

Austin Energy Quarterly Operational Report

1st Quarter FY 2020

Charles Dickerson

Chief Operating Officer, Austin Energy



February 10, 2020

© 2018 Austin Energy

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

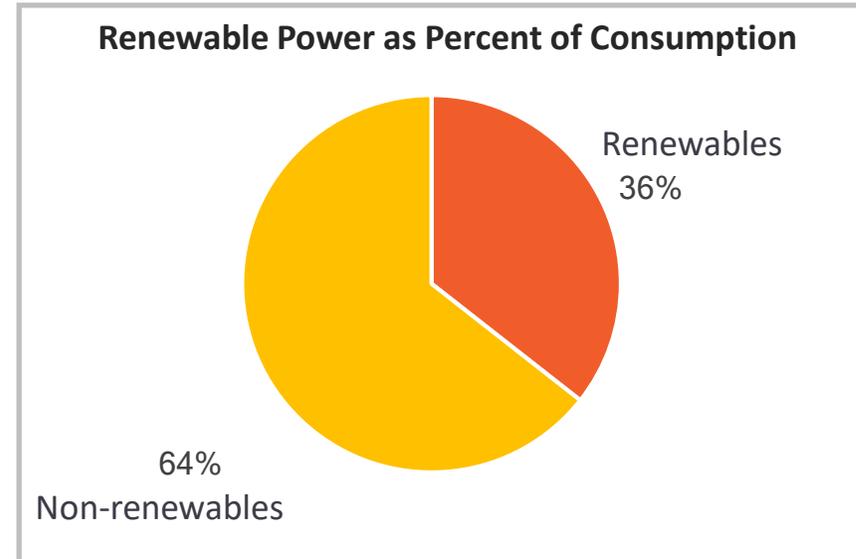
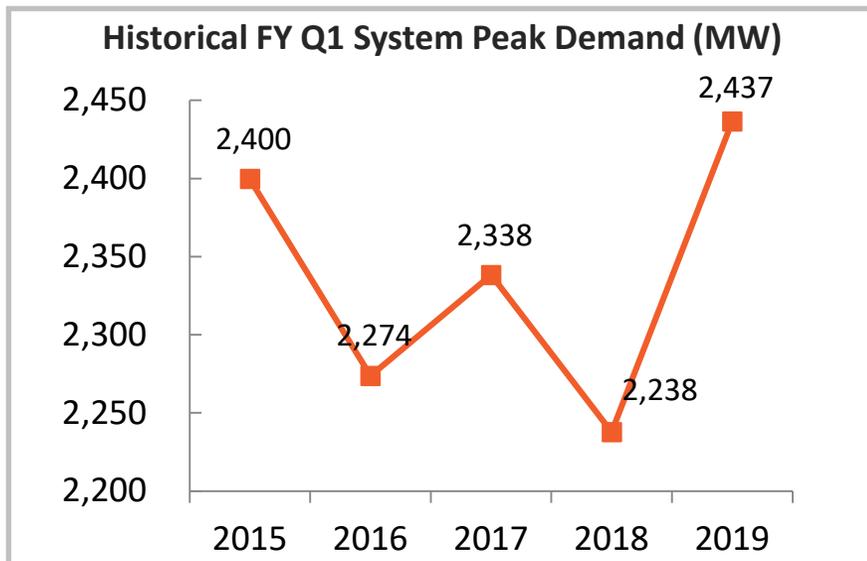
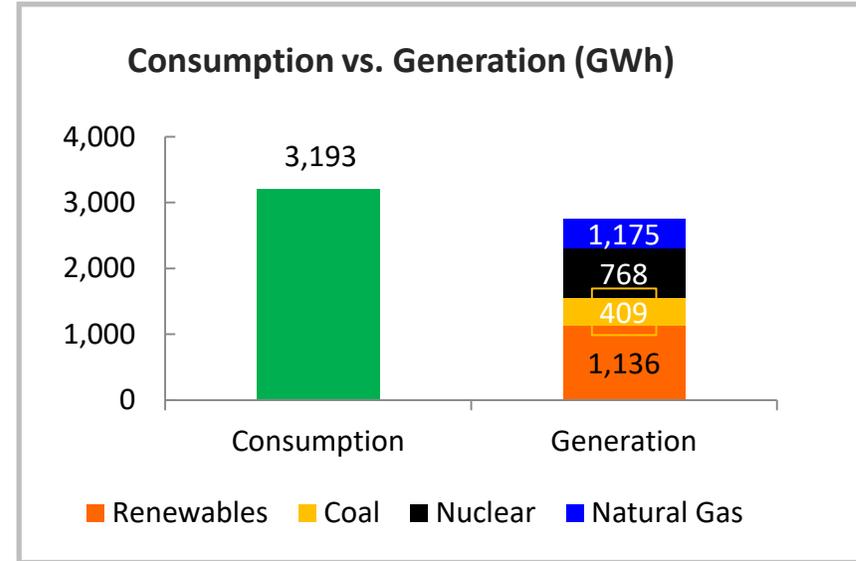
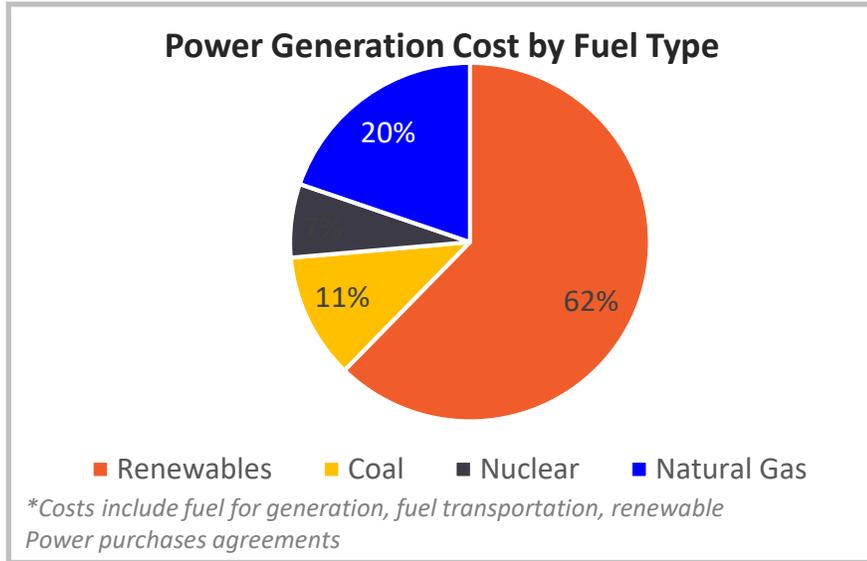
Generation Resource	Target Seasonal Commercial % Availability (Oct-Dec)	Commercial Availability Actuals (%)	
		Q4 FY19 AVG	Q1 FY20 AVG
Decker Steam Units	95	66.3	29.7
Sand Hill Combined Cycle	95	99.8	38.5
Fayette Units	97	98.9	72.6
South Texas Project	100	100	88

Start Success

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



Net Generation and Load Analysis FY 2020 Q1



System Reliability

CAIDI = Customer Average Interruption Duration Index

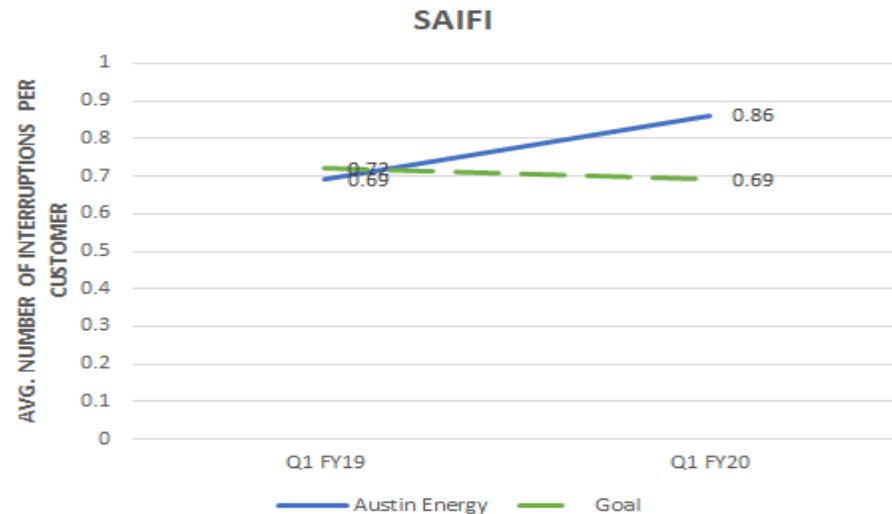
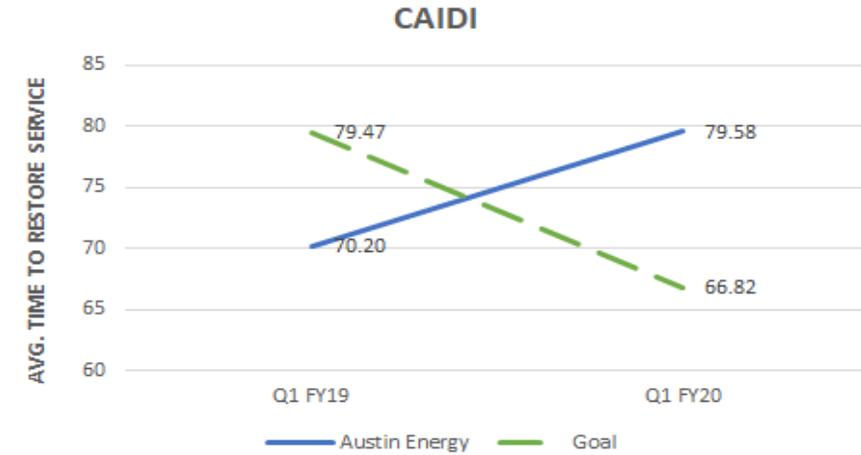
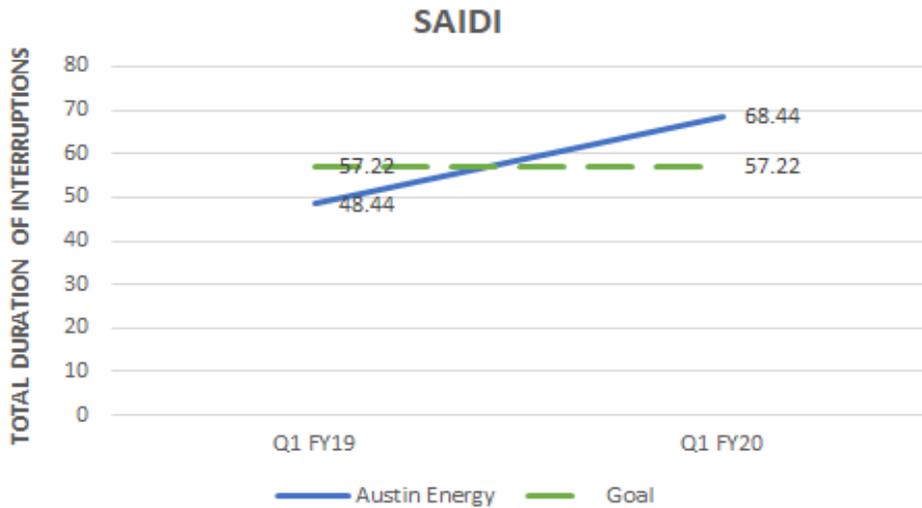
Average time to restore service.

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.

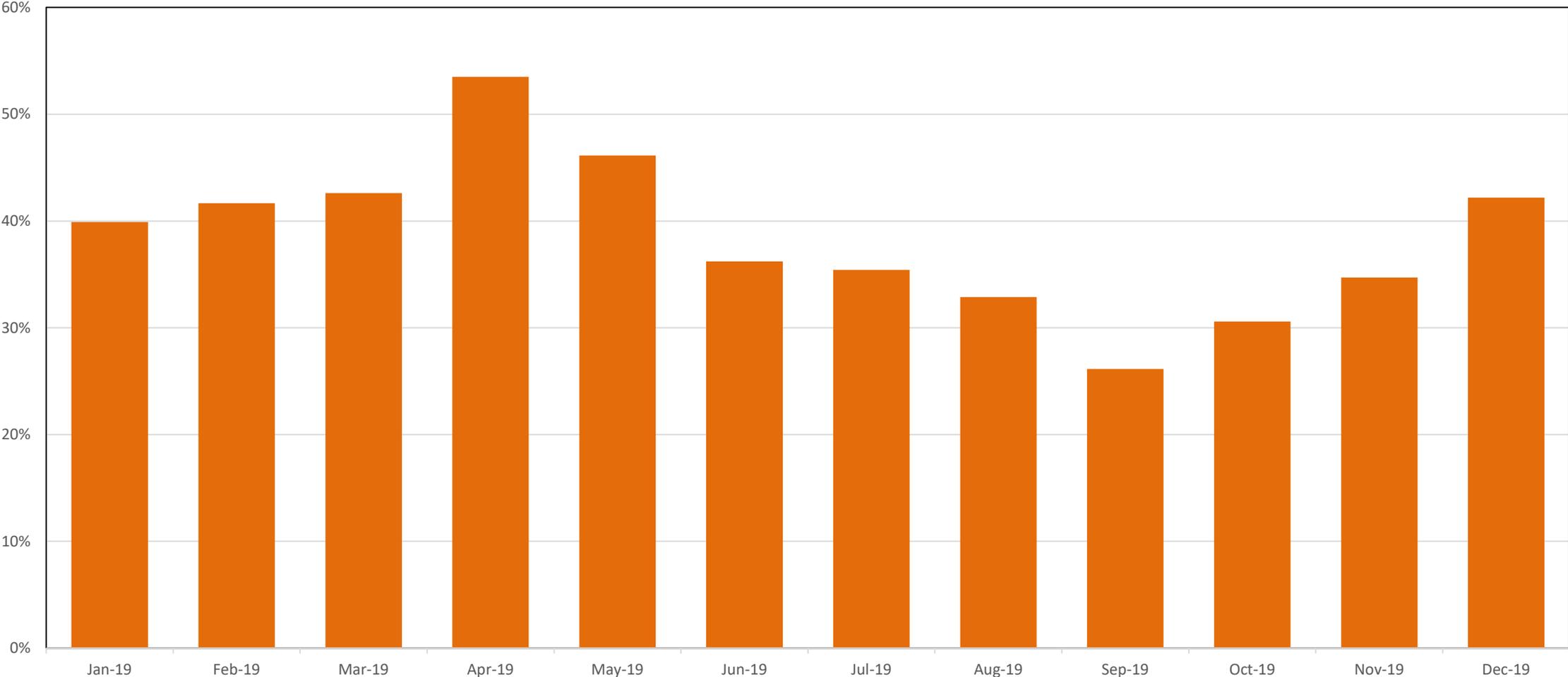


Austin Energy Operational Update

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**
- **Targeted 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
- ↑ 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
(**S**ustainable and **H**olistic **I**ntegration of **E**nergy
Storage and Solar PV)
- ↑ Advanced Metering Infrastructure
- ↑ Grid Automation
- ↑ Distributed Energy Resource
Integration
- ↔ Asset Management



Austin Energy Operational Update

Appendix

