The International ERO:
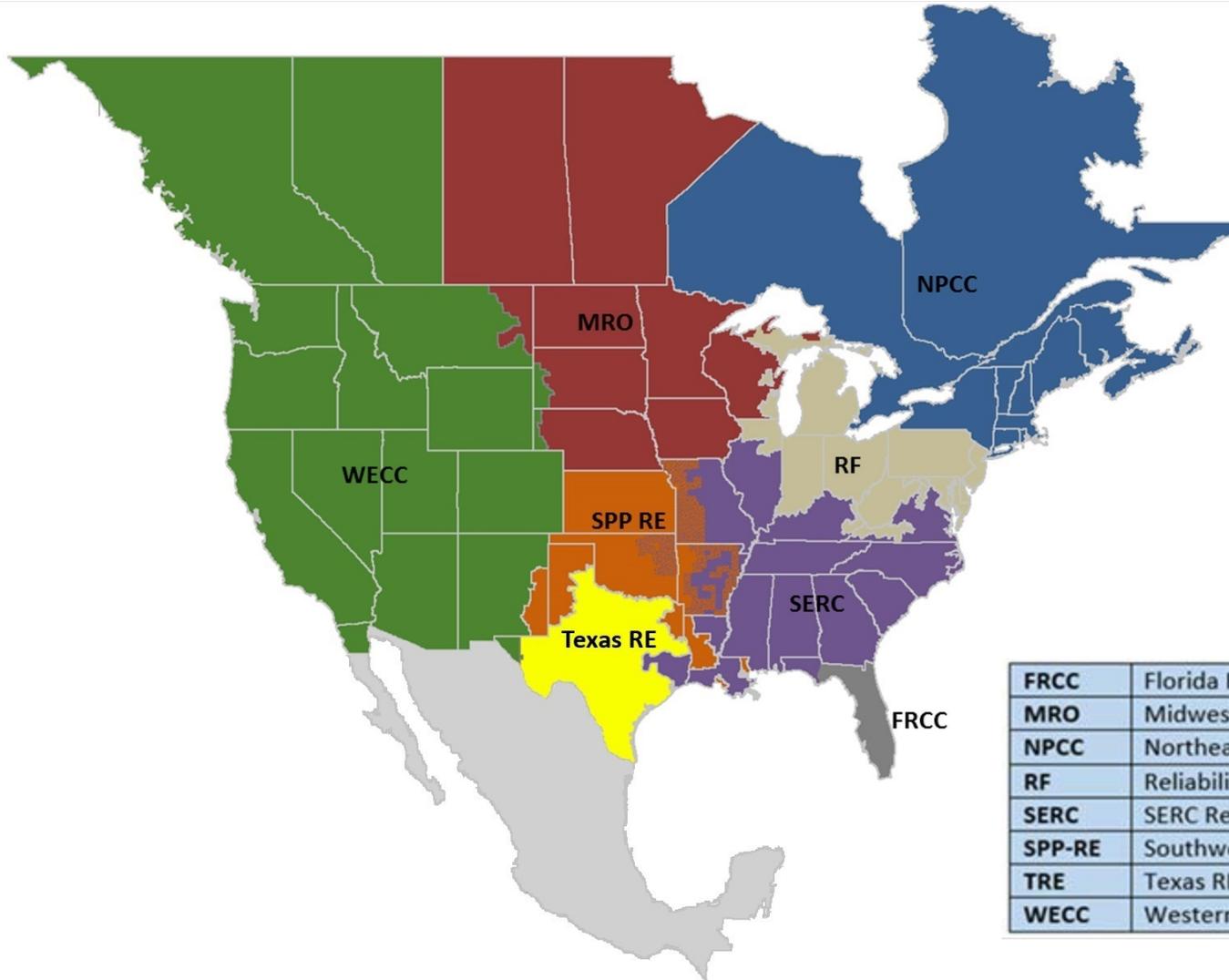## Maintaining Reliability in a Changing Grid

Laura Hussey, Director, International Relations
CAMPUT 2017 Panel "Energy Systems in Transition: Winds of Change"
May 8, 2017

RELIABILITY | ACCOUNTABILITY

FRCC	Florida Reliability Coordinating Council
MRO	Midwest Reliability Organization
NPCC	Northeast Power Coordinating Council
RF	ReliabilityFirst
SERC	SERC Reliability Corporation
SPP-RE	Southwest Power Pool Regional Entity
TRE	Texas RE
WECC	Western Electricity Coordinating Council

RELIABILITY | ACCOUNTABILITY

- Non-profit corporation governed by independent board
- Core program areas:
  - Reliability Standards
  - Compliance Assurance and Enforcement
  - Reliability Assessments
  - Reliability Risk Management (Situation Awareness and Event Analysis)
  - E-ISAC (Physical and Cyber Security)
- Eight regions perform delegated functions

- Annual State of Reliability Report
  - Backward look, monitoring key metrics
- Key Findings from NERC's 2016 State of Reliability:
  - Decline in protection system misoperations
  - Bulk power system (BPS) resilience to severe weather improved
  - Human error has decreased
  - Overall reduction in events affecting the BPS
  - BPS system modeling is improving
  - Changing resource mix may present challenge for frequency and voltage support
- 2017 State of Reliability Report available in June 2017

- NERC provides independent, objective analysis of BPS reliability risks
  - Annual Long-Term Reliability Assessment (see 2016 report)
  - Seasonal (summer and winter) assessments
  - Special assessments of policies or individual reliability risks, such as:
    - Operational Risk Assessment with High Penetration of Natural Gas-Fired Generation
    - Essential Reliability Services Report and Videos (report Abstract)
    - Distributed Energy Resources Connection Modeling and Reliability Considerations
  - Lessons Learned: Analysis of individual events

Questions and Answers

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