



TEXAS RE

NERC Gas-Electric Risk Mitigation

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Key Reliability Risks and Mitigation Opportunities

1. Natural Gas Supply and Transportation Risks

- Production Well Freeze-Offs and Winterization
- Dependence on Electricity
- Pipeline Constraints
- Facility Outage / Disruption

3. Resource Adequacy and Capacity to Support Large Ramps Risks

- Resource Performance During Winter Peak Demand
- Generation Preparedness and Fuel Assurance

2. Electric and Gas Market Harmonization Risks

- Fuel and Transportation Scheduling
- Unit Commitment
- Operational Coordination
- Planning Coordination

4. Vulnerabilities in Generator Winterization Risks

- Implementation Challenges
- Actual Winter Conditions More Severe than Design Capability
- Back-up Fuel Unavailability

Mitigation Opportunities

- Enhanced Winterization
- Capacity and Energy Planning Enhancements
- Operational Coordination and Preparedness
- Improved Communication Protocols
- Market Reforms
- Cross-Market and Regulatory Coordination



NERC Work Plan Highlights

Mitigations
we can lead

**NERC-Driven
Initiatives**

Compliance
Monitoring

Standards
Development
Projects

Performance
Analysis,
Event Reviews

Objective
insights from
assessments

**Study-Driven
Initiatives**

BPS
Situational
Awareness
Tools

Long-Term
Reliability
Assessment
Enhancements

Special
Studies and
Coalitions

Supporting
our partners

**Engagement-
Driven
Initiatives**

Natural Gas
Industry

Regulatory
Coordination

Market
Reforms



High Priority Workplan Items

Complete Reliability Standards project requiring energy reliability assessments for long-term planning

Identify potential enhancements to NERC Reliability Standards regarding operational reserves, unit commitments, and scheduling needs

Guidelines for natural gas pipeline and production wellhead winterization

Improvements to NERC's annual Long-Term Reliability Assessment (LTRA) capturing natural gas fuel availability risk

Assess the adequacy of natural gas infrastructure to meet future electricity demand and generation needs through tailored regional studies

Improve operational data sharing and coordination protocols between gas and electric system operators



Recent and Upcoming Texas RE Outreach

June 8 – AGA and NARUC-sponsored gas-electric mini-forum prior to Southeastern Association of Regulatory Utility Commissioners (SEARUC) meeting

October 1 – Texas RE Winter Weatherization Workshop featured gas-electric coordination panel with RRC, Argonne Labs, NERC, and FERC

November 5 – Texas RE Fall Standards, Security, and Reliability Workshop includes an update on gas-electric coordination by NAESB's Jonathan Booe

Upcoming NERC, FERC, and Regional Entity report on blackstart unit availability, including recommendations to improve gas-electric coordination, and a follow-up item from Winter Storm Elliott for the Eastern and Western Interconnections

