



Market Efficiency Long Term Proposal Window Update

PJM TEAC 1/7/15 2 PJM©2015



2014 RTEP Long Term Proposal Window: Market Efficiency

 PROMOD case files, Market Efficiency Training, Input assumptions, and necessary documents provided at following link:

http://pjm.com/planning/rtep-development/market-efficiency.aspx

- PJM identified recommended facilities for which proposals may be submitted.
 - ➤ Recommended facilities provided in 2014 Market Efficiency Congestion Results file at following link:

http://www.pjm.com/~/media/planning/rtep-dev/market-efficiency/2014-market-efficiency-analysis-base-congestion-results.ashx

- PJM has posted a test case with results, B/C user spreadsheet, and ARR mapping files on secure site.
 - > Participants can verify their own results using test case.
 - Benefit/Cost Spreadsheet can be used to evaluate projects.



2014 RTEP Long Term Proposal Window: Market Efficiency

Market Efficiency Economic Planning Models

PJM performs Market Efficiency Economic Planning Studies to identify transmission upgrades within the PJM footprint that will impact market congestion. The Market Efficiency Economic Planning Study Process consists of developing base case and sensitivity study models to evaluate the economic benefits of a transmission project. This process will determine which reliability upgrades, if any, have an economic benefit if accelerated or modified. In addition, PJM and its members may identify new transmission upgrades that may results in economic benefits.

Test case and results
to verify user results

Market Efficiency Test Case, Results, and Benefit/Cost Spreadsheet

Market Efficiency Test Case and Results (144MB ZIP)

Market Efficiency Benefit/Cost Evaluation Tool (XLS)

B/C spreadsheet
to evaluate projects

Descriptions

2014 Market Efficiency Base Case Models

2013 Market Efficiency Base Case Models

PJM 2014 Additional Documents

PJM 2014 Market Efficiency Analysis - Case Descriptions (PDF)
PJM Market Efficiency - Procedure for Executing Cases (PDF)
PJM ME Base - 12.8.2014 ARR (XML)
ARR Market Pnode to Promod Mapping (XLS)



2014 Market Efficiency Acceleration Candidate

Constraint:

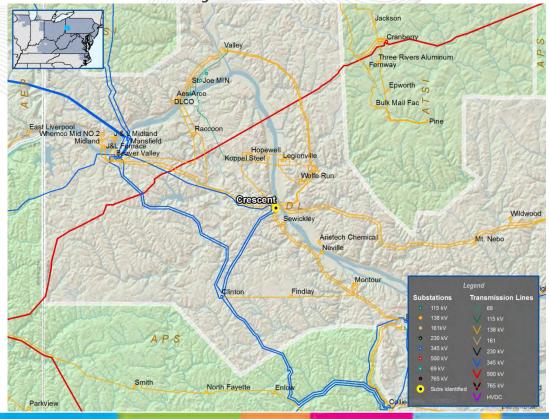
Crescent 345 kV Transformer

> Area: DUQ

Congestion:

2019 Input Assumptions with 2015 Topology: \$29 million

- Approved Reliability Project (B2563)
 - Operate with the Crescent 345/138 kV #3 autotransformer in-service by replacing 8 over dutied 138 kV breakers at Crescent, 3 138 kV breakers at Beaver Valley, install #1 section 345 kV breaker for 331 circuit at Crescent
 - Original ISD: 6/1/2019
- Recommended Solution: Project Acceleration
 - ➤ No Cost to accelerate to 1/1/2018





Questions?

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