

# Austin Energy Operational Update Q3 FY19

to the Electric Utility Commission

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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	Q2 FY19 (1/19 – 3/19)	Q3 FY19 (4/19 – 6/19)	
Total Near Misses	23	14	↓
Total Injuries	12	10	↓
Total Recordable Cases	6	5	↓
Total Vehicle Accidents	22	16	↓



# Austin Energy Operational Update

## Performance



# Commercial Availability & Start Success

## Commercial Availability

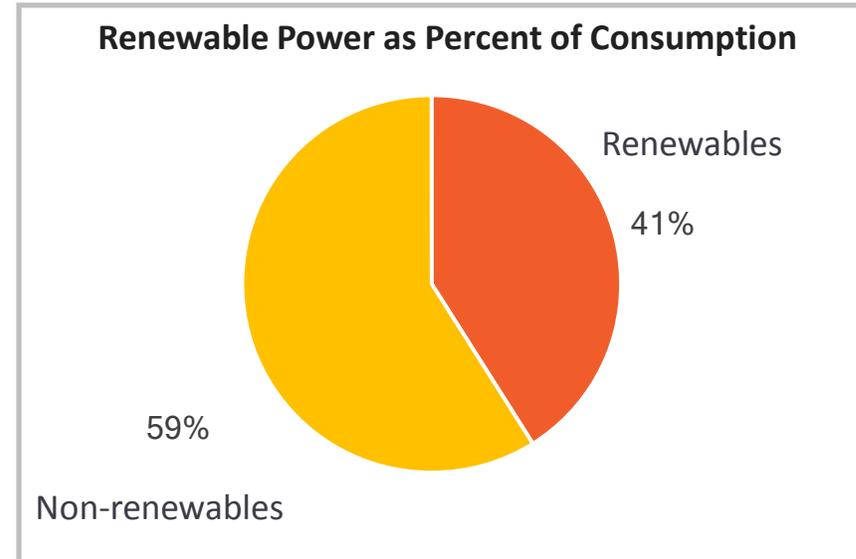
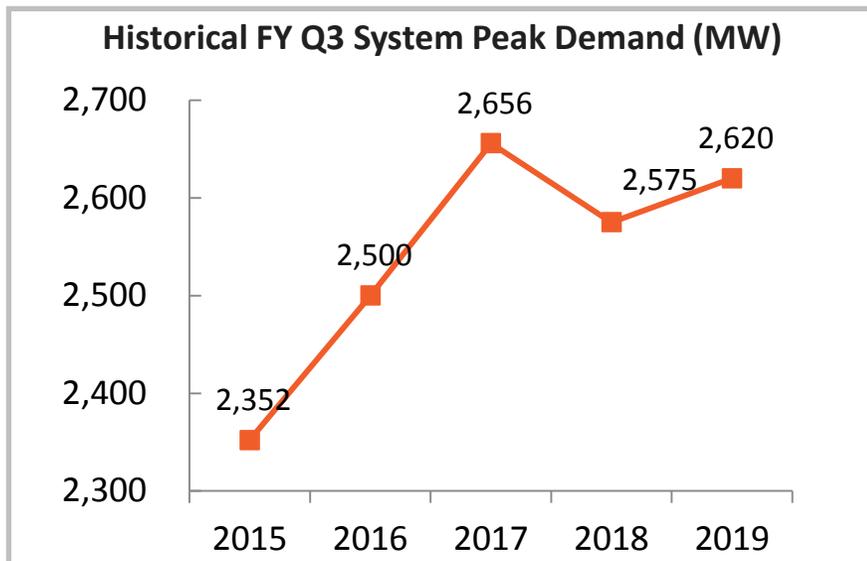
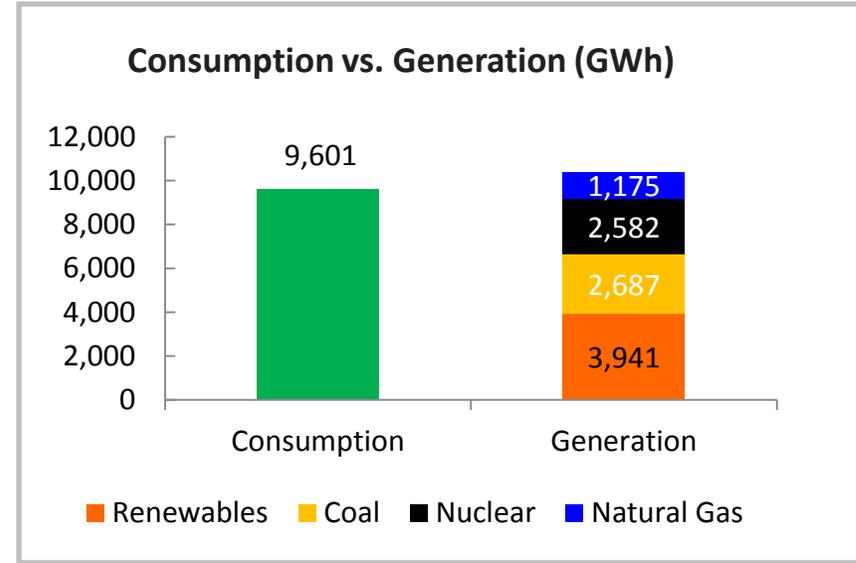
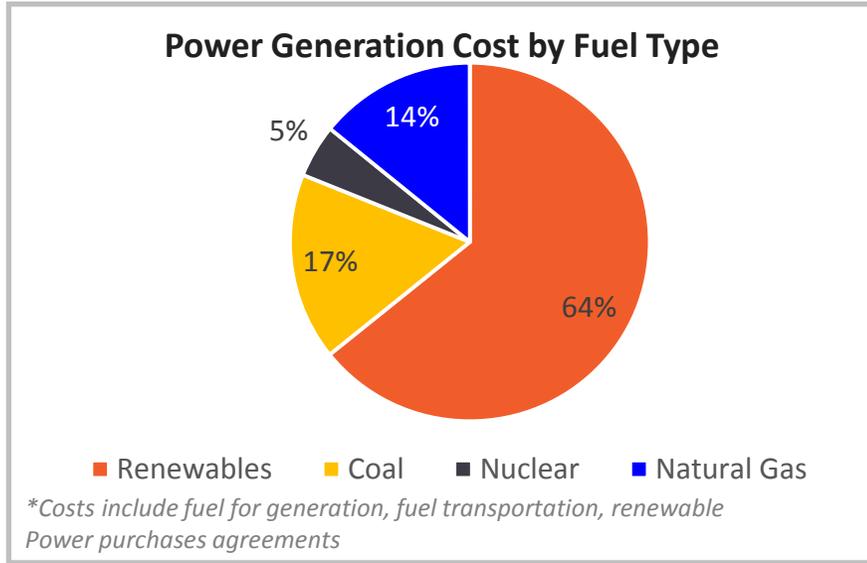
Generation Resource	Target Seasonal Commercial % Availability (Jun-Sep)	Commercial Availability Actuals (%)	
		Q2 FY19 AVG	Q3 FY19 AVG
Decker Steam Units	95	44.5	67.4
Sand Hill Combined Cycle	95	62	72.9
Fayette Units	97	93.9	89.5
South Texas Project	100	100	100

## Start Success

	Start Success Target(%)	Start Success Actuals (%)	
		Q2 FY19 AVG	Q2 FY19 AVG
Simple Cycle Start Success	99	99.7	100



# Net Generation and Load Analysis FY 2019 Q3



# System Reliability

**CAIDI = Customer Average Interruption Duration Index**

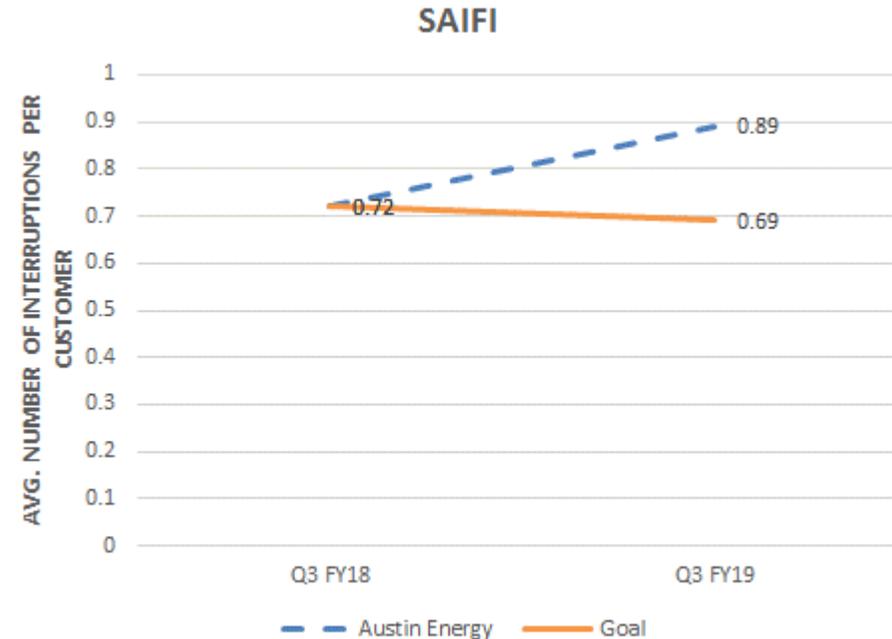
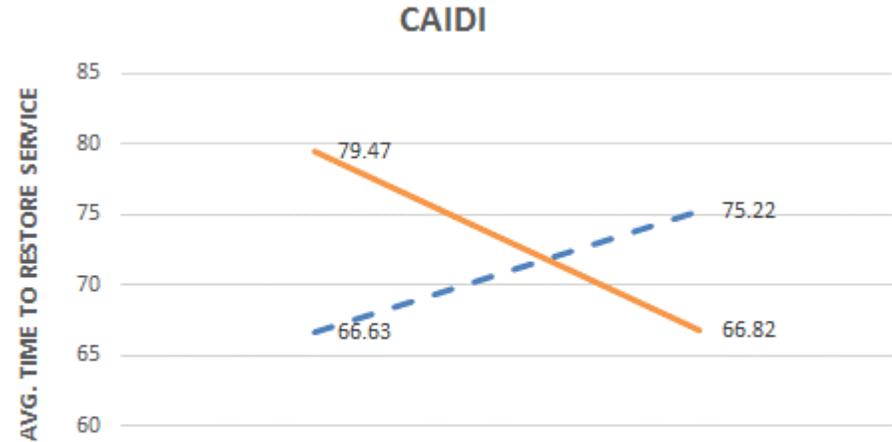
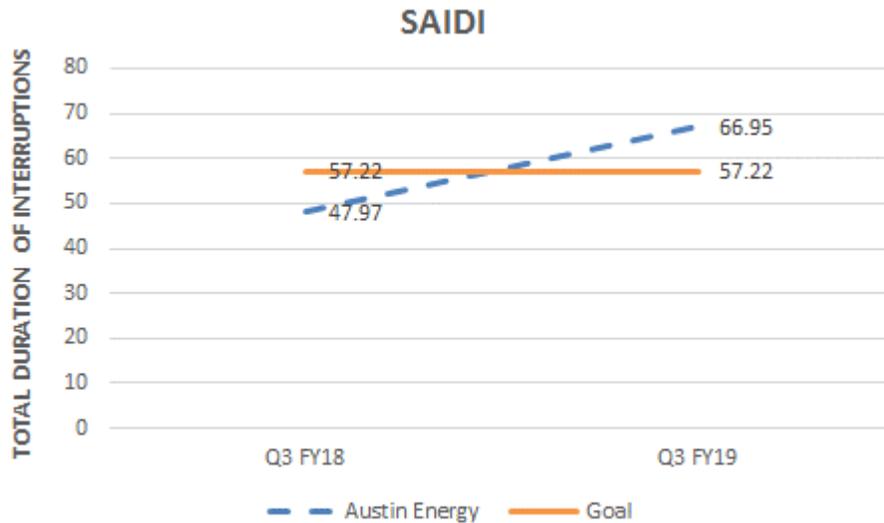
*Average time to restore service.*

**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.*

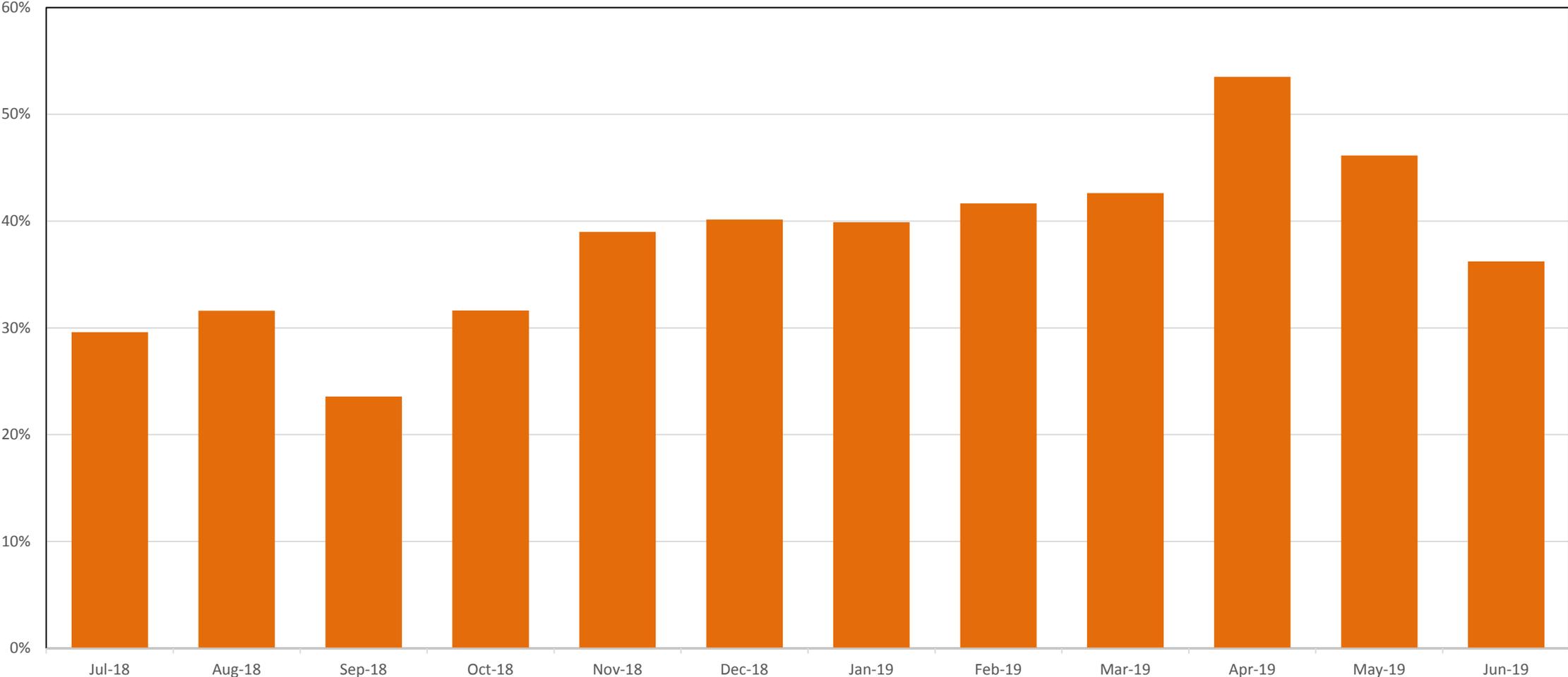


# Austin Energy Operational Update

## 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 making progress with the erection of the chiller building structural walls and columns and continues to install underground mechanical piping and electrical conduits.**
- **On-Target for August 2020 completion**

## Austin Community College Highland Campus

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

- **Contract for buildout was selected and approval of RCA needed from City Council in August 2019**
- **Additional RCA for administrative services will also need council approve in August 2019**
- **On-Target for spring-2021 completion**



# 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



# Austin Energy Operational Update

## Appendix



# FY19 OH&S Incident Data

	Corporate Comms	Corporate Services	Customer Account Management	Customer Care Services	Customer Energy Solutions	Electric Service Delivery	Environment, Health, & Safety Services	Finance, Accounting, & Rates	Power Production & OSER	Regulatory & Government Affairs	Shared Services	Strategy, Technology, & Markets	
KPIs	<b>Recordable Incident Rate</b>	0	0.96	6.21	0	0	2.92	0	0	1.45	0	0	0.77
	<i>DART Rate</i>	0	0.96	4.66	0	0	2.02	0	0	0	0	0	0
	<i>DAFWII Rate</i>	0	0.96	1.55	0	0	0.45	0	0	0	0	0	0
	<i>Severity Rate:</i>	0	1.00	2.63	0	0	0.69	0	0	0	0	0	0
	<b>Vehicle Collision Rate</b>	0	4.79	7.77	0.55	1.29	11.44	9.95	0	1.45	23.40	0	0.77
Incident Data (Raw)	<b>Total Injury/Illness Incidents</b>	1	1	12	5	3	24	2	1	10	1	1	2
	<i>Recordable</i>	0	1	8	0	0	13	0	0	2	0	0	1
	<i>Non-recordable</i>	1	0	4	5	3	11	2	1	8	1	1	1
	<b>Total Vehicle Incidents</b>	0	5	10	1	1	51	2	0	2	1	0	1
	<i>Preventable</i>	0	1	4	1	1	17	1	0	0	1	0	1
	<i>Non-Preventable</i>	0	3	5	0	0	21	1	0	0	0	0	0
	<i>Backing Related</i>	0	0	2	0	0	6	0	0	0	0	0	1
Impact Data (Raw)	<b>Lost Time Cases</b>	0	1	2	0	0	2	0	0	0	0	0	0
	<i>Lost Work Days</i>	0	1	21	0	0	9	0	0	0	0	0	0
	<b>Restricted Time Cases</b>	0	0	4	0	0	7	0	0	0	0	0	0
	<i>Restricted Work Days</i>	0	0	24	0	0	138	0	0	0	0	0	0
	<b>Medical Costs</b>	\$0	\$0	\$1,610	\$0	\$0	\$3,049	\$0	\$0	\$0	\$0	\$0	\$0

**Note:** Includes preliminary/estimated FY19 data through June 2019.

