



# PJM GridEx 2023 Lessons Learned

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# PJM High Level Overview

- Totals
  - 70 Total Injects
  - 52 Injects affected the Bulk Electric System
  - Over 600 phone calls to/from PJM simulator

# Participant High Level Overview

- Totals
  - 17 Transmission Owners
  - 4 Generation Owners
  - 24 Government Agencies (participating and observing)

## The Good

- Focus on “black sky” events allowed participants to test their “used less” policies
- Planning meetings were useful
- Moves prior to Drill Day helped set the stage
- PJM Drill Sharepoint worked well
- Pace of injects was manageable

## The Good

- Working with State Agencies
  - Added realism
- Engaging internal business lines not normally involved with drills
- The emphasis on supply chain and restoration issues

# Challenges

- Communications
  - One phone number per entity
- Be more specific regarding initial conditions
  - Generation Mix
  - Transmission Topology
- Staffing challenges (attending meetings)

# Challenges

- Use of E-ISAC website and submitting forms
- Improve inject coordination
  - Review inject timing with each participant prior to Drill Day
- Improve adjacent member inject coordination
  - Additional meetings with members

# PJM Grid Security 2024

- October 29, 2024
  - Tuesday prior to Election Day
- Invitations to go out in April, kickoff in late May
- Open to Government Agencies to participate or observe
- PJM footprint only
- Focus on cyber/physical security events

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