



Philippine Electricity
Market Corporation

ANNUAL FORECAST ACCURACY STANDARDS RESULT

2024

23 April 2025 | PEMC Board Room

REQUESTED ACTION

FOR INFORMATION

SUMMARY OF WESM REGISTRATION

on Must Dispatch Generating Units

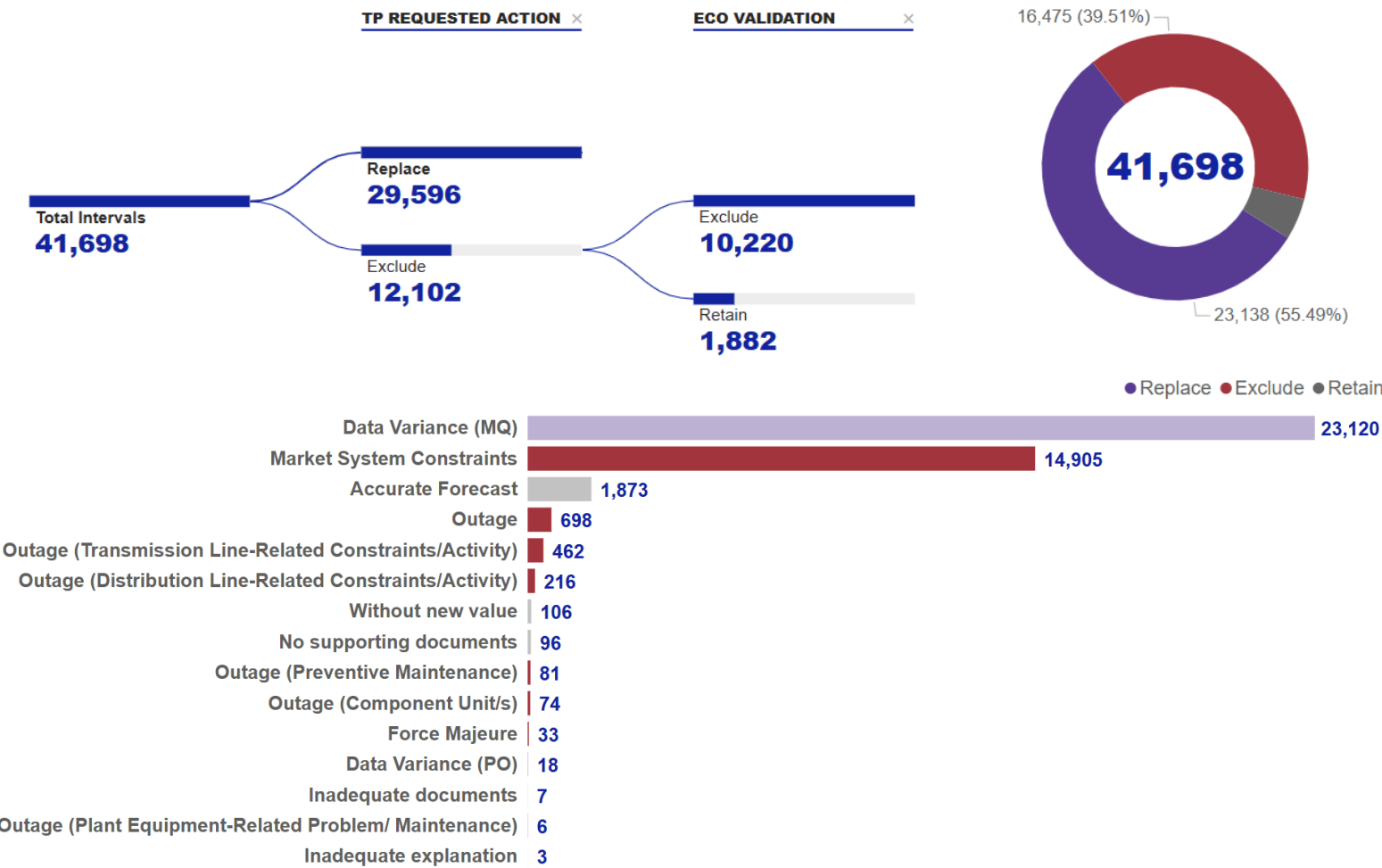
Technology	No. of Resources in Luzon	No. of Resources in Visayas	No. of Resources in Mindanao	Total
Run of River	21	3	16	40
Solar	47	11	5	63
Wind	5	2	0	7
Total	73	16	21	110

As of December 2024, there are **127** facilities registered as MDGU in the WESM. From the registered facilities, **110** facilities from Luzon, Visayas, and Mindanao regions are being monitored; **17** facilities are under test and commissioning.

TOTAL INTERVALS WITH REQUESTED ACTION & ECO ASSESSMENT

December 2024

ECO ASSESSMENT

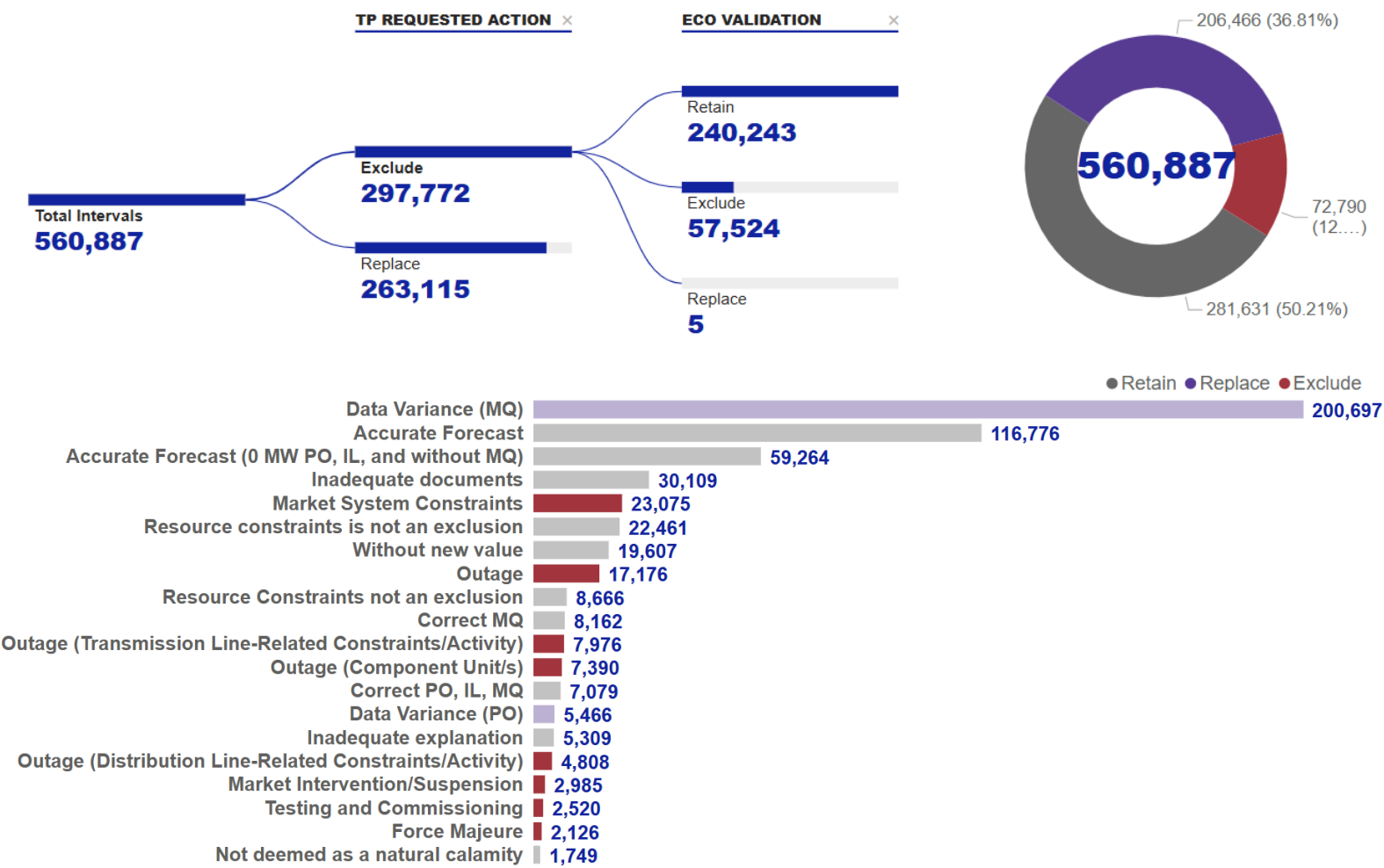


- ECO received a total of **29,596** intervals requesting replacement due to possible Data Variance and a total of **12,102** intervals requesting exclusion.
- Out of **29,596** intervals requesting data replacement, **23,138** intervals were confirmed to be Data Variance (**55.49%** of the intervals for replacement).
- Out of **12,102** intervals requesting exclusion, the ECO accepted **10,220** intervals (**84.45%** of the total intervals for exclusion).

TOTAL INTERVALS WITH REQUESTED ACTION & ECO ASSESSMENT

January to December 2024

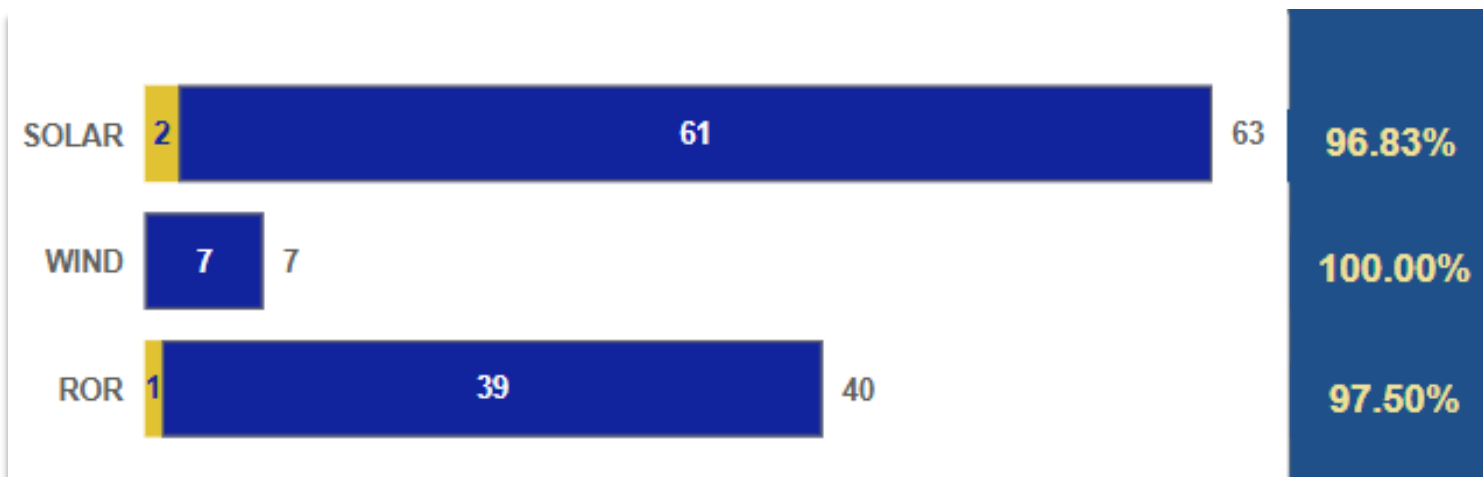
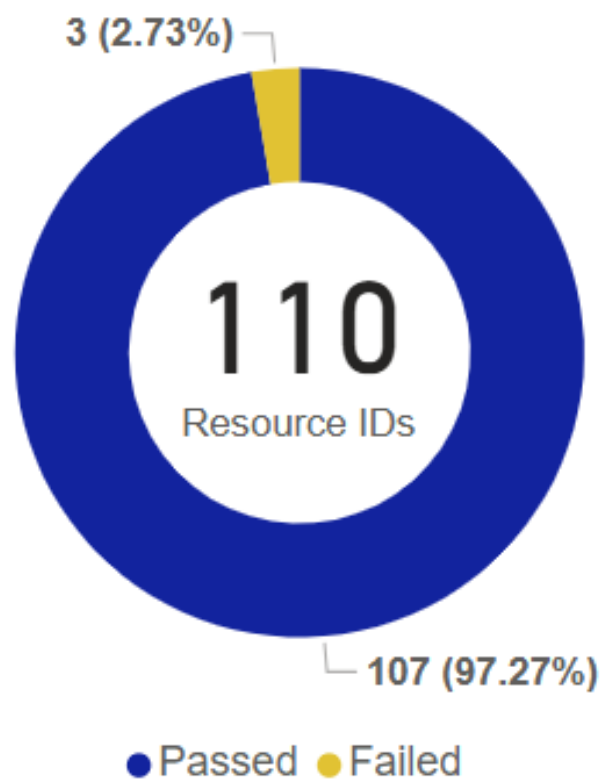
ECO ASSESSMENT



- ECO received a total of **263,115** intervals requesting replacement due to possible Data Variance and a total of **297,772** intervals requesting exclusion.
- Out of **263,115** intervals requesting data replacement, **206,461** intervals were confirmed to be Data Variance (**78.47%** of the intervals for replacement).
- Out of **297,772** intervals requesting exclusion, the ECO accepts **57,524** intervals (**19.32%** of the total intervals for exclusion).

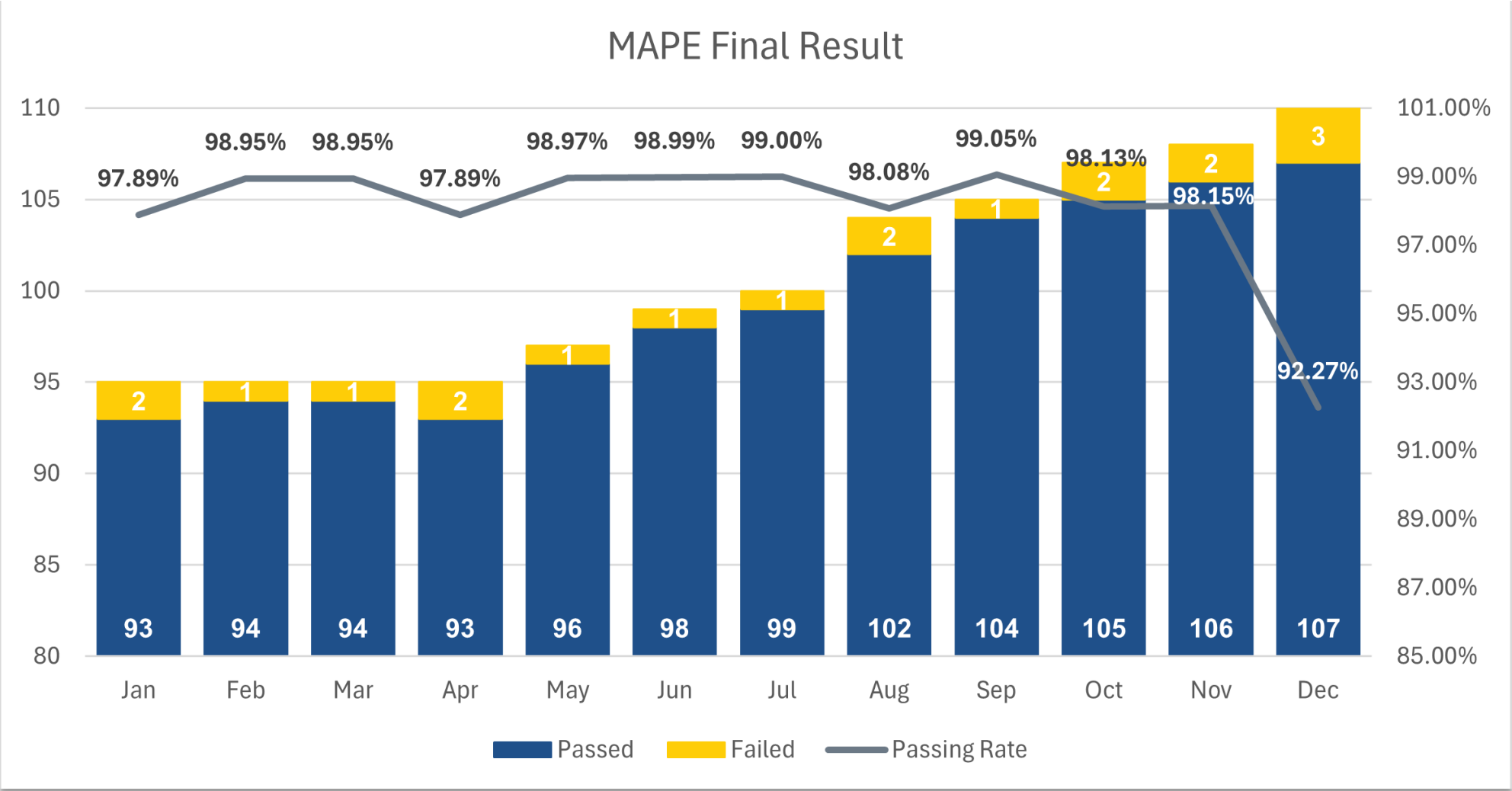


MAPE PERFORMANCE



- 107 out of 110 facilities being monitored performed within the MAPE standards while 3 failed.
- 61 out of 63 Solar Power Plants, 7 out of 7 Wind Power Plants, and 39 out of 40 Run of River Power Plants passed the MAPE standards.

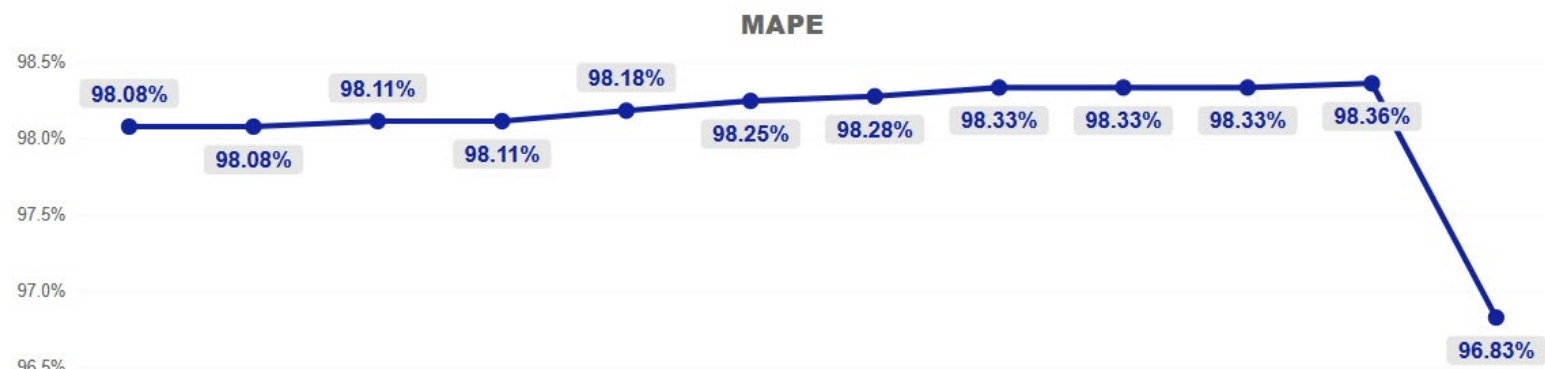
PASSING RATE TREND – MAPE FINAL RESULT



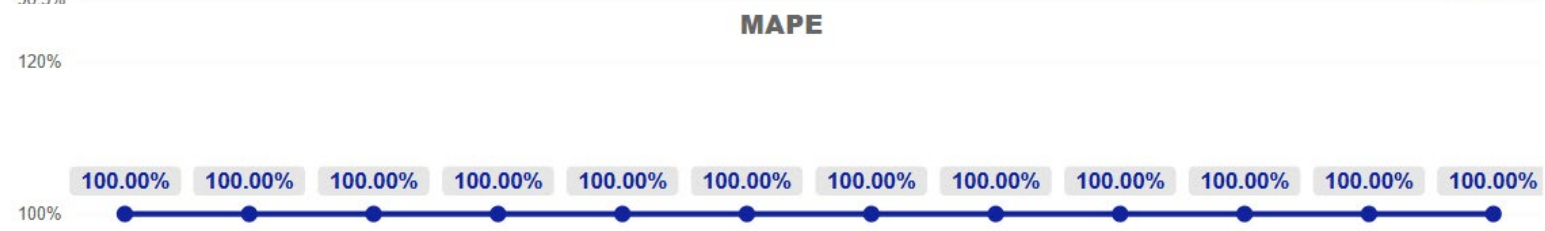
From the **Final MAPE result (January to December 2024)**, the average passing rate is **98.43%**, and the average count of passing plant is **99**.

PASSING RATE TREND – MAPE PER CLASSIFICATION

SOLAR



WIND

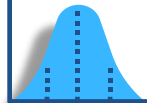


RUN-OF-RIVER

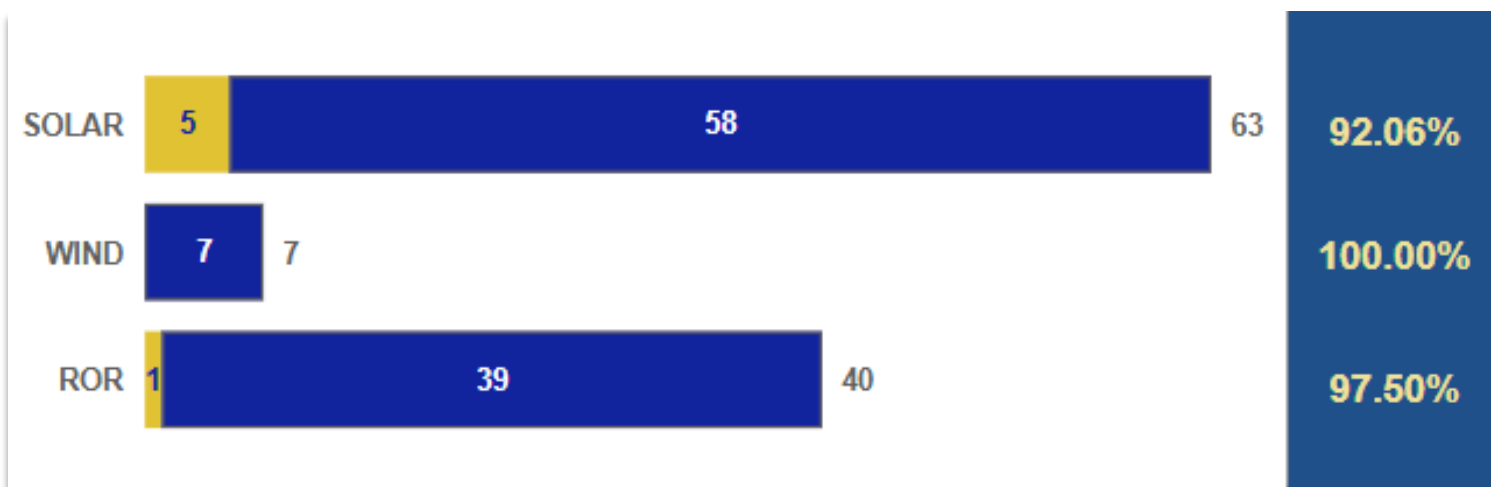
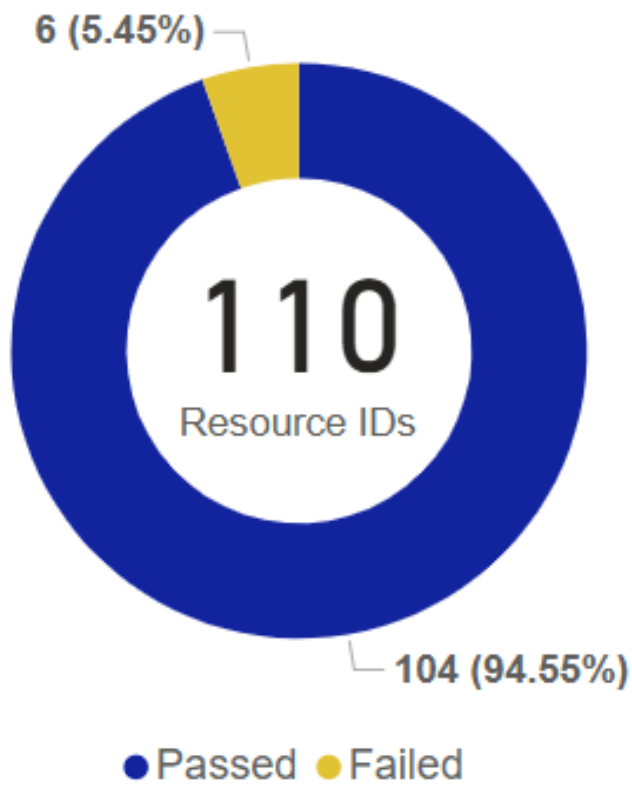


- The **average MAPE passing rates** of Solar, Wind, and ROR Power Plants from the final result (January to December 2024) are **98.10%**, **100.00%** and **98.64%**, respectively.

PERC95

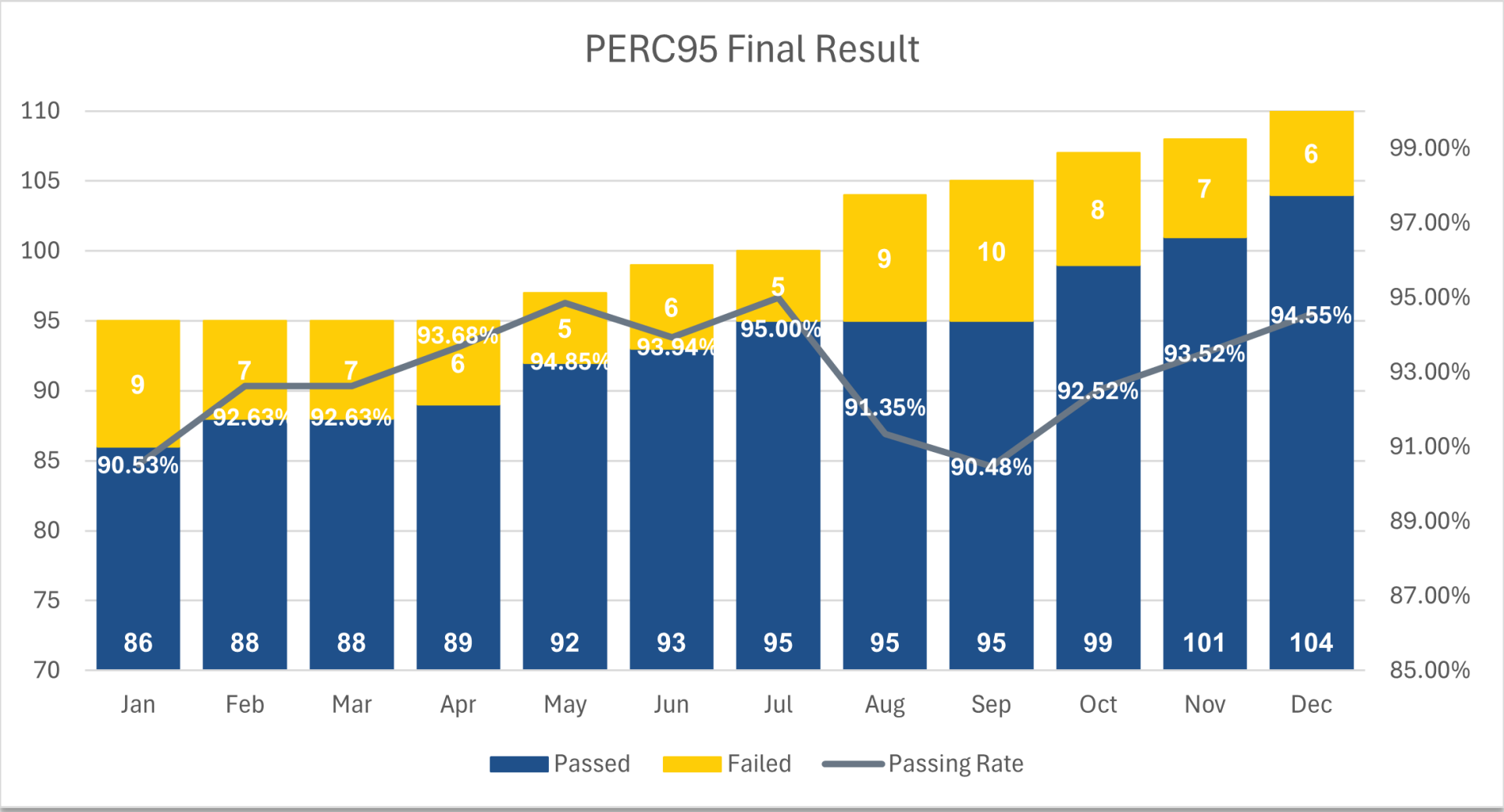


PERC95 PERFORMANCE



- 104 out of 110 facilities being monitored performed within the PERC95 standard while 6 failed.
- 58 out of 63 Solar Power Plants, 7 out of 7 Wind Power Plants, and 39 out of 40 Run of River Power Plants passed the PERC95 standard.

PASSING RATE TREND – PERC95 FINAL RESULT



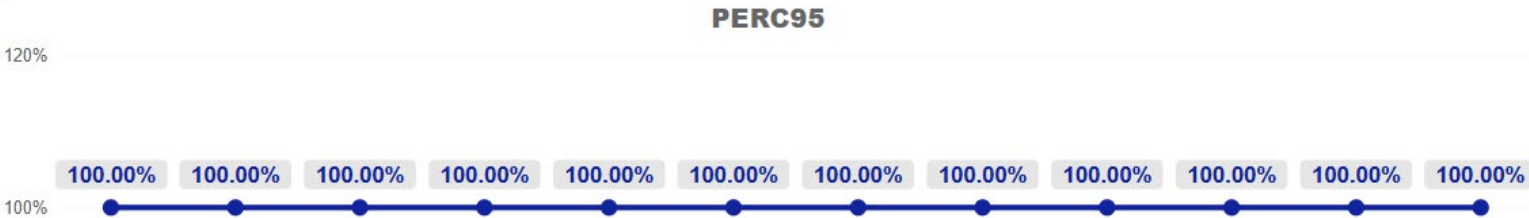
From the **Final PERC95 result (January to December 2024)**, the average passing rate is **92.96%**, and the average count of passing plant is **94**.

PASSING RATE TREND – PERC95 PER CLASSIFICATION

SOLAR



WIND

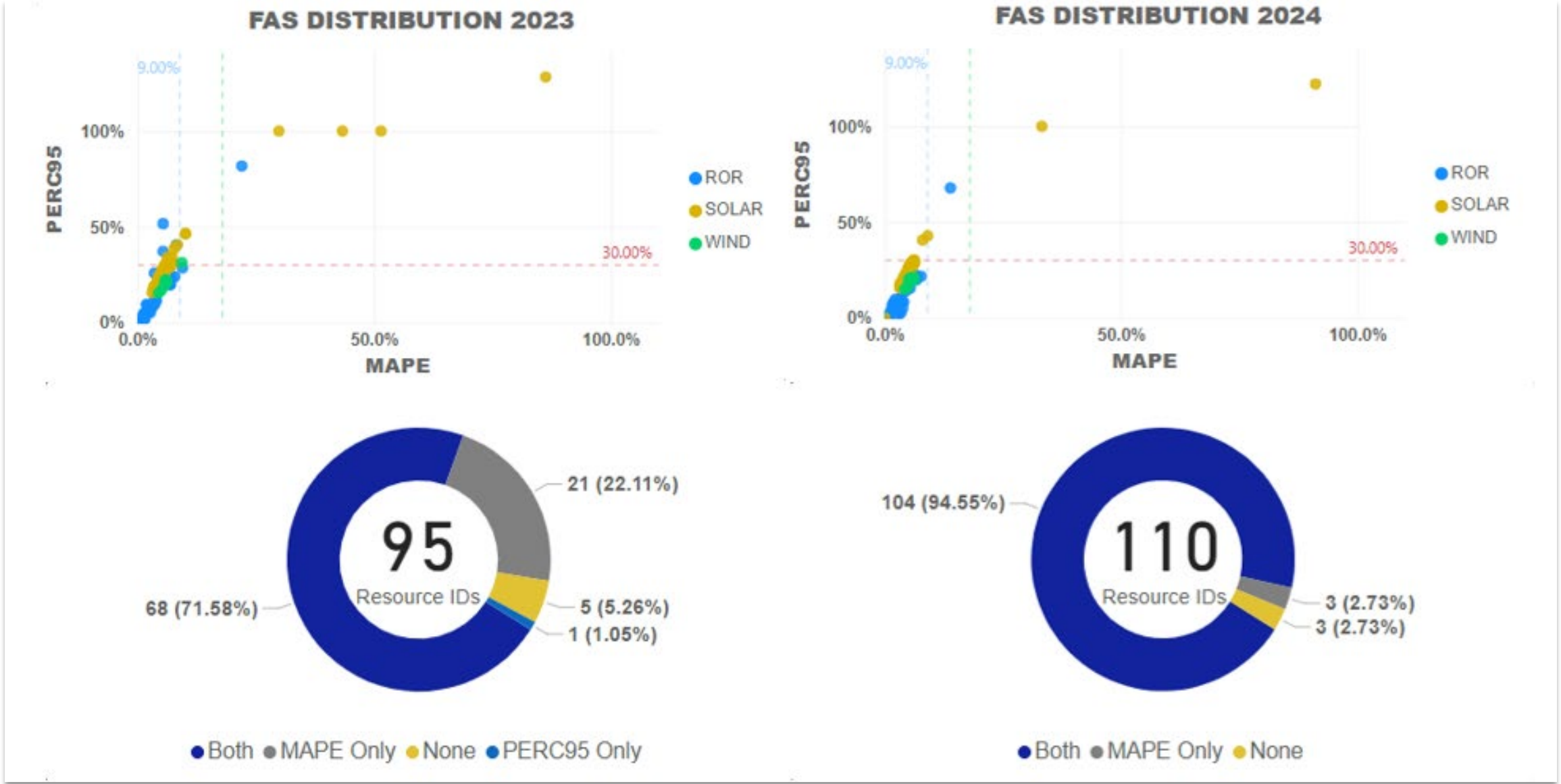


RUN-OF-RIVER



- The **average PERC95 passing rates** of Solar, Wind and ROR Power Plants from the final result (January to December 2024) are **89.04%**, **100.00%** and **97.73%**, respectively.

ANNUAL RESULTS COMPARISON



GENERAL OBSERVATIONS

Factors Contributing to Improved FAS Results	Observations
Active submission and revision of nominations	MDGUs actively submitted and revised nominations, resulting in a significant improvement in forecast accuracy.
Solar nighttime nomination	Most of the solar plants now actively submit 0 MW nighttime nominations, contributing to improved FAS results.
Awareness of MDGUs with FAS obligation	<ul style="list-style-type: none"> • Increased awareness of their obligations related to the FAS process, resulting in improved performance during the third year of monitoring. • Regular coordination and conduct of conferences • Conduct special FAS training
Investment of MDGUs in forecasting tools	Some MDGUs invested in advanced forecasting tools, enhancing their ability to provide accurate projected outputs

Other notable matters:

- Awareness of new MDGUs resulting in improved performance / FAS compliance

PASSING RATE TREND COMPARISON – MAPE AND PERC95

Standards	Type	2022	2023	2024
MAPE Average Passing Rate	Solar	66.85%	91.49%	98.10%
	Wind	97.62%	100%	100%
	ROR	49.15%	90.74%	98.64%
	Overall	65.71%	91.99%	98.43%
PERC95 Average Passing Rate	Solar	30.25%	55.18%	89.04%
	Wind	79.74%	85.71%	100%
	ROR	48.15%	88.71%	97.73%
	Overall	39.88%	69.33%	92.96%

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pemc.info@wesm.ph



+63 2 8631 8734



18F Robinsons Equitable Tower, ADB Avenue
Ortigas Center, Pasig City 1600, Philippines



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