

MARKET ASSESSMENT HIGHLIGHTS

Demand, Supply, and Price

- The average weekly demand decreased across all regions.
- The average weekly capacity on outage decreased in the Luzon and Visayas regions, while it increased in the Mindanao region.
- Imports from Luzon to Visayas occurred 46.63% of the time, while the flow from Mindanao to Visayas was observed for 97.87% of the time.
- The average weekly GWAP decreased by 37.32%, 43.68%, and 4.39% in the Luzon, Visayas, and Mindanao regions, respectively.
- There is a presence of a pivotal supplier for 16.82% of the time.

Energy Offer Pattern Analysis

- Luzon**
- Biofuel plants showed a decreasing trend in nominated capacities due to outages.
 - Coal plants recorded an increasing trend in offered capacities throughout the week.
 - Geothermal and Natural gas plants experienced dips in nominated and offered capacities, respectively, due to an outage on 28 January.
 - Kalayaan PSPP recorded a decreasing pumping nomination toward the weekend.
 - Oil plants recorded dips in offered capacities due to outages on 31 January and 01 February.
 - Solar and Wind plants' lowest daily peak nominations were observed on 31 January and 02 February, respectively.

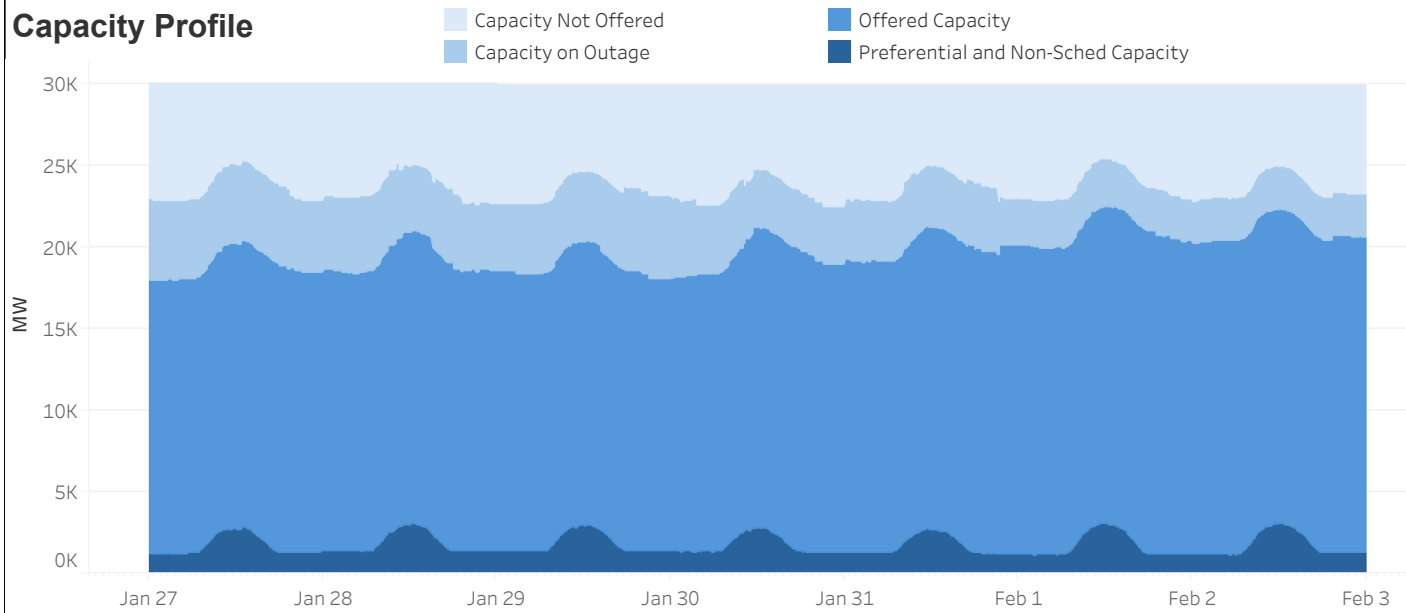
- Visayas**
- Biofuel plants recorded dips in nominated capacities due to outages on 27, 29, and 30 January.
 - Coal plants recorded a decrease in offered capacities due to an outage on 01 February.
 - Hydro plants recorded dips in nominated capacities throughout the week.
 - Solar and Wind plants' lowest daily peak nominations were observed on 27 January and 02 February, respectively.

- Mindanao**
- Biofuel plants recorded dips in nominated capacities due to outages on 27 and 30 January.
 - Coal plants recorded a decreasing trend in offered capacities due to outages for 28 and 29 January.
 - Geothermal plants recorded dips in offered capacities due to an outage on 27 January.
 - Hydro plants recorded an increasing trend in offered capacities throughout the week.

Market Systems Advisory

- No IT-related issue in IEMOP's Market Systems was reported from 27 January to 02 February 2025.

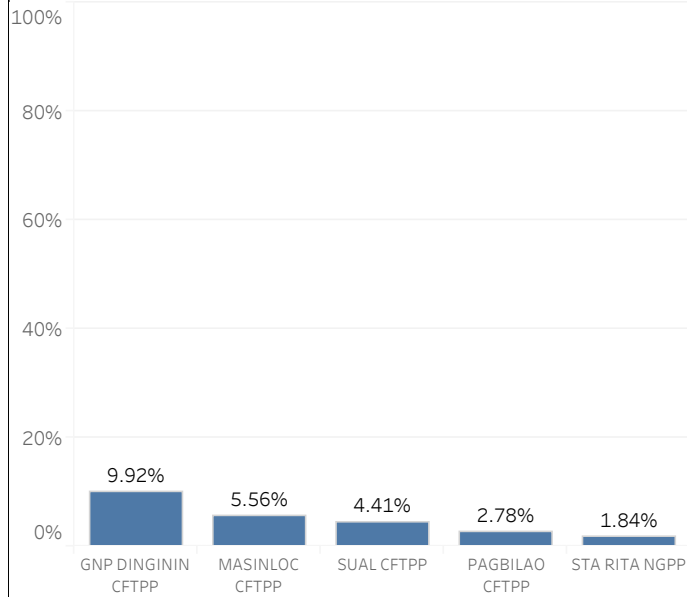
Capacity Profile



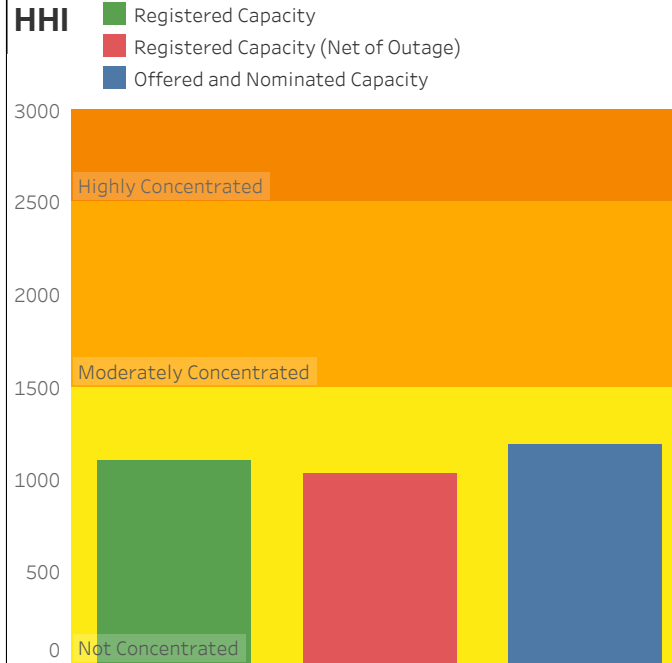
SUMMARY OF AVERAGE VALUES

Particulars	27 Jan - 02 Feb 2025	20 - 26 Jan 2025	% Change
GENERATOR WEIGHTED AVERAGE PRICE (Php/MWh)			
System	2,445	3,726	-34.39%
Luzon	2,400	3,829	-37.32%
Visayas	2,471	4,387	-43.68%
Mindanao	2,604	2,724	-4.39%
EFFECTIVE SUPPLY (MW)			
Luzon	11,342	11,901	-4.70%
Visayas	2,200	2,283	-3.65%
Mindanao	3,070	3,198	-4.00%
DEMAND (MW)			
Luzon	8,894	9,586	-7.22%
Visayas	1,872	1,942	-3.59%
Mindanao	1,915	2,014	-4.95%
OUTAGE (MW)			
Luzon	2,882	3,134	-8.05%
Visayas	455	478	-4.68%
Mindanao	494	409	20.66%
REGULATING UP PRICE (Php/MWh)			
Luzon	8,964	8,304	7.95%
Visayas	21,377	23,739	-9.95%
Mindanao	2,231	7,386	-69.80%
REGULATING DOWN PRICE (Php/MWh)			
Luzon	10,038	7,990	25.63%
Visayas	41,572	40,744	2.03%
Mindanao	1,879	8,040	-76.63%
CONTINGENCY RESERVE PRICE (Php/MWh)			
Luzon	1,822	1,736	4.95%
Visayas	12,470	12,102	3.04%
Mindanao	982	555	77.09%
DISPATCHABLE RESERVE PRICE (Php/MWh)			
Luzon	74	188	-60.66%
Visayas	2,183	2,200	-0.78%
Mindanao	0	0	-100.00%

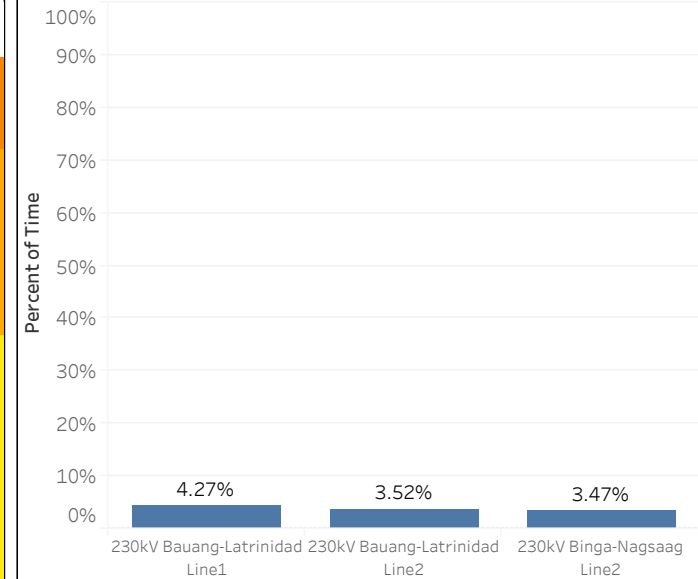
Top 5 Pivotal Plants



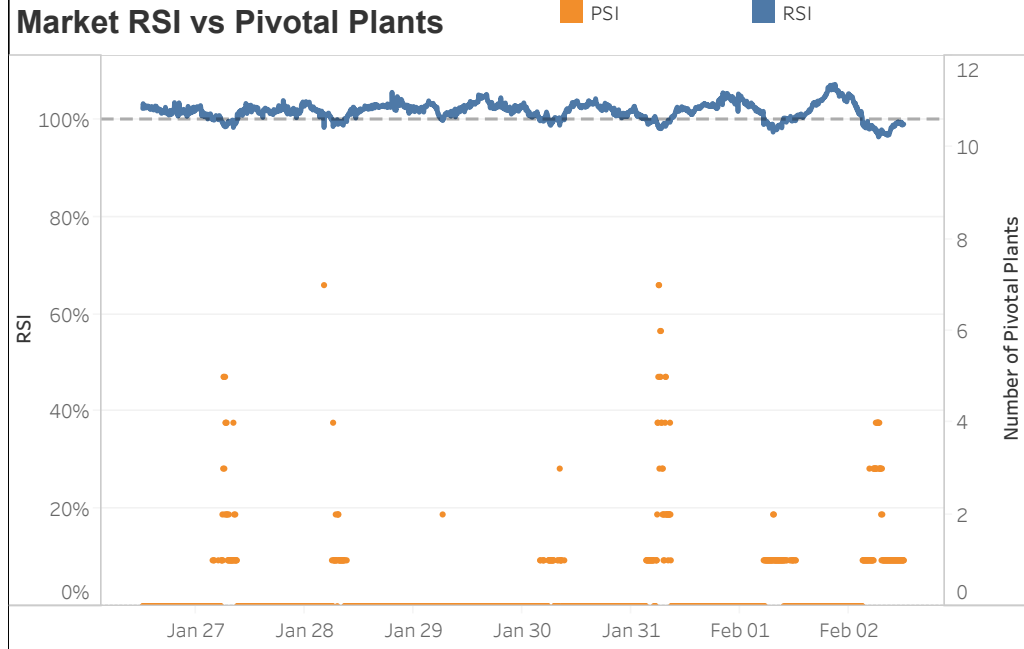
HHI



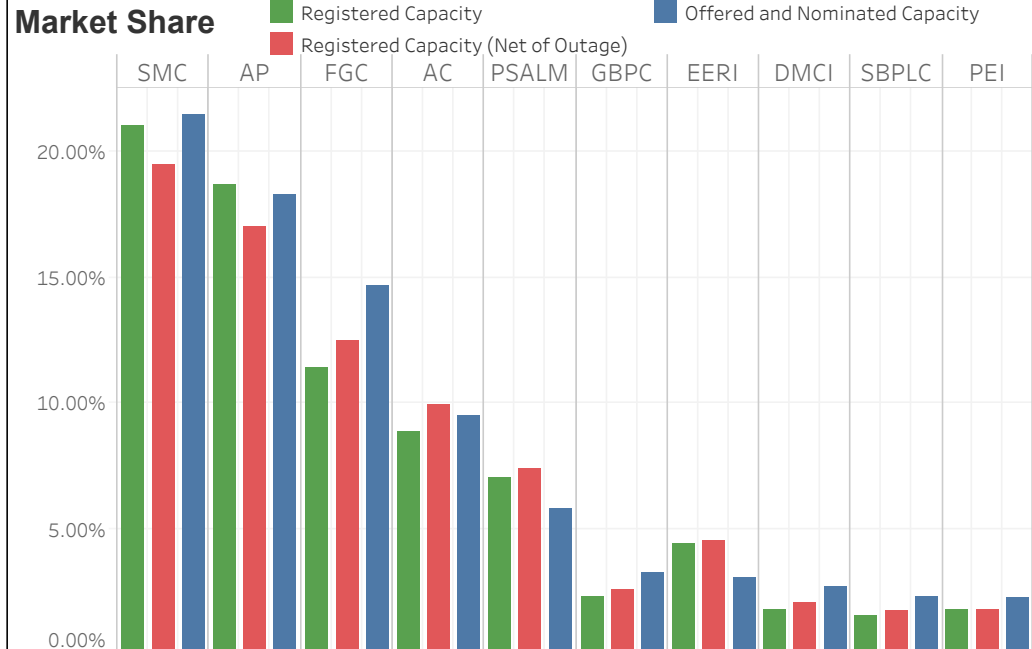
RTD Congestion



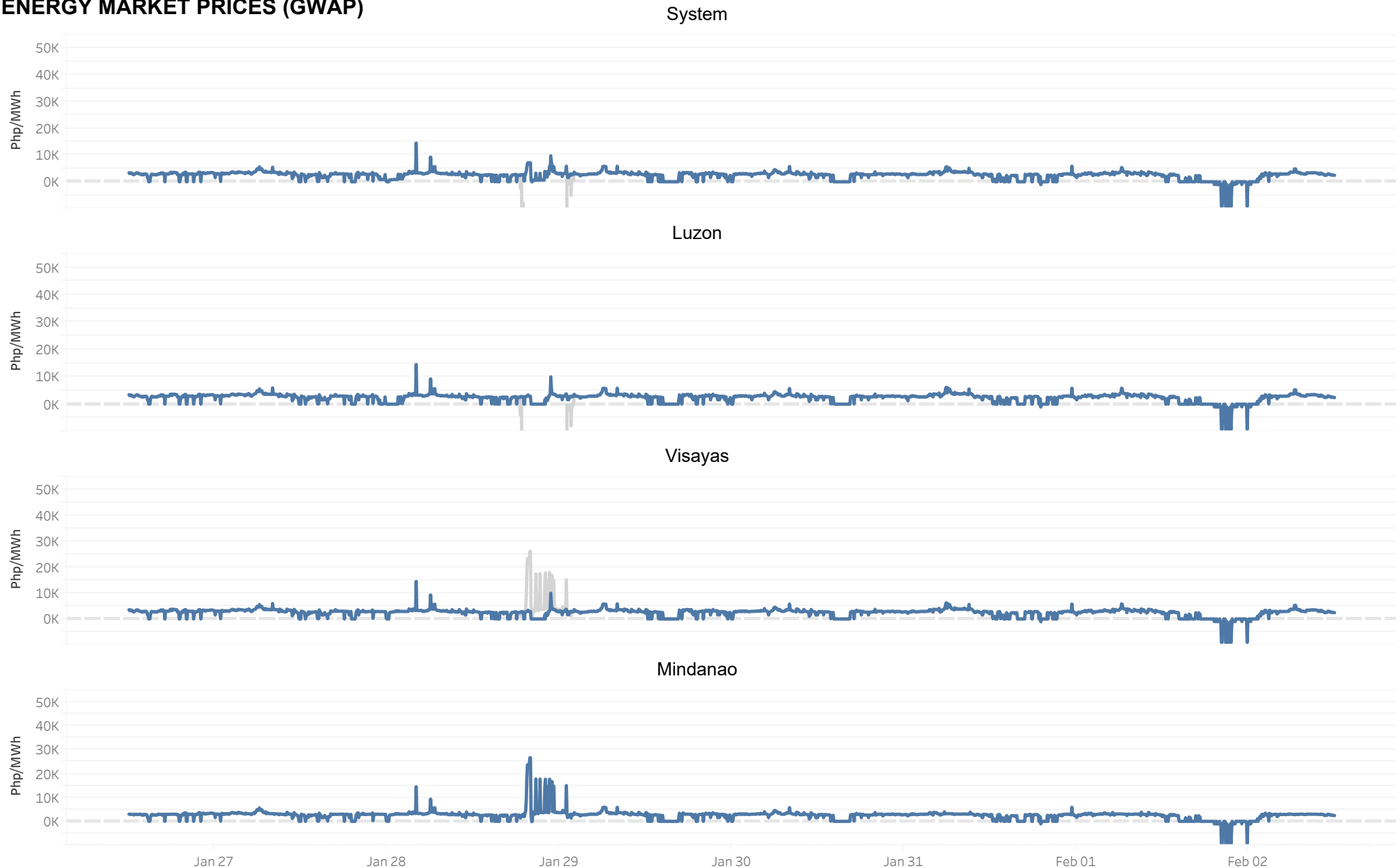
Market RSI vs Pivotal Plants



Market Share



ENERGY MARKET PRICES (GWAP)

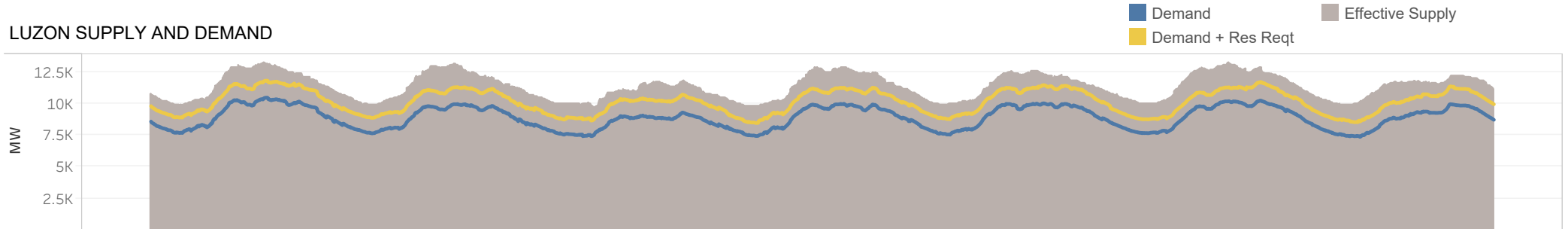


The charts show the market prices by region based on generator weighted average price (GWAP). Prices are subject to the finalization of settlement data.

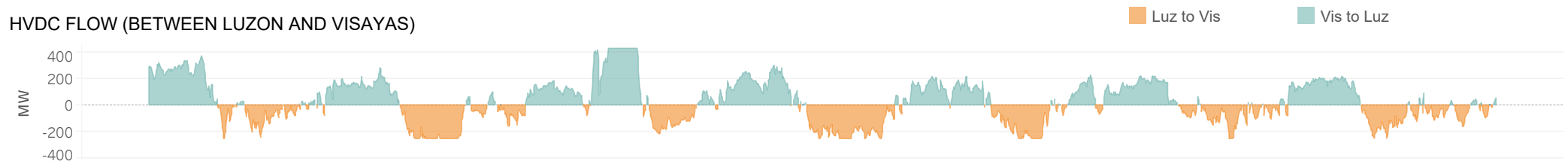
■ GWAP

■ GWAP (before post market run calculation)

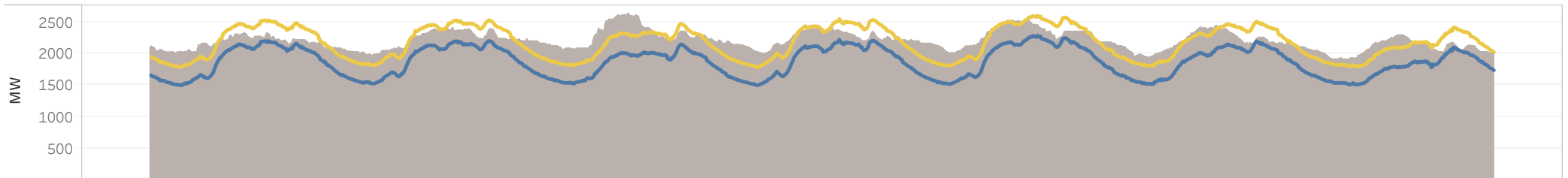
LUZON SUPPLY AND DEMAND



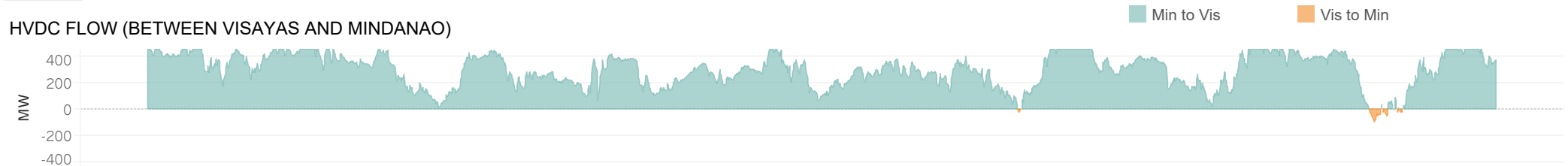
HVDC FLOW (BETWEEN LUZON AND VISAYAS)



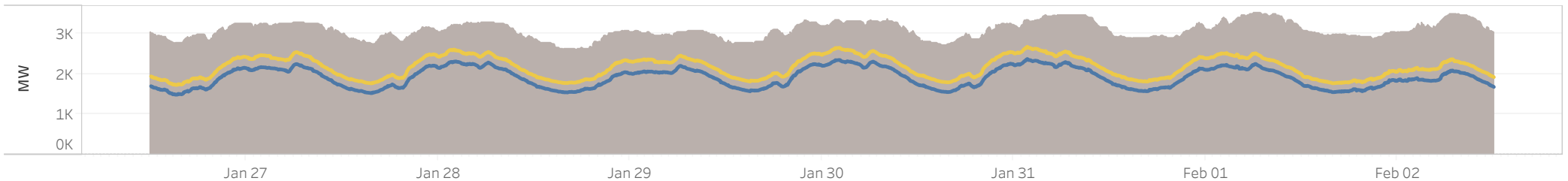
VISAYAS SUPPLY AND DEMAND



HVDC FLOW (BETWEEN VISAYAS AND MINDANAO)

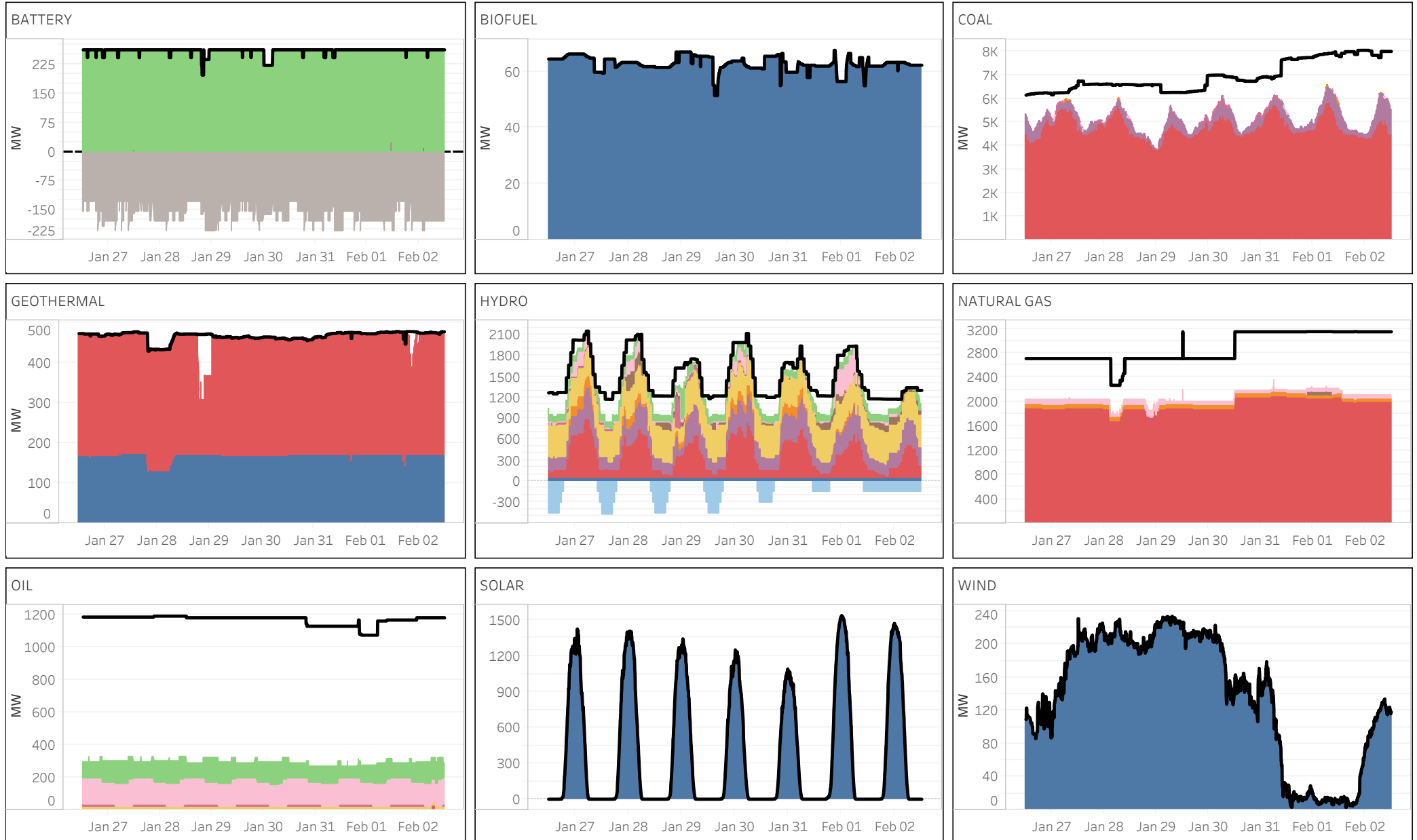


MINDANAO SUPPLY AND DEMAND



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

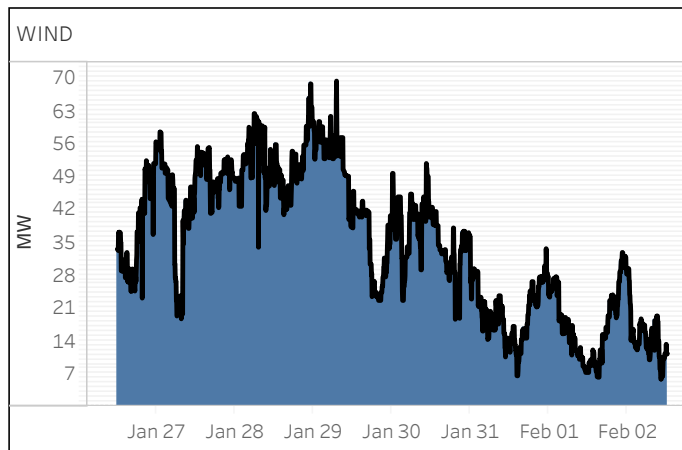
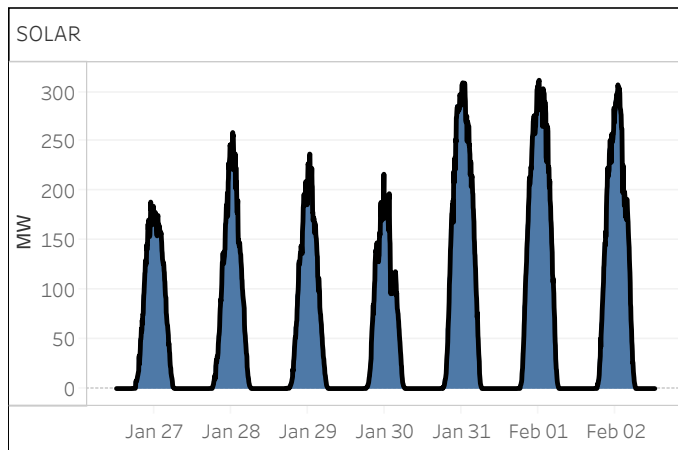
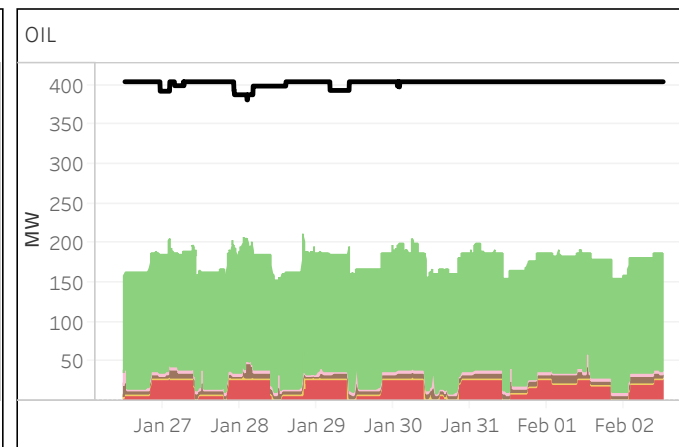
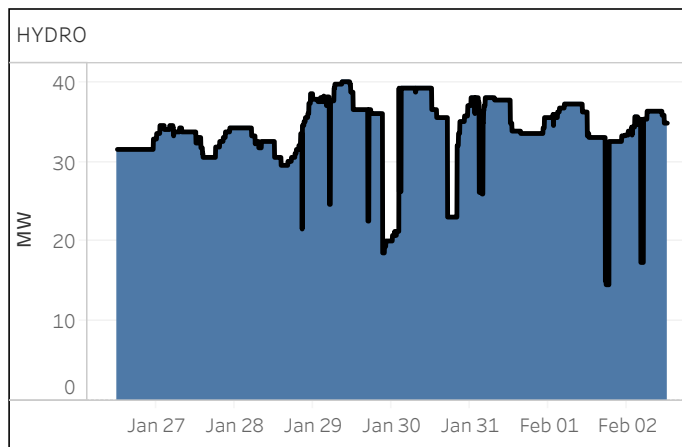
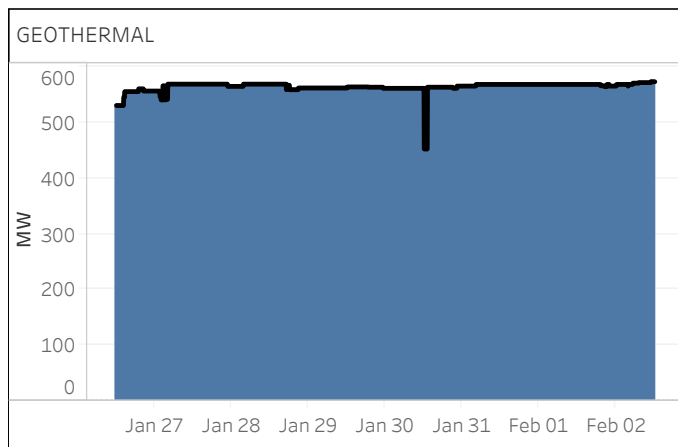
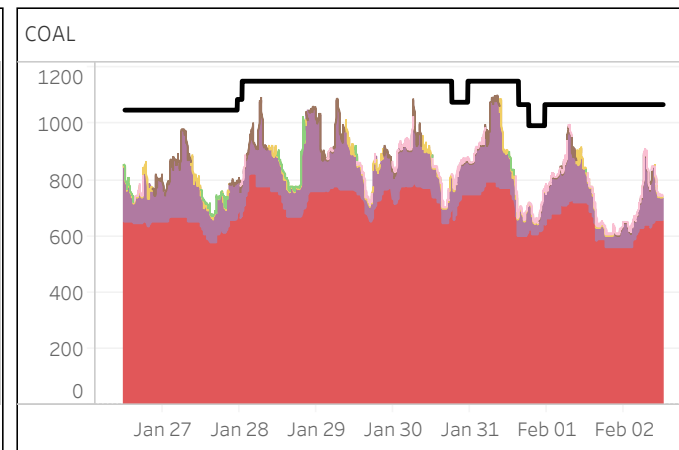
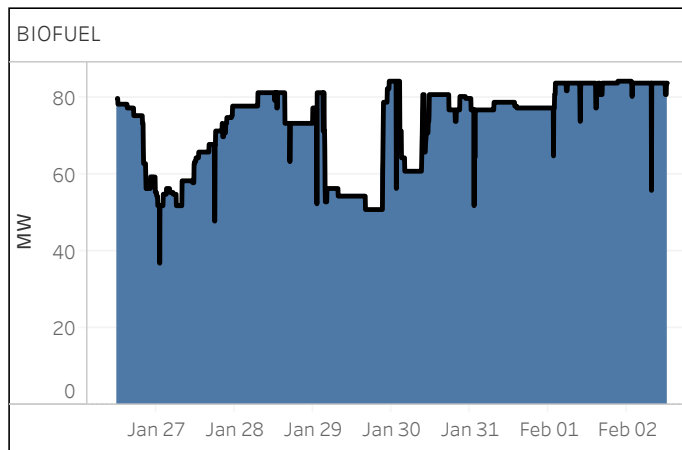
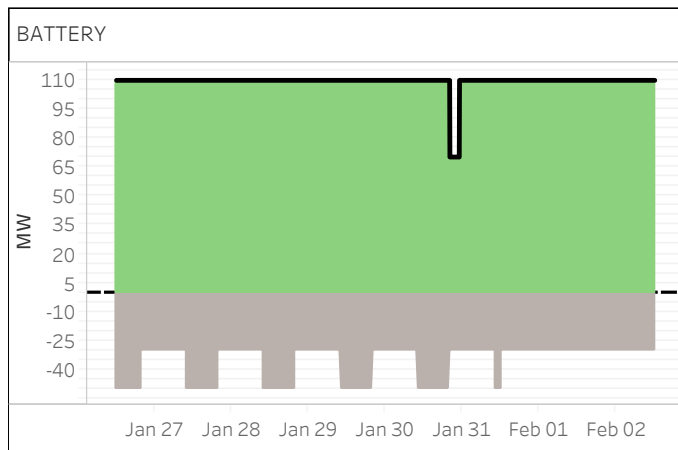
ENERGY OFFER PATTERN - LUZON



NOTES:

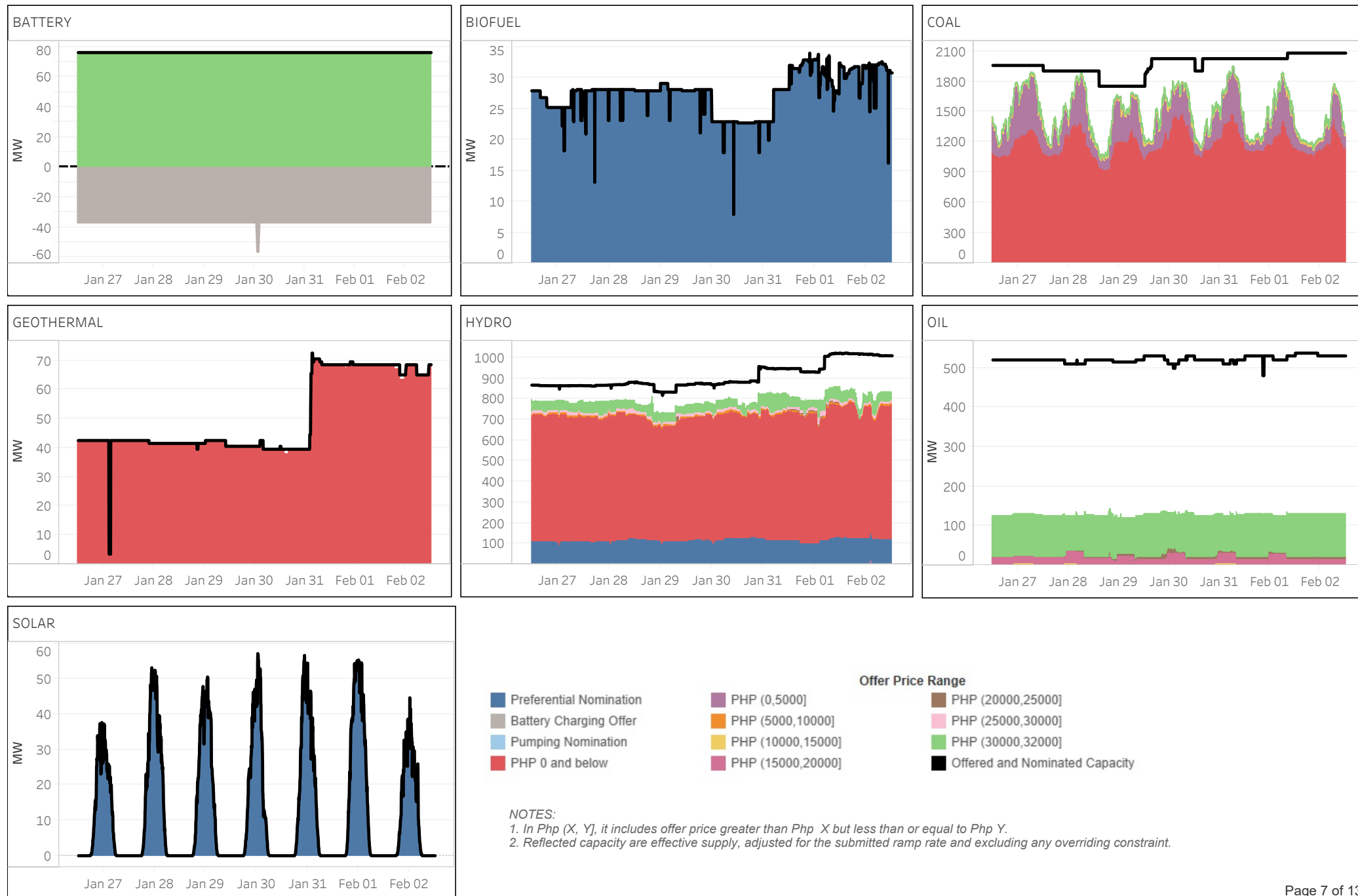
1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y. 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - VISAYAS



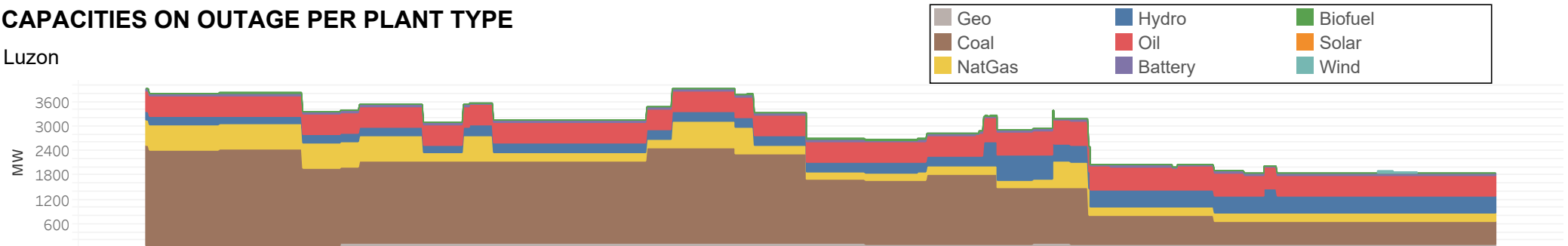
1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y.
2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - MINDANAO

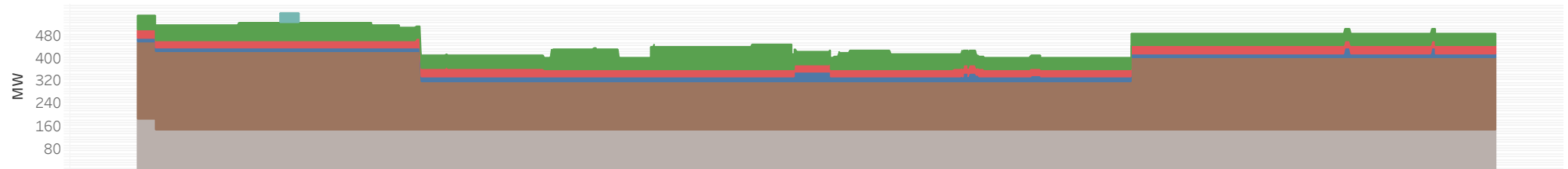


CAPACITIES ON OUTAGE PER PLANT TYPE

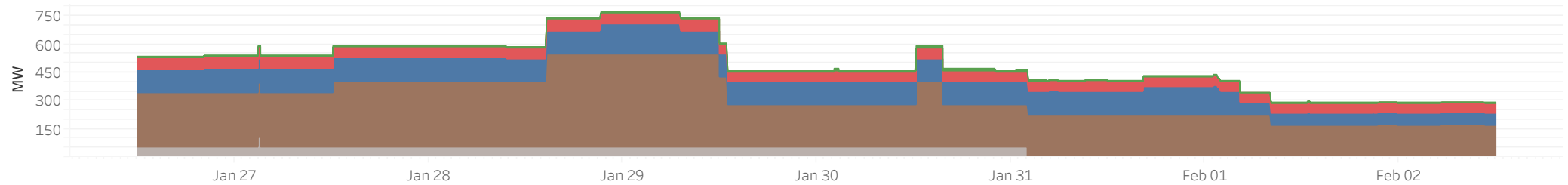
Luzon



Visayas

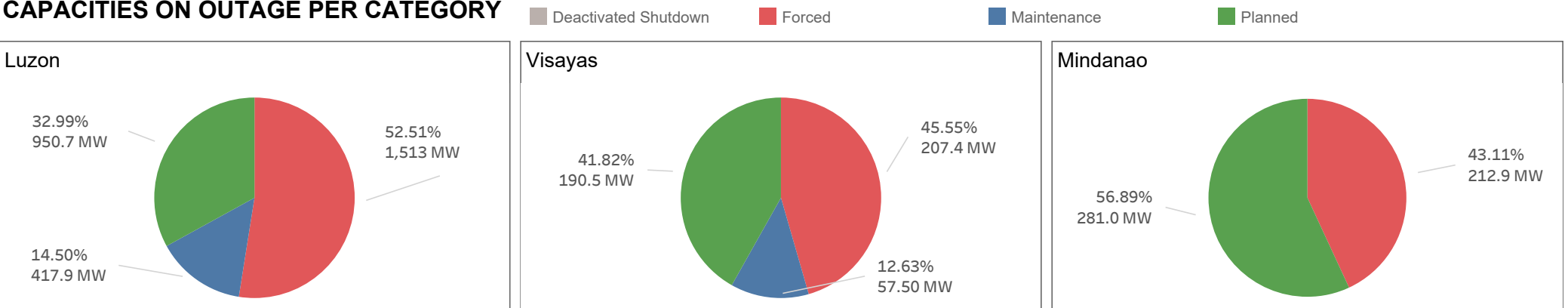


Mindanao

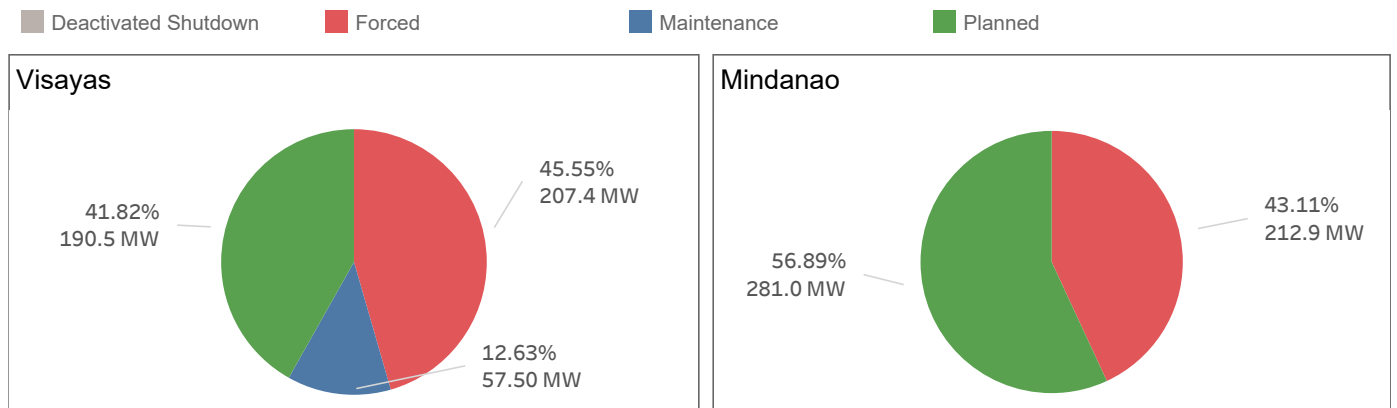


CAPACITIES ON OUTAGE PER CATEGORY

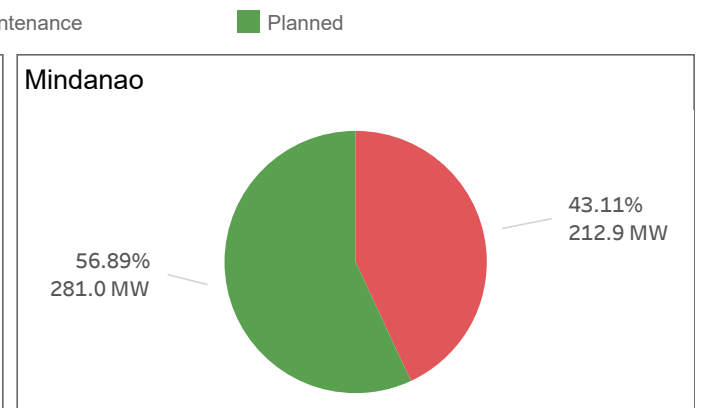
Luzon



Visayas

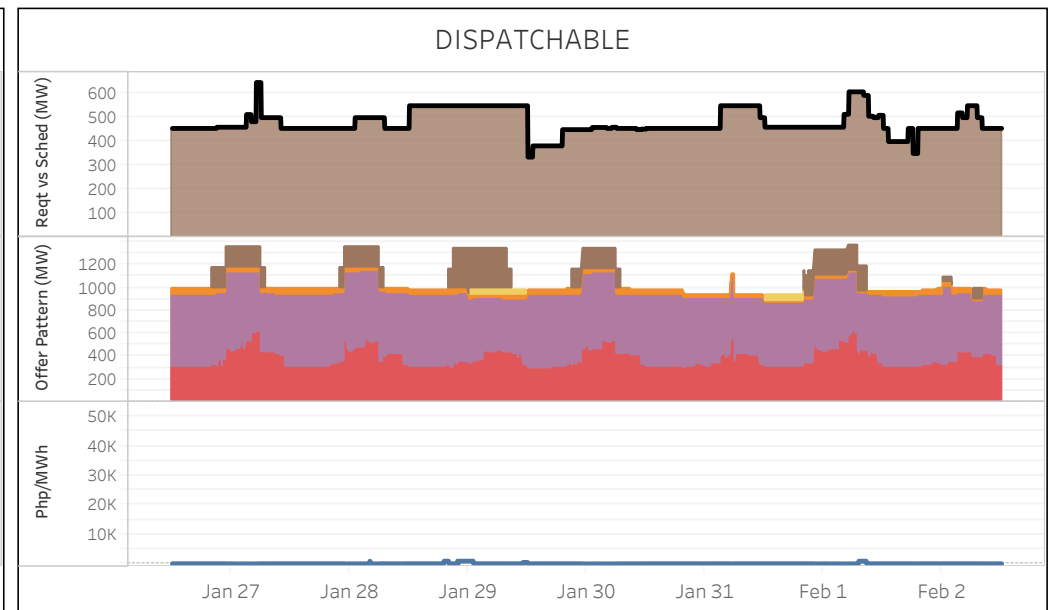
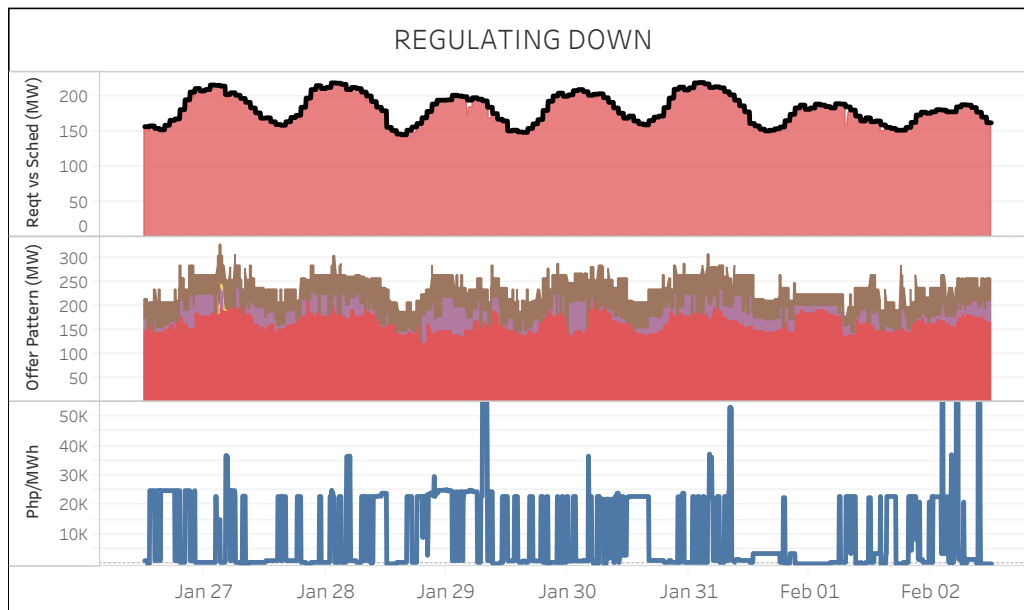
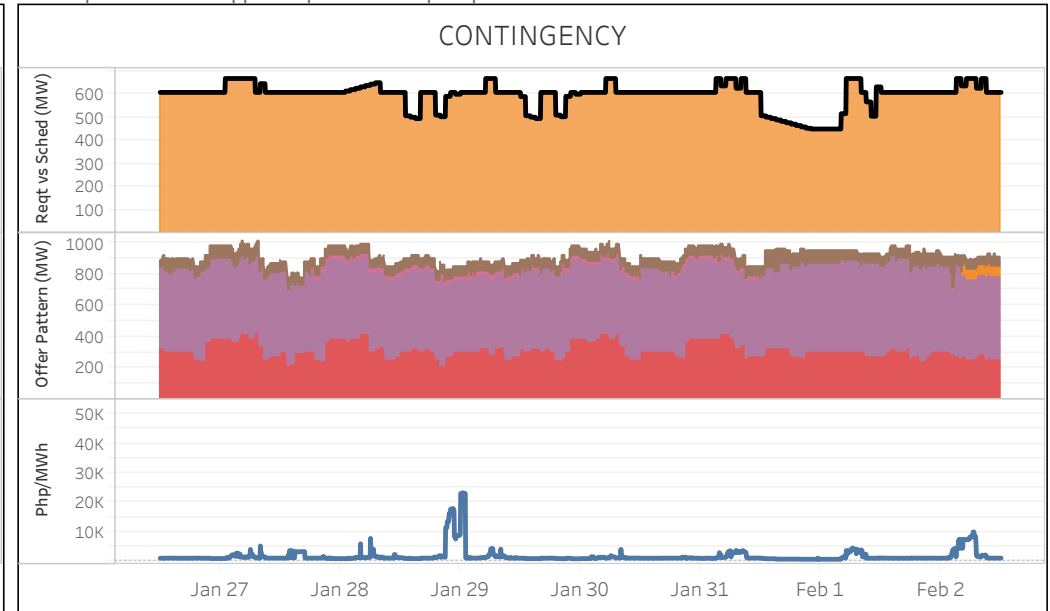
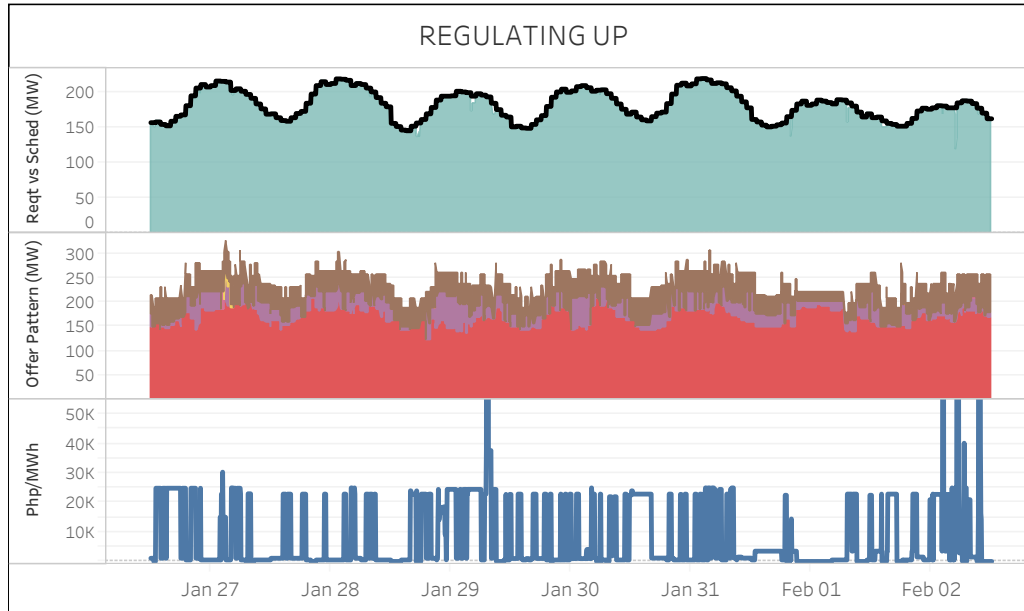


Mindanao



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



Regt vs Sched Legends

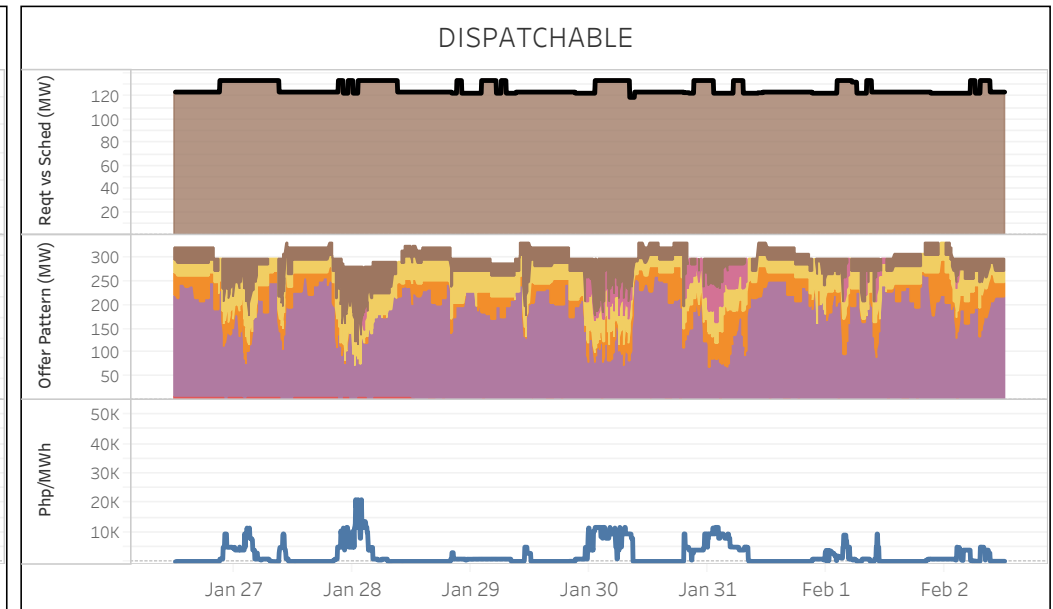
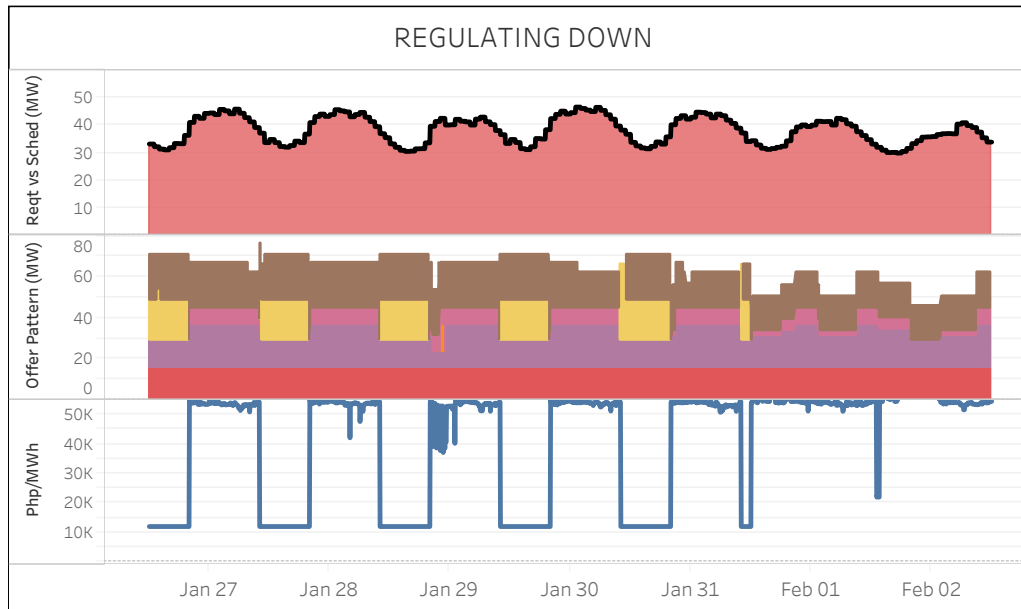
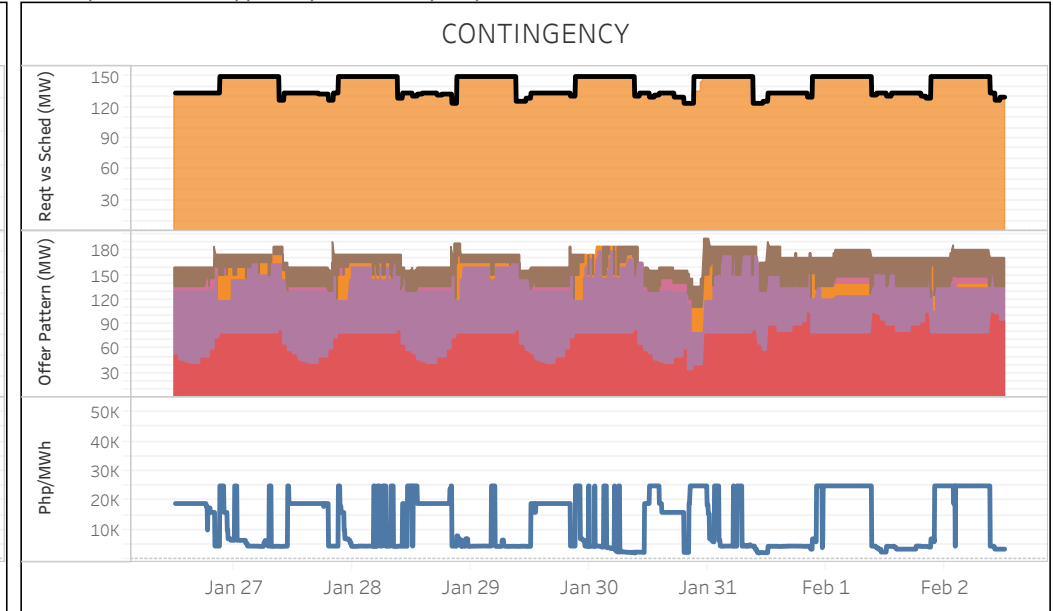
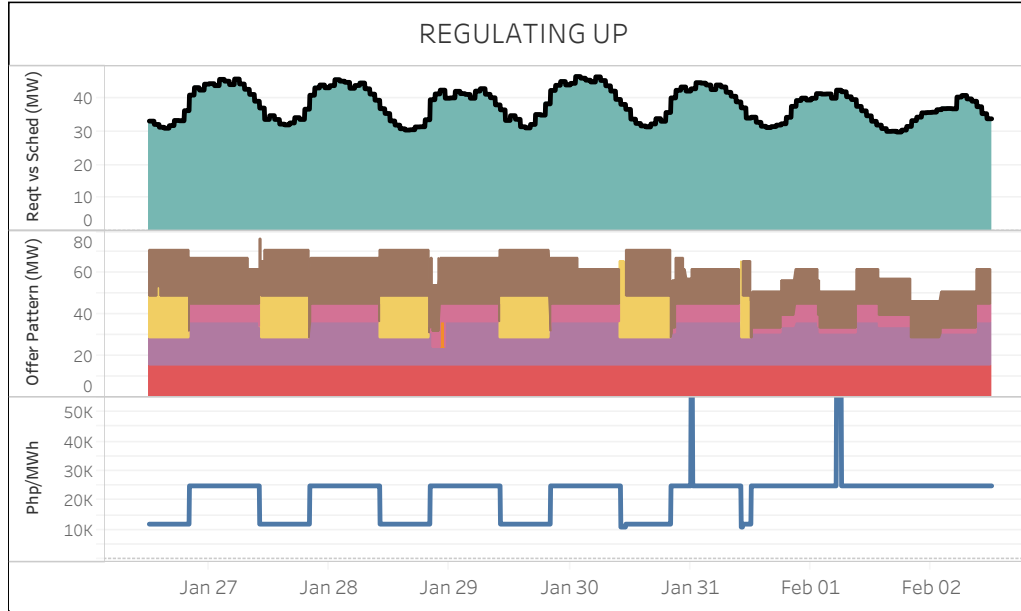
- Reserve Requirement
- RU Schedule
- RD Schedule
- FR Schedule
- DR Schedule

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



Reqd vs Sched Legends

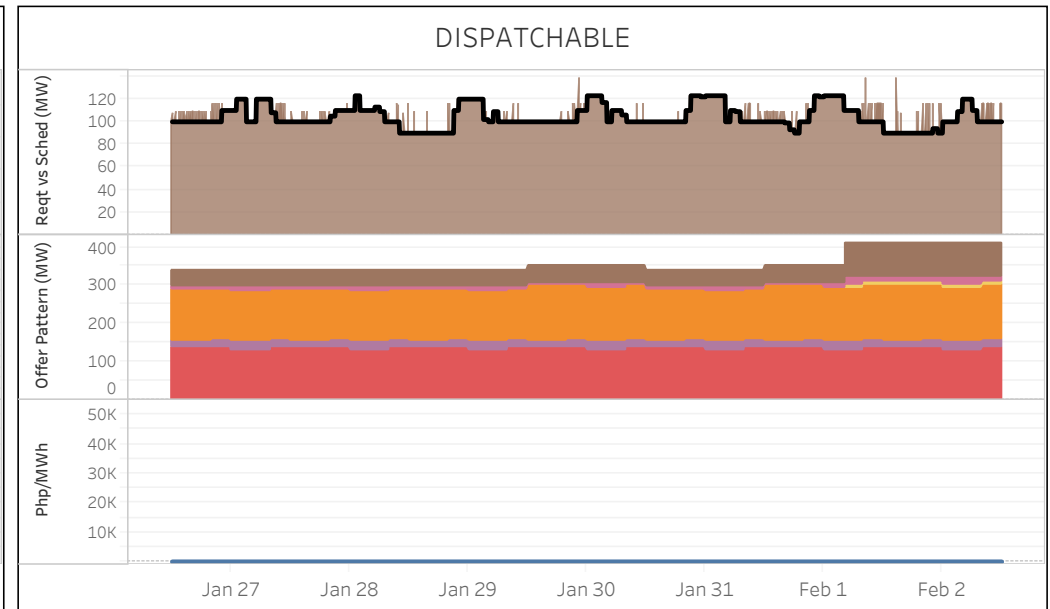
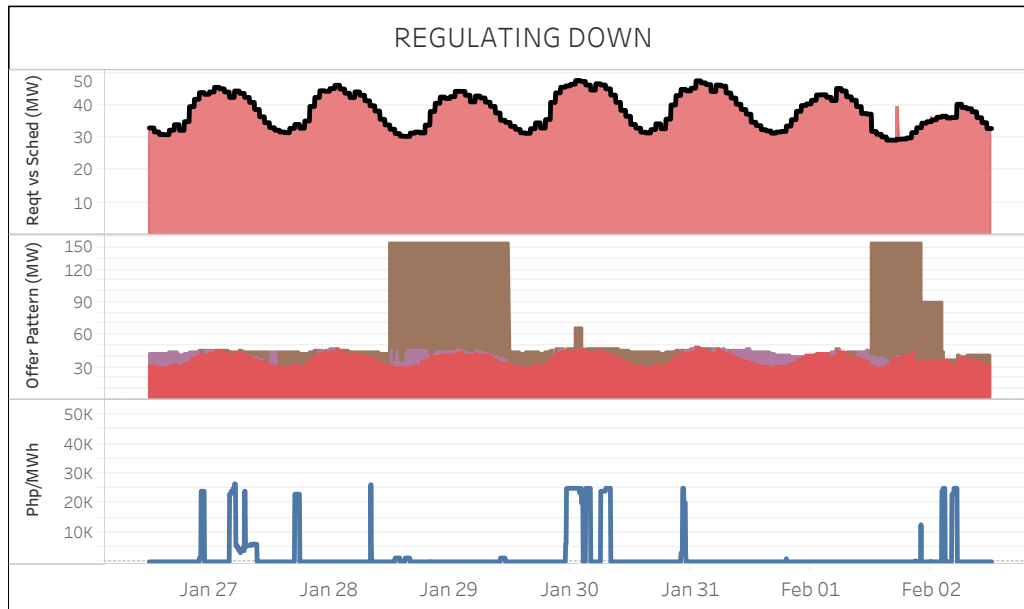
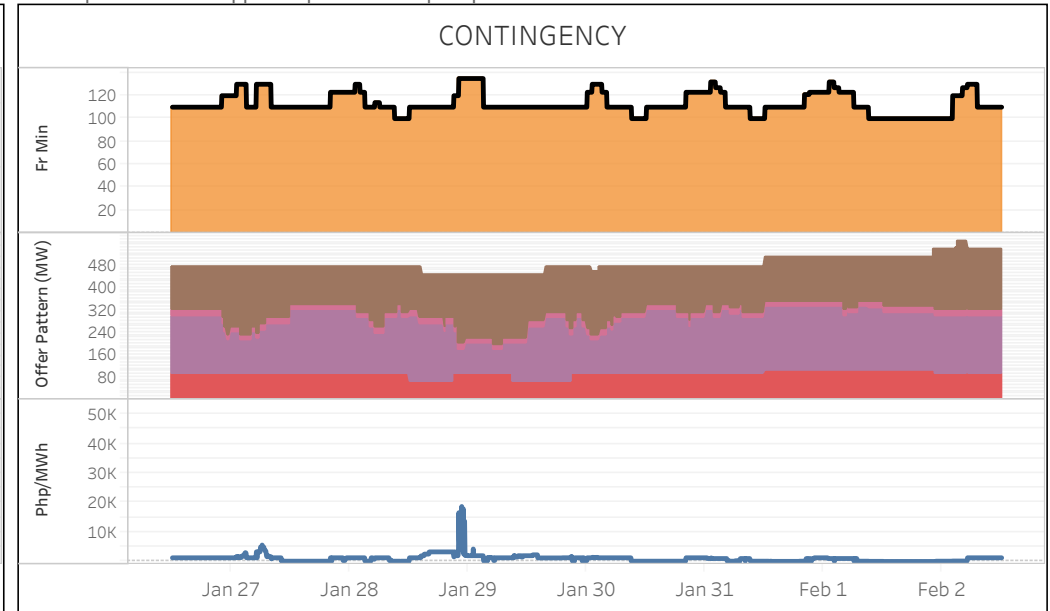
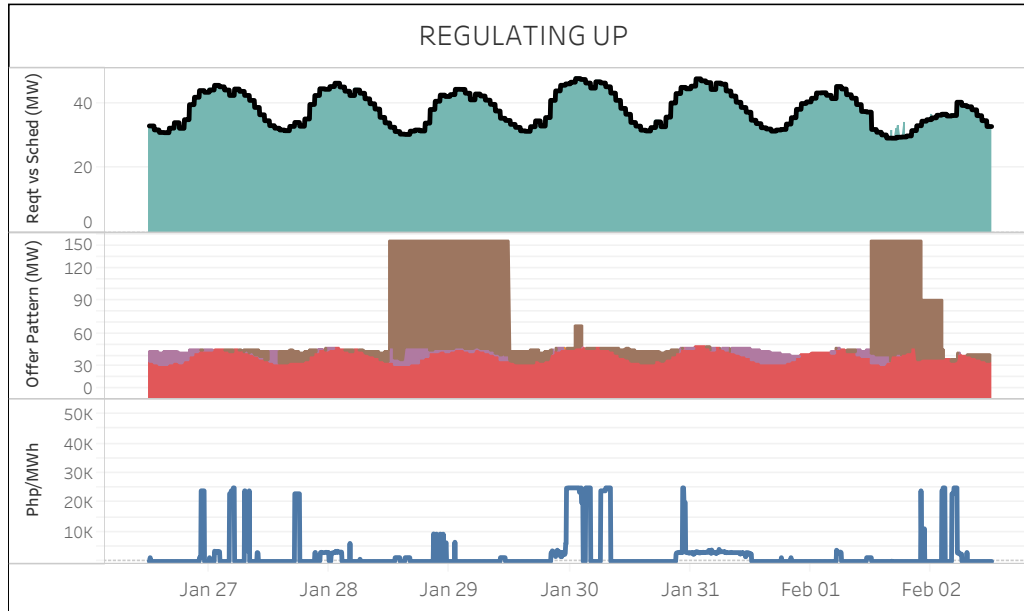
- Reserve Requirement
- RU Schedule
- RD Schedule
- FR Schedule
- DR Schedule

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 - 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



Reqd 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]

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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