# Austin Energy Operational Update EUC – September 2018

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# Austin Energy Operational Update Discussion Topics







## Overview

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's Owned and Contracted Assets



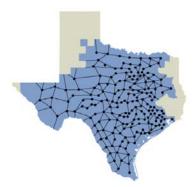
Austin Energy delivers your generation to the ERCOT Wholesale Market

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



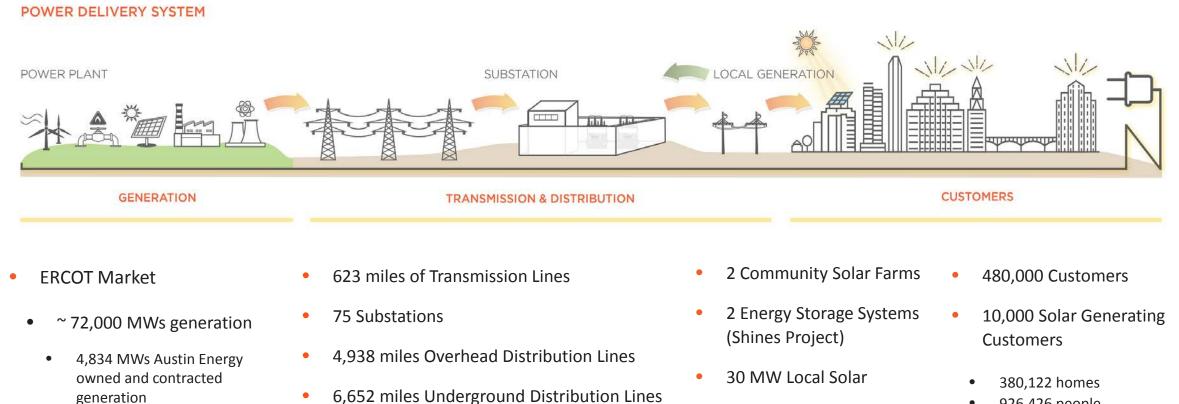








# How We Do It

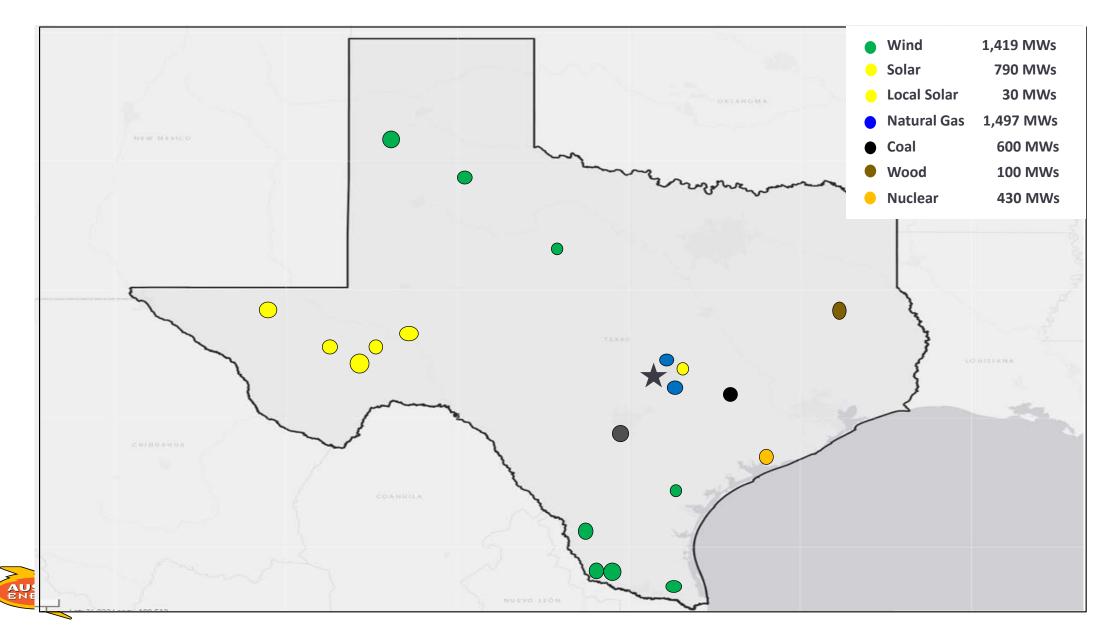


- 926,426 people
- 596 schools, hospitals
- 23 police, fire stations
- 56,879 of businesses

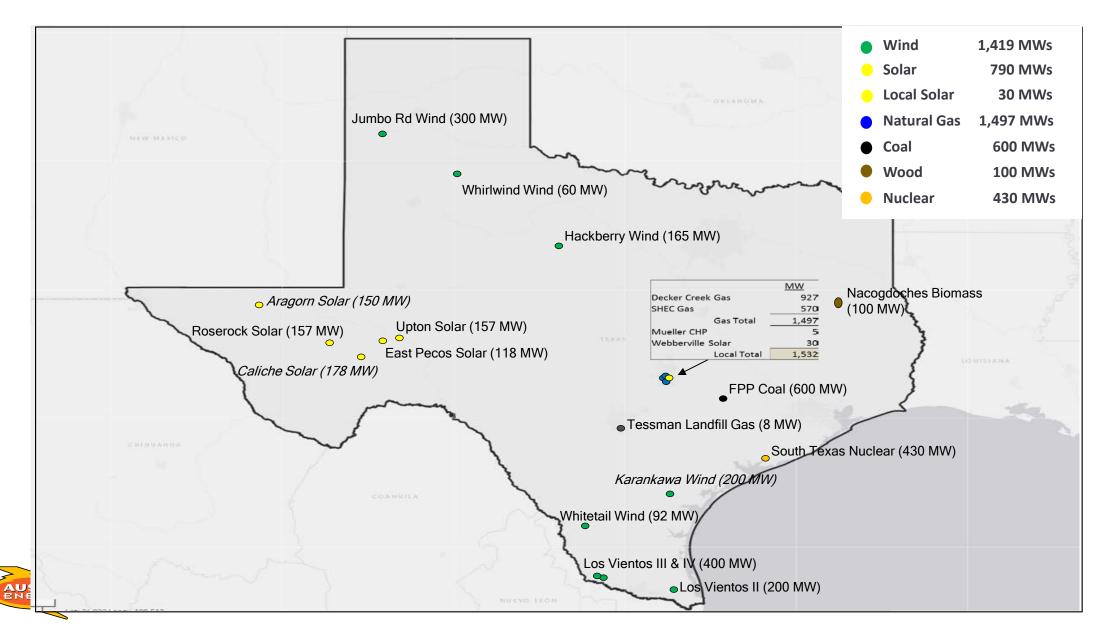


- 6,652 miles Underground Distribution Lines •
- 80,000 Distribution Transformers ۲
- 180,000 Distribution Poles

## Austin Energy Generation



## Austin Energy Generation



# Austin Energy Operational Update Performance





# Commercial Availability & Start Success

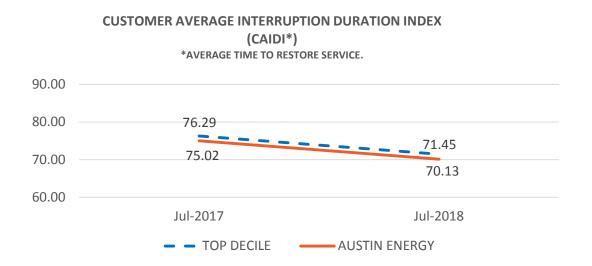
#### **Commercial Availability**

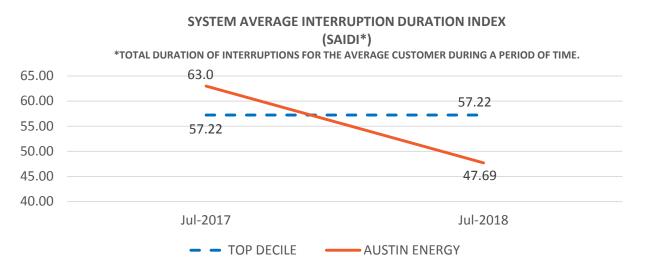
| Generation Source        | June-August<br>2018<br>Commercial<br>Availability (%) | Seasonal<br>Commercial<br>Availability Target<br>(Jun-Sept) (%) |
|--------------------------|---|---|
| Decker Steam Units       | 96.78   | 95.00   |
| Sand Hill Combined Cy    | /cle 93.80*   | 95.00   |
| Fayette                  | 98.68   | 97.00   |
| South Texas Project      | 100.00  | 100.00  |
| Start Success            |   |   |
|                          | June-August 2018 (%)                                  | Monthly Target (%)  |
| Simple Cycle Start Succe | ess 99.67   | 99.00   |
|                          |   |   |



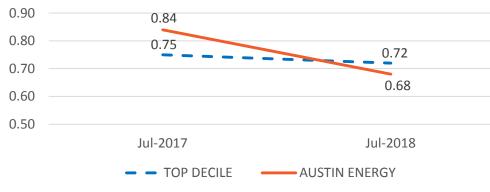
\* Below target due to four day July outage to repair heat recovery steam generator tube leak

# 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 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.<sup>SM</sup>



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