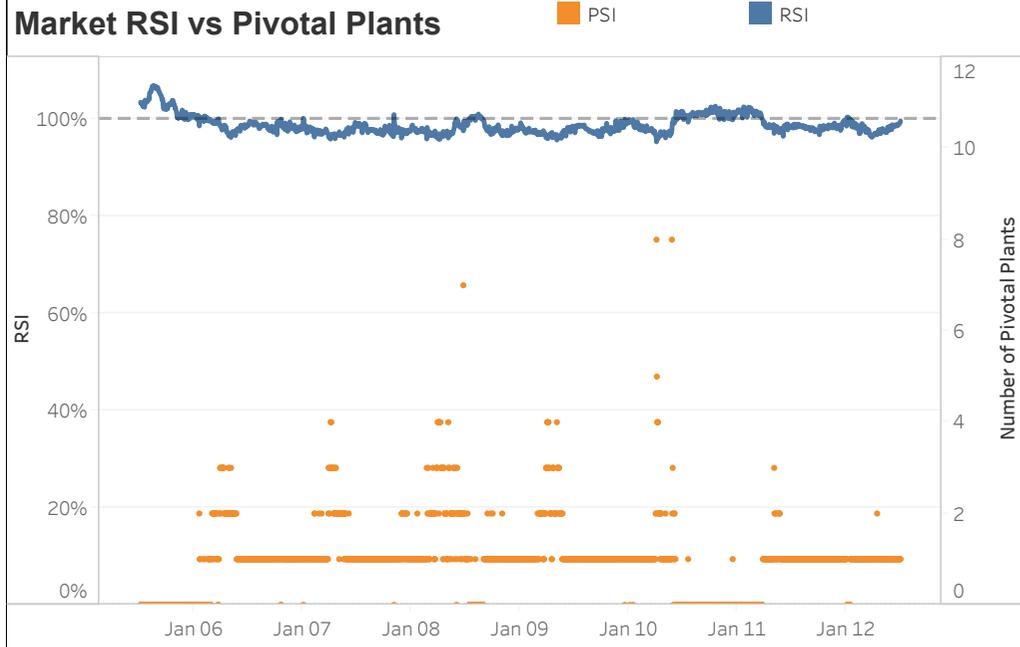
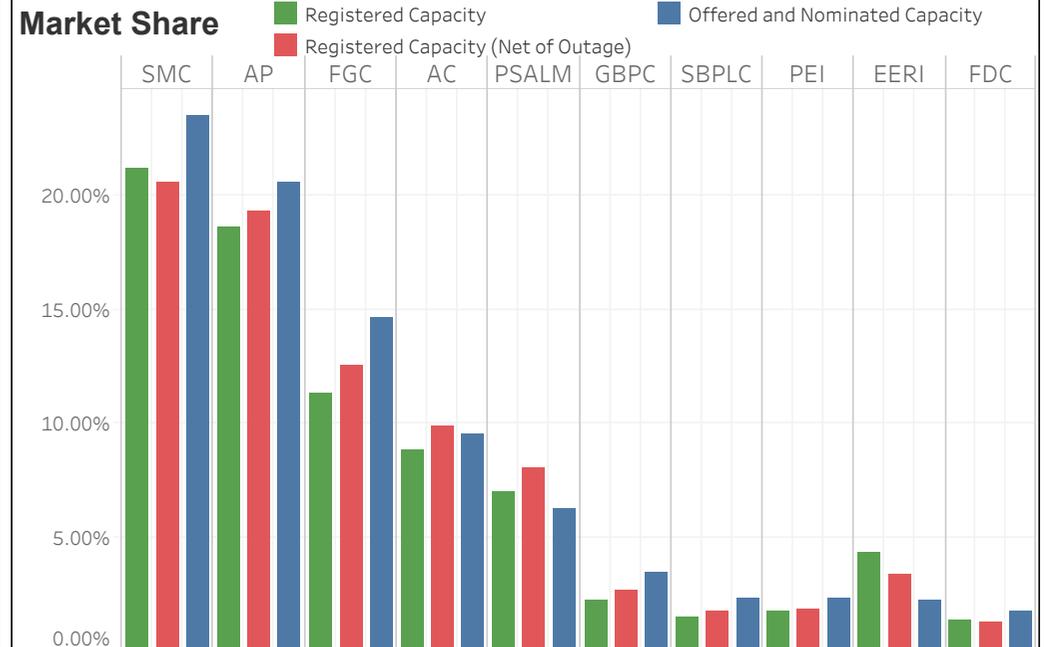
- Geothermal plants had decrease in offered capacity due to outage starting 10 January.
- Dips in Hydro plants' offered capacity is due to outage on 07 and 10 January.

Market Systems Advisory

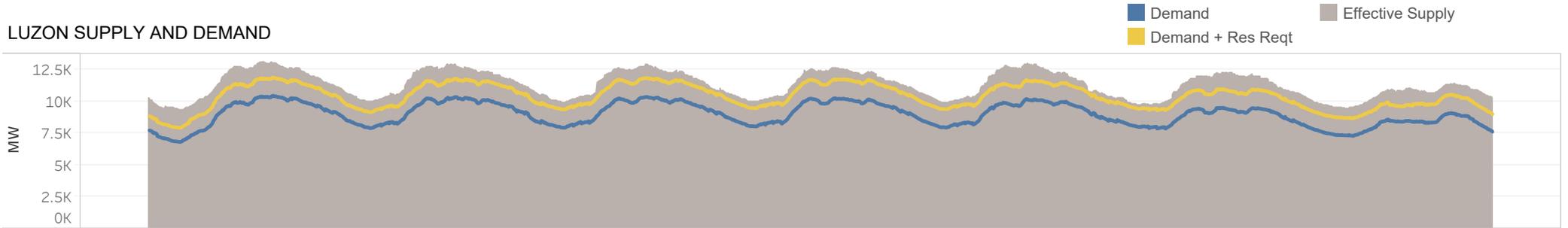
- No IT-related issue in IEMOP's Market Systems was reported from 06 to 12 January 2025.


SUMMARY OF AVERAGE VALUES

Particulars	06 - 12 Jan 2025	30 Dec 2024 - 05 Jan 2025	% Change
GWAP (Php/MWh)			
System	3,301	2,060	60.26%
Luzon	3,410	2,044	66.81%
Visayas	3,368	2,144	57.09%
Mindanao	2,867	2,066	38.79%
EFFECTIVE SUPPLY (MW)			
Luzon	11,226	10,792	4.02%
Visayas	2,186	2,155	1.44%
Mindanao	3,363	3,081	9.16%
DEMAND (MW)			
Luzon	8,986	8,138	10.42%
Visayas	1,866	1,757	6.21%
Mindanao	1,978	1,818	8.81%
OUTAGE (MW)			
Luzon	3,903	3,320	17.55%
Visayas	492	404	21.83%
Mindanao	291	365	-20.14%
RU PRICE (PHP/MWh)			
Luzon	3,863	6,002	-35.65%
Visayas	19,385	19,279	0.55%
Mindanao	4,729	16,601	-71.51%
RD PRICE (PHP/MWh)			
Luzon	3,085	6,585	-53.15%
Visayas	33,467	35,931	-6.86%
Mindanao	4,705	16,757	-71.92%
FR PRICE (PHP/MWh)			
Luzon	1,900	1,064	78.51%
Visayas	22,093	24,220	-8.78%
Mindanao	529	277	91.46%
DR PRICE (PHP/MWh)			
Luzon	629	273	130.17%
Visayas	1,465	2,684	-45.40%
Mindanao	0	0	

Top 5 Pivotal Plants

HHI

RTD Congestion

Market RSI vs Pivotal Plants

Market Share


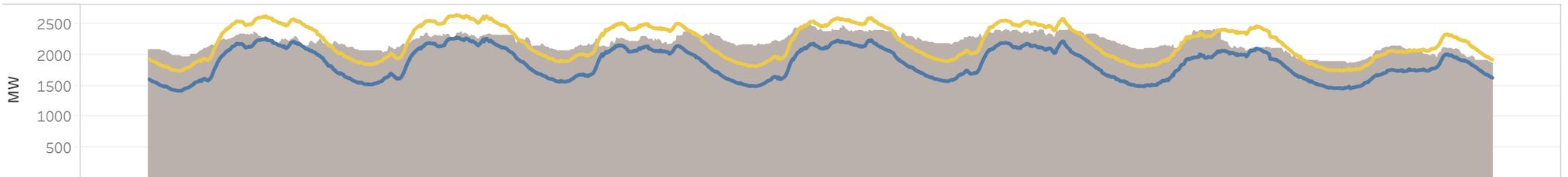
LUZON SUPPLY AND DEMAND



HVDC FLOW (BETWEEN LUZON AND VISAYAS)



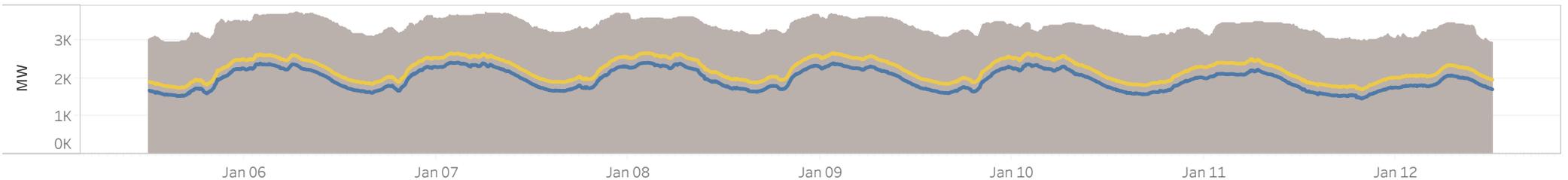
VISAYAS SUPPLY AND DEMAND



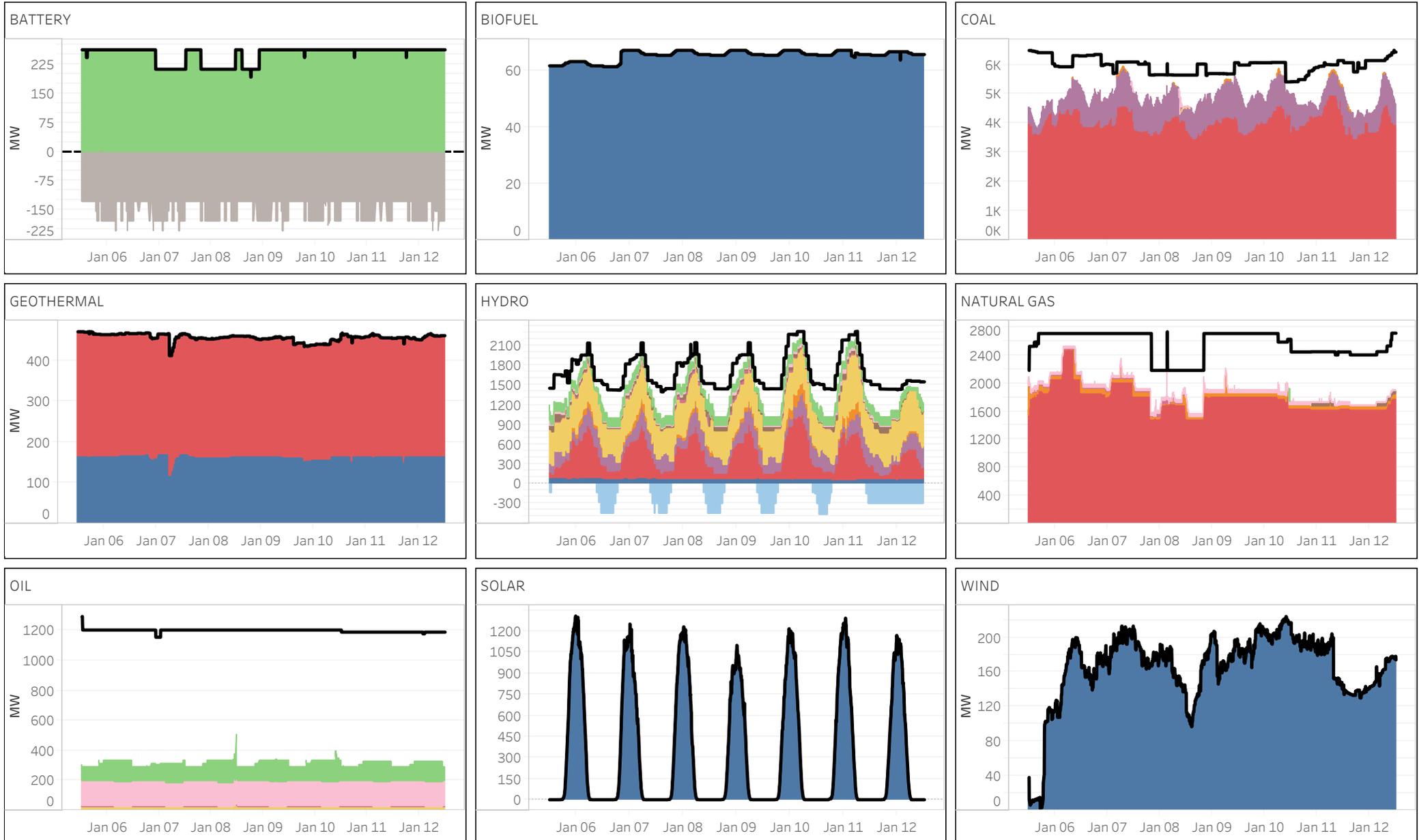
HVDC FLOW (BETWEEN VISAYAS AND MINDANAO)



MINDANAO SUPPLY AND DEMAND

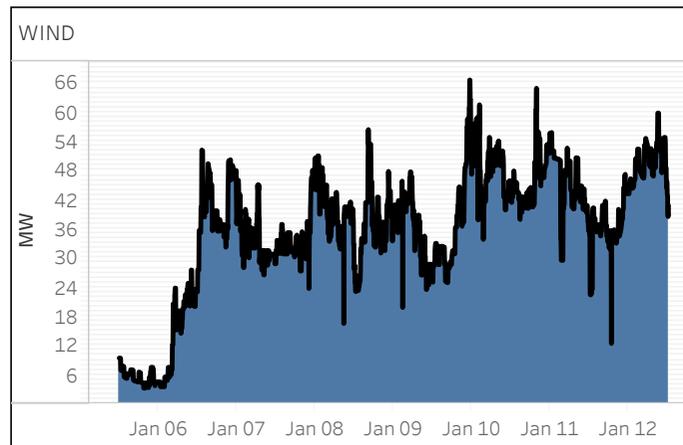
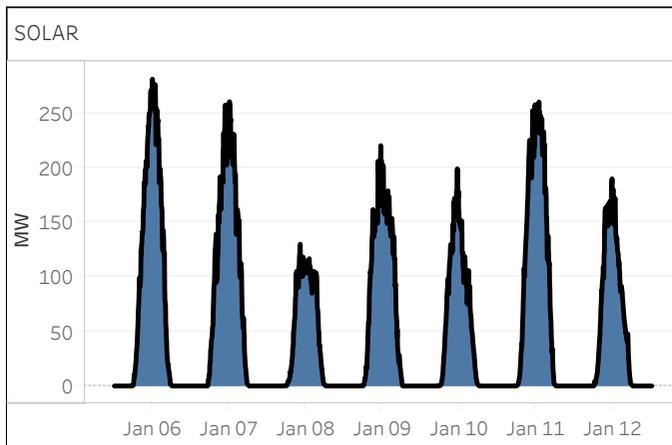
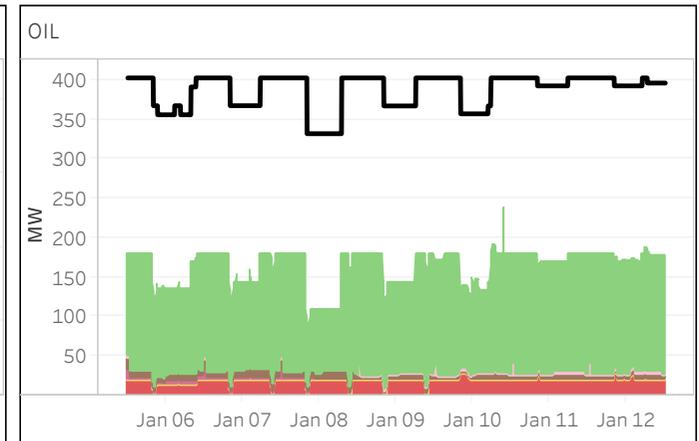
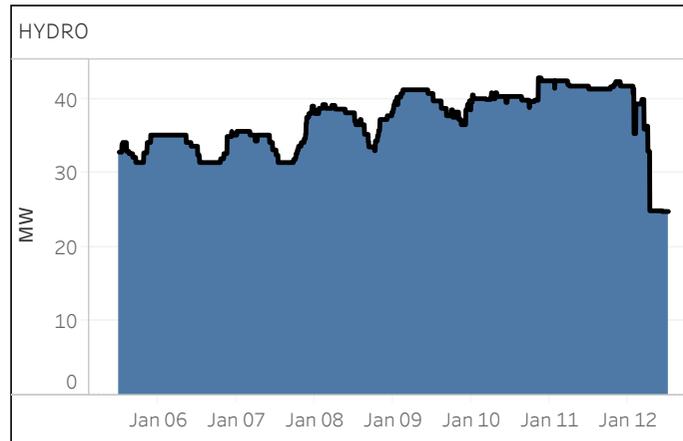
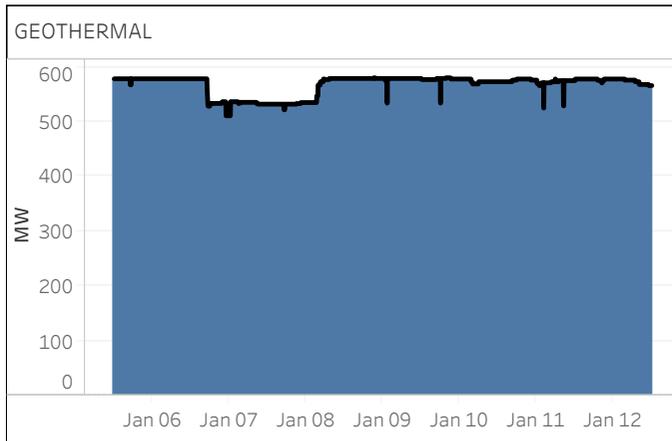
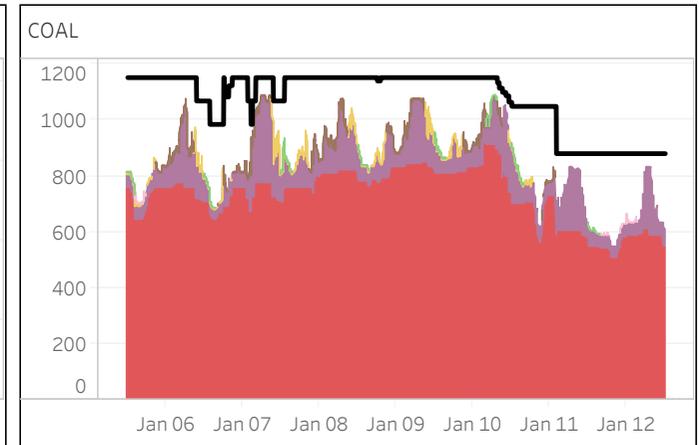
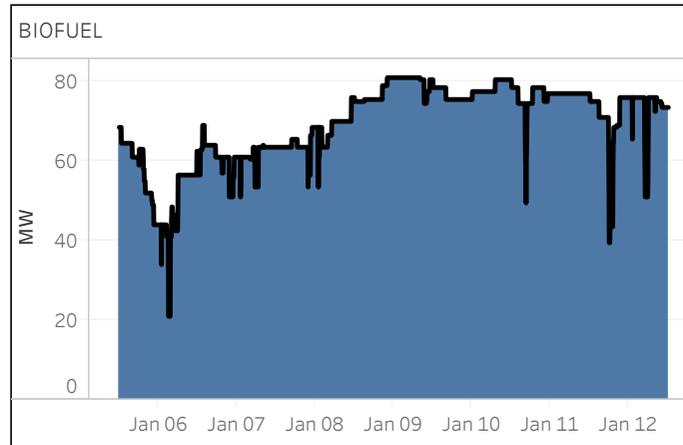
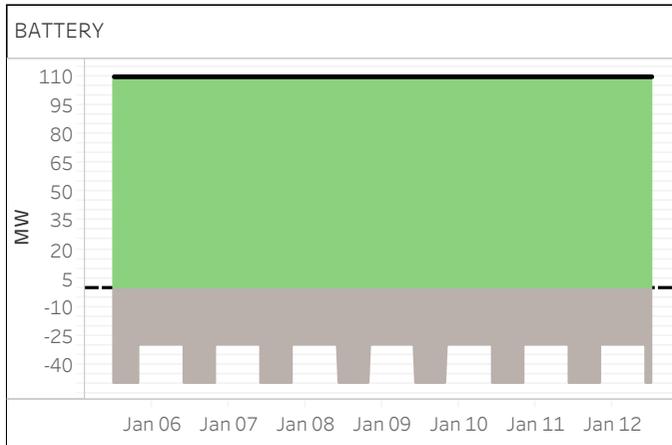


The charts show the aggregated supply and demand in each region and the scheduled power flow from/to a particular region via HVDC links.

ENERGY OFFER PATTERN - LUZON


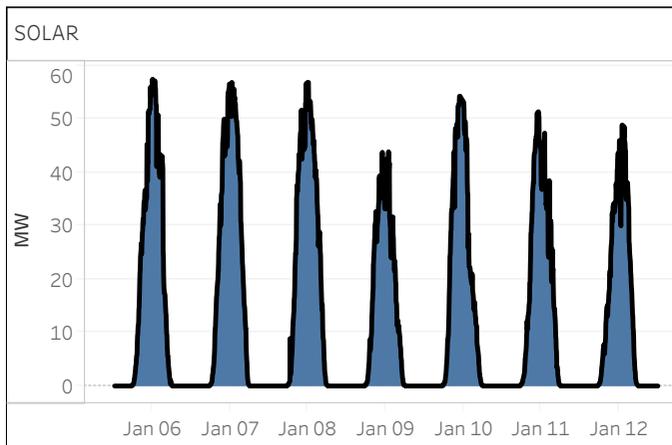
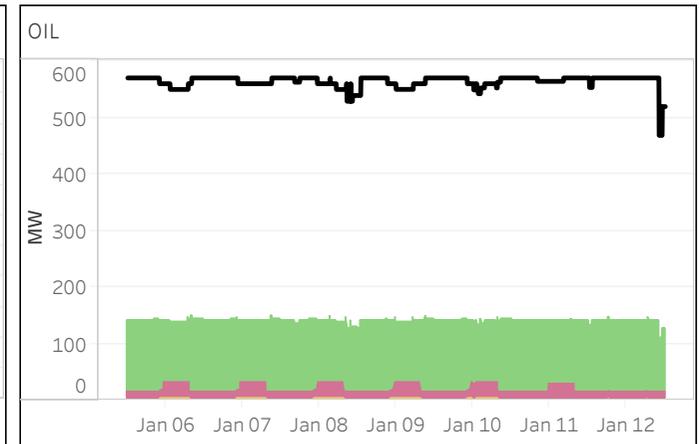
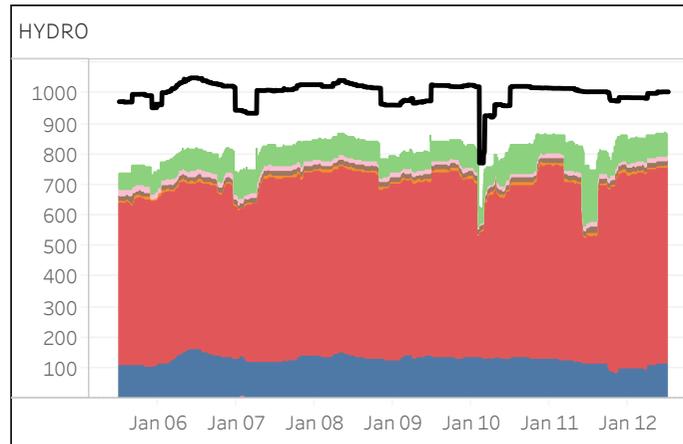
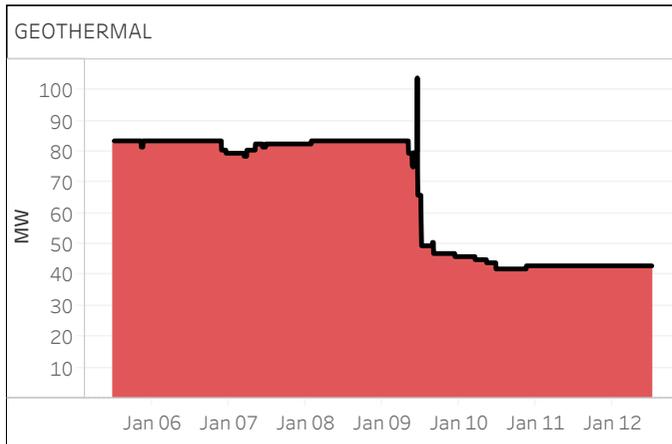
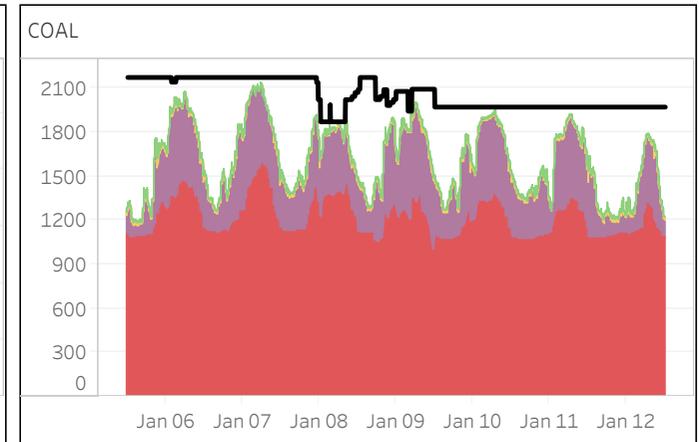
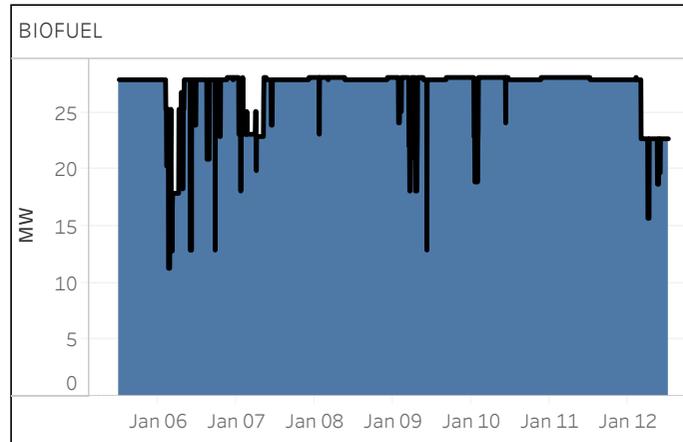
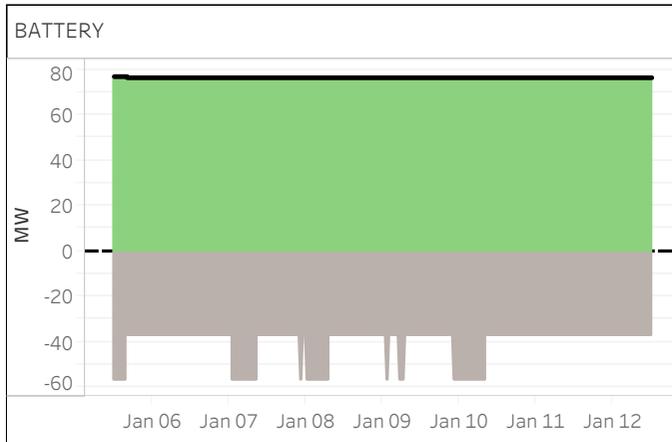
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y. 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - VISAYAS



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.

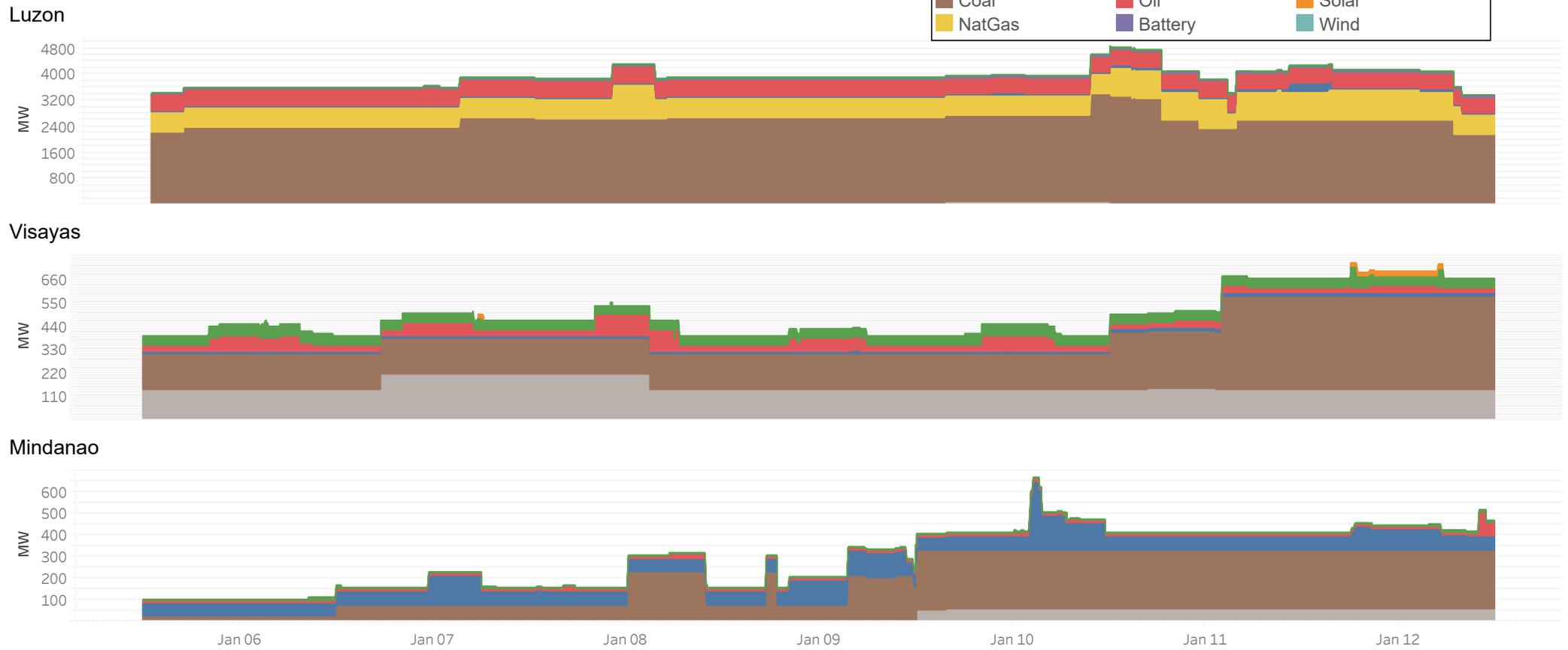
ENERGY OFFER PATTERN - MINDANAO



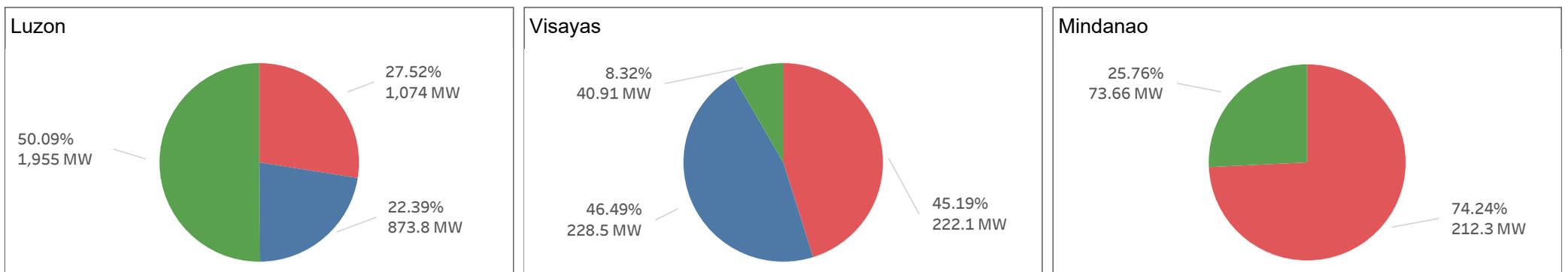
NOTES:

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

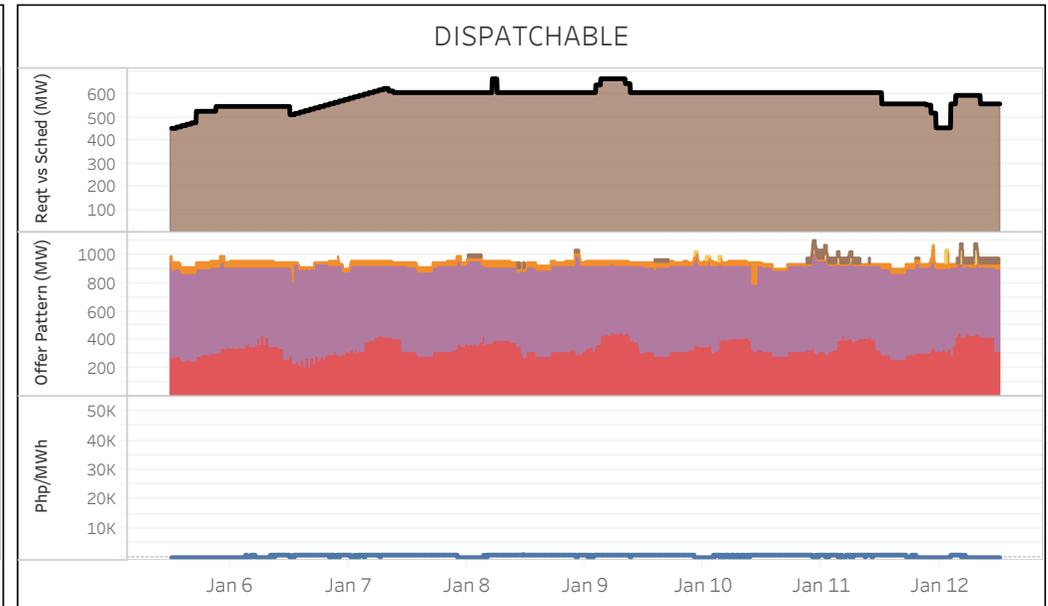
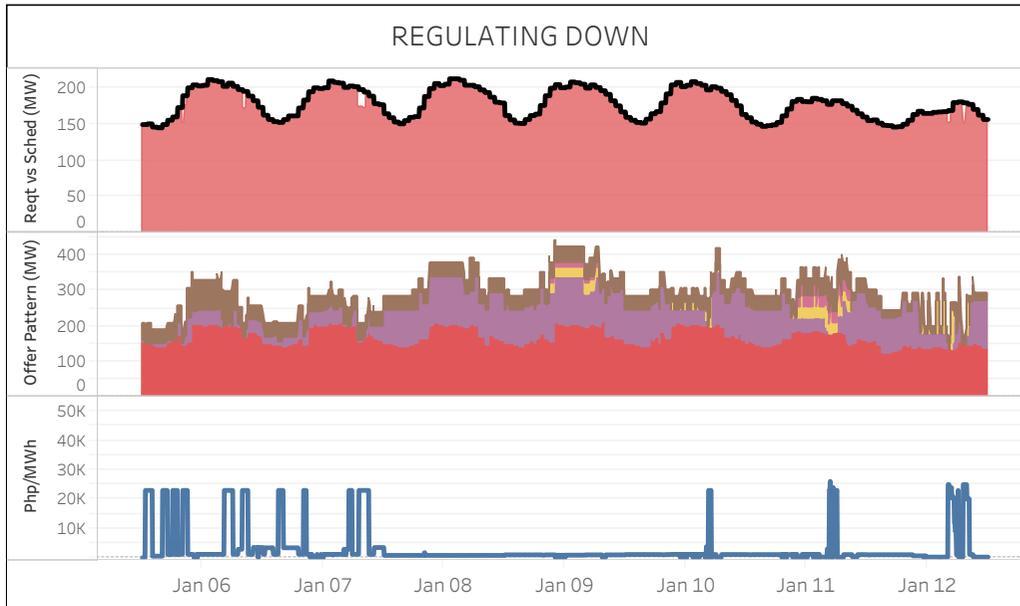
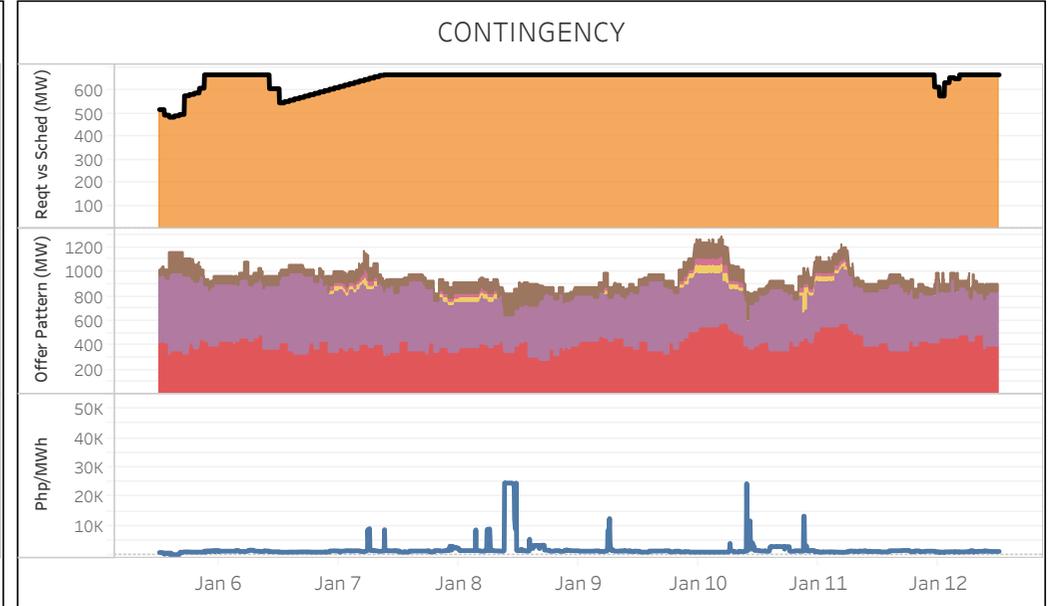
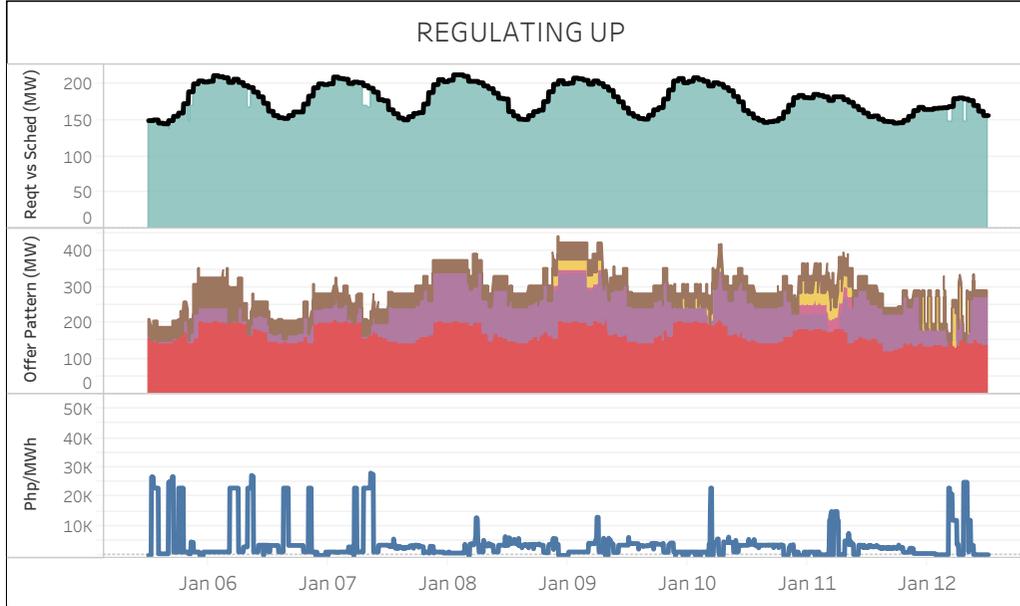


CAPACITIES ON OUTAGE PER CATEGORY



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

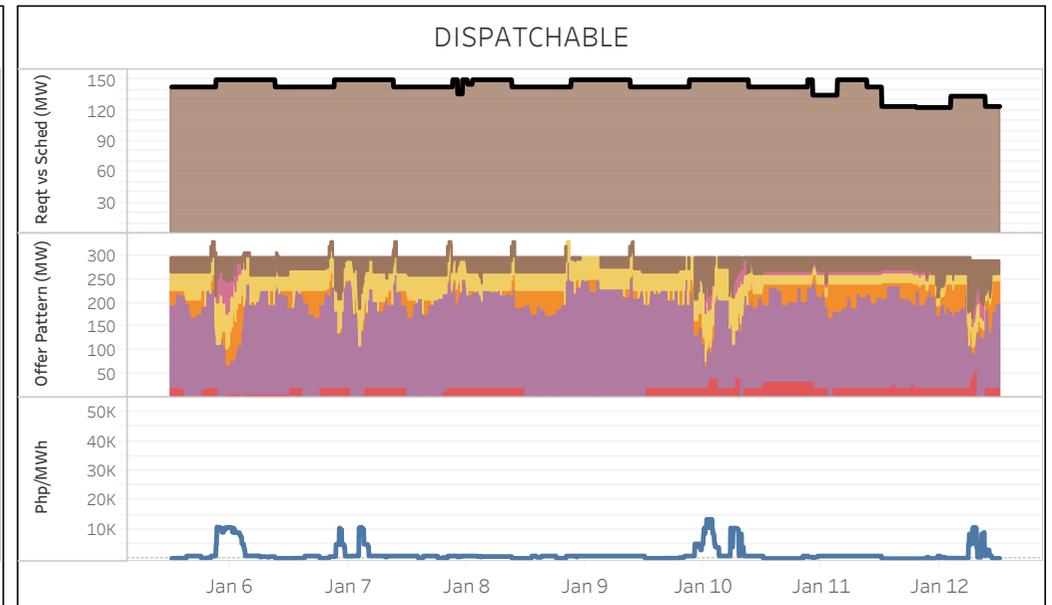
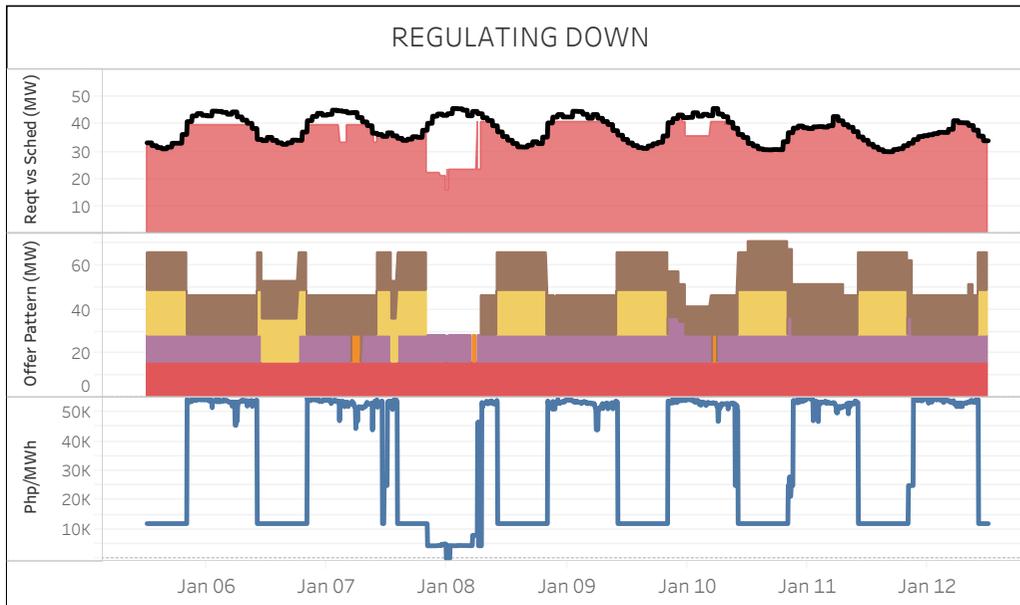
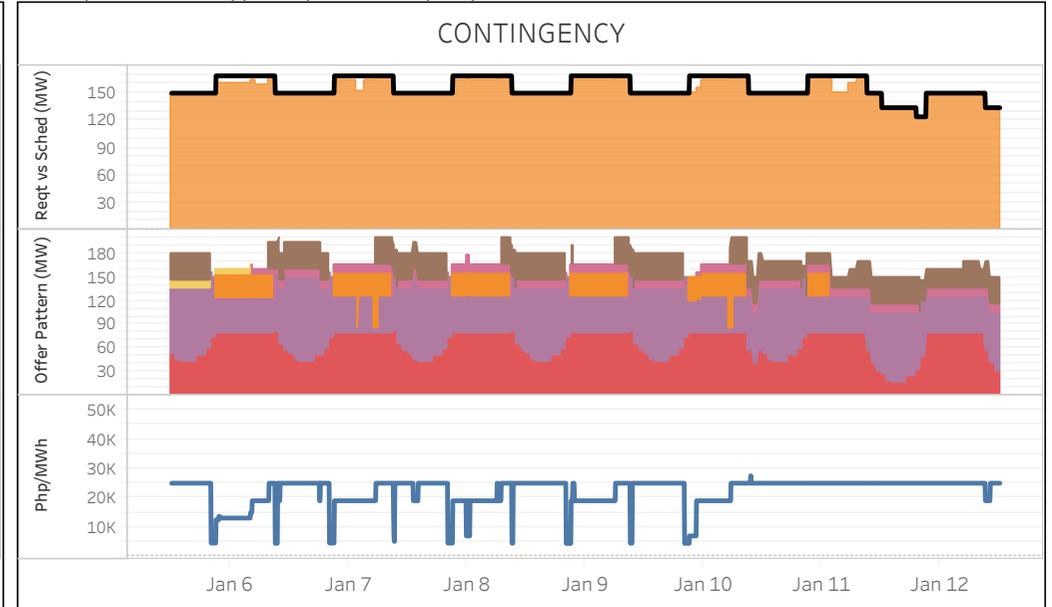
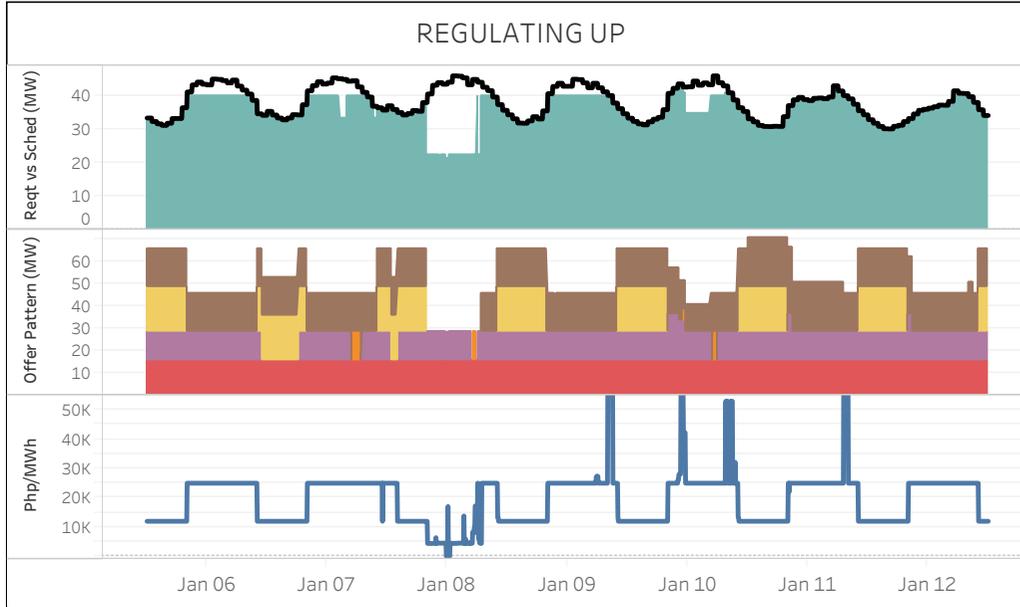
- Reserve Requirement
- RU Schedule
- RD Schedule
- FR Schedule
- DR Schedule

Offer Price Range

- PHP 0 and below
- PHP (0,5000]
- PHP (5000,10000]
- PHP (10000,15000]
- PHP (15000,20000]
- PHP (20000,25000]
- PHP (25000,30000]
- PHP (30000,32000]

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



Reqt vs Sched Legends

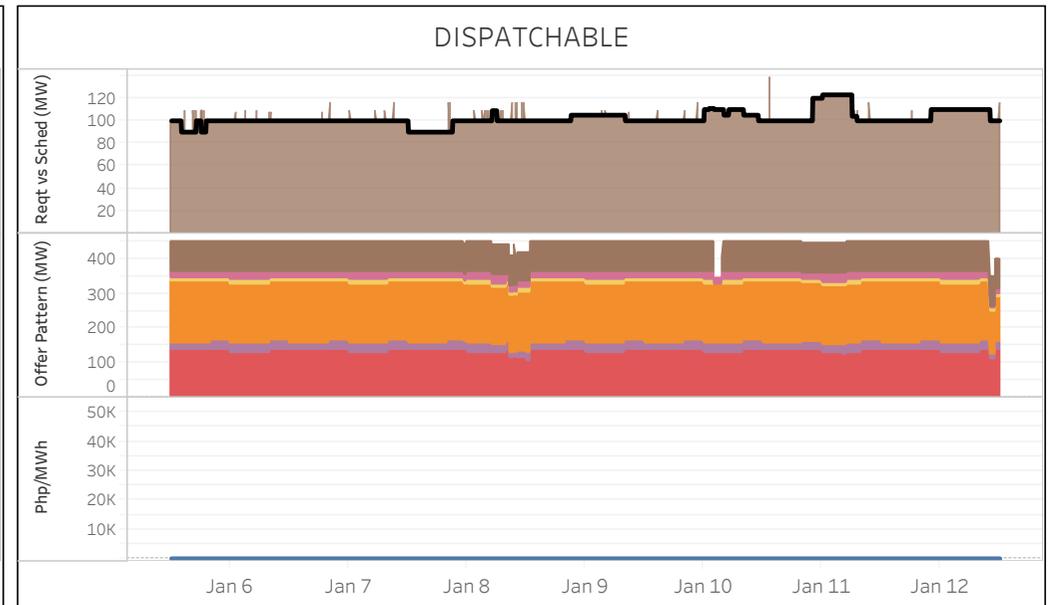
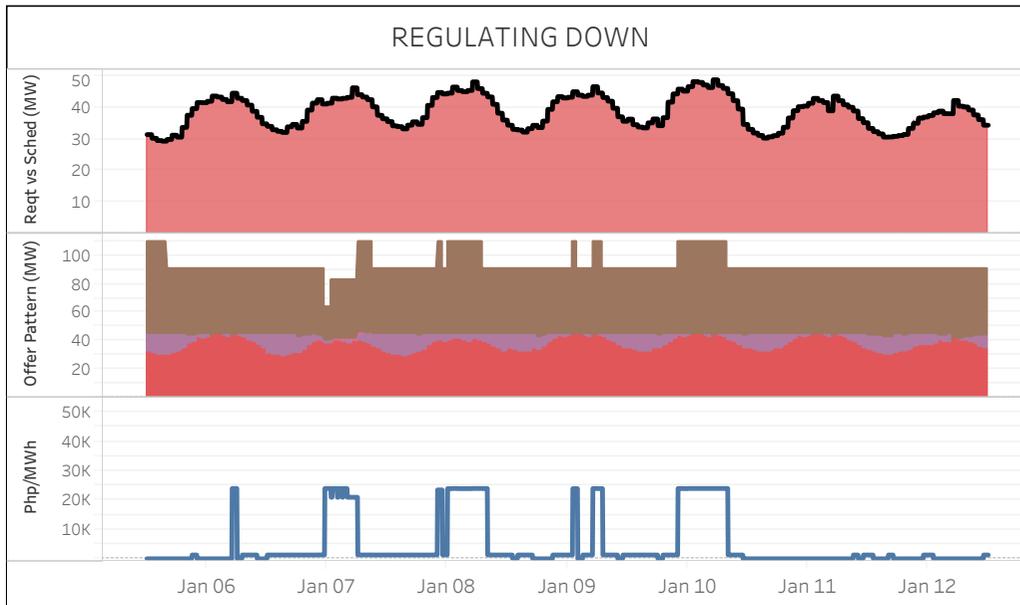
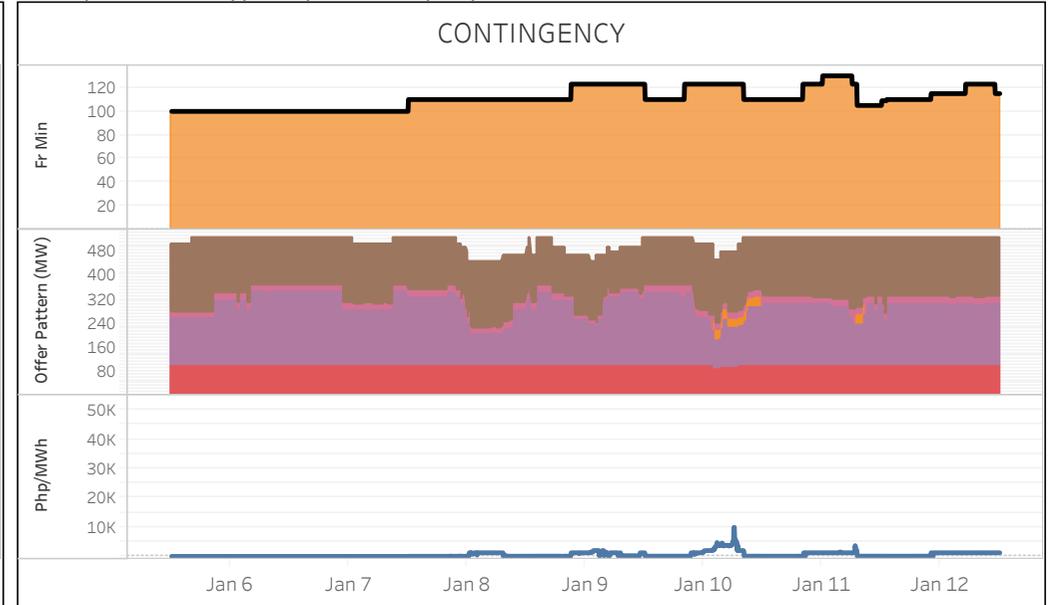
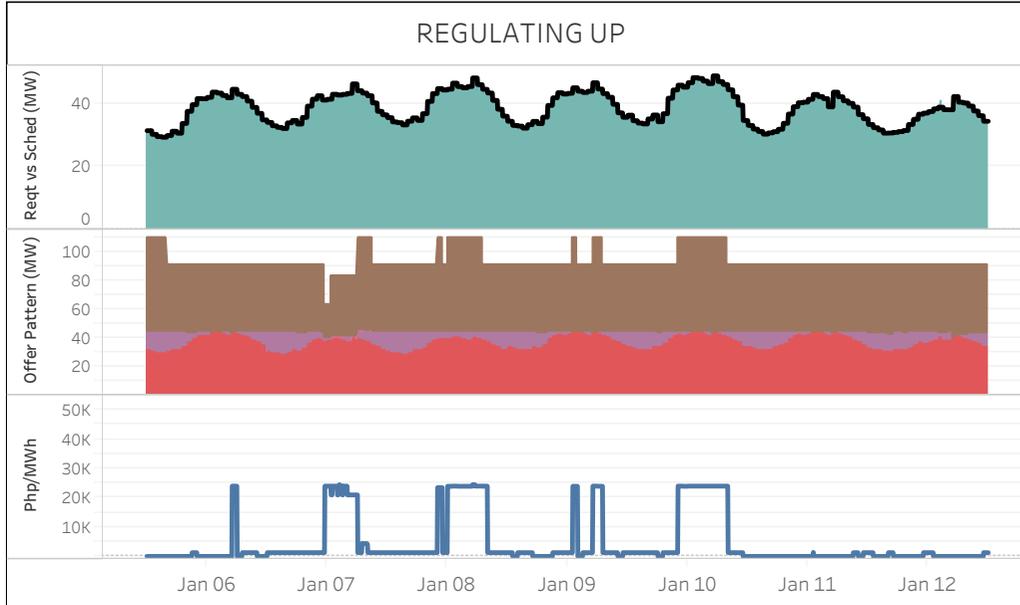
- Reserve Requirement
- RD Schedule
- DR Schedule
- RU Schedule
- FR Schedule

Offer Price Range

- PHP 0 and below
- PHP (5000,10000]
- PHP (15000,20000]
- PHP (25000,30000]
- PHP (0,5000]
- PHP (10000,15000]
- PHP (20000,25000]
- PHP (30000,32000]

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 and below
- PHP (5000,10000]
- PHP (15000,20000]
- PHP (25000,30000]
- PHP (0,5000]
- PHP (10000,15000]
- PHP (20000,25000]
- 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.
- Maintenance* - 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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