Item 7

Austin Energy Operational Update Q3 FY19 to the Electric Utility Commission

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Austin Energy Operational Update Discussion Topics







Safety

Carbon Footprint

Performance

Power Production

On-Site Energy Resources

Future State



Austin Energy Operational Update 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

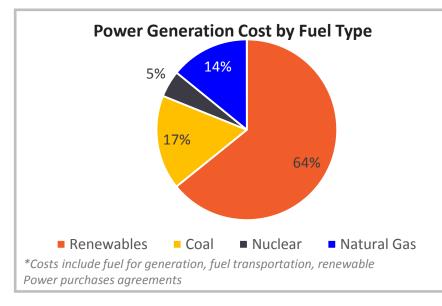
Constation Descurres	Target Seasonal Commercial % Availability	Commercial Availability Actuals (%)		
Generation Resource	(Jun-Sep)	Q2 FY19 AVG	Q3 FY19 AVG	
Decker Steam Units	95	44.5	67.4	
Sand Hill Combined Cycle	95	62	72.9	
Fayette Units	97	93.9	89.5	
South Texas Project	100	100	100	

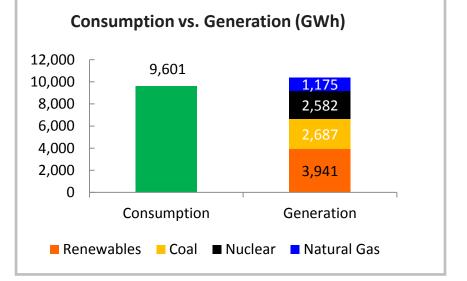
Start Success

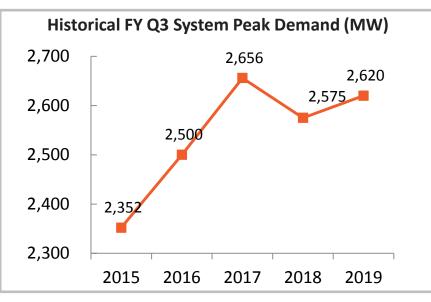
		Start Success Actuals (%)			
	Start Success Target(%)	Q2 FY19 AVG	Q2 FY19 AVG		
Simple Cycle Start Success	99		100		



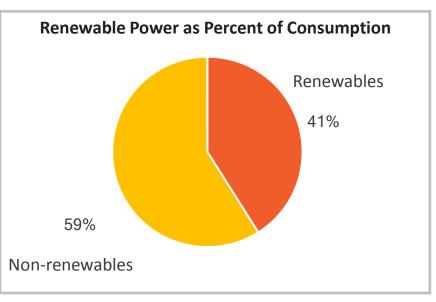
Net Generation and Load Analysis FY 2019 Q3







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System Reliability

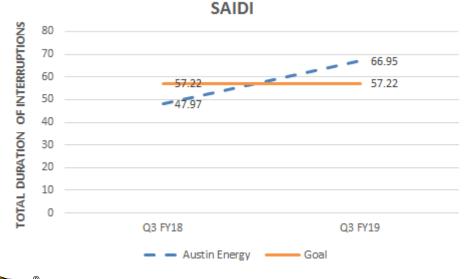


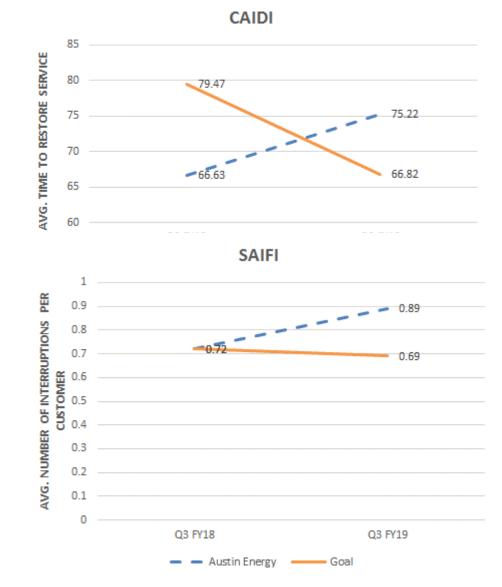
SAIDI = System Average Interruption Duration Index

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.



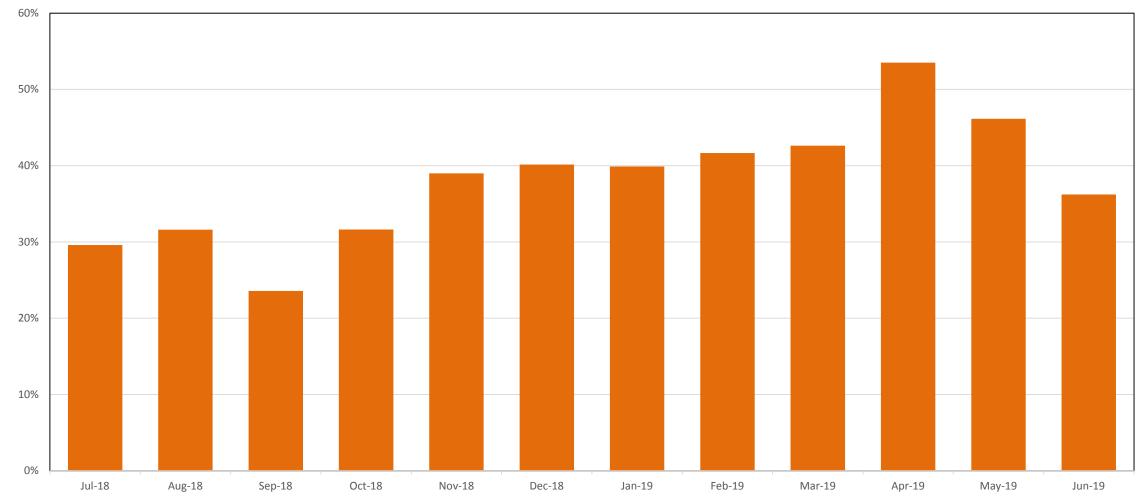




Austin Energy Operational Update Carbon Footprint



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.
- <u>On-Target</u> 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
- <u>On-Target</u> 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	Finance, Accounting, & Rates	Power Production & OSER	Regulatory & Government Affairs	Shared Services	Strategy, Technology, & Markets
Recordable Incident Bate	0	0.96		0	0	2 02		0	1.45	0	0	0.77
				-						-		0.77
}											······	0
}				0	0					0		0
Vehicle Collision Rate	0	4.79	7.77	0.55	1.29	11.44	9.95	0	1.45	23.40	0	0.77
Total Injury/Illness Incidents	1	1	12	5	3	24	2	1	10	1	1	2
Recordable	0	1	8	0	0	13	0	0	2	0	0	1
Non-recordable	1	0	4	5	3	11	2	1	8	1	1	1
Total Vehicle Incidents	0	5	10	1	1	51	2	0	2	1	0	1
Preventable	0	1	4	1	1	17	1	0	0	1	0	1
Non-Preventable	0	3	5	0	0	21	1	0	0	0	0	0
Backing Related	0	0	2	0	0	6	0	0	0	0	0	1
Lost Time Cases	0	1	2	0	0	2	0	0	0	0	0	0
Lost Work Days	0	1	21	0	0	9	0	0	0	0	0	0
Restricted Time Cases	0	0	4	0	0	7	0	0	0	0	0	0
Restricted Work Days	0	0	24	0	0	138	0	0	0	0	0	0
Medical Costs	\$0	\$0	\$1,610	\$0	\$0	\$3,049	\$0	\$0	\$0	\$0	\$0	\$0
	Total Injury/Illness Incidents Recordable Non-recordable Total Vehicle Incidents Preventable Non-Preventable Backing Related Sost Time Cases Lost Work Days Restricted Work Days	Recordable Incident RateODART RateODAFWII RateODAFWII RateOSeverity Rate:OVehicle Collision RateOTotal Injury/Illness Incidents1RecordableONon-recordable1Total Vehicle IncidentsOPreventableONon-PreventableOSacking RelatedOLost Work DaysORestricted Time CasesORestricted Work DaysO	CommsServicesRecordable Incident Rate00.96DART Rate00.96DAFWII Rate00.96DAFWII Rate01.00Vehicle Collision Rate04.79Total Injury/Illness Incidents11Recordable01Non-recordable10Total Vehicle Incidents05Preventable01Non-Preventable03Backing Related00Lost Work Days01Restricted Time Cases00Restricted Work Days00	Corporate CommsCorporate ServicesAccount ManagementRecordable Incident Rate00.966.21DART Rate00.964.66DAFWII Rate00.961.55Severity Rate01.002.63Vehicle Collision Rate04.797.77Total Injury/Illness 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Note: Includes preliminary/estimated FY19 data through June 2019.

