

Coordination of Studies & Databases

IPSAC

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Overview

- Data base development and coordination of analysis is a “bottom-up” process
- Beginning with each region’s (ISO/RTO) updates of their own databases & models for use in their regional studies
- This information is also provided as inputs to various inter-regional planning processes
 - FERC/DOE
 - NERC
 - NPCC/RFC
 - Northeastern Planning Protocol

Regional Databases & Models

- **Load Forecast Updates**
 - Key Input to all planning models
- **Resource Requirements/Reserve Margin**
- **Base Case Resources**
 - Supply
 - Transmission
 - Demand Response
- **Models**
 - Load flow (PSS/E)
 - Resource Adequacy (MARS)
 - Production Cost (MAPS, PROMOD, Grid View, IREMM)
 - Stability (PSS/E)
 - Short Circuit (ASPEN, PTI)

Regional Studies*

- Resource Adequacy
- Reliability Assessments
- Economic (Congestion) Analysis
- Interconnection Studies
 - Generation
 - Merchant Transmission
- Requests for Transmission Service
- Special Studies
 - Scenario Analysis
 - Wind Integration
 - Environmental

***Note: Each ISO/RTO must comply with its own Tariffs & Procedures. Inter-Regional studies leverage the results of these regional analyses.**

Inter-Regional Updates

- **National**
 - FERC Form 715
 - EIA Form 411
 - DOE Congestion Studies
- **NERC**
 - ERAG
 - ERAG – Powerflow and dynamics databases
 - Other data compiled annually, GADS, TADS
- **NPCC/RFC**
 - NERC databases coordinated through NERC regional entities through Base Case Development process
- **Northeastern Protocol**
 - Utilizes above databases as required
 - Customized for Northeast Regional studies

Technical Coordination

- Data base development and coordination is an ongoing process among regions
- Studies and scoped and coordinated across regions
- Regions share
 - “Lessons learned”
 - Best practices
 - Advances in technology and software