PJM’s Regional Transmission Expansion Planning Process

Determining the Need for Infrastructure

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Electric Transmission: Meeting the Needs of the 21st Century

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PJM - Part of the Eastern Interconnection

KEY STATISTICS
- PJM member companies: 500+
- Millions of people served: 51
- Peak load in megawatts: 144,644
- MWs of generating capacity: 164,905
- Miles of transmission lines: 56,250
- GWh of annual energy: 729,000
- Generation sources: 1,271
- Square miles of territory: 164,260
- Area served: 13 states + DC
- Internal/external tie lines: 250

- 26% of generation in Eastern Interconnection
- 23% of load in Eastern Interconnection
- 19% of transmission assets in Eastern Interconnection

19% of U.S. GDP produced in PJM
PJM’s Planning Process - Achieving Reliability

Generation

Transmission
Constraints

Customer
Load

Demand
Response

Distributed
Generation

[Diagram showing the relationships between Generation, Transmission Constraints, Customer Load, Demand Response, and Distributed Generation]
Transmission Expansion Drivers

- Import Capability Limitations
- Wind Generation Under Development
- Coal Generation Under Development
- Nuclear Generation Under Development
- Congestion
- Generation Retirements and Exports to NYC
DOE Congestion Report

Critical Congestion Area
Direction of increased flows needed to reduce congestion in Critical Congestion Area

Direction of increased flows needed to reduce congestion in Congestion Area of Concern

Map showing critical congestion areas and the direction of increased flows needed to reduce congestion.
Mid-Atlantic Area National Corridor

Note: County boundaries are shown.
Public Policy Impacts - Achieving Reliability

- Public Policy – Siting/Environmental
- Public Policy – Energy Efficiency, Land Use, Building Codes

Generation

Transmission Constraints

Customer Load

Demand Response

Distribute Generation

Load

Generation