

Gas and Electric Coordination

Lessons Learned in North Carolina and Considerations for State Commissions

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Lessons Learned in North Carolina: Winter Storm Elliott

Gas Pressure Swings – Outside of Historical Range

- Pressure drops on Transco pipeline at key meter stations (e.g., Dan River, Buck) led to gas and electric issues

Lack of Proactive Communication

- Lack of proactive communication from Transco in Zone 4 and 5
- Had to adjust to interstate pipeline issues in real time or with minimal advanced notice

Risk from Pipeline Dynamics

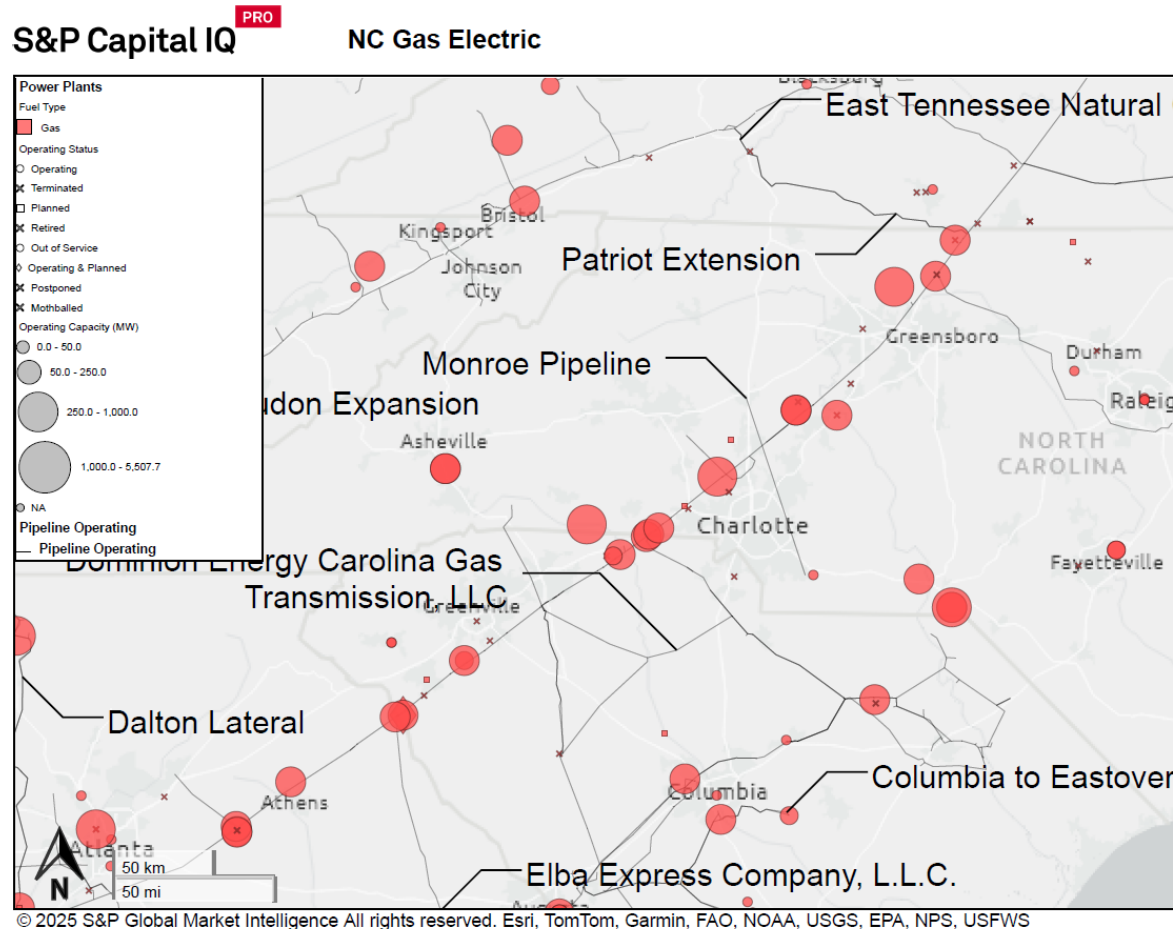
- Transco's "null point" in and around North Carolina creates vulnerability to bidirectional stress
- Potential overdraws (i.e., out of balance draws) by some gas shippers worsened conditions

Emergency Planning Efforts Between G and E Not Clear

- Protocols between electric and gas systems for handling severe cold events not clear.
- Commission directed Duke and PSNC to develop a formal joint planning process for future coordination



Commission-Directed Actions



- Duke, Piedmont, and PSNC must:
 - Identify all gas-electric interdependencies.
 - Develop a formal joint planning process to manage fuel vulnerabilities.
 - Report actions and plans to ensure reliable operations during future cold weather events.

Joint Planning Process Proposal

Docket No. M-100, Sub 217
(on-going)

Joint Planning Process proposed by Electric Utilities and Natural Gas LDCs:

- Regular biannual coordination meetings (Q2 and Q3) – intended for reviewing prior winter season performance (Q2) and preparing for upcoming winter season (Q3)
- Collaborative seasonal readiness planning and documentation and post-season assessment
- Duke Energy Progress, Duke Energy Carolinas, Enbridge, Piedmont Natural Gas

Key Objectives:

- Bring together electric utilities and LDCs at least twice a year for discussion
- Continue work to identify gas-electric interdependencies and vulnerabilities
- Improve data sharing and situational awareness
- Formalize informal practices
- Enhance response capabilities before and during winter events

Additional/New Communications Proposed:

- Sharing of information from gas to electric regarding burn profiles, while protecting proprietary information
- Better coordination with Transco in advance of (and subsequent to) forecasted severe weather

Resources for State Commissions



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State Commission Efforts

- Joint planning or investigative docket?
- Communications with interstate pipelines?

NARUC-Related

- **Taskforce on Gas-Electric Alignment for Reliability (GEAR)**
 - State regulators and industry representatives
- **Natural Gas Readiness Forum**
 - Industry-led forum intended to:
 - Promote peer-to-peer connections
 - Increase communication and situational awareness
 - Provide educational opportunities for stakeholders
- **Federal State Current Issues Collaborative**
 - Second meeting, April 30, 2025, discussed issues related to gas-electric coordination
 - Customers, merchant generators, electric utilities, natural gas industry
 - <https://www.youtube.com/watch?v=yysUow0qqtk>

Questions or Comments?