

# Transmission Outage Scheduling Performance and Improvement

**Prepared for the ERCOT WMS** 

August 2015



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## **Executive Summary**

- Advanced notification of planned outage submissions is an important element for a well functioning CRR market
- Many outages in ERCOT are not considered in the CRR model build process due to the timing of outage submission
- A comparison of outage submission timing in ERCOT and PJM showed that the overall performance in PJM was superior
- Addressing the performance gap with a 90-day submission requirement (Proposal 3d) would help increase market efficiency in ERCOT



## Very few outages are considered in CRR model build 'snapshot' and notification significantly varies between ERCOT TSPs





PJM's outage submission rules recognize the needs of the market and promote greater certainty

### **Comparison of ERCOT and PJM**

- Outage Submission Rules Framework-

#### **ERCOT**

#### Advanced Notification

- All outages can be submitted three days prior to their start date
- ERCOT has process for late arriving outages
- No additional requirement to submit outages far in advance

#### <u> PJM</u>

#### Advanced notification

- Outage Submission based on the duration of the outage
  - Outage > 5 days; before the 1<sup>st</sup> of the month six months prior to the starting month of the outage. Additional restriction exist for outages >30 days for the next planning cycle.
  - Outage <= 5 days; before the 1<sup>st</sup> of the month prior to the starting month of the outages.
- Late outages may be cancelled if it causes congestion requiring off-cost operations.
- PJM procedures states: "For transmission outages exceeding five days, the TO shall use reasonable efforts to submit the planned outage schedule via eDART one year in advance"



Addressing the performance gap with a 90-day submission requirement (Proposal 3d) would increase market efficiency

## **Benefits of Improved Rules and Metrics**

- Improved outage scheduling rules would increase market efficiency
- More outages included in the CRR model build process
- Improved modeling has positive impacts on the convergence of the sequential markets
- Addresses a significant root cause of market shortfalls