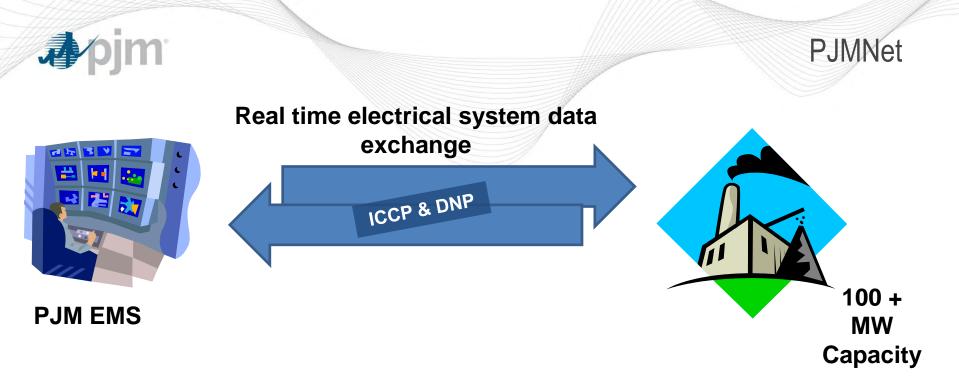


# Member Communications Issue

Technical Update & Solutions Matrix Overview

September 26, 2013



- Telecommunication circuits installed by PJM .
- Connection may or may not be redundant, and may also include an additional circuit to a member's disaster recovery/back up location.
- PJMNet Connection is not synonymous with a telecommunication circuit.

**PJMNet Redundancy** 



• ICCP

- Redundant circuits required

- DNP3 / RTU
  - Redundant circuits evaluated on impact to PJM system
  - Connection may or may not be redundant
    - Single Telcom circuit
    - Redundant Telcom circuit



Status Quo Transmission/Generation Owner PJMNet Eligibility

- Transmission Companies:
  - Required by PJM for System Reliability purposes
  - One connection per transmission entity
  - PJM decides eligibility for connection
- Generation Companies:
  - Eligibility dependent on Generation capacity
  - Generation MWs must be greater than Threshold
    - Generating Station under the Threshold connect through Internet SCADA
  - One PJM Connection per Voting Member
    - Generator, Market Operation Center, Group of Generators



#### Package B

**PJMNet connections available for Voting Members** 

- For Voting Member Companies that meet some or all of the following requirements:
  - Are not eligible due to generating capacity below current Threshold
  - Already have an valid existing PJMNet connection under their voting membership and desire additional connections

## Cost Allocation

- PJM will pay for all connections they deem necessary for reliability purposes
- Voting member companies can purchase up to 5 additional connections



#### Package C

**PJMNet connections available for Voting Members** 

- For Voting Member Companies that meet some or all of the following requirements:
  - Are not eligible due to generating capacity below current Threshold
  - Already has a valid existing PJMNet connection under their voting membership and desire additional connections

## Cost Allocation

- All voting member companies required to purchase first connection
- PJM will pay for any additional connection they deem necessary for reliability purposes
- Voting member companies can purchase up to 5 additional connections