Austin Energy Operational Update

Austin Energy Utility Oversight Committee – September 2018

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September 26, 2018

Austin Energy Operational Update Discussion Topics





Austin Energy's role in the electric market and how we serve our customers



Performance

Commercial Availability and System Reliability are metrics we stand behind



Future State

Where we are focused in serving our customers and the community



Austin Energy Operational Update Operations Overview

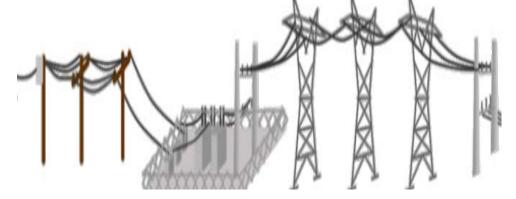


What we do

Electric Wholesale Market







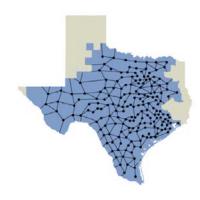


Austin Energy delivers your generation to the ERCOT Wholesale Market

- 430 MW Nuclear
- 600 MW Coal
- 1,497 MW Natural Gas
- 100 MW Biomass
- 1,417 MW Wind
- 790 MW Solar











How We Do It

POWER DELIVERY SYSTEM



- ERCOT Market
 - ~ 72,000 MWs generation
 - 4,847 MWs Austin Energy owned and contracted generation

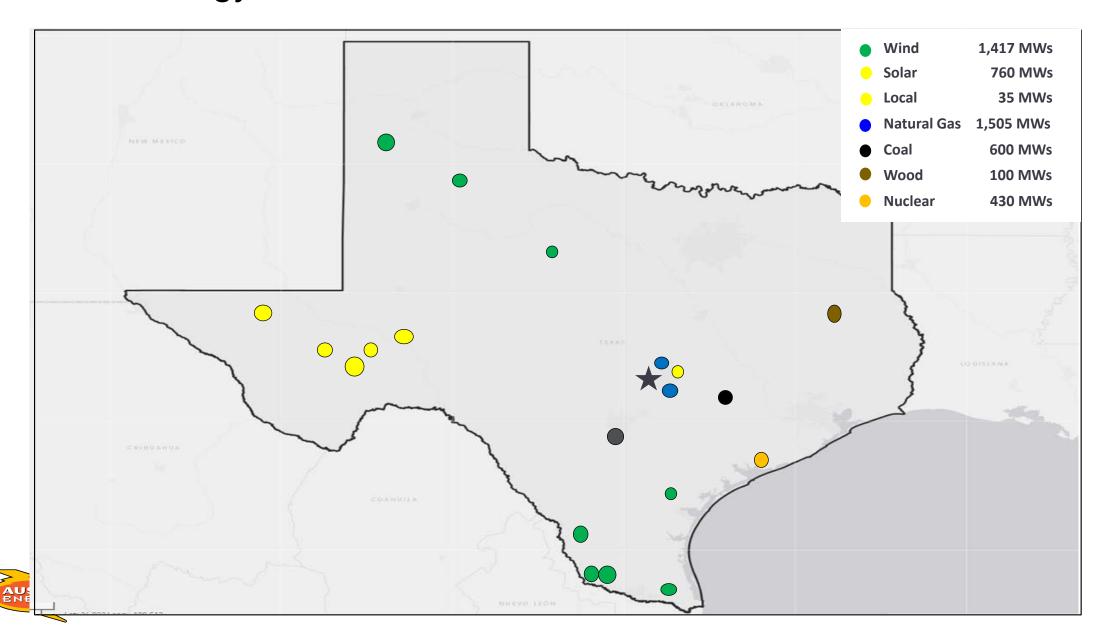
- 623 miles of Transmission Lines
- 75 Substations
- 4,938 miles Overhead Distribution Lines
- 6,652 miles Underground Distribution Lines
- 80,000 Distribution Transformers
- 180,000 Distribution Poles

- 2 Community Solar Farms
- 2 Energy Storage Systems (Shines Project)
- 30 MW Local Solar

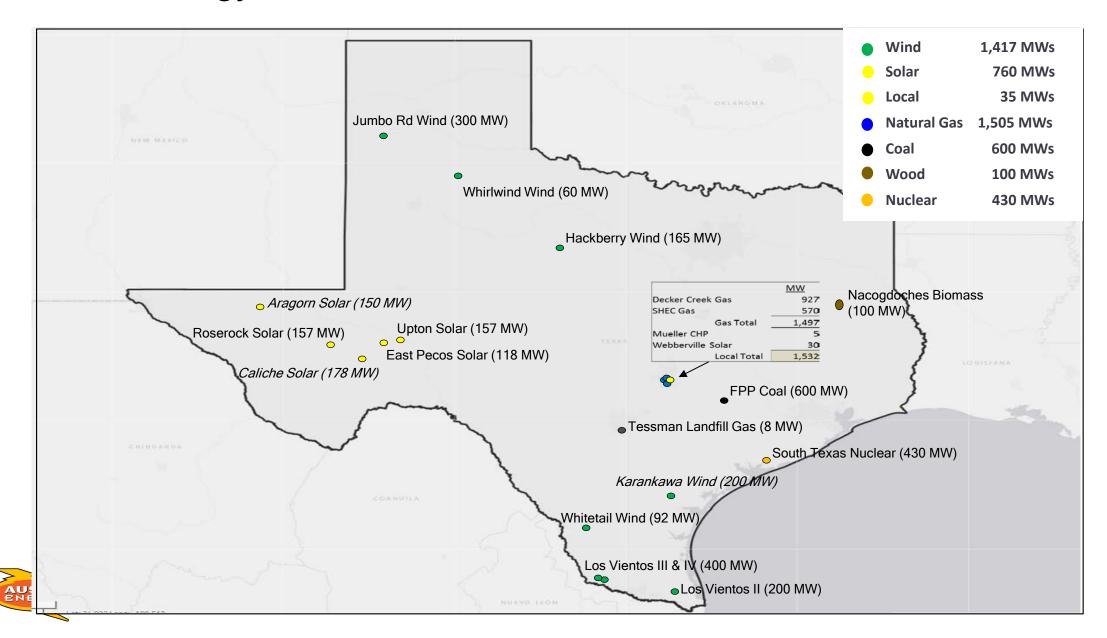
- 480,000 Customers
- 10,000 Solar Generating Customers
 - 380,122 homes
 - 926,426 people
 - 596 schools, hospitals
 - 23 police, fire stations
 - 56,879 of businesses



Austin Energy Generation



Austin Energy Generation



Austin Energy Operational Update Performance



Commercial Availability & Start Success

Commercial Availability

Generation Source	June-August 2018 Commercial Availability (%)	Seasonal Commercial Availability Target (Jun-Sept) (%)
Decker Steam Units	96.78	95.00
Sand Hill Combined Cycle	93.80*	95.00
Fayette	98.68	97.00
South Texas Project	100.00	100.00

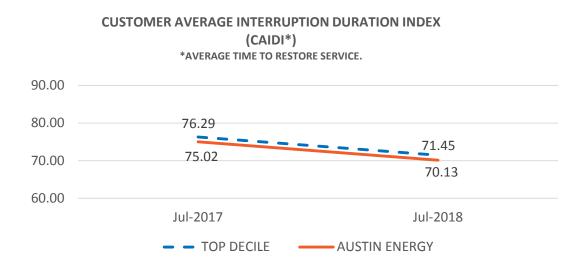
Start Success

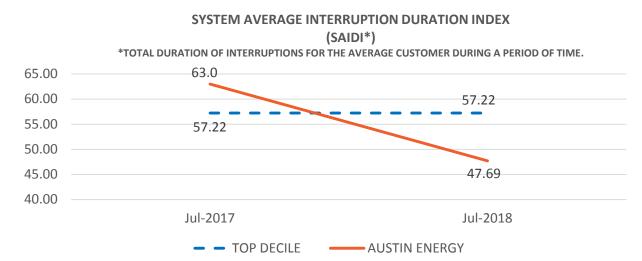
	June-August 2018 (%)	Monthly Target (%)
Simple Cycle Start Success	99.67	99.00



^{*} Below target due to four day July outage to repair heat recovery steam generator tube leak

System Reliability and Improvement Projects





SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI*)

*HOW OFTEN THE AVERAGE CUSTOMER EXPERIENCES A SUSTAINED INTERRUPTION OVER A PERIOD OF TIME.



SYSTEM IMPROVEMENTS

- Identification of lower performing circuits
- Increased distribution maintenance and targeted vegetation management
- Improved fault location and outage management



Austin Energy Operational Update Future State



Our Focus

Our Customers (improving reliability and connectivity)

- AMI Upgrades
 - (Residential & Commercial Meters)
- Small Cell Deployment
- Customer Reliability Assessments

Our Community (ensuring the resiliency of the system)

- Repowering Downtown
- Bluff Springs Substation
- 69 to 138kV Conversion

Environmental (reducing our carbon footprint)

- Reducing our fossil fuel
- Expanding Renewable Portfolio

Grid Modernization (innovating to a smart future)

- SHINES Deployment
- (Sustainable and Holistic INtegration of Energy Storage and Solar PV)
- Advanced Metering Infrastructure
- Grid Automation
- Distributed Energy Resource Integration
- Asset Management





Customer Driven. Community Focused.[™]

