Welcome to PJM!

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PJM Interconnection
PJM Background
PJM – Focus on Just 3 Things

1. **Reliability**
   - Grid Operations
   - Supply/Demand Balance
   - Transmission monitoring

2. **Market Operation**
   - Energy
   - Capacity
   - Ancillary Services

3. **Regional Planning**
   - 15-Year Outlook
PJM as Part of the Eastern Interconnection

- 27% of generation in Eastern Interconnection
- 28% of load in Eastern Interconnection
- 20% of transmission assets in Eastern Interconnection

KEY STATISTICS

- PJM member companies: 900+
- Millions of people served: 61
- Peak load in megawatts: 165,492
- MWs of generating capacity: 183,604
- Miles of transmission lines: 62,556
- 2013 GWh of annual energy: 791,089
- Generation sources: 1,376
- Square miles of territory: 243,417
- Area served: 13 states + DC
- Externally facing tie lines: 191

21% of U.S. GDP produced in PJM

As of 4/1/2014
PJM Expansion History

- 1927 – Started three utility power pool
- 1997 – Started RTO with eight TOs
- June 2002 – AP Joined
- May 2004 - ComEd joined
- October 2004 – AEP/Dayton
- May 2005 – Dominion joined
- January 2006 – Duquesne joined
- June 2011 – FirstEnergy joined
- January 2012 – Duke joined
- June 2013 – EKPC joined
Sustaining EMS Reliability at PJM

RESILIENCY and MONITORING
Dual Primary Control Centers

Illustration of PJM’s redundant communication between AC1 and AC2 and continuous communication, operational awareness of our Member Companies

PJM

PJM Member Companies
AC² Web Services/SOA Conceptual Model

- Industry standard messaging architecture
- Business service focused
- Security built into the architecture
- “Plug and “play” architecture for power systems
PJM 7X24 IT Operations Center (ITOC)
Video Tour of PJM’s Control Room