Generation Reliability Planning and Winter Storm Elliott

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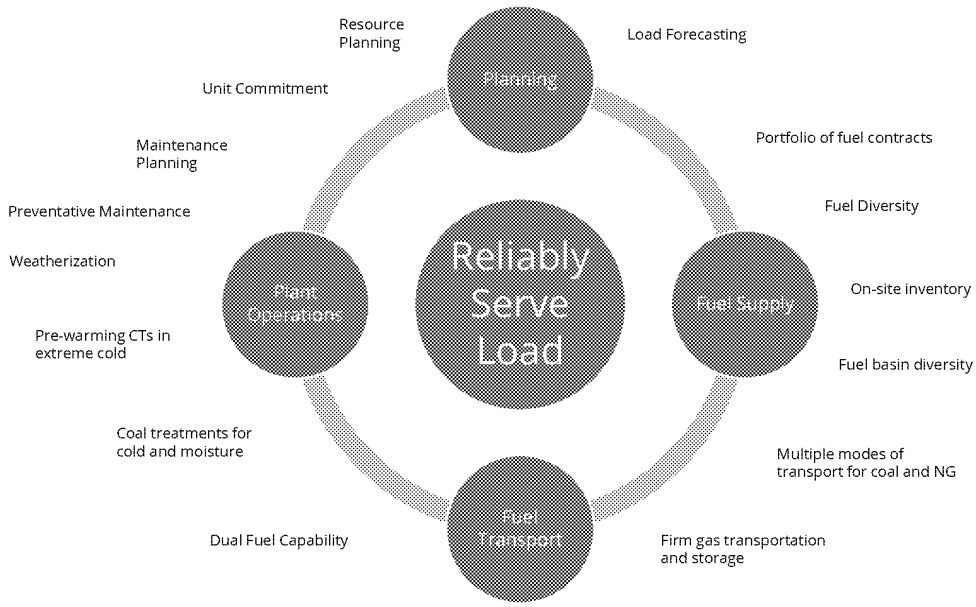
Quantitative risk management processes focus on reliable generation operations around the clock



Long-term Planning
Ensure generation profile matches customer demands
Evaluate multiple portfolios to assess cost and reliability impacts

Generation Performance
Planning
Maintenance
Weatherization
Dual fuel capability on select units
Pre-warming select units

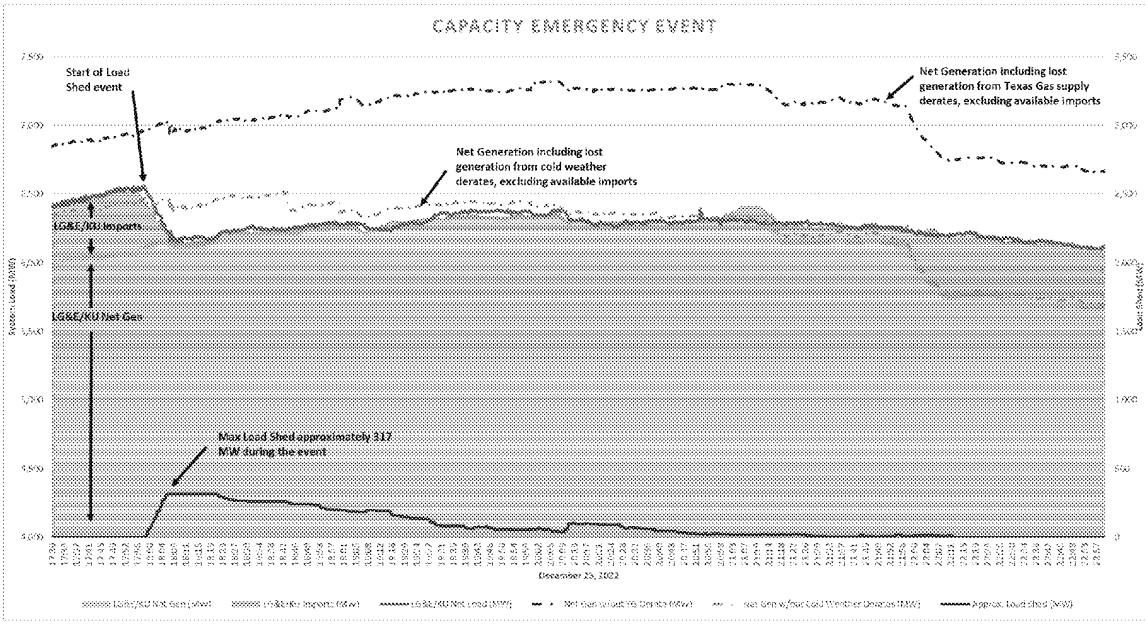
Fuel Supply and Transport
Access to multiple coal and gas basins
Access to two gas pipelines for some units
Coal inventory
River conditions
Eqpt status
Coal treatment
Gas pipeline svcs
Firm transport
Pipeline storage
Imbalance svc
Maximize gas position

Companies were prepared for winter storm Elliott

- Long-term planning process ensured adequate capacity and reliable fuel supply/transportation to serve extreme cold and manage through historical generation outage events

- Short-term operational planning and actions incorporated forecasts of extreme cold
  - Plants implemented cold weather operation plans
  - Necessary volumes of natural gas were purchased
  - Generating units were brought on-line before extreme cold set in

December 23 load shed was driven by loss of 900 MW of gas generation due to unexpected low pressure on Texas Gas Transmission pipeline



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Preliminary observations

- Low gas pressure that prevented operation of Trimble County gas turbines was a historic first since units began operations in 2002
- The Companies are working with Texas Gas Transmission to address event and reduce risk of future occurrence
- Companies are reviewing their own winter operating procedures to reduce risk of equipment failure