

# Austin Energy FY2023 Q2 Operations Update

May 2023

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# Agenda

## Quarterly Operations Update



Executive Summary



Reliability Performance



Environmental Performance



Grid Resilience Strategic Goal

# Executive Summary



## **Generator availability on-target**

For the quarter, resources met availability targets when considering planned outages



## **Reliability performance is trending up**

Performance over the longer term is trending negative, yet remains well above Texas utilities average



## **Renewable production on-target**

For the quarter, 57% aggregate renewable production as a percentage of load



## **Carbon free production on-target**

For the quarter, 84% carbon-free generation as a percentage of load



# Austin Energy Operations Update

## Reliability Performance



# Generator Commercial Availability

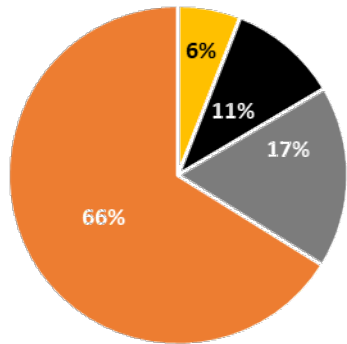
Generation Resource	Max Summer Commercial % Availability Target	Commercial Availability Actual % Q2 FY23 Avg
Sand Hill Combined Cycle	95	99
Fayette Units	97	100
South Texas Project	100	92

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



# Net Generation and Load Analysis FY2023 Q2

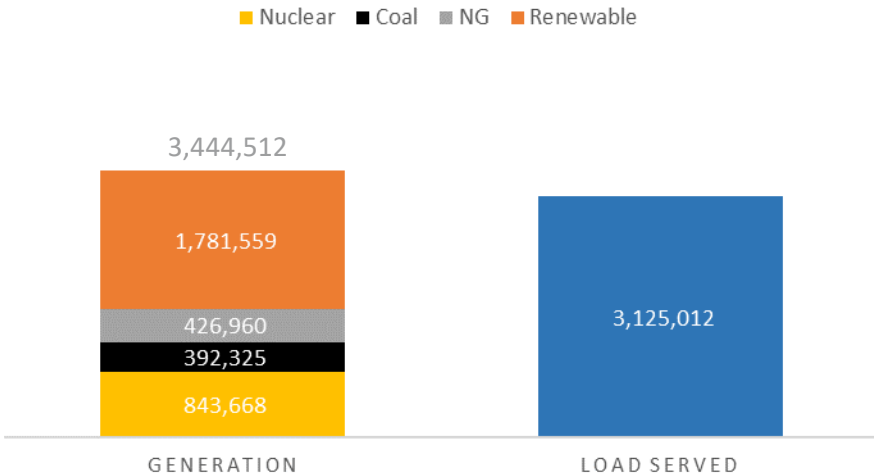
POWER GENERATION COST  
BY FUEL TYPE



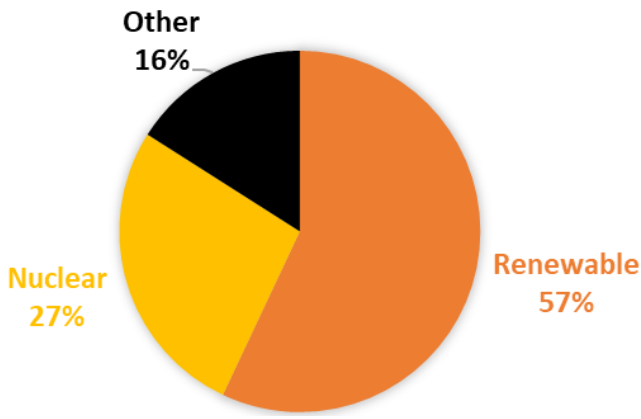
■ Nuclear ■ Coal ■ NG ■ Renewable

*\*Costs include fuel for generation, fuel transportation, renewable Power purchases agreements*

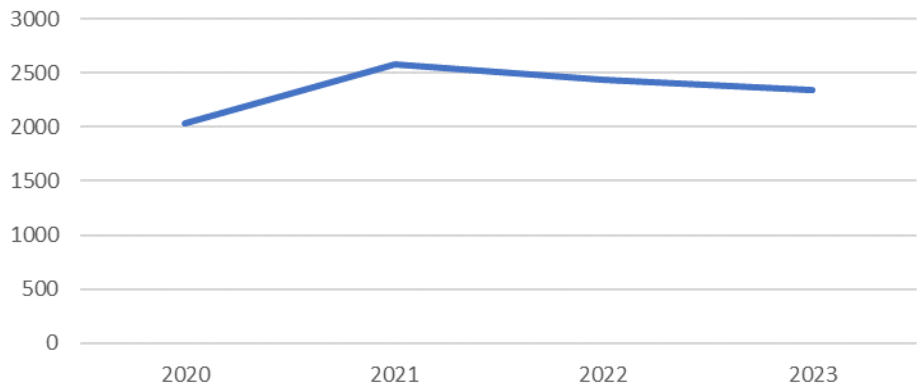
LOAD VS. GENERATION (MWH)



POWER GENERATION AS PERCENT OF LOAD



CURRENT & HISTORICAL Q2  
SYSTEM PEAK DEMAND (MW)



# System Reliability & Texas Utilities Average

	Austin Energy	Texas Utilities Average
SAIDI - System average interruption duration index (outage minutes per customer per year)	67.55	372.56
SAIFI - System average interruption frequency index (number of outages per year per customer)	0.87	1.81
CAIDI - Customer average interruption duration index (in minutes per outage experienced)	77.64	185.52



Note 1: Compares AE CY2022 with most recent available EIA data covering CY2021. AE CY2021 data: SAIDI 63.40, SAIFI 0.76, CAIDI 83.42

Note 2: All data excludes Major Event Days

# Distribution System Reliability Trends

**CAIDI = Customer Average Interruption Duration Index**

*Average time to restore service*

**SAIDI = System Average Interruption Duration Index**

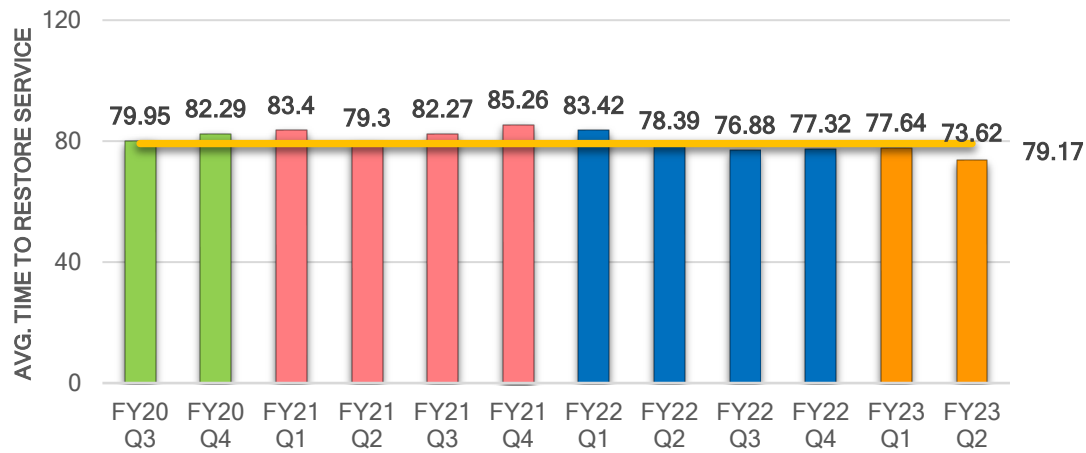
*Total duration of interruptions for the average customer, during a period of time*

**SAIFI = System Average Interruption Frequency Index**

*How often the average customer experiences a sustained interruption, over a period of time*

**MED = Major Event Days**

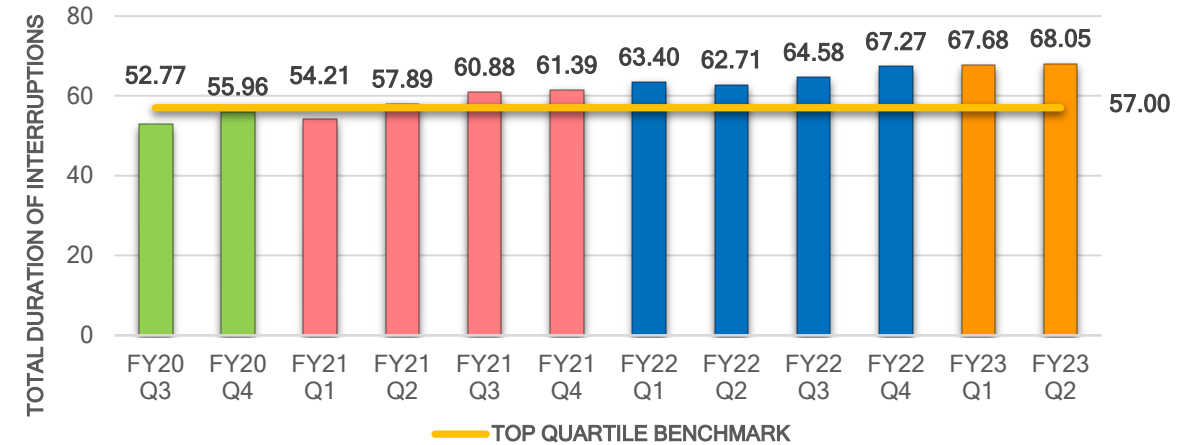
CAIDI w/o MED - FY20 - FY21 - FY22 - FY23



TOP QUARTILE BENCHMARK

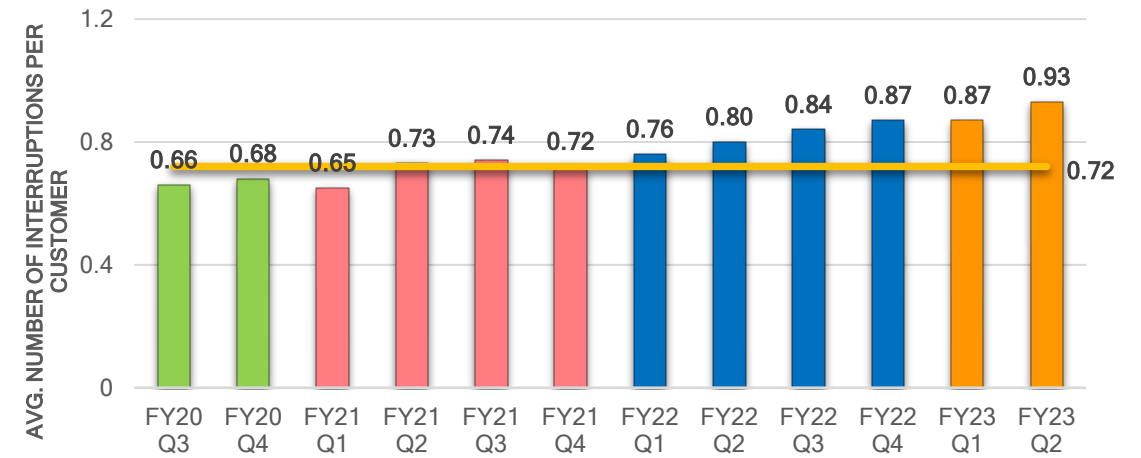


SAIDI w/o MED - FY20 - FY21 - FY22 - FY23



TOP QUARTILE BENCHMARK

SAIFI w/o MED - FY20 - FY21 - FY22 - FY23



TOP QUARTILE BENCHMARK

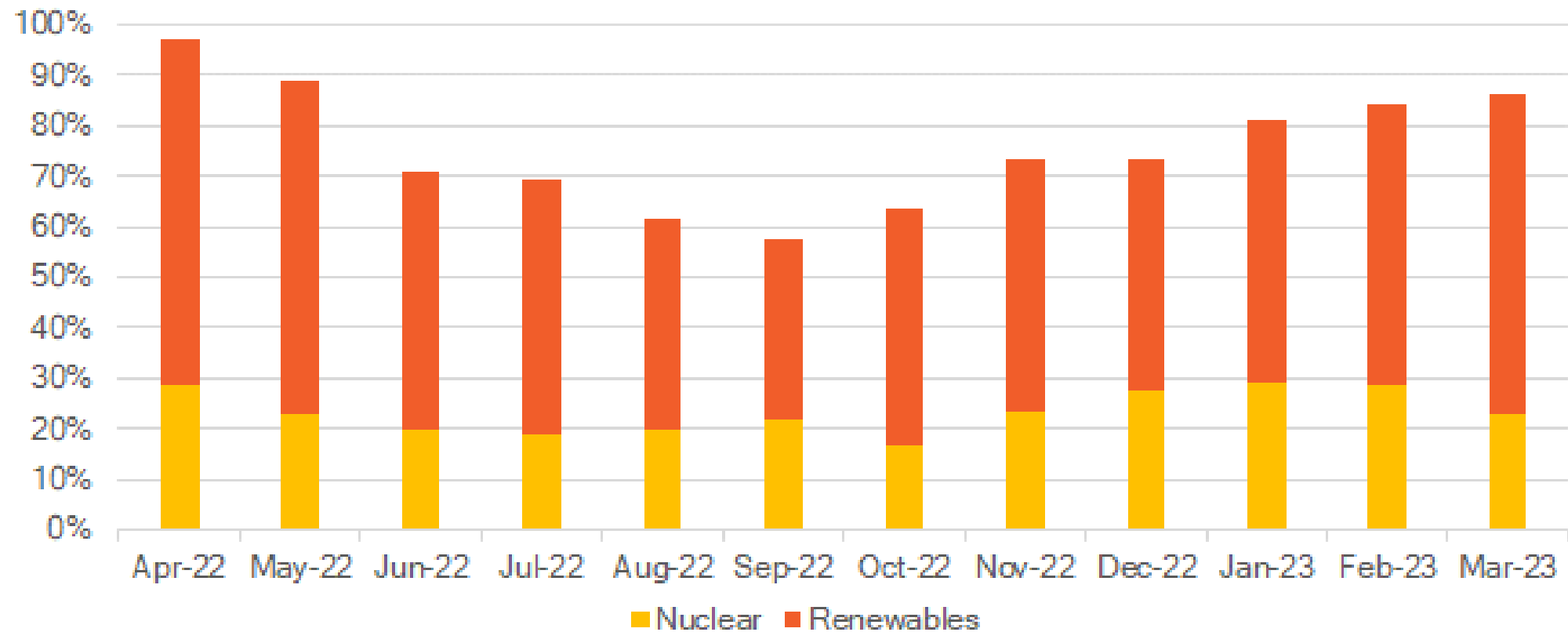


# Austin Energy Operations Update

## Environmental Performance



# Carbon-Free Generation as a Percentage of Load



# Austin Energy Operations Update

## Grid Resilience Strategic Goal



# Grid Resilience Initiatives



## Austin Energy Strategic Goals



## Grid Resilience



### Improve Distribution System Reliability

Identify, rank, and address feeder maintenance needs in areas historically impacted by outages or most susceptible to wildfire risk

- Dept of Energy Grid Resilience and Innovation Program (GRIP) grant application submitted April 2023
- TDEM Building Resilient Infrastructure and Communities (BRIC) award notification received April 2023



### Transmission System of the Future

As part of the 2030 resource plan, Austin Energy contracted for a transmission study to investigate ways to achieve the plan's goals while mitigating the impacts of the loss of generation plants

- Transmission System Assessment to be complete by June 2023



### Resiliency as a Service

In accordance with State law, enable identified critical load customer classes to install local distributed generation for resiliency and participation in the ERCOT market

- Austin Energy's Resiliency as a Service (RaaS) initial program offering is underway in CY23





**Customer Driven.  
Community Focused.<sup>SM</sup>**



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