RELIABILITY | RESILIENCE | SECURITY

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NERC

NERC Electric-Natural Gas Strategy Update

PJM Electric-Gas Coordination Subcommittee

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Strategic Objective and NERC's Approach

Strategic Objective

With the continued integration of the gas and electric systems into a unified, interdependent energy system, it has become imperative for continued advancements in electric-gas coordination.

NERC is seeking to enhance the gas-electric harmonization utilized in the development of assessments, situational awareness and potential, future reliability standards

NERC's Approach

- **Inform** risk mitigation through real time awareness, assessments and objective insights
- **Identify** mitigations we can lead
- **Collaborate** with stakeholders to drive mitigation actions outside of NERC's purview

Strategic Focus Areas









Implement new tools supporting the monitoring of critical gas assets impacting BPS operations and generator performance

Incorporate gas infrastructure adequacy impacts into assessment studies

Identify and implement potential electric-gas enhancements to NERC Reliability Standards

Engage industry and government agencies to drive action on relevant electric-gas coordination initiatives

Inform

Identify

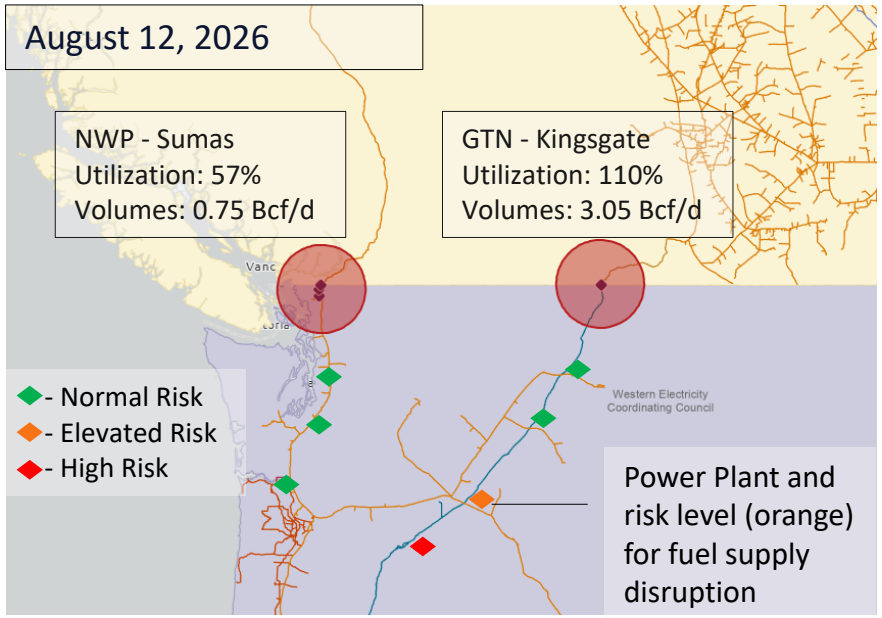
Collaborate

Bulk Power System Awareness and Real-Time Notices

Implement new tools supporting the monitoring of critical gas assets impacting BPS operations and generator performance

Situational Awareness

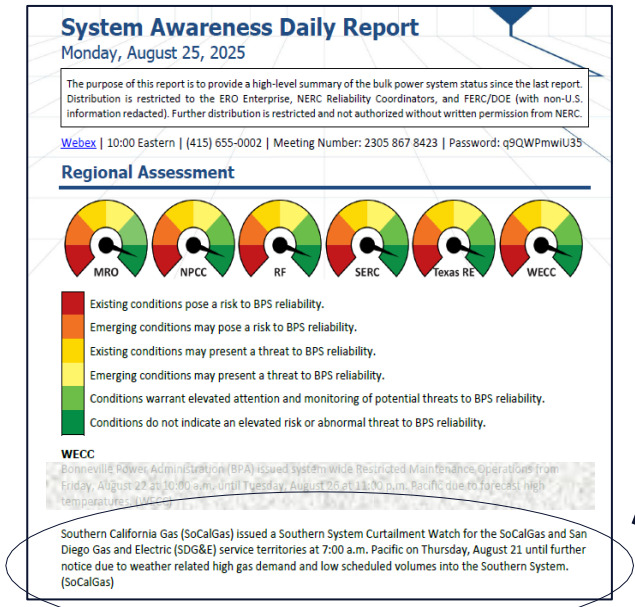
Map pipeline constraints daily and identify delivery points at maximum utilization in typically constrained areas



Note: Plant color/location are conceptual/illustrative

Real-Time Notices

Provide near real-time gas pipeline data for increased situational awareness



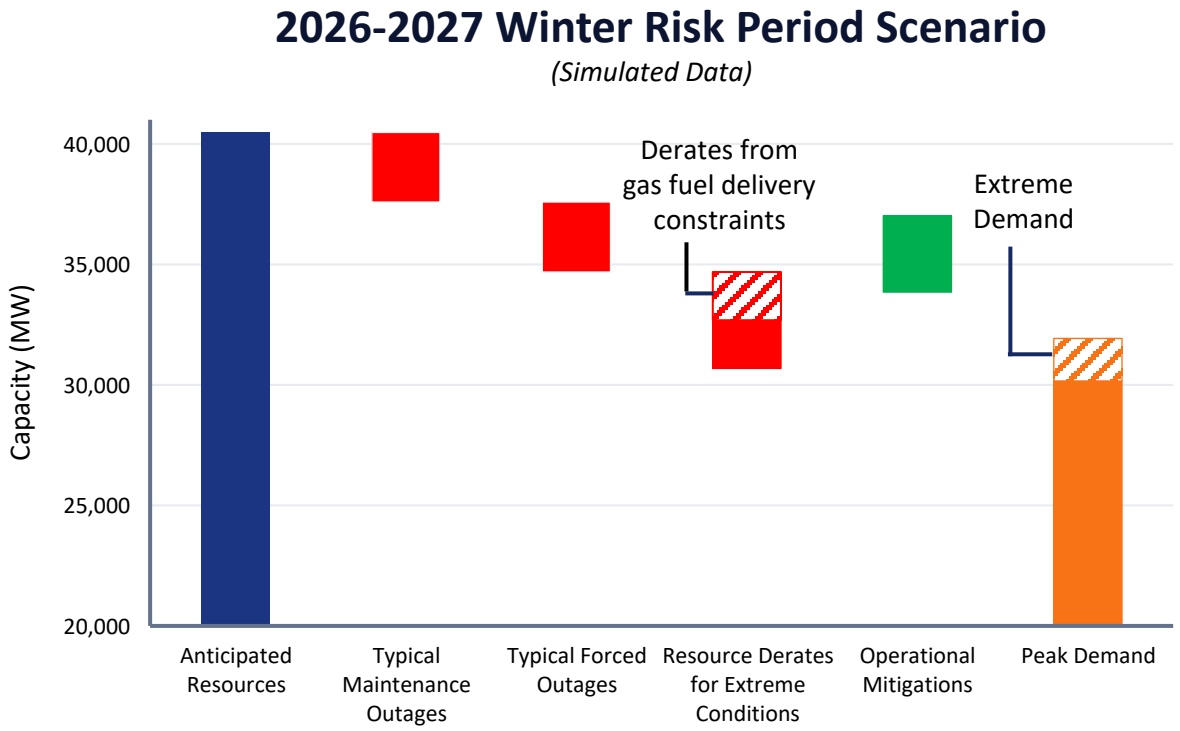
"Southern California Gas (SoCalGas) issued a Southern System Curtailment Watch for the SoCalGas and San Diego Gas and Electric (SDG&E) service territories at 7:00 a.m. Pacific on Thursday, August 21…."

Reliability Assessments and Performance Analysis

Incorporate gas infrastructure adequacy impacts into assessment studies

Winter Reliability Assessment

- Analyze data from NERC's Generating Availability Data System and the Energy Information Administration to develop a more precise outage profile for gas resources
- Map gas pipeline constraints across the continent to enhance awareness of tight supply conditions ahead of winter
- Survey regional entities on what percentage of their gas fleet has firm fuel supply arrangements for winter



Reliability Assessments and Performance Analysis

Incorporate gas infrastructure adequacy impacts into assessment studies

Long-Term Reliability Assessment

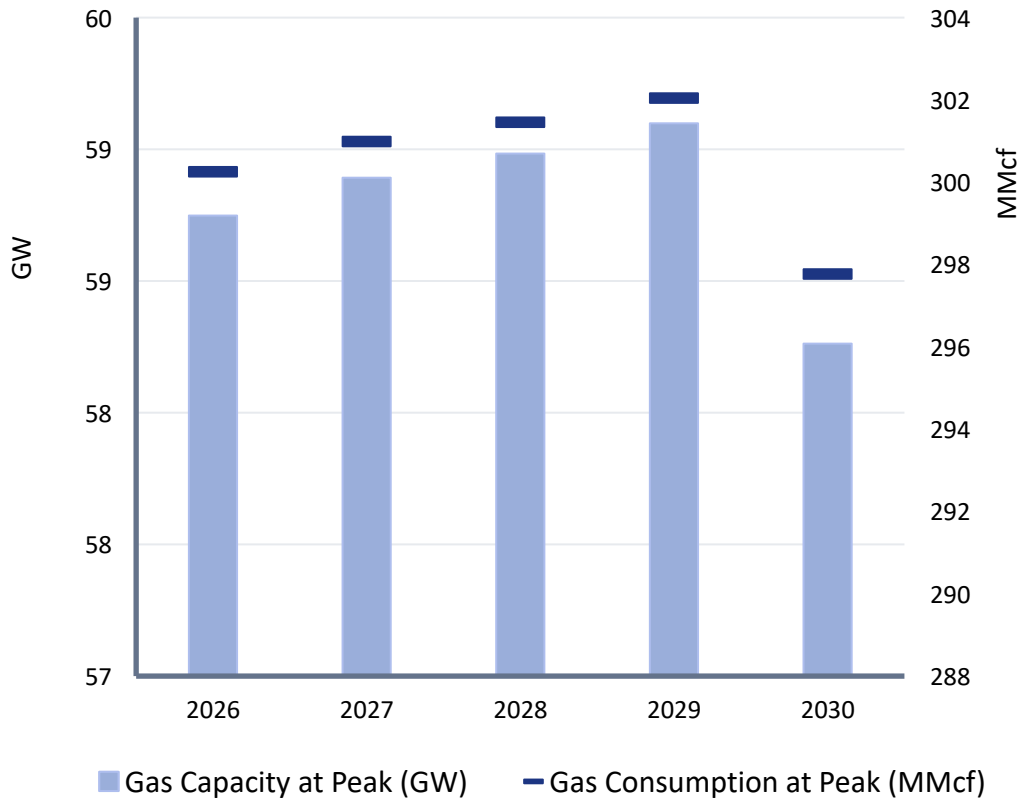
- Evaluate current and planned pipeline capacity available to supply anticipated generation demand
- Develop illustrations of natural gas fuel supply needs over the planning horizon (see example)

Other Assessment Work

- Collaborate with WECC to harmonize NERC analysis with insights from the WECC natural gas-electric interdependence study slated for 2027

WECC Gas Capacity and Consumption Projections

(simulated data – conceptual/illustrative)



Standard Identification and Development

Identify and Implement potential electric-gas enhancements to NERC Reliability Standards

Planning Energy Assurance Standard

- New Standard will help entities work together to assess risks, remove information gaps related to the state of the electric grid, and identify issues affecting their ability to deliver energy reliably
- To do this, entities will conduct Energy Reliability Assessments (ERAs) at least every two years
- An ERA may evaluate natural gas delivery scenarios on a granular level to identify energy delivery issues

Other Potential Standard Projects

Identify enhancements to existing Reliability Standards, for example:

- Examine balancing authority generation commitment and scheduling, which affect gas-electric coordination, including Operating Reserve-related requirements under various conditions.
- Provide guidance on EOP-012-3 (Extreme Cold Weather Preparedness and Operations) exceptions and compliance expectations

External Engagement & Communications

Engage industry and government agencies to drive action on relevant electric-gas coordination initiatives

Gas Industry

- Participate in natural gas readiness forums, laying the groundwork for further recommendations to be adopted by industry
- Engage with gas industry trade associations, with special focus on gas production and pipeline winterization practices
- Expand engagement with gas and electric industries to understand reliability risks specific to Canada

Broader Energy Industry

- Collaborate with ISO/RTOs and their electric/gas efforts
- Participate in national laboratory studies of natural gas system constraints and infrastructure needs
- Engage with National Petroleum Council study recommendation around embracing a comprehensive long-term planning electric-gas initiative

Communications

- NERC is consolidating relevant electric-gas initiatives on NERC.com, developing other media tools to extend outreach (see QR code below)

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Discussion