Generation Reliability Planning and Winter Storm Elliott

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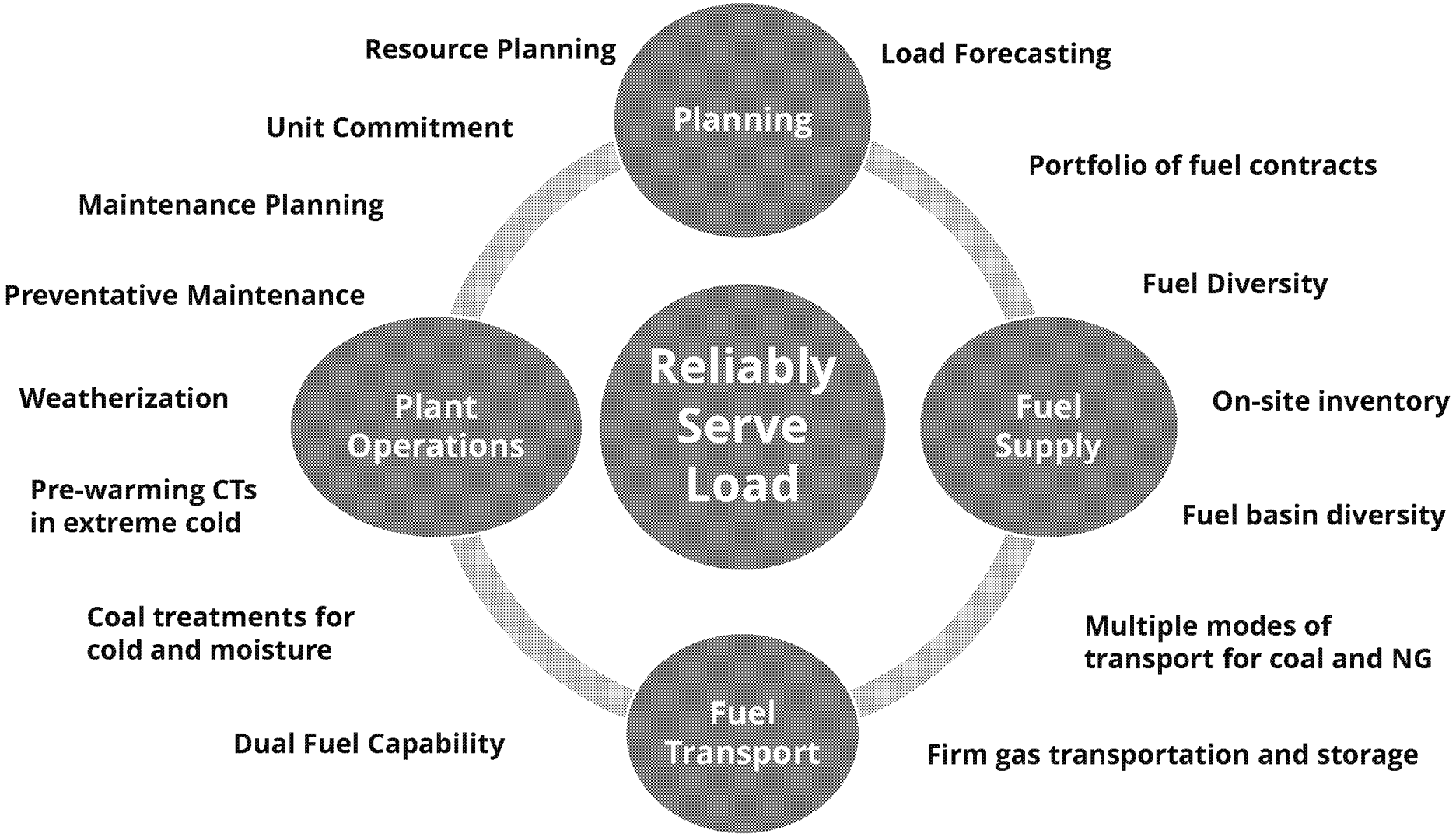
LG&E KU
PPL companies

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



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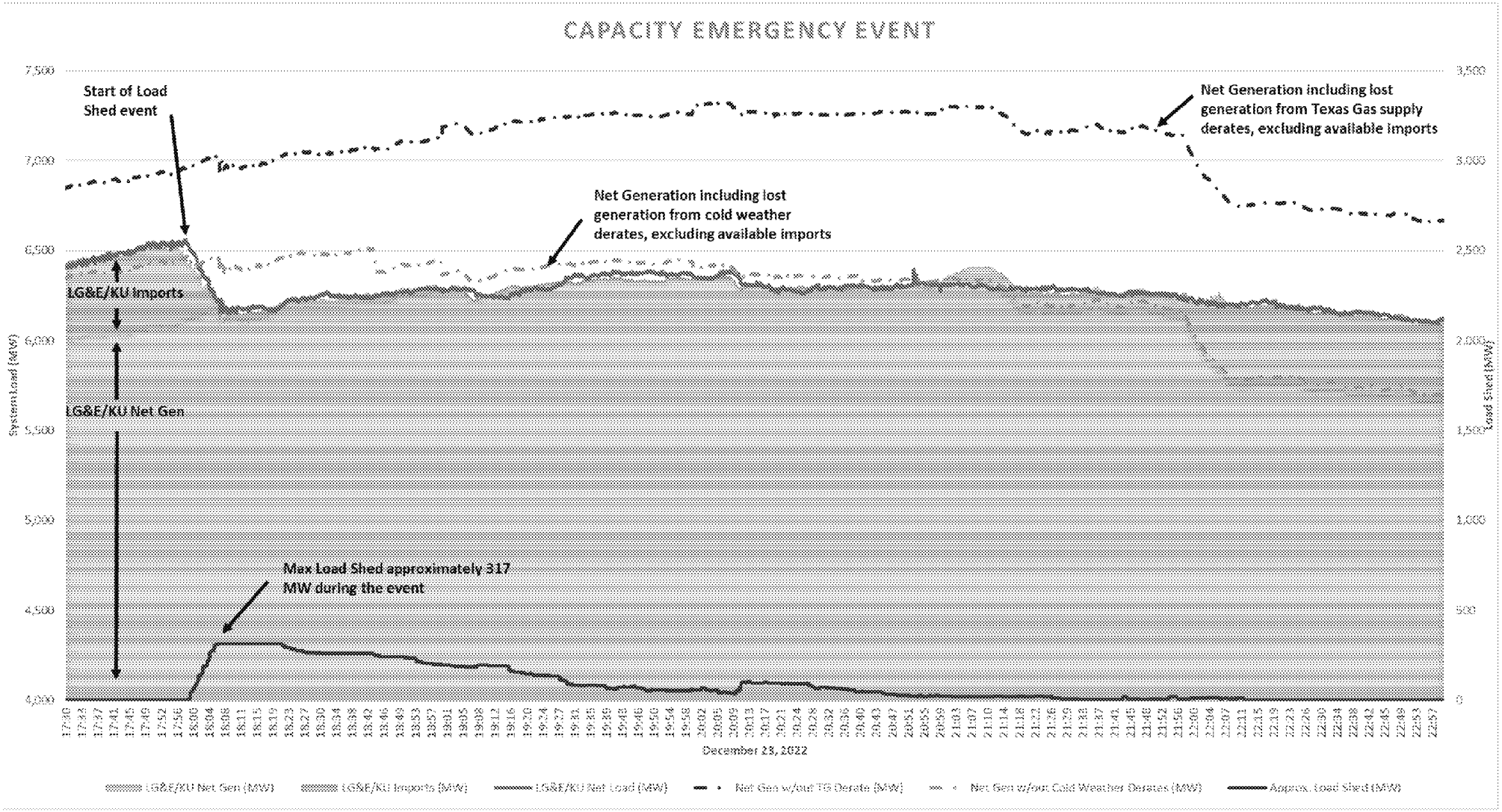
Companies were prepared for winter storm Elliott

- 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 reduced output of Trimble County gas turbines was a historic first since units began operations in 2002
- Low gas pressure that reduced output of Cane Run combined cycle gas was a historic first since unit began operations in 2015
- 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