

Austin Energy Operational Update Q2 FY20

To the Electric Utility Commission

Charles Dickerson

Chief Operating Officer, Austin Energy



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Austin Energy Operational Update

Discussion Topics



Safety

Performance



Carbon Footprint

Power Production



On-Site Energy
Resources

Future State



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Safety



Safety

Data	Q1 FY20 (10/19 – 12/19)	Q2 FY20 (1/20 – 3/20)	
Total Near Misses	13	8	↓
Total Injuries	15	14	↓
Total Recordable Cases	6	6	=
Total Vehicle Accidents	8	11	↑



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Performance



Commercial Availability & Start Success

Commercial Availability

Generation Resource	Target Seasonal Commercial % Availability (Jan-Mar)	Commercial Availability Actuals (%)	
		Q1 FY20 AVG	Q2 FY20 AVG
Decker Steam Units	95	30	46
Sand Hill Combined Cycle	95	39	82
Fayette Units	97	73	77
South Texas Project	100	88	90

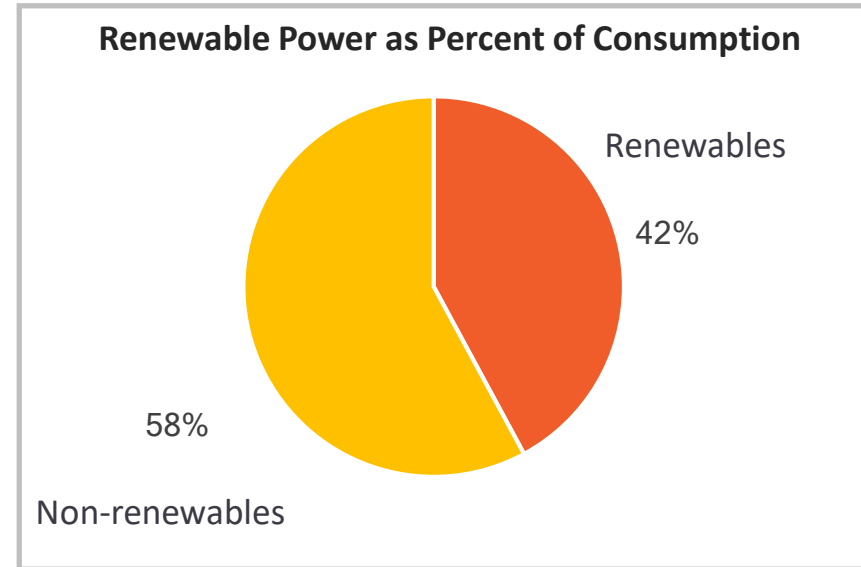
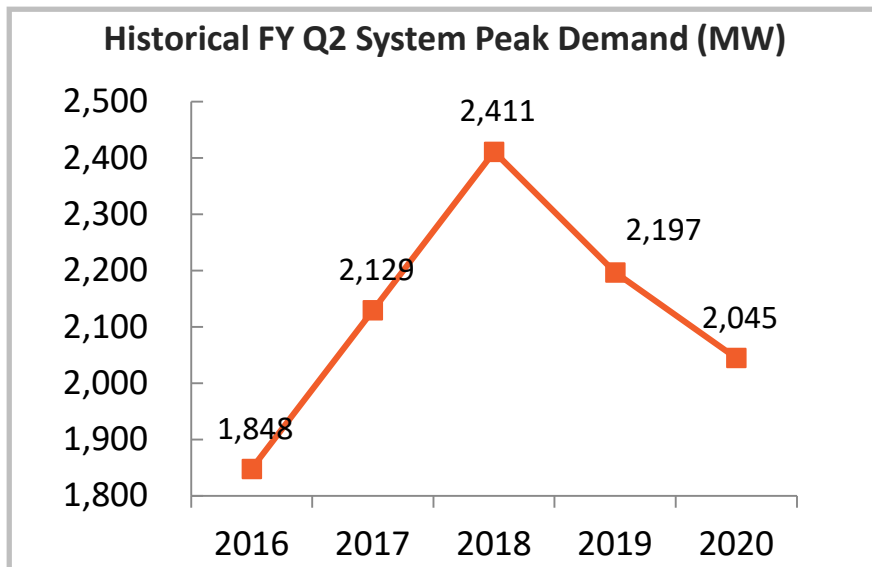
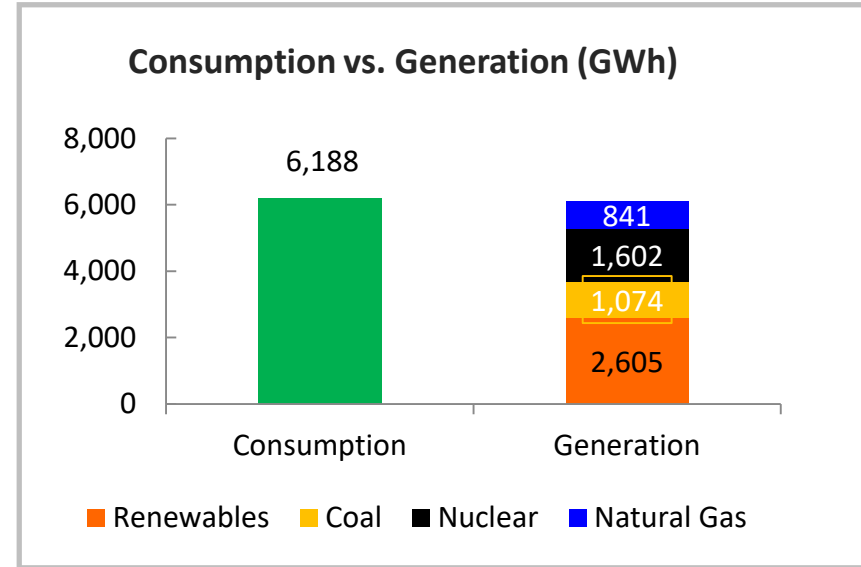
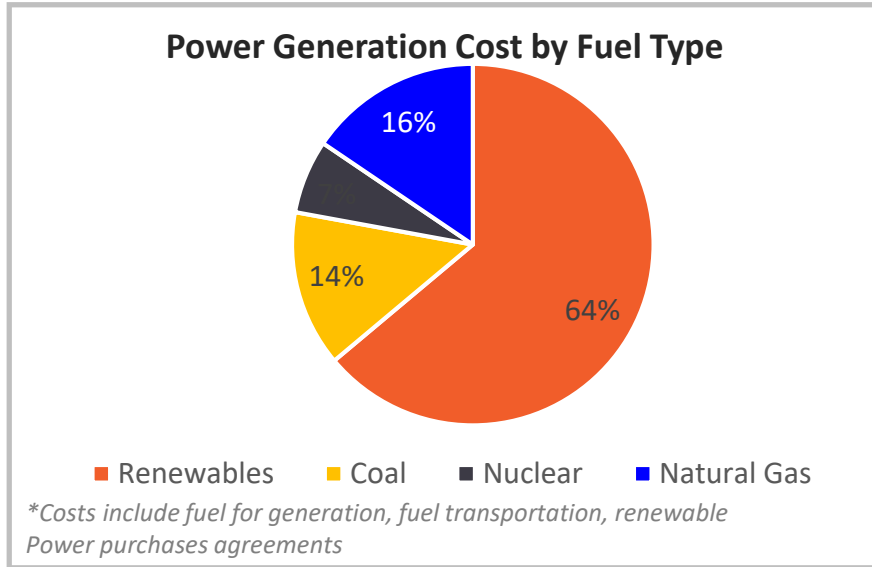
Commercial Availability values reflect maintenance or refueling outages typical for this period

Start Success

	Start Success Target(%)	Start Success Actuals (%)	
		Q1 FY20 AVG	Q2 FY20 AVG
Simple Cycle Start Success	99	100	100



Net Generation and Load Analysis FY 2020 Q2



System Reliability Metrics

CAIDI = Customer Average Interruption Duration Index

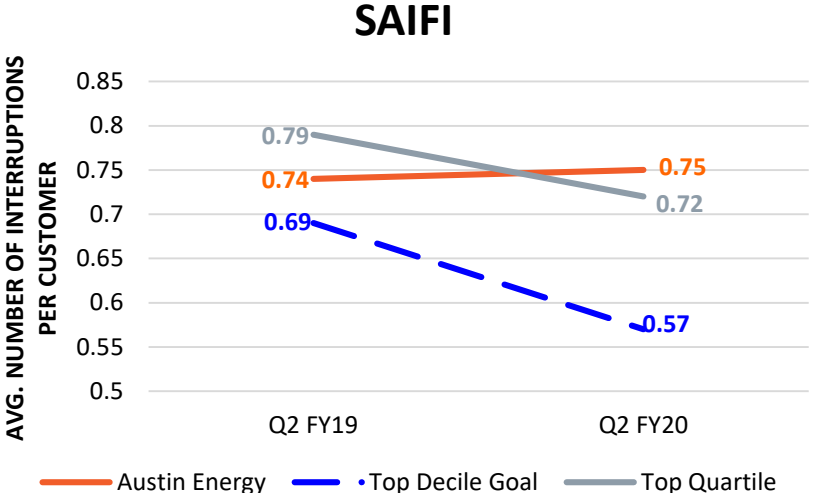
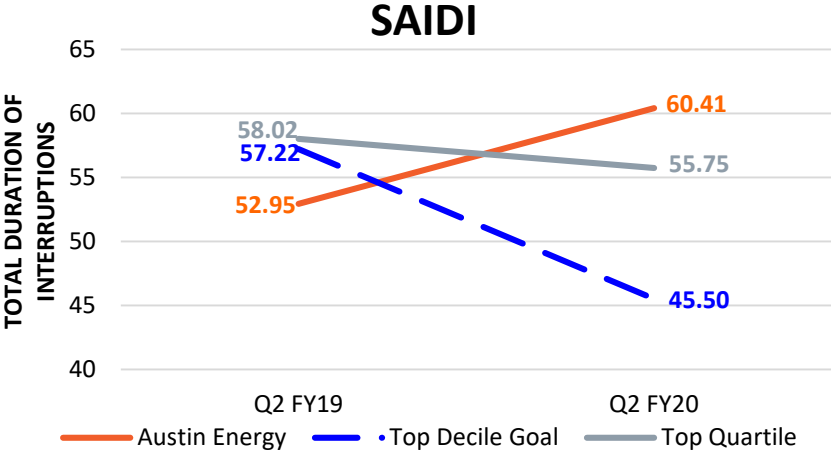
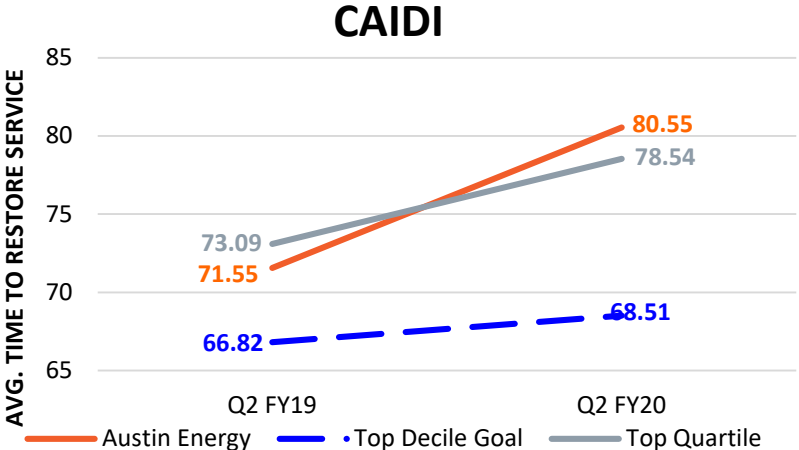
Average time to restore service.

SAIDI = System Average Interruption Duration Index

Total duration of interruptions for the average customer, during a period of time.

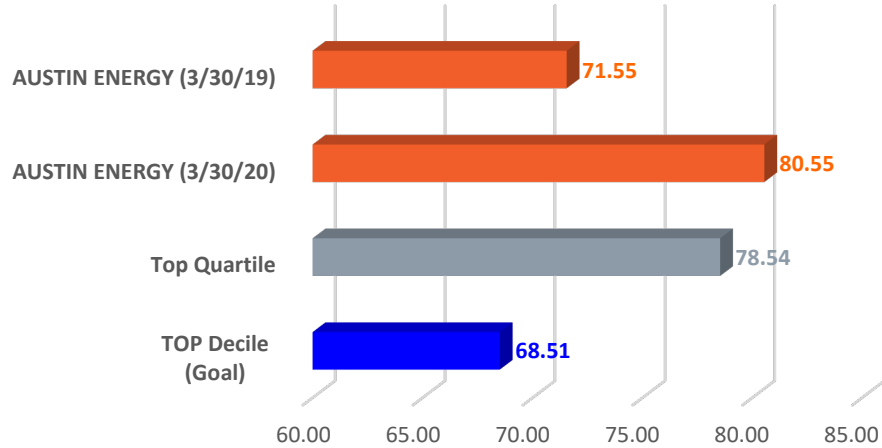
SAIFI = System Average Interruption Frequency Index

How often the average customer experiences a sustain interruption, over a period of time.

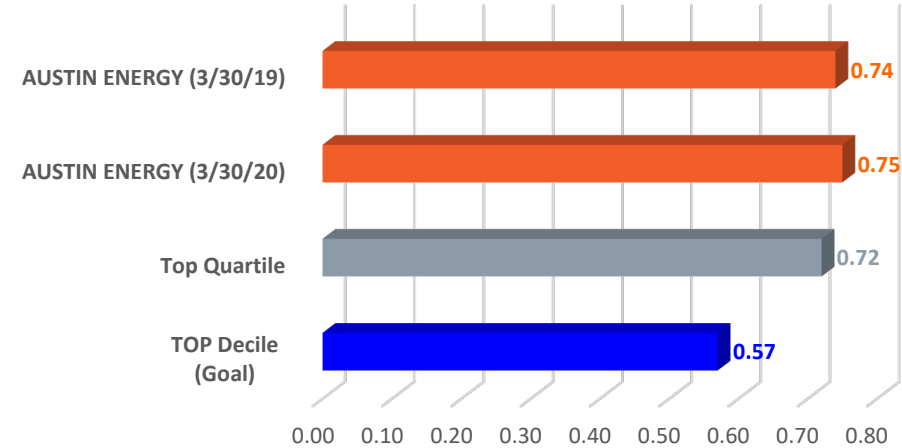


System Reliability Benchmarking

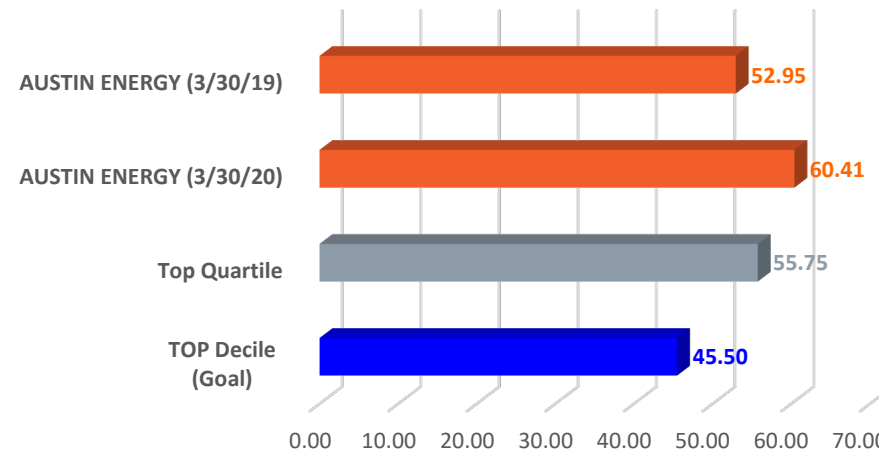
CAIDI



SAIFI



SAIDI

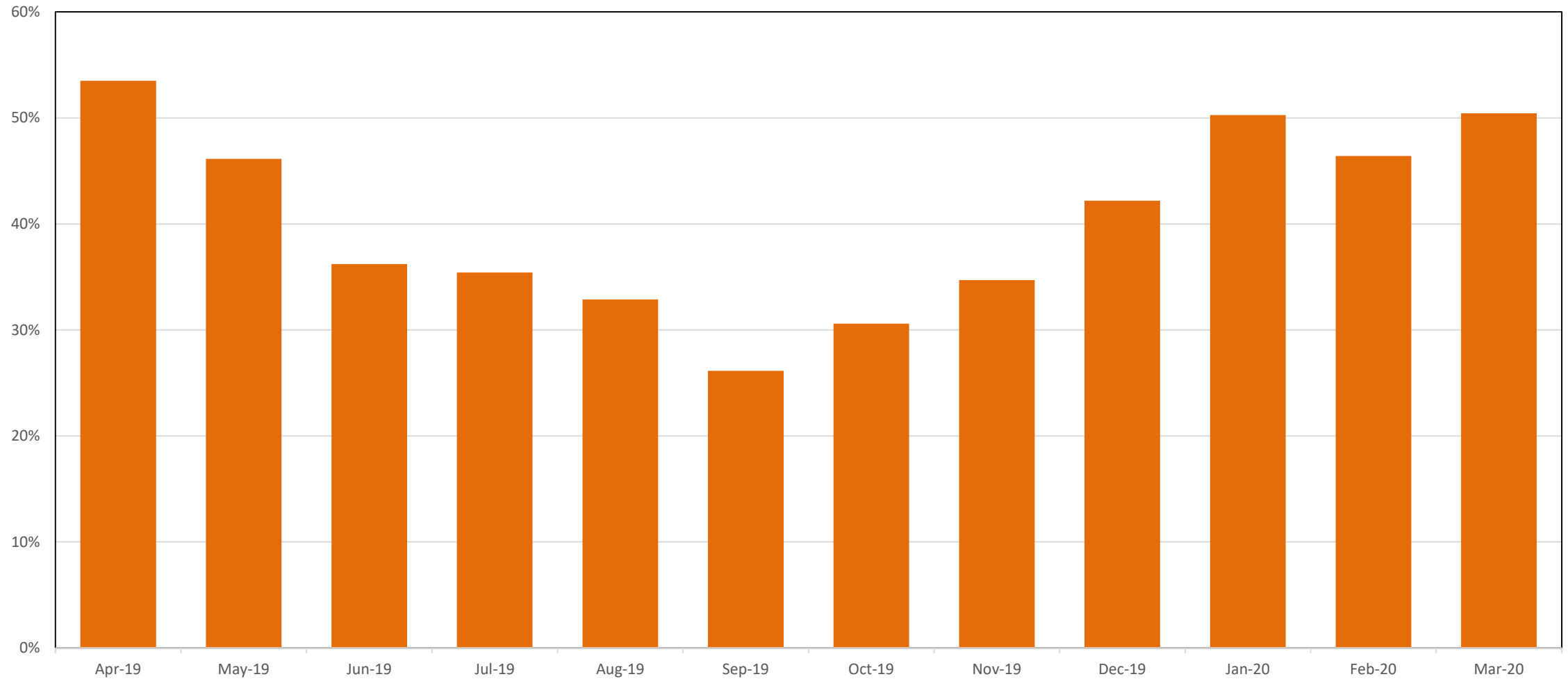


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Carbon Footprint



Renewable Generation as a Percentage of Load



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Power Production & OSER



Key District Energy & Cooling Activities

District Cooling Plant #3 (Downtown, Crescent Tract)

Constructing 10,000 ton chilled water plant for the Downtown System

- Contractor has completed building and has moved in chiller equipment
- Currently installing electrical equipment
- **On-Target for final completion by December 2020**

Austin Community College Highland Campus

Constructing a 6,000 ton chilled water plant with Thermal Energy Storage

- Building completed
- AE contractor (Flintco) installing equipment
- **On-Target for substantial completion in Q2 2021**

District Cooling Plant #4 (Downtown, Convention Center)

Constructing 3,000 ton chilled water facility on roof of Convention Center

- Building complete and all equipment installed
- Control systems to be configured and tested in early May
- **On-Target for final completion by Q2 2020**

Mueller Energy Center #2 (Mueller Redevelopment Zone)

Constructing a 6,000 ton chilled water plant with Thermal Energy Storage

- Working with developer to convey site to AE
- Plan to procure modular plant underway
- **Targeted for substantial completion in Q2 2021**



- Currently seeking a location for another downtown plant due to continued demand
- In discussions with Aviation Dept. re: providing chilled water to expanded airport facilities

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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)*

- ↑ District Cooling Plant Construction
- ↑ Chilled Water Plant Construction

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



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Appendix

