



Transmission Expansion Advisory Committee Meeting

2014 Market Efficiency Analysis

July 10, 2014



Objectives

- To provide an update on Model Development
- To provide Reactive Ratings implemented in Models for Economic Upgrade evaluation
- To provide Next Steps to be completed



- **Reviewing FSA Queued Generation impacts on constraints**
 - Review generation unit's potential to unduly influence the results based on it's size and location

- **Reviewing level of interchange between PJM and it's neighbors**
 - Reviewing consistently with Interregional planning models



Section 1.5.7 Development of Economic-based Enhancements or Expansions (PJM Operating Agreement)

Addition of Customer Facilities pursuant to an executed Interconnection Service Agreement, Facility Study Agreement or executed Interim Interconnection Service Agreement for which Interconnection Service Agreement is expected to be executed. Facilities with an executed Facilities Study Agreement may be excluded by the Office of the Interconnection after review with the Transmission Expansion Advisory Committee.

Market Efficiency Exclusion Objective:

Avoidance of recommending Market Efficiency upgrades for simulated congestion that results directly from FSA unit.

The following FSA units will be excluded

- O-09, Q-39, T-143
 - FSA was suspended and does not appear to be moving forward
 - Identified upgrades in agreement are external
 - Upgrades not included in RTEP case yet



PJM Reactive Interface Limit Values - Summer/Winter MW

Interface	RTEP Reactive Ratings Summer/Winter
Eastern Interface	7546 / 6788
Central Interface	3450 / 2894
Western Interface	6469 / 5853
APSouth Interface	5850 / 5550
APSouth Contingency	6400 / 6000
Black Oak - Bedington Interface	2100 / 2500
Black Oak - Bedington Contingency	2469 / 2883
50045005 Contingency	3154 / 3017
AEP-DOM Contingency	4233 / 5028
Cleveland Interface	3131 / 3066
BC/PEPCO Interface	7058 / 7058
COMED Interface	3654 / 3654

Notes

- Economic upgrades will be evaluated for all years with 2019 RTEP interface ratings
- COMED Interface only monitored in importing direction
- Winter adjustment based on historical deltas where system outages were minimal
- 2015 interface ratings for acceleration analysis to be provided at a future TEAC



Market Efficiency Preliminary Results:

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|--|----------------|
| • Congestion results | August TEAC |
| • Case files posted | August |
| • Stakeholder feedback on model | August-October |
| • PJM review for acceleration candidates | August-October |
| • Proposal window opens | November |



Market Efficiency Data Posting

- Market Efficiency Web Page located at <http://www.pjm.com/planning/rtep-development/market-efficiency.aspx>
- PJM will post Market Efficiency Case Files for all study years
 - Access requires CEII confirmation
 - Access requires Vendor (Ventyx) confirmation
 - No confidential data provided or used in analysis (i.e. actual bid data)
 - XML Format
- Reference Files
 - Input Assumptions Summary
 - Updated Modeling Document will provide details of setup and modeling methods