



EPB's Automated Grid: Powering the Future



About EPB

- ▶ One of the largest municipal utilities in U.S.
- ▶ Currently serving 200,000+ energy meters and 130,000+ fiber customers
- ▶ America's most resilient advanced grid system
- ▶ J.D. Power's #1 electric utility in the south for ten consecutive years



Automated Grid

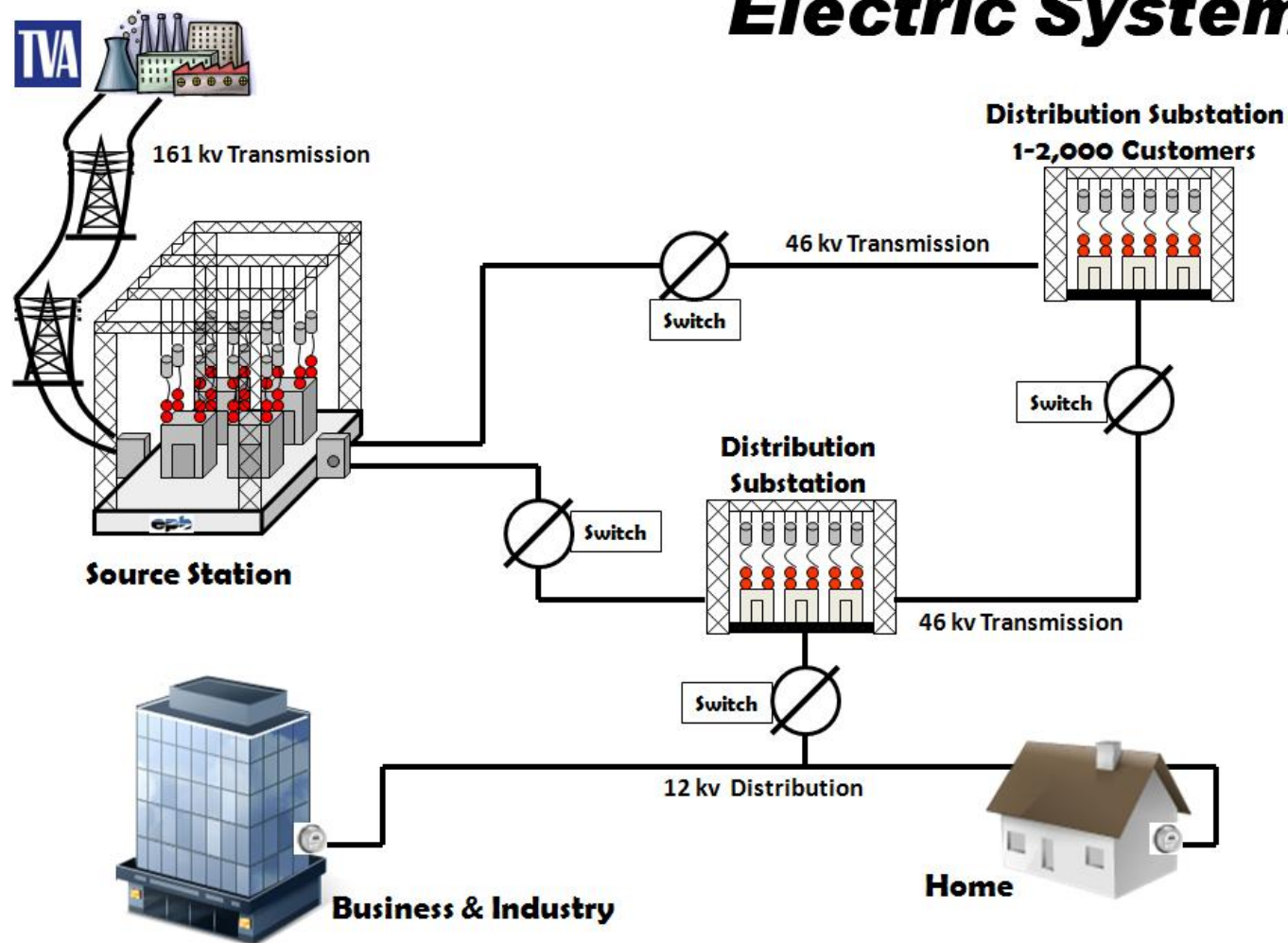
- Completed in 2012
- 1,200+ automated switches
- 55% annual outage reduction
 - (19 million minutes avoided)





- 3,100 Industries
- 179,000 Dwellings
- 22,000 Businesses

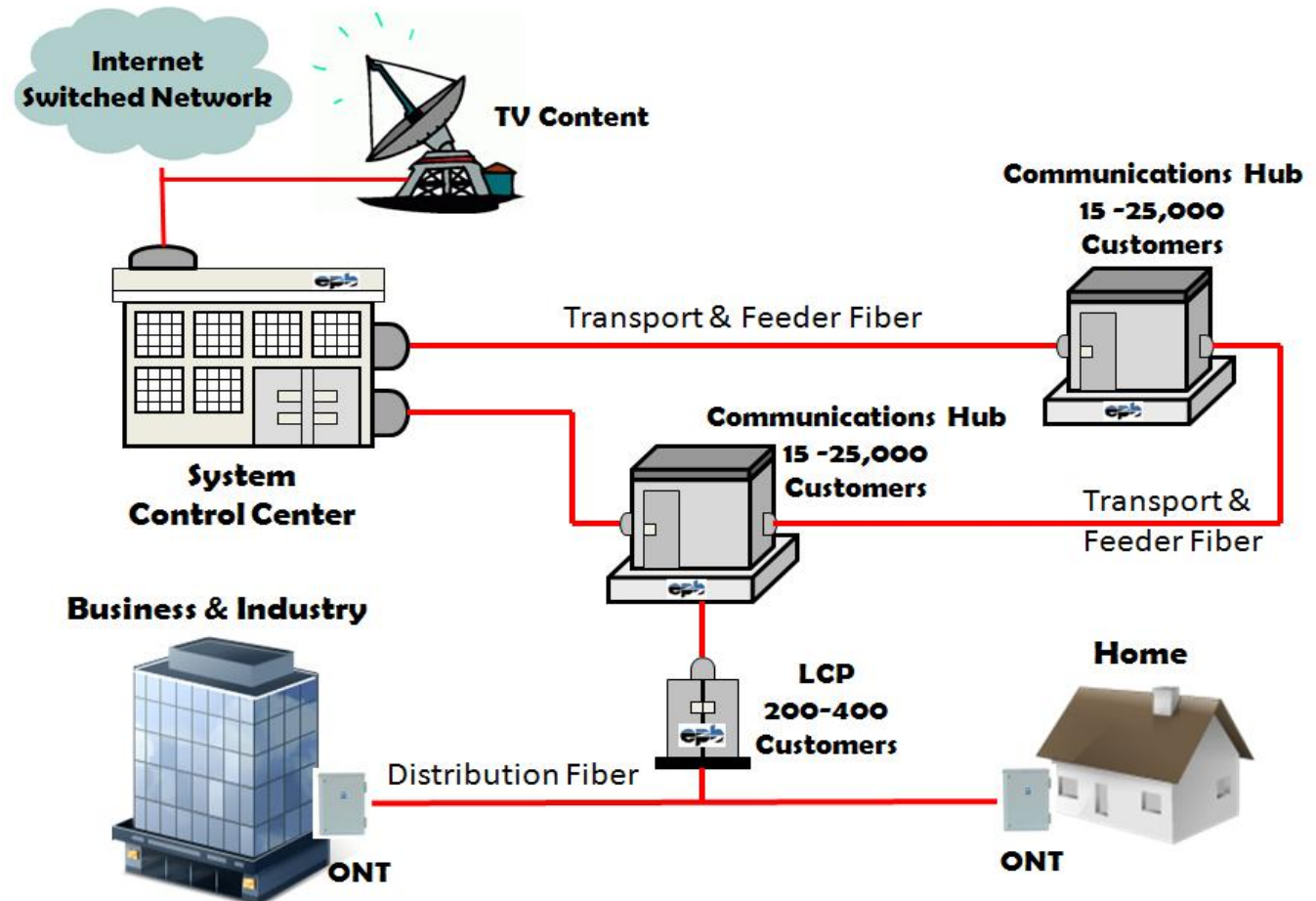
Electric System

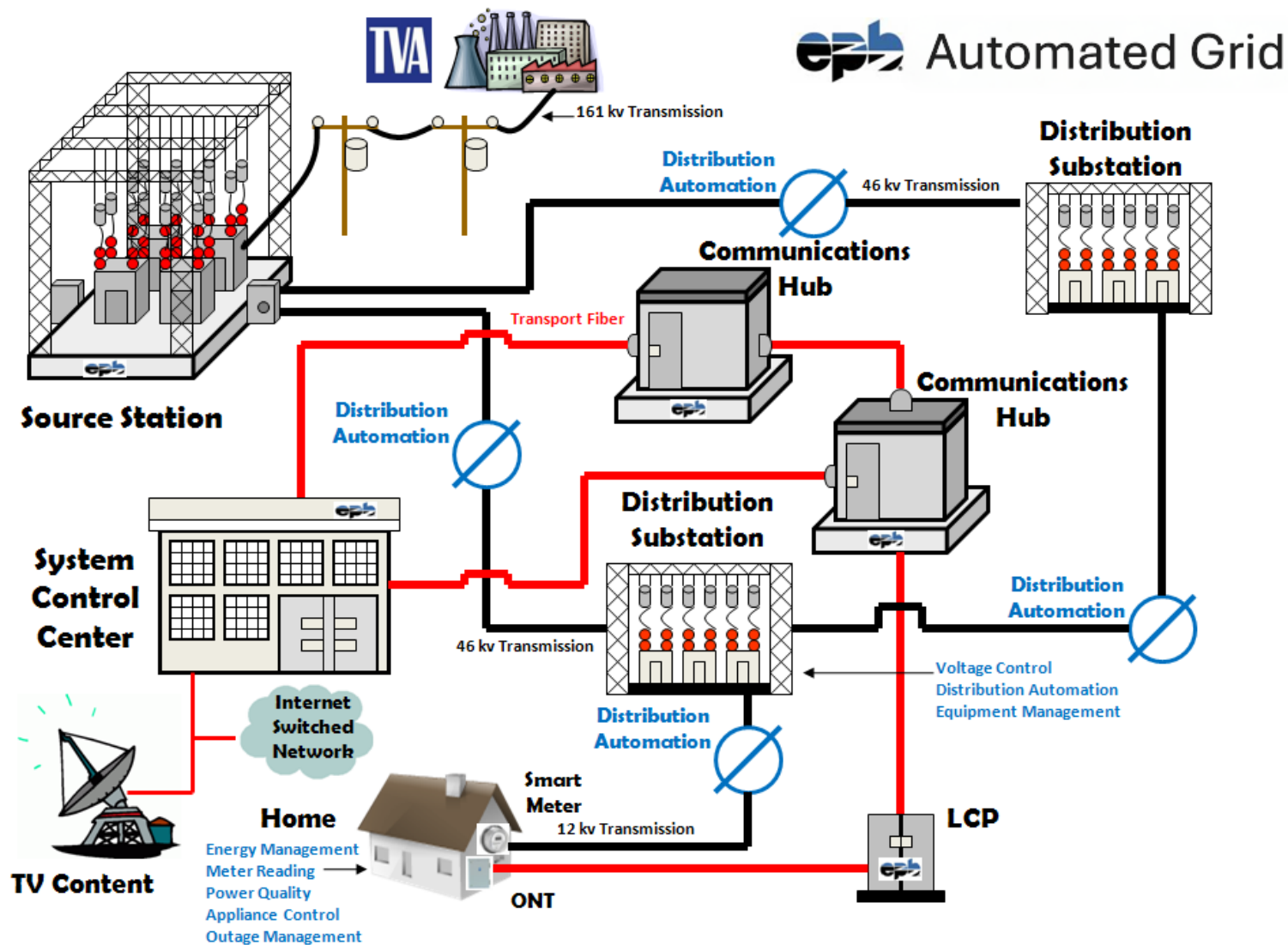




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FIBER NETWORK





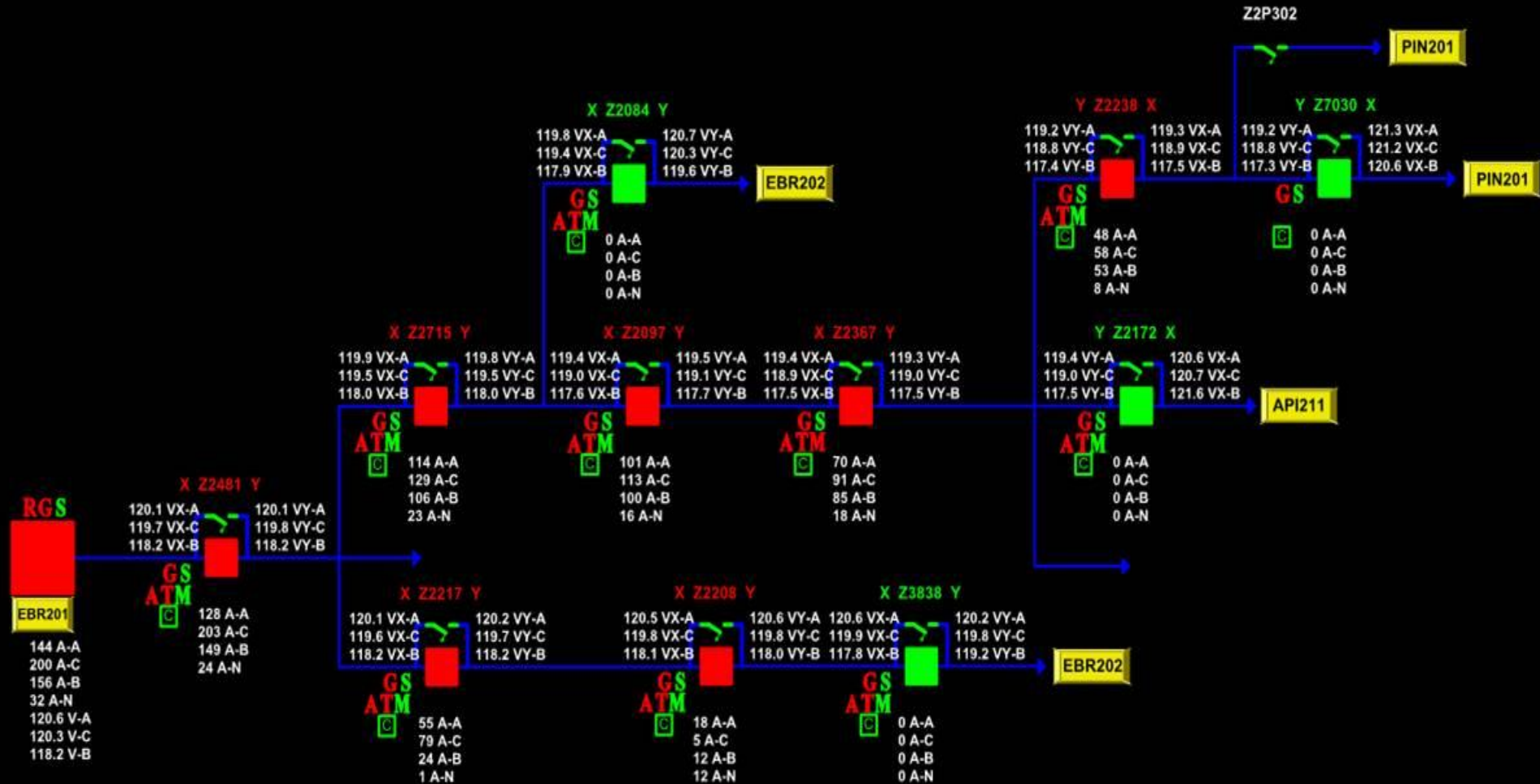


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Distribution Automation - EBR201



Community Benefits

Grid automation cuts crew drive miles, reducing emissions equal to the air quality benefit of 3,400+ acres of forest each year. It improves reliability and reduces operating costs.



Winter Storm Elliott 2022





Energy Storage

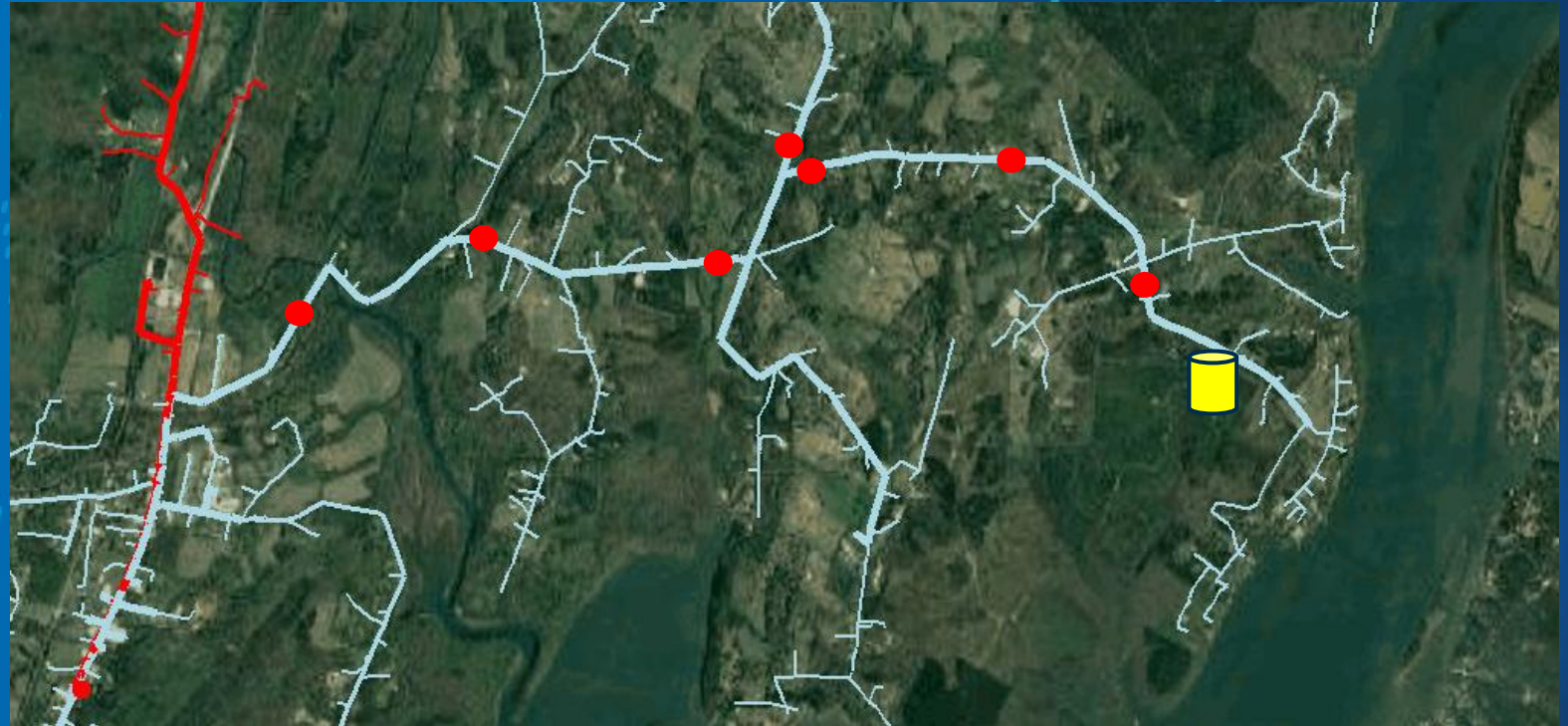


Emergency backup • Peak shaving • Resiliency (edge of system)



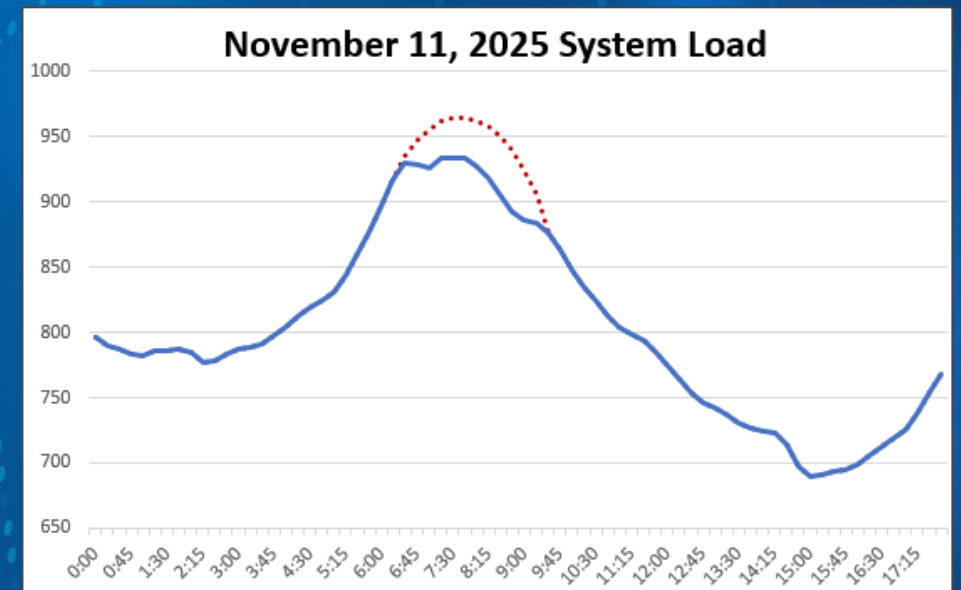
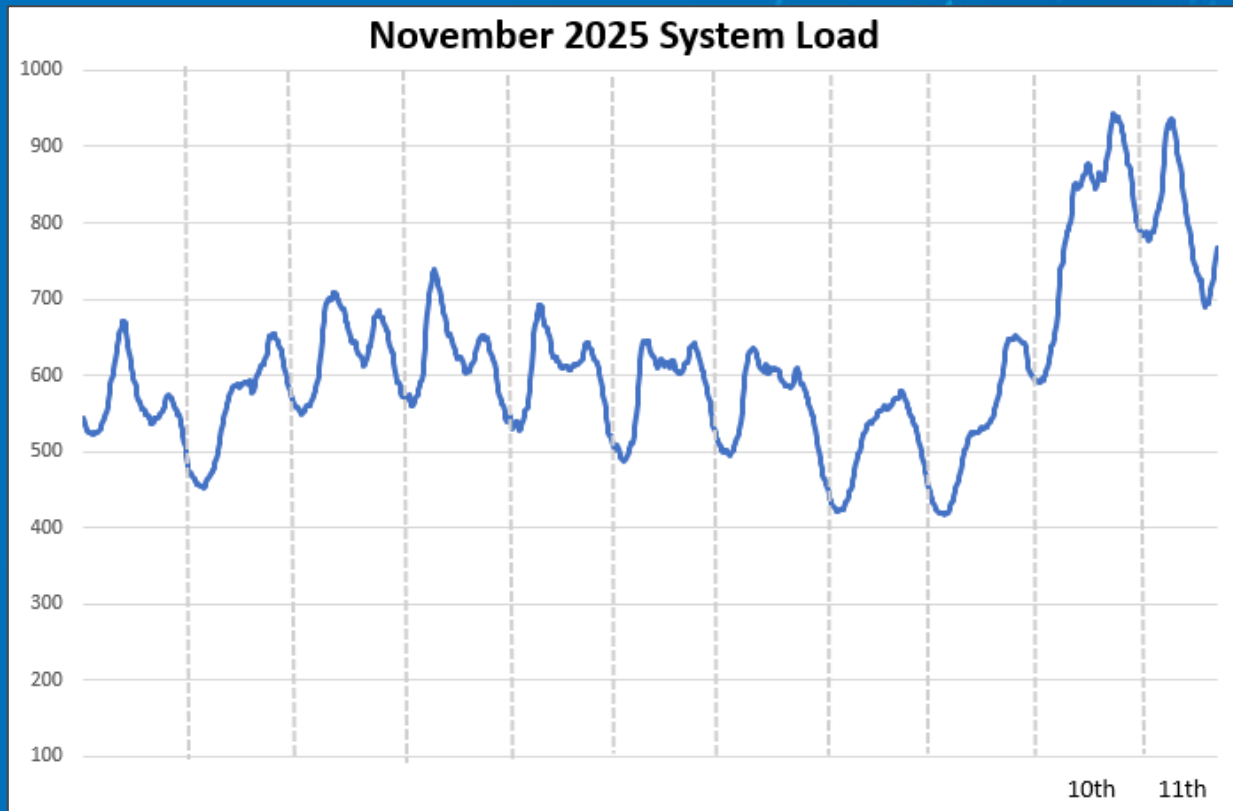
Microgrids (Resiliency)

Distributed Energy Resource
to supply power to portion of
the grid





Wholesale Power Cost Savings





Winter Storm Fern 2026





Community Microgrid Projects



Chattanooga Airport
500 kW storage provides backup power to air traffic control.



Chattanooga Police & Fire
500 kW energy storage provides backup to Police & Fire resources.

Questions?

