

MARKET ASSESSMENT HIGHLIGHTS
Demand, Supply, and Price

- The average weekly GWAP decreased by 34.76%, 45.99%, and 37.02% in the Luzon, Visayas, and Mindanao regions, respectively.
- The average weekly demand decreased across all regions.
- The average weekly capacity on outage increased in the Luzon region, while it decreased in the Visayas and Mindanao regions.
- Exports from Visayas to Luzon occurred 14.04% of the time, while the flow from Mindanao to Visayas was observed 84.42% of the time. The Luzon-Visayas HVDC returned to operation at 00:33h on 20 April.
- Pivotal suppliers were present 50.00% of the time.
- Several trading intervals on 20 April are subject to pricing corrections.

Energy Offer Pattern Analysis

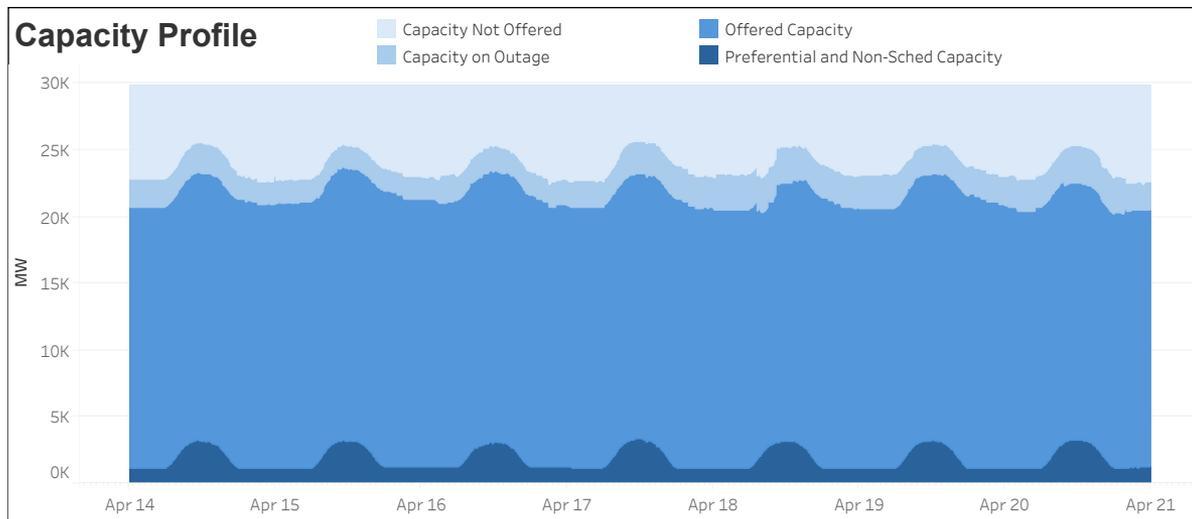
- Luzon**
- Battery Storage Systems recorded dips in offered capacities on 20 April due to the decrease in offered capacity.
 - Biofuel plants showed decrease in nominated capacities from 14 to 15 April due to resource constraints and outages, with further dips on 19 April due to outages.
 - Natural Gas plants experienced decreases in offered capacities on 16 April and from 17 to 20 April due to outages.
 - Oil plants showed decreases in offered capacities from 15 to 19 April due to reduced offered capacities and outages.
 - Wind plants showed an increase in nominated capacities compared to the previous week.

- Visayas**
- Biofuel plants experienced decreases in nominated capacities on 14 April and 16 to 20 April due to resource constraints and outages.
 - Coal plants showed dips in offered capacities on 17 and 18 April due to outages and decrease in offered capacity, respectively.
 - Hydro plants experienced fluctuations in nominated due to resource constraints and outages throughout the week.
 - Oil plants showed variations in offered capacities due to outages throughout the week.
 - Wind and Solar plants' lowest daily peak nominations were observed on 15 and 18 April, respectively.

- Mindanao**
- Biofuel plants experienced decreases in nominated capacities from 16 to 20 April due to reduced nominated capacity and outages, respectively.
 - Coal plants recorded dips in offered capacities on 14 and 18 April due to outages.
 - Hydro plants showed decreases in offered capacity from 16 to 20 April due to resource constraints and outages.
 - Solar plants' lowest daily peak nominations were observed on 20 April.

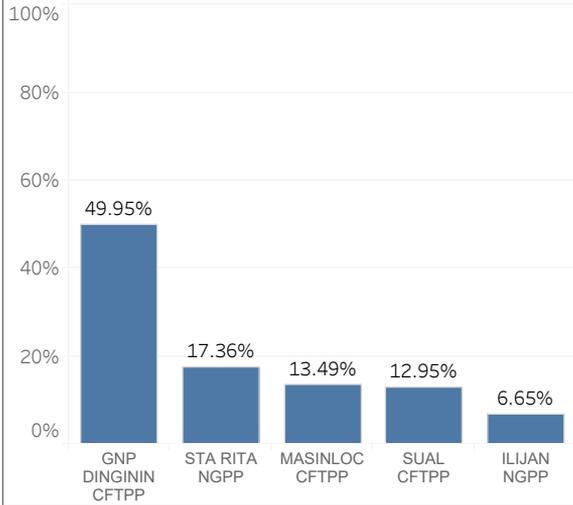
Market Systems Advisory

- No IT-related issue in IEMOP's Market Systems was reported from 14 to 20 April 2025.

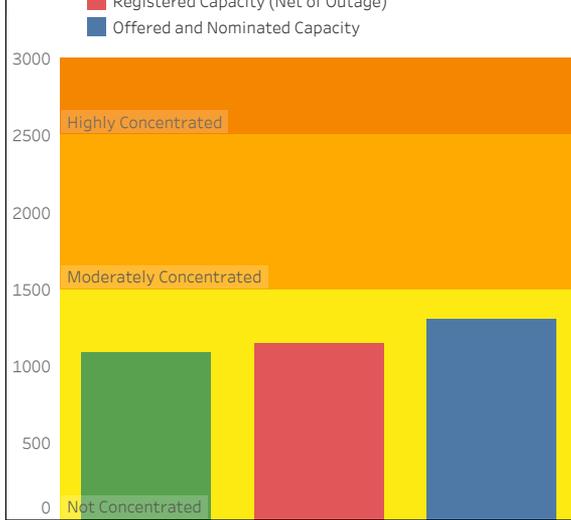

SUMMARY OF AVERAGE VALUES

Particulars	14 - 20 Apr 2025	07 - 13 Apr 2025	% Change
GENERATOR WEIGHTED AVERAGE PRICE (Php/MWh)			
System	2,882	4,547	-36.61%
Luzon	3,037	4,655	-34.76%
Visayas	2,538	4,698	-45.99%
Mindanao	2,439	3,872	-37.02%
EFFECTIVE SUPPLY (MW)			
Luzon	12,783	13,423	-4.77%
Visayas	2,392	2,429	-1.55%
Mindanao	3,275	3,410	-3.97%
DEMAND (MW)			
Luzon	10,189	11,102	-8.23%
Visayas	1,904	2,051	-7.16%
Mindanao	2,026	2,156	-6.04%
OUTAGE (MW)			
Luzon	1,657	1,620	2.26%
Visayas	354	424	-16.49%
Mindanao	175	208	-15.65%
REGULATING UP PRICE (Php/MWh)			
Luzon	22,040	14,059	56.77%
Visayas	21,841	24,786	-11.88%
Mindanao	21,726	24,553	-11.51%
REGULATING DOWN PRICE (Php/MWh)			
Luzon	12,467	12,188	2.29%
Visayas	43,469	48,673	-10.69%
Mindanao	21,750	24,554	-11.42%
CONTINGENCY RESERVE PRICE (Php/MWh)			
Luzon	2,078	1,875	10.83%
Visayas	3,458	7,372	-53.08%
Mindanao	818	1,712	-52.19%
DISPATCHABLE RESERVE PRICE (Php/MWh)			
Luzon	1,818	904	101.03%
Visayas	5,979	5,391	10.92%
Mindanao	0	0	

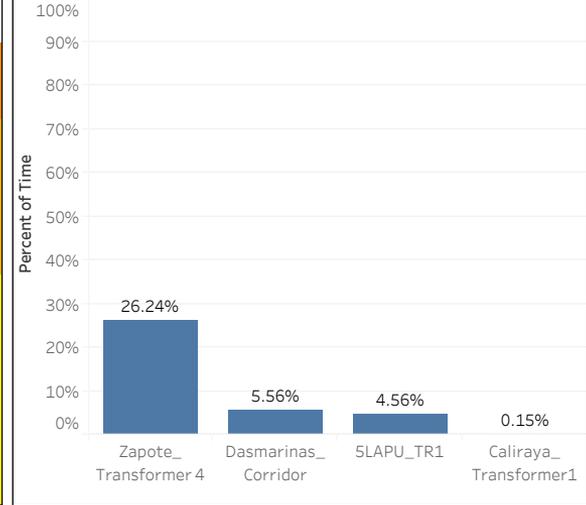
Top 5 Pivotal Plants



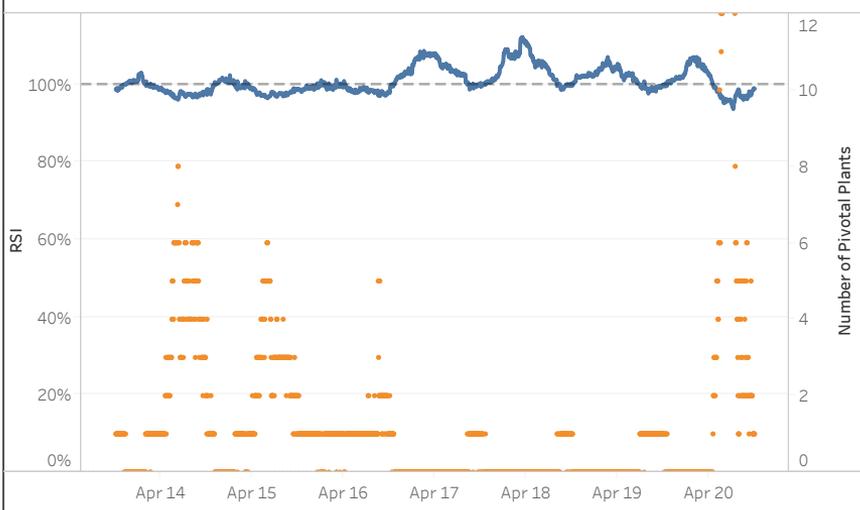
HHI



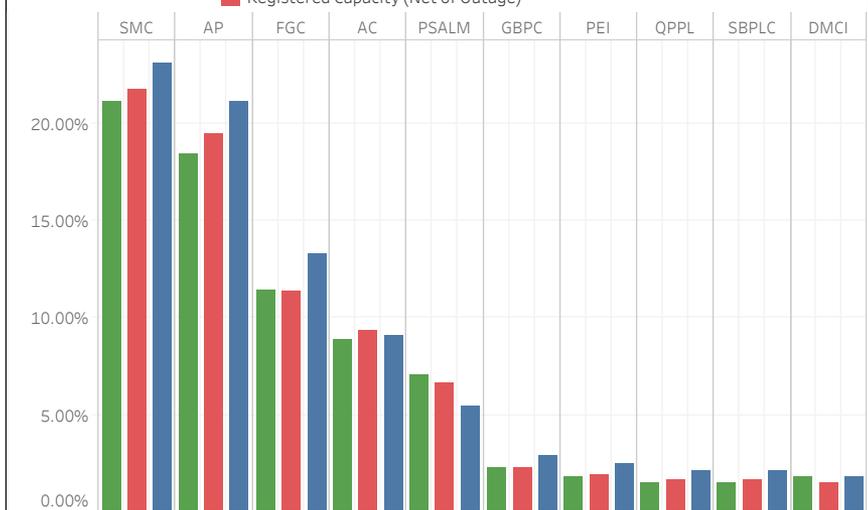
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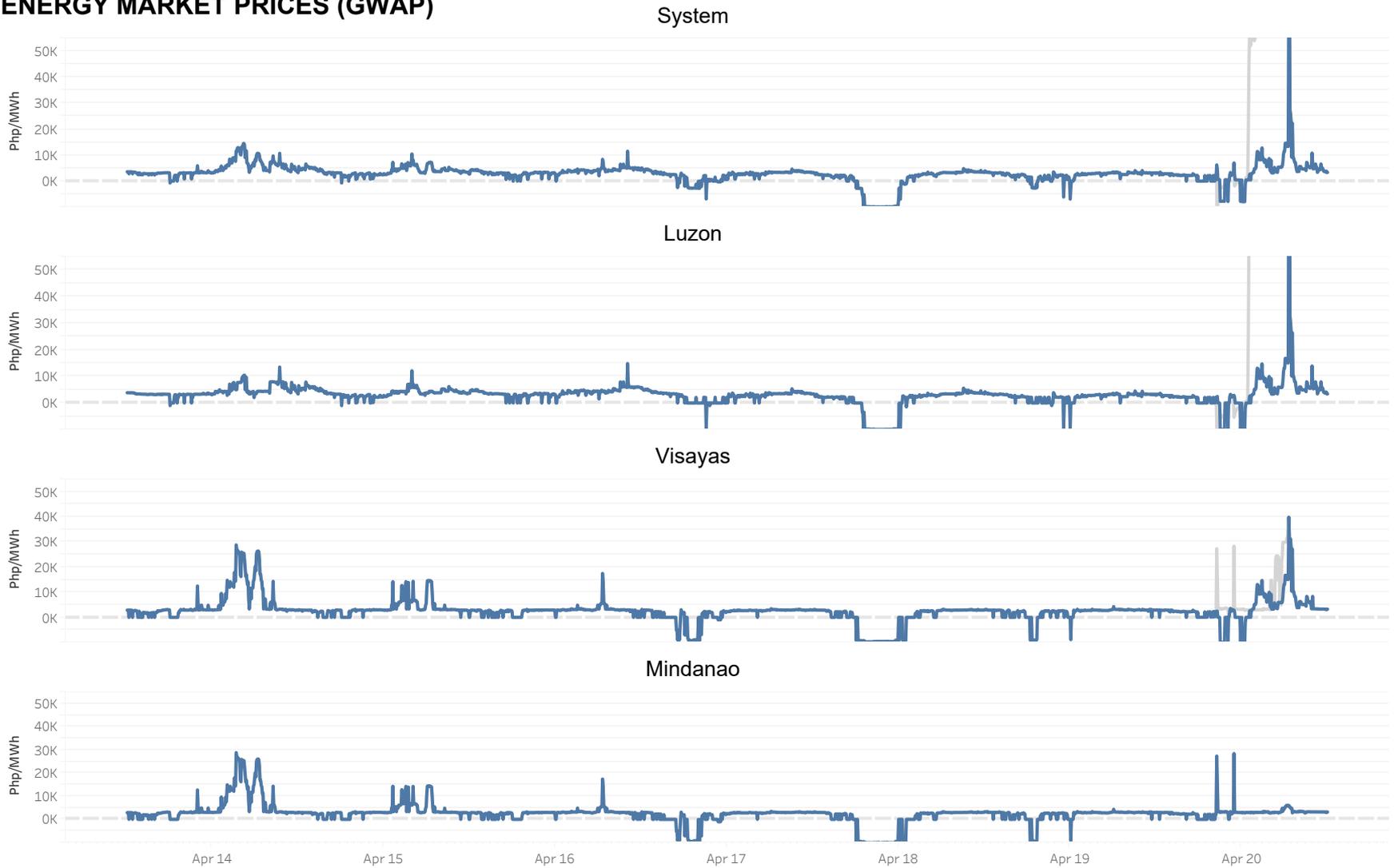
Market RSI vs Pivotal Plants



Market Share



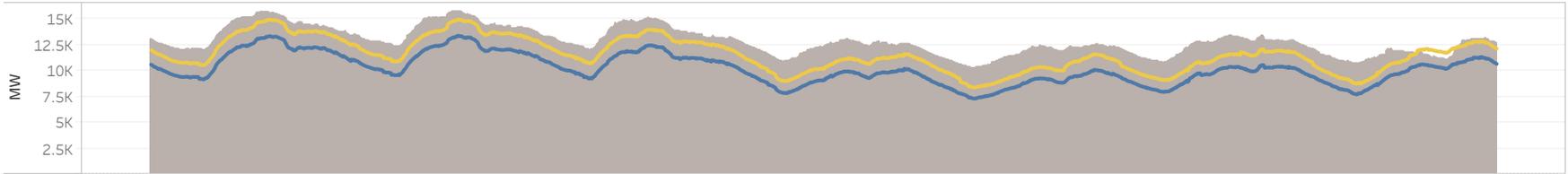
ENERGY MARKET PRICES (GWAP)



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)

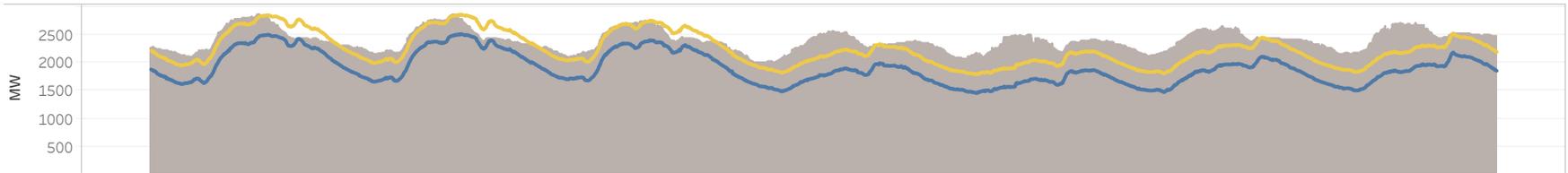
LUZON SUPPLY AND DEMAND



HVDC FLOW (BETWEEN LUZON AND VISAYAS)



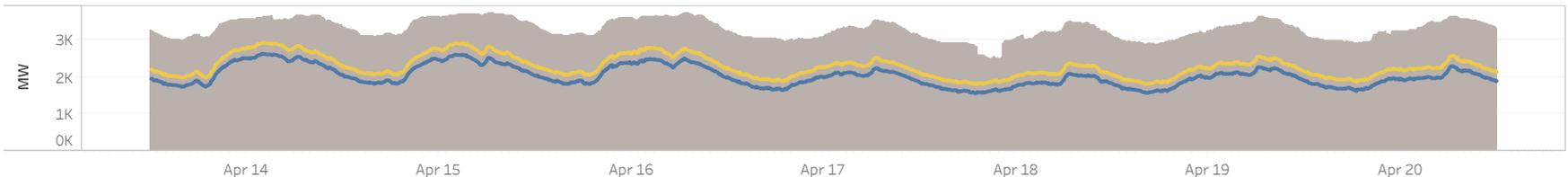
VISAYAS SUPPLY AND DEMAND



HVDC FLOW (BETWEEN VISAYAS AND MINDANAO)

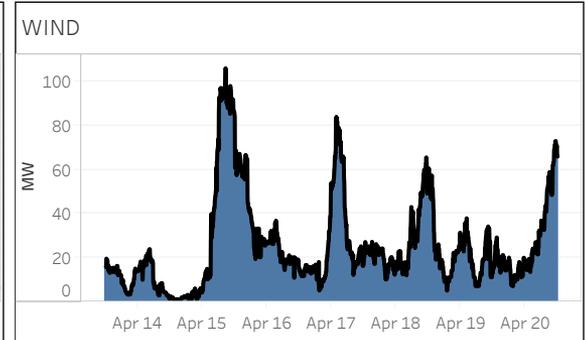
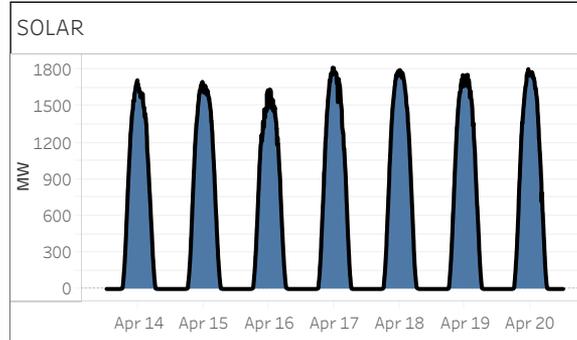
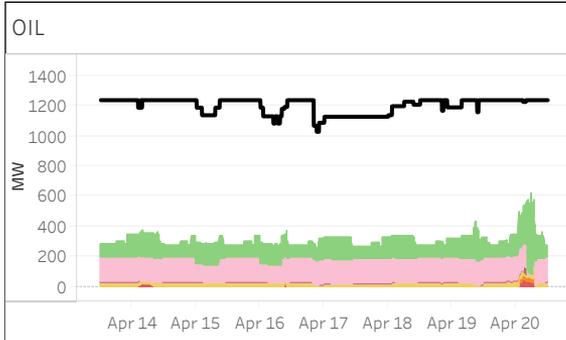
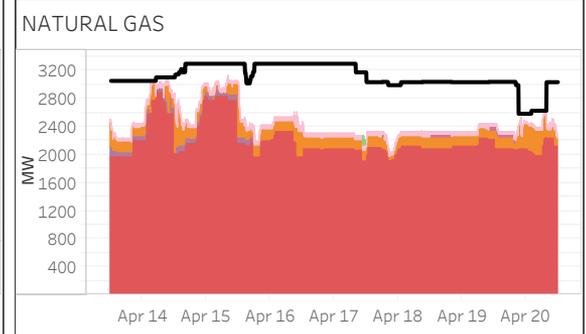
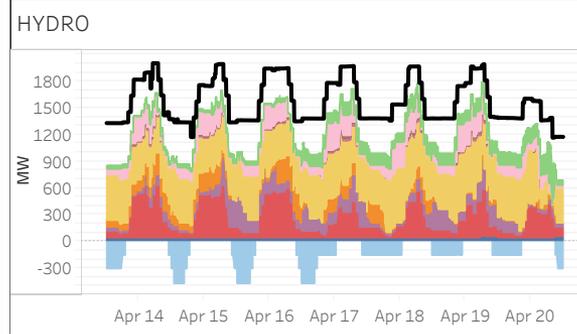
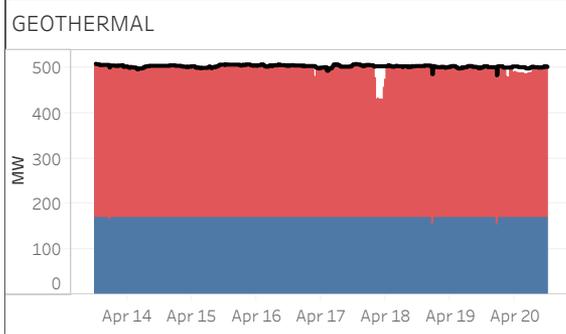
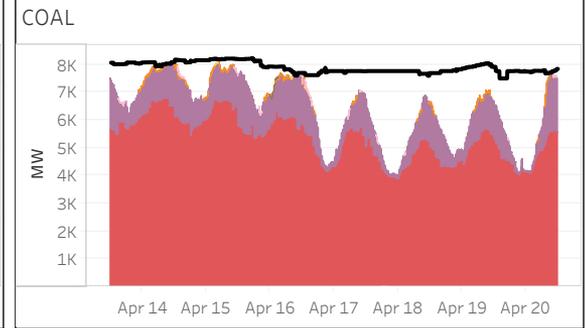
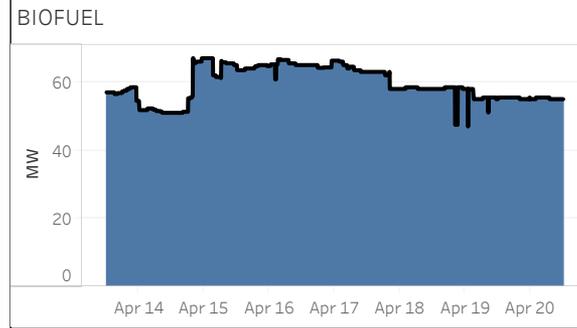
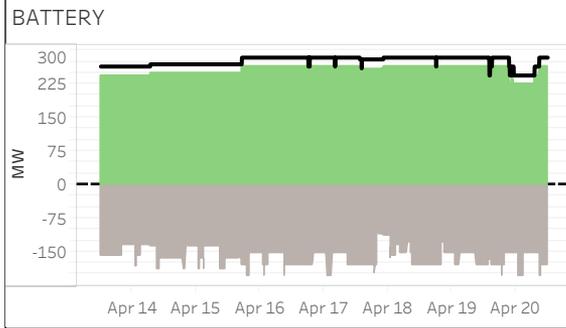


MINDANAO SUPPLY AND DEMAND

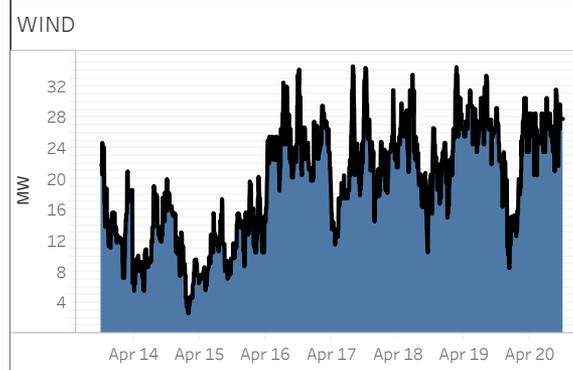
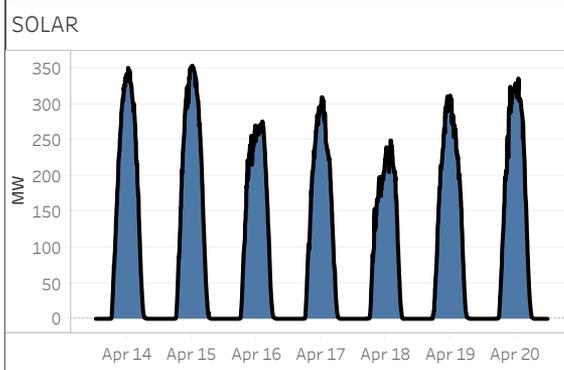
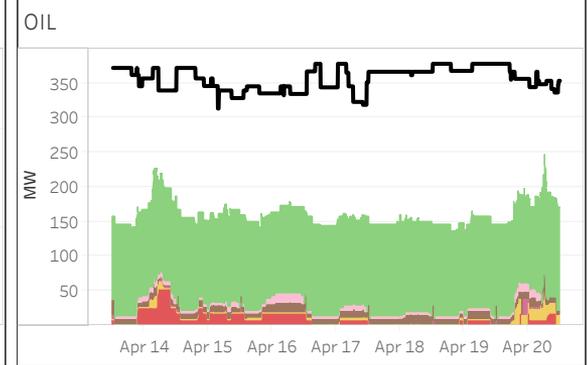
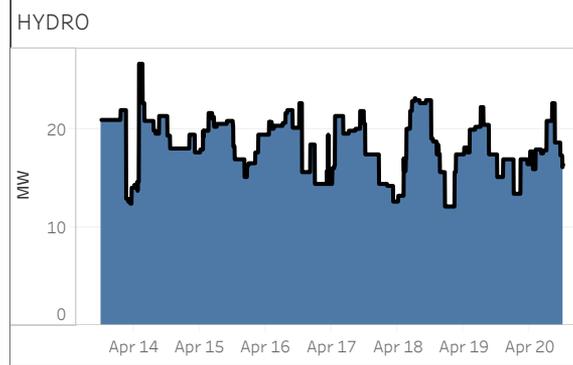
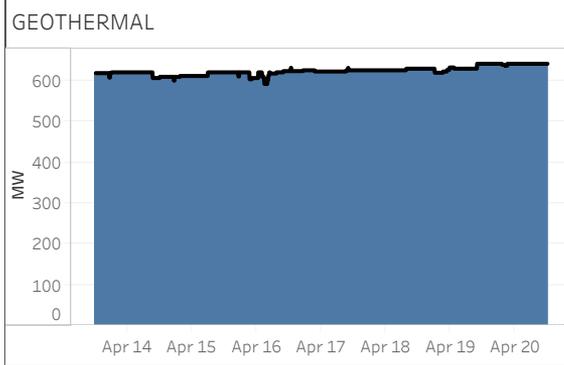
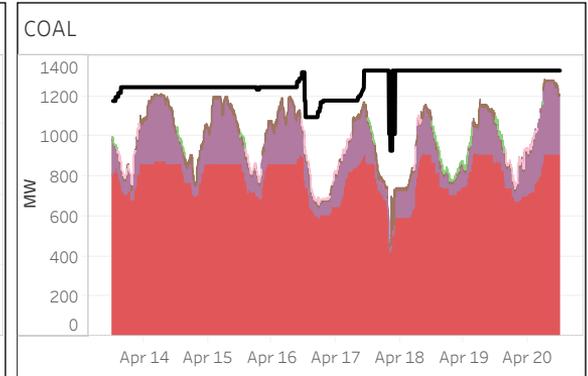
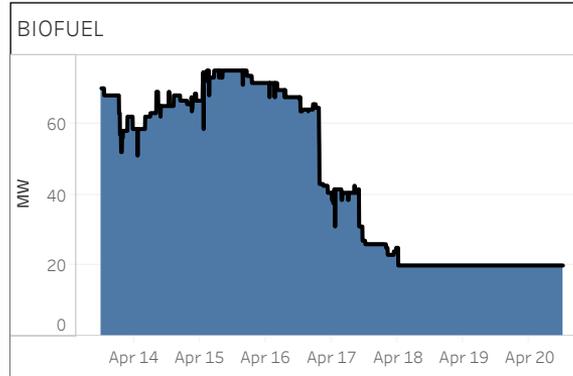
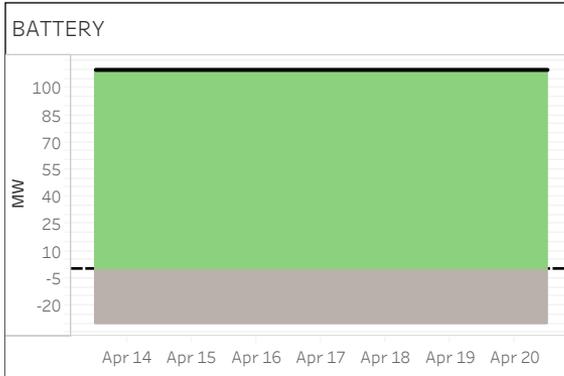


The charts show the aggregated supply and demand in each region and the scheduled power flow from/to a particular region via HVDC links.

ENERGY OFFER PATTERN - LUZON

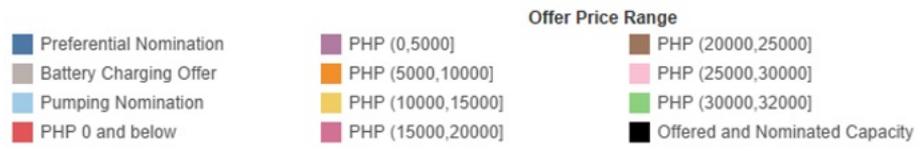
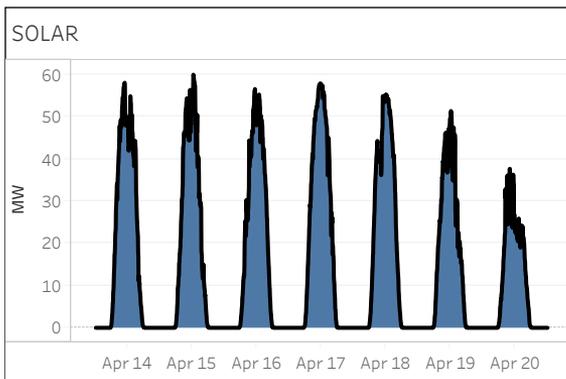
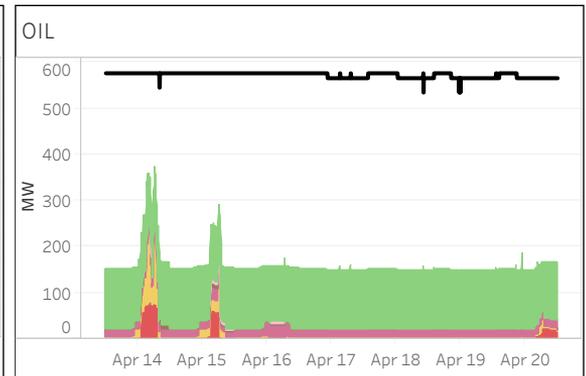
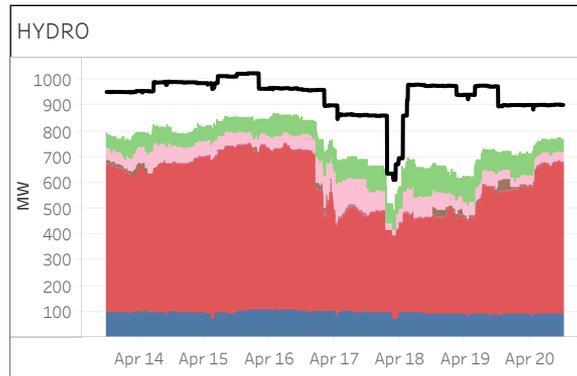
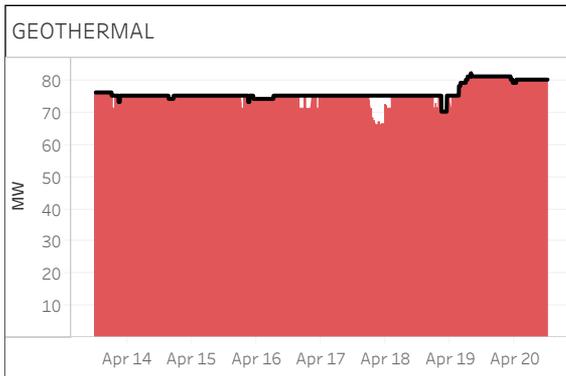
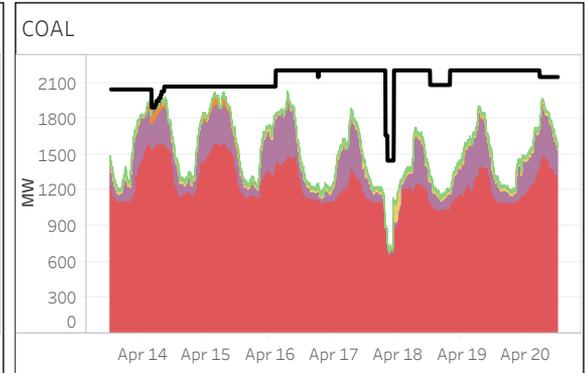
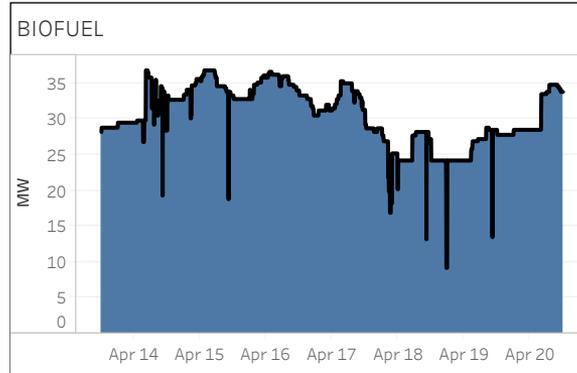
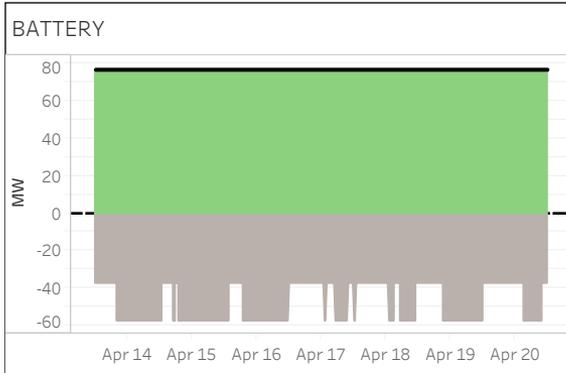


NOTES:
1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y. 2. Reflected capacity are effective supply, adjusted for the submitted ramp rate and excluding any overriding constraint.

ENERGY OFFER PATTERN - VISAYAS

NOTES:

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

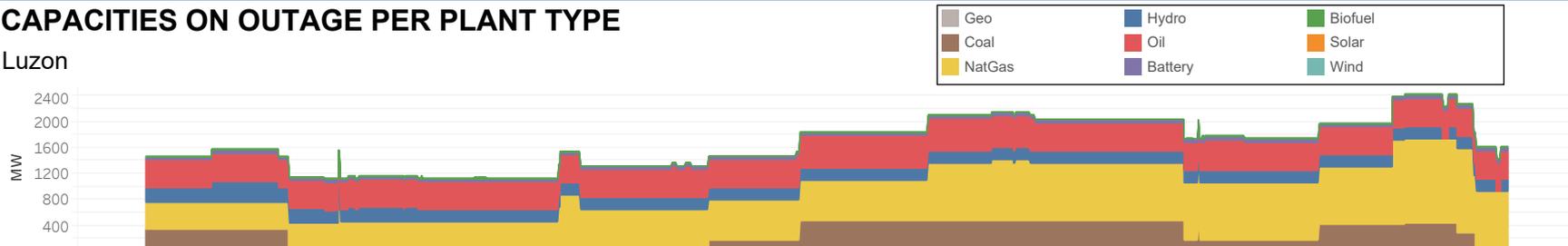
ENERGY OFFER PATTERN - MINDANAO



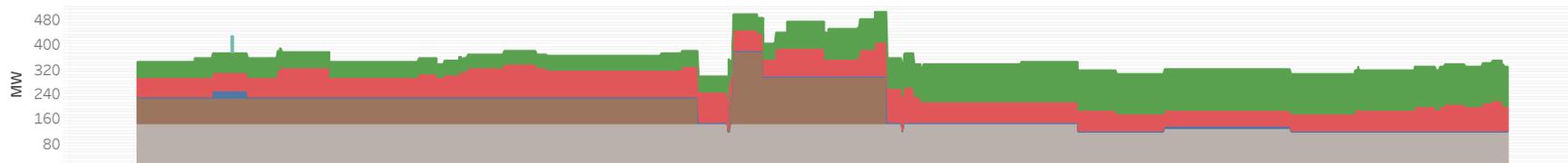
NOTES:
 1. In Php (X, Y], it includes offer price greater than Php X but less than or equal to Php Y.
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CAPACITIES ON OUTAGE PER PLANT TYPE

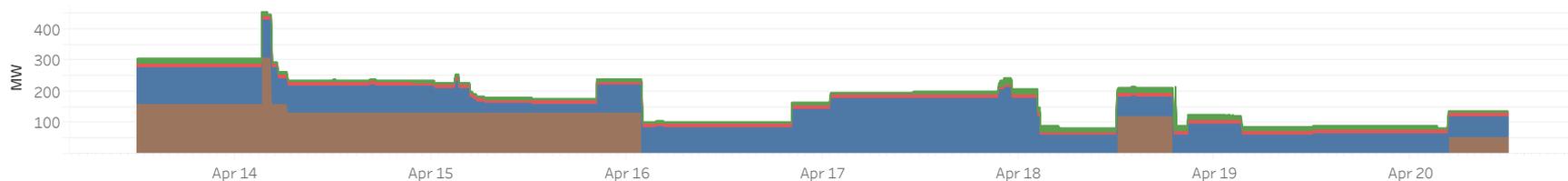
Luzon



Visayas



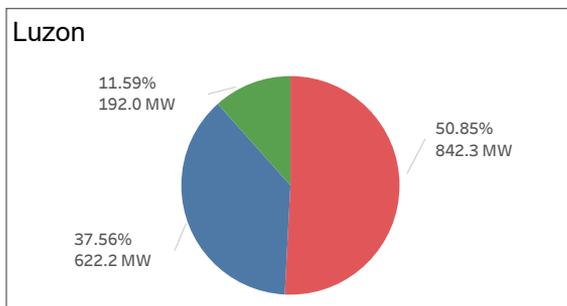
Mindanao



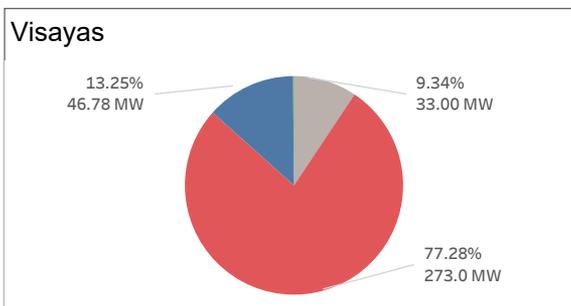
CAPACITIES ON OUTAGE PER CATEGORY

■ Deactivated Shutdown ■ Forced ■ Maintenance ■ Planned

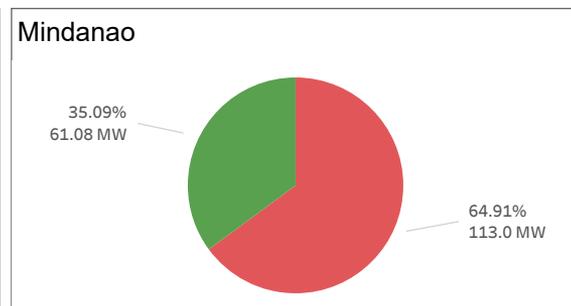
Luzon



Visayas

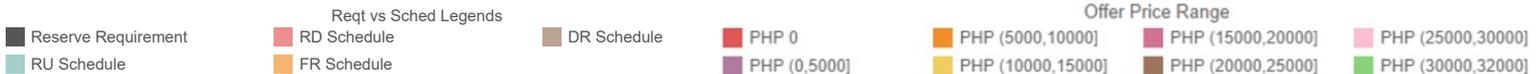
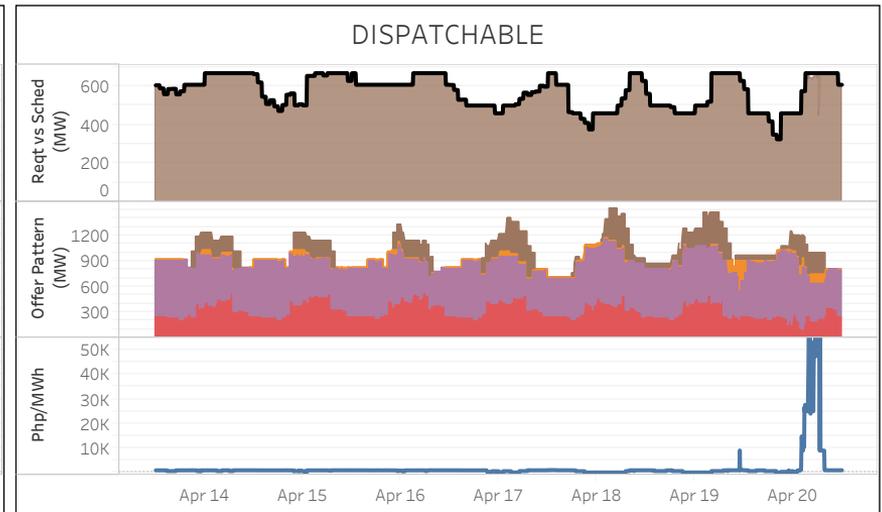
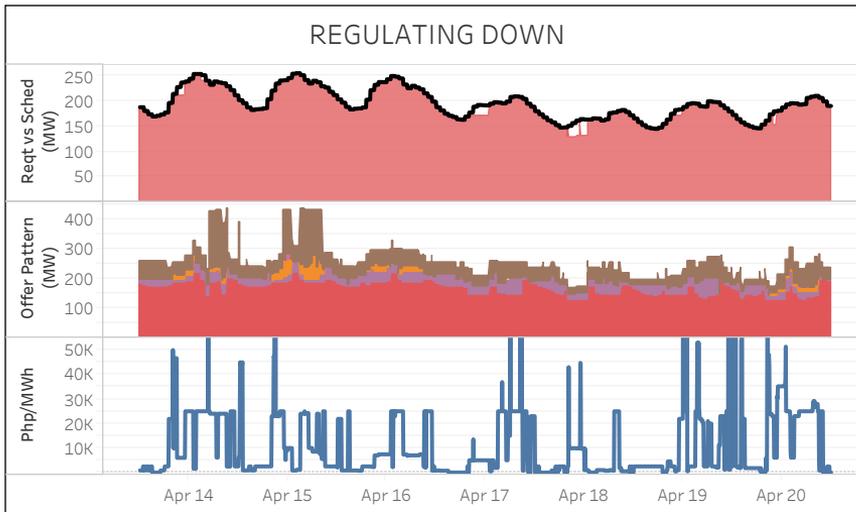
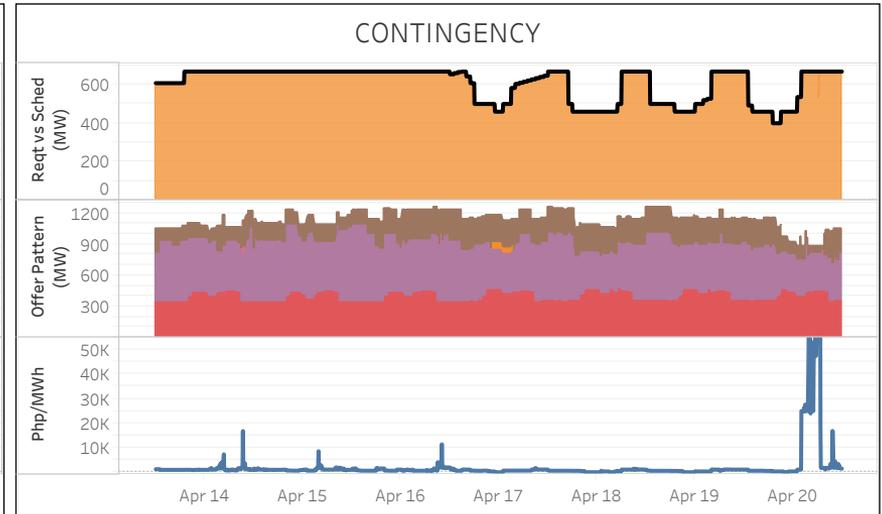
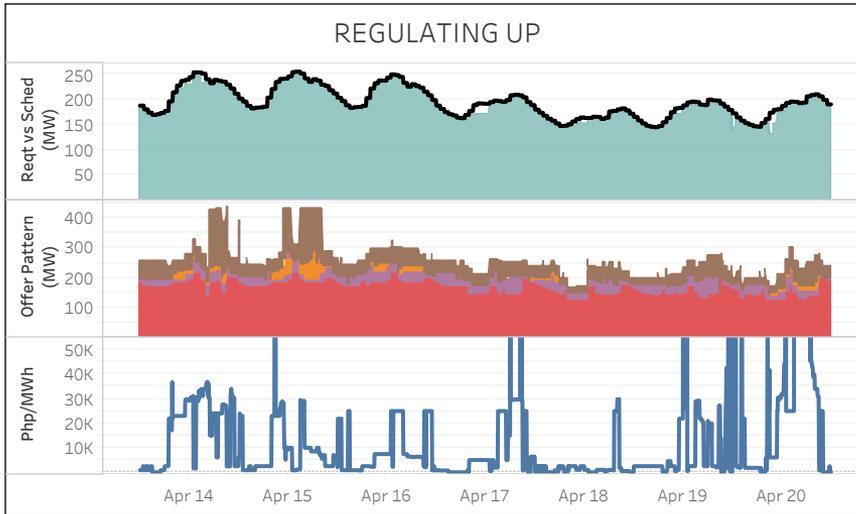


Mindanao



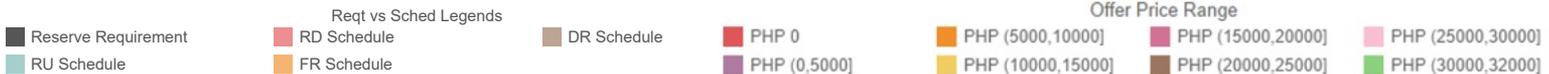
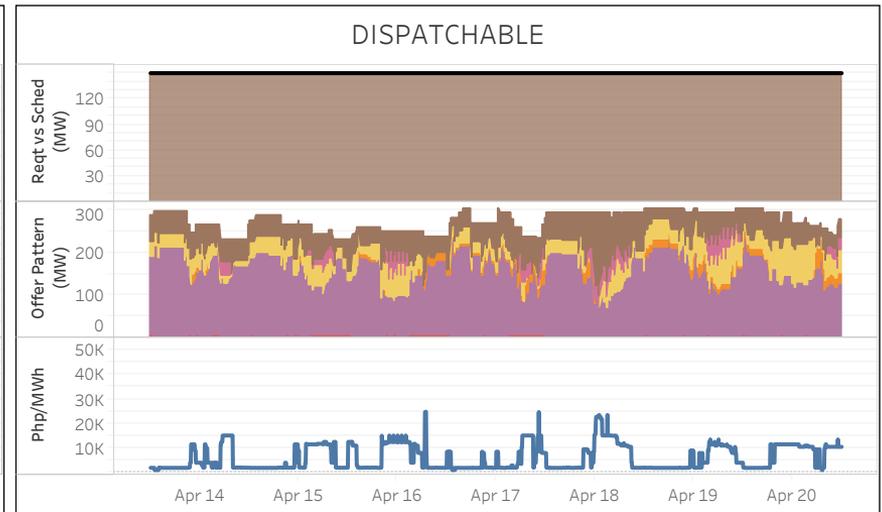
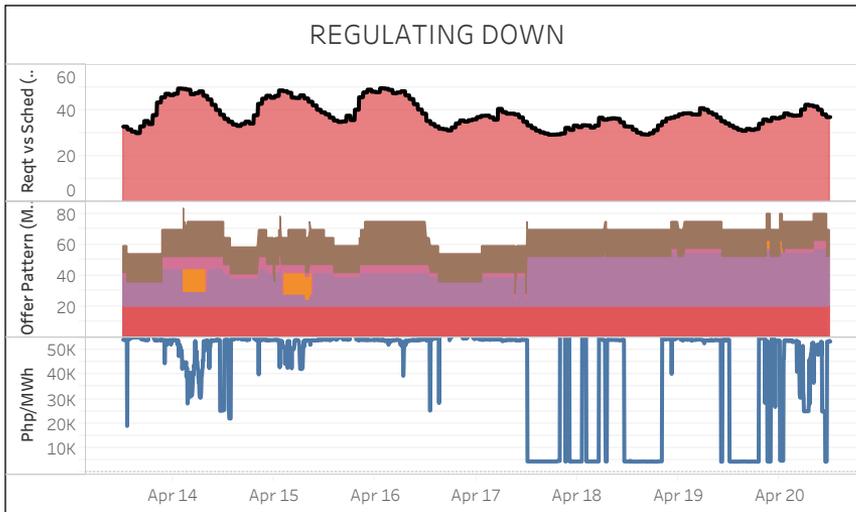
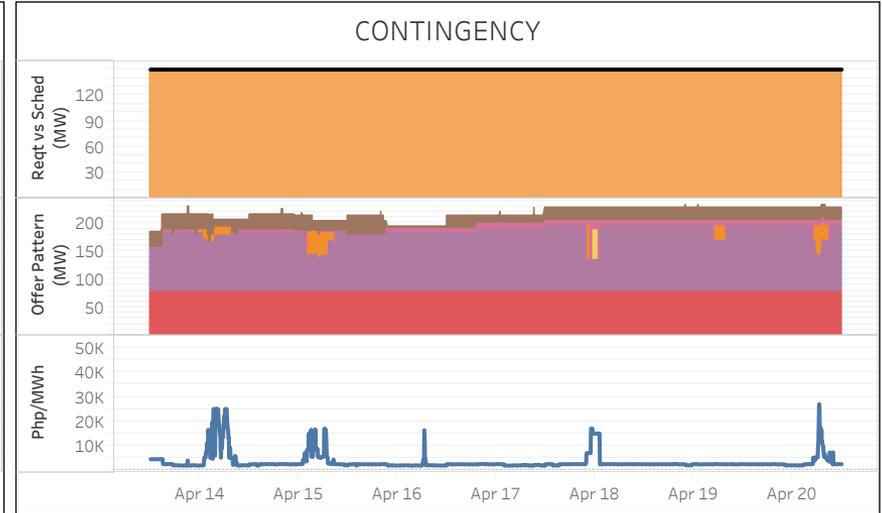
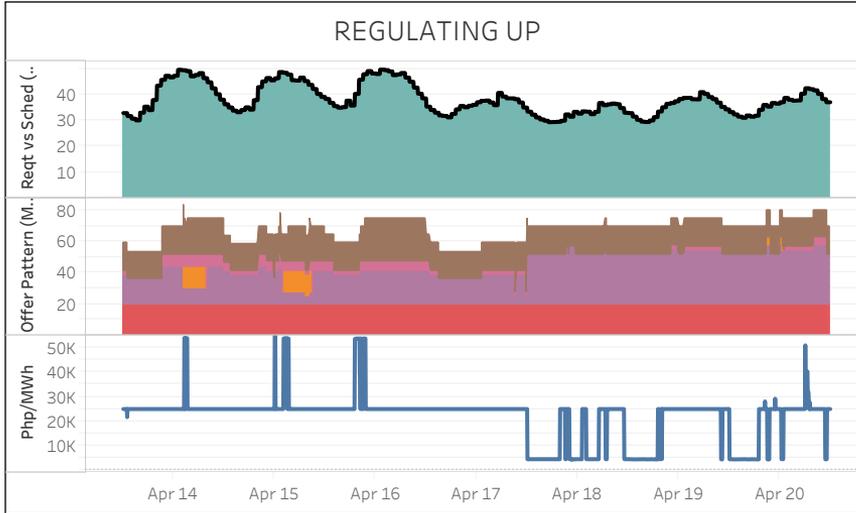
RESERVE MARKET DATA - LUZON

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



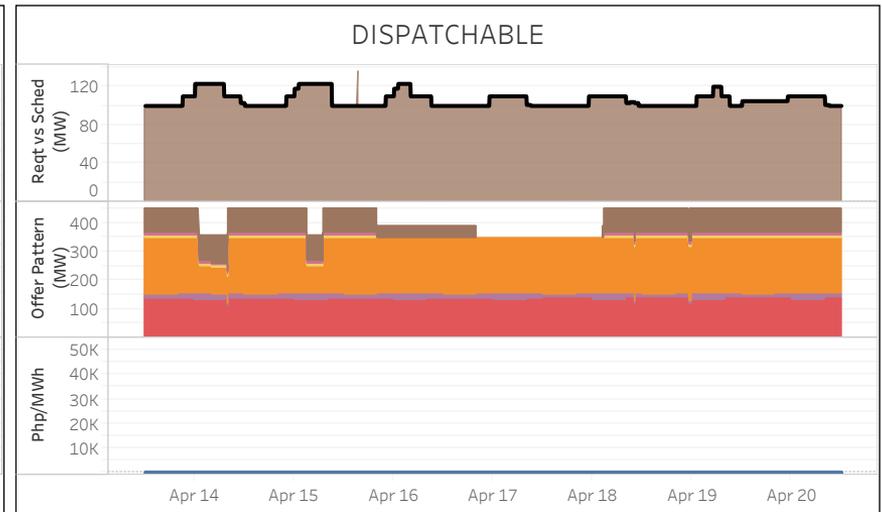
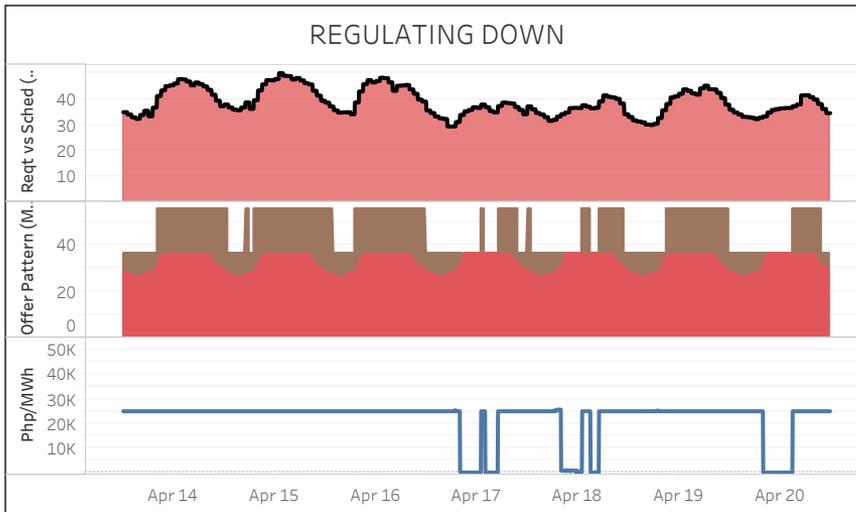
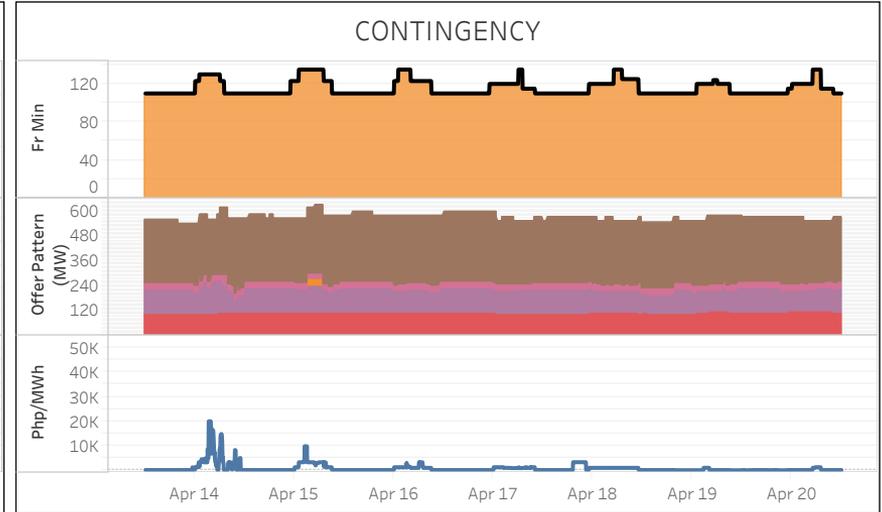
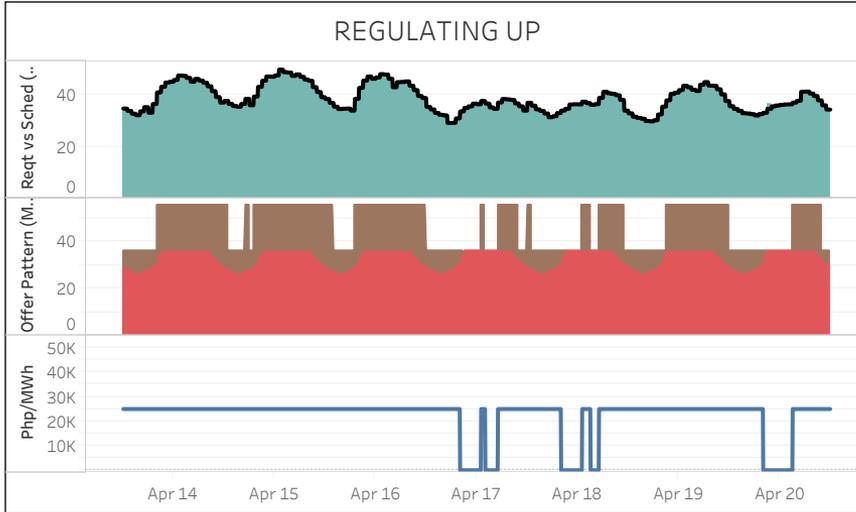
RESERVE MARKET DATA - VISAYAS

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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