RESOURCE OPTIMIZATION

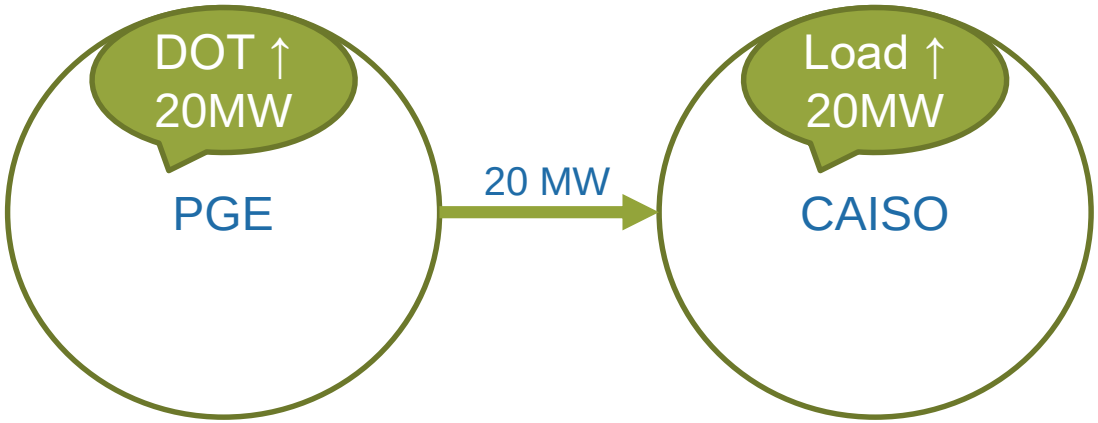
- DOT Variance Metrics

Zhechong Zhao
3/11/2020

Resource Optimization in the EIM

- The EIM is a balancing energy market that optimizes generator dispatch within and between Balancing Authority Areas (BAAs) every 15 and 5 minutes.
- The EIM software can detect the supply/demand imbalance and can dispatch available offered replacement generation from the least cost source

✓ Generation + transaction≈ Load

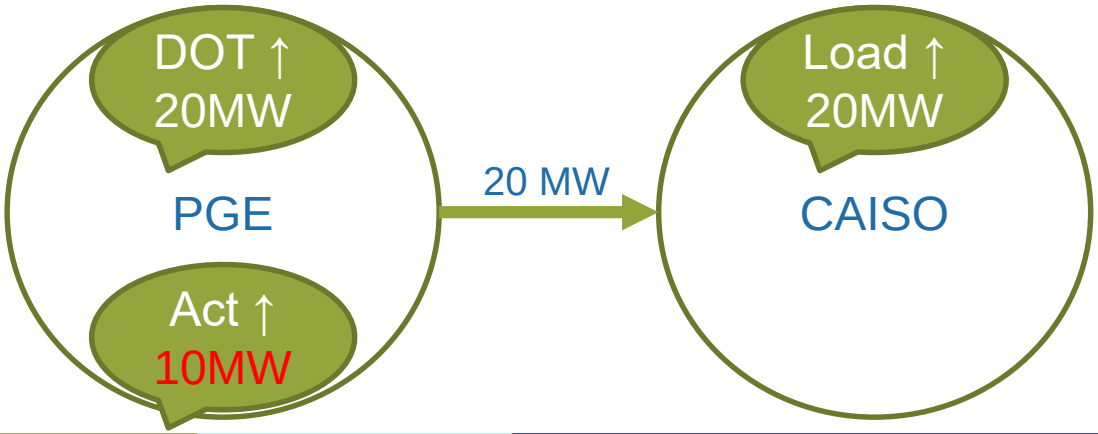


Measuring Performance in the EIM

PGE has spent considerable time to develop the reasonable performance metrics

Business Unit	Before EIM	New - After EIM
Merchant	Trading Vol, Margin, Cost Reduction	EIM Benefits
BAO	CPS1, BAAL	EIM Test Results
Plant	Online Hrs, Unit Trip, O&M	DOT Variance

✓DOT Variance % = ABS(DOT – Meter)/DOT

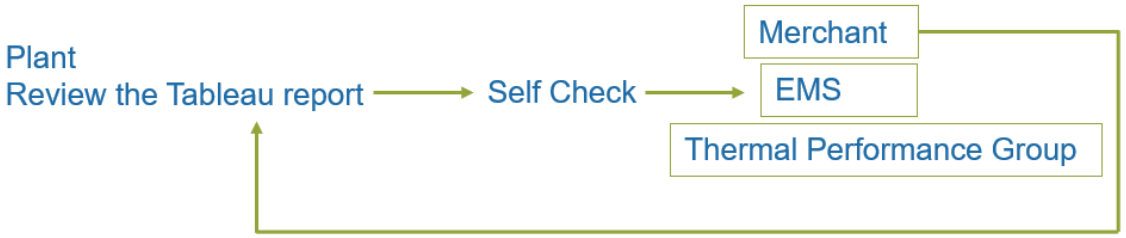


Consequences:

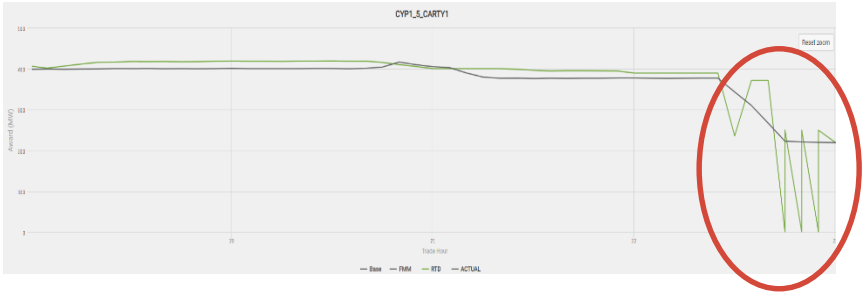
- UIE Imbalance Charge
- Regulating unit may have to pick up the difference uneconomically

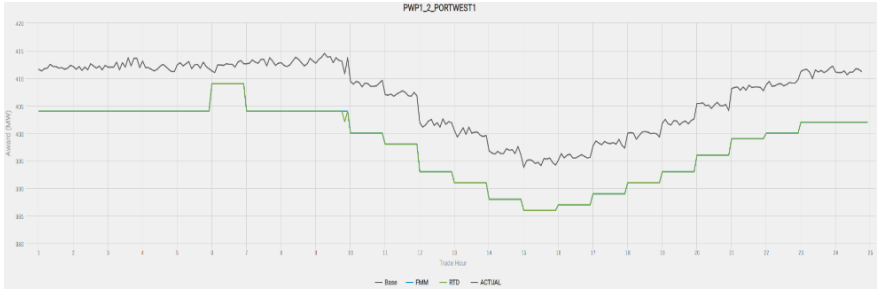
Continued Improvements

- Continually learning and improving process



- Monitor Market update and Facilitate root cause analysis





Thank you