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Austin Energy Quarterly Operational Report

1st Quarter FY 2020

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Austin Energy Operational Update Discussion Topics







Safety

Performance

Carbon Footprint

Power Production

On-Site Energy Resources

Future State



Austin Energy Operational Update Safety





Safety

Data	Q4 FY19 (7/19 – 9/19)	Q1 FY20 (10/19 – 12/19)	
Total Near Misses	7	11	
Total Injuries	10	13	
Total Recordable Cases	13	4	
Total Vehicle Accidents	16	7	



Austin Energy Operational Update Performance



Commercial Availability & Start Success

Commercial Availability

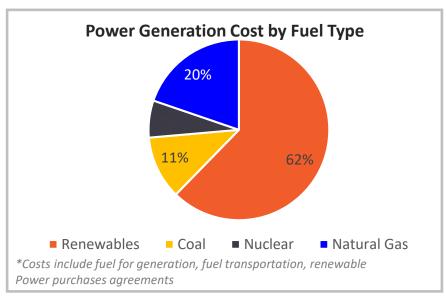
Generation Resource	Target Seasonal Commercial % Availability	Commercial Availability Actuals (%)	
Generation Resource	(Oct-Dec)	Q4 FY19 AVG	Q1 FY20 AVG
Decker Steam Units	95	66.3	29.7
Sand Hill Combined Cycle	95	99.8	38.5
Fayette Units	97	98.9	72.6
South Texas Project	100	100	88

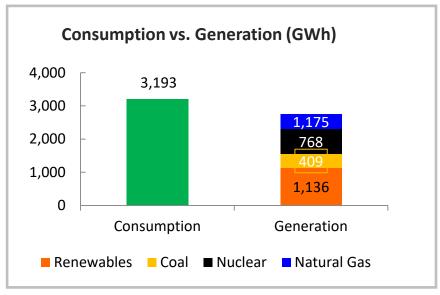
Start Success

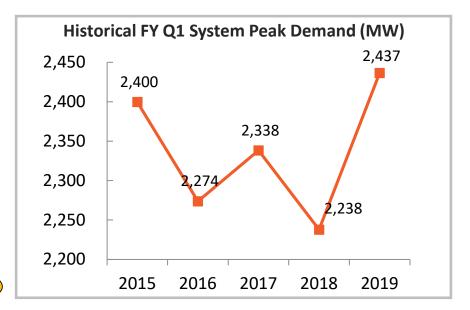
		Start Success Actuals (%)		
	Start Success Target(%)	Q3 FY19	Q4 FY19	
		AVG	AVG	
Simple Cycle Start Success	99	100	100	

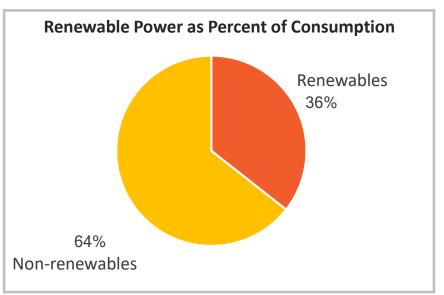


Net Generation and Load Analysis FY 2020 Q1









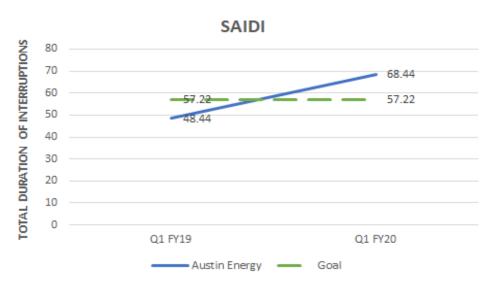


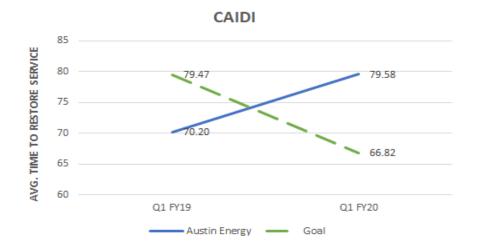
System Reliability

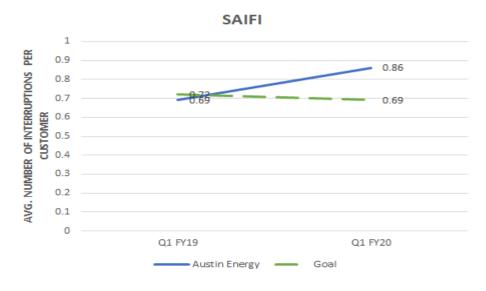
CAIDI = Customer Average Interruption Duration Index *Average time to restore service.*

SAIDI = System Average Interruption Duration Index Total duration of interruptions for the average customer, during a period of time.

SAIFI = System Average Interruption Frequency Index How often the average customer experiences a sustain interruption, over a period of time.





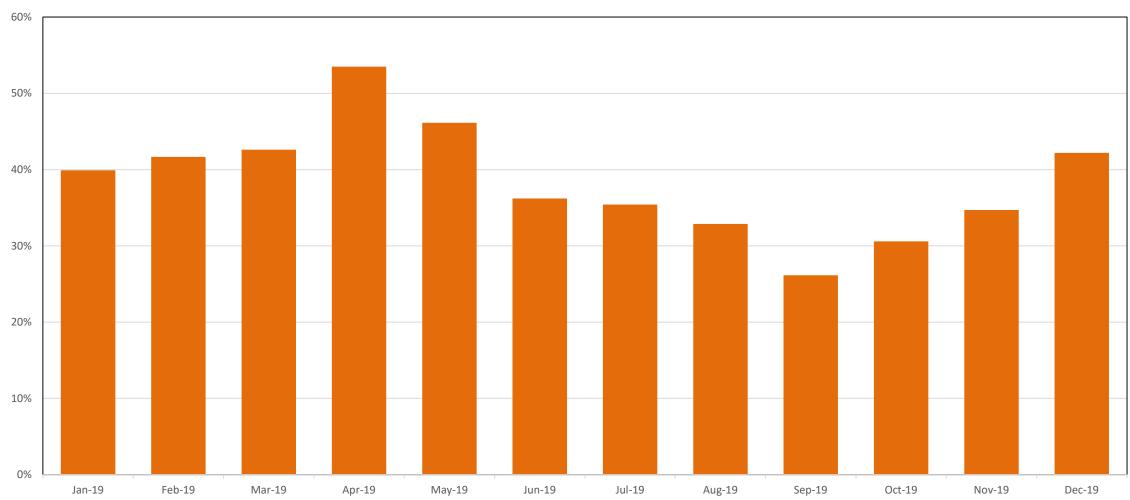




Austin Energy Operational Update Carbon Footprint



Renewable Generation as a Percentage of Load





Austin Energy Operational Update Power Production & OSER



Key On Site Energy & Power Production Activities

District Cooling Plant #3 (Downtown, Crescent Tract)

Adding 10,000 tons of chiller capacity in the Downtown System

- Contractor completed erection of 80% of the structures of the chiller building and cooling towers and continues installing mechanical and electrical components.
- On-Target for final completion by December 2020

District Cooling Plant #4 (Downtown, Convention Center)

Constructing a 3,000 ton chiller on roof of Convention Center

- Chiller equipment and cooling towers installed between Christmas and New Years Eve.
- Piper work is on-going.
- Targeted for Q2 2020 in-service date



Additional On Site Energy & Power Production Activities

Austin Community College Highland Campus

Constructing a 6,000 ton chiller plant with thermal energy storage tank and Chemical storage shed

- Building Shell has achieved substantial completion.
- Second contractor Flintco is mobilized and is on site.
- On-Target for substantial spring
 2021 completion

NEW PROJECT:

Mueller Energy Center #2

4,000-ton Chiller Plant (with Thermal Energy Storage)

- Located adjacent to new Austin Energy Headquarters
- <u>Targeted</u> for completion in April
 2021



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
- **1** 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.

