SPP RE 2013 Summer Reliability Assessment

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SPP RE Trustees Meeting

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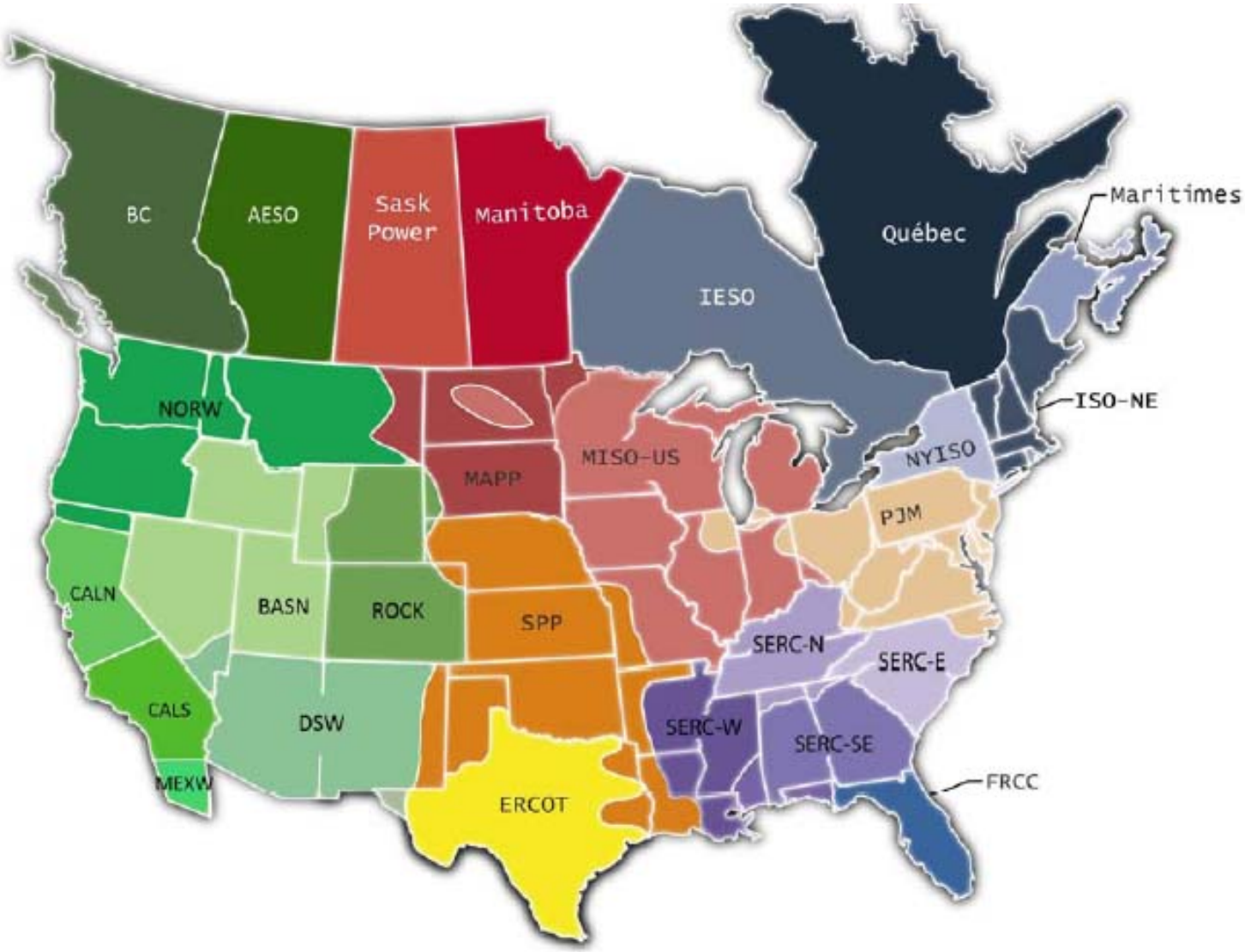
Southwest Power Pool

Summer Reliability Assessment

- Projected seasonal outlook for summer 2013
  - Focus on Reporting Area peak (August)
- Primary objectives:
  - Identify areas of concern
  - Make recommendations for mitigations/actions as needed
- Provides high-level overview of summer reliability assessment for SPP reporting area (SPP RE + Nebraska)
  - Demand growth
  - Capacity adequacy
  - Operational reliability

Assessment Area



Assessment Process

- Created with a combination of projected data/information submitted by SPP Reporting Entities and SPP historical actuals
- SPP staff validate and cross-check data to verify consistency
- SPP staff aggregate information into one dataset for entire assessment area
- SPP staff use peer review process to validate data and develop reliability assessments
- Assessment then undergoes peer-review process at NERC prior to finalization

2013 Summer - Coincident Demand & Capacity

- 55,352 MW actual 2012 summer peak demand
- 53,512 MW projected 2012 summer peak
- 54,168 MW projected 2013 peak demand
- 79,359 MW Existing Capacity resources
  - 44% Gas
  - 36% Coal
  - 10% Wind
  - 9% Other (Hydro, Nuclear, Oil, etc.)
  - 1,028 MW added since previous summer assessment

Major Transmission Additions

- 172 miles of transmission added since 2012 summer assessment
  - Post Rock – Axtell 345 kV line (136 miles)
  - Sooner – Cleveland 345 kV line (36 miles)
- Several other transmission upgrades, transformer additions, substation configuration changes since 2012 summer

Reliability and Reserves

- Reserve margins adequate
  - SPP members required to maintain 12% capacity margin - translates to a 13.6% reserve margin
  - Forecasted reserve margin is 54.5% for summer 2013
- Reliability issues not expected
  - Operations has no ongoing identified concerns
  - Wind integration continues to be an active issue
  - Extreme weather not expected to impact reliability

Environmental Regulations

- SPP continues its new bi-annual study process
  - 4-year look ahead for reliability issues
  - Weekly snapshots through the 4 years
  - Scheduled outages taken into account
- No expected impact in 2013 summer timeframe

Next Steps / Summary

- NERC publishes in May
- Assessment area has sufficient capacity to meet forecasted demand during 2013 summer assessment period