

Austin Energy FY2024 Q3 Operations Update

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Agenda

Quarterly
Operations
Update



Executive Summary



Renewable production on-target

50% aggregate renewable production as a percentage of load in Q3.



Carbon-free production on-target

67% carbon-free generation as a percentage of load in Q3.



Maintenance for generators

Resources at Sand Hill, FPP, and STP had planned maintenance to prepare for the summer months.



Reliability performance trend stabilizing

Performance metrics show slightly better or similar outage duration and frequency compared to last quarter.



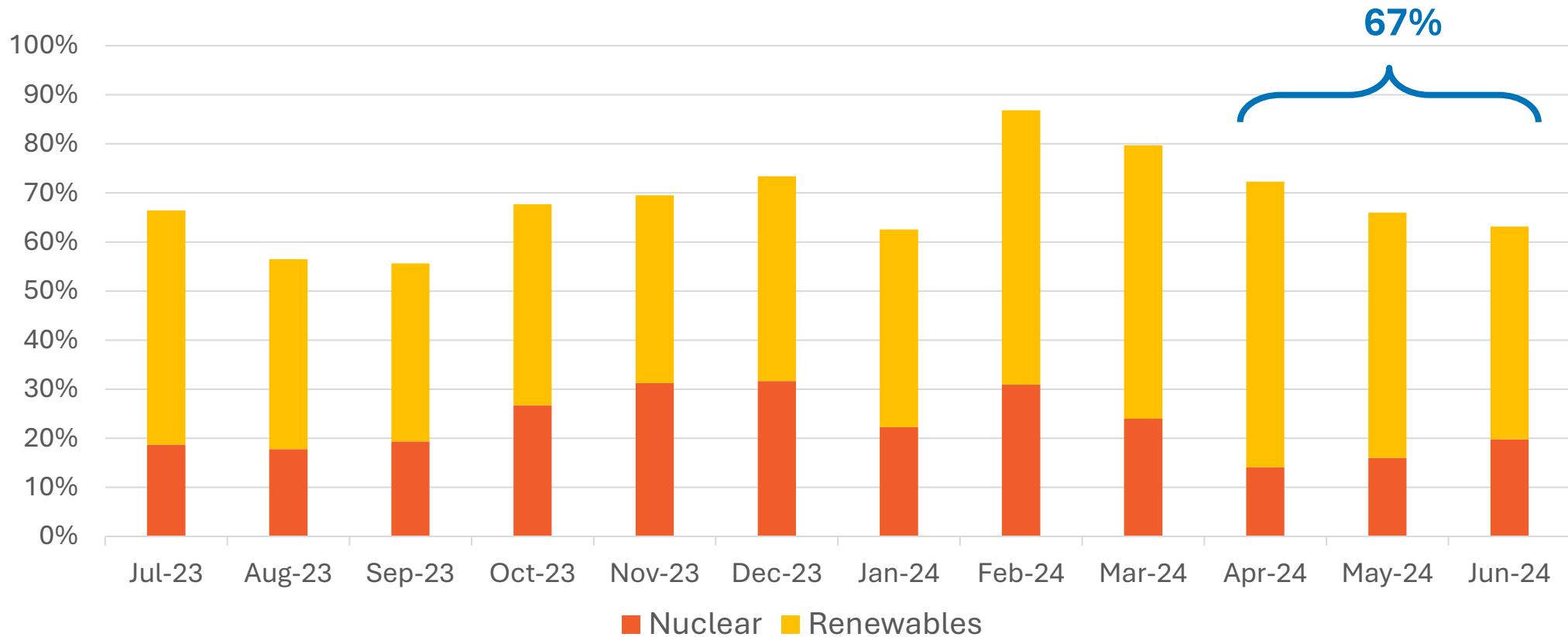
Austin Energy Operations Update

Environmental Performance



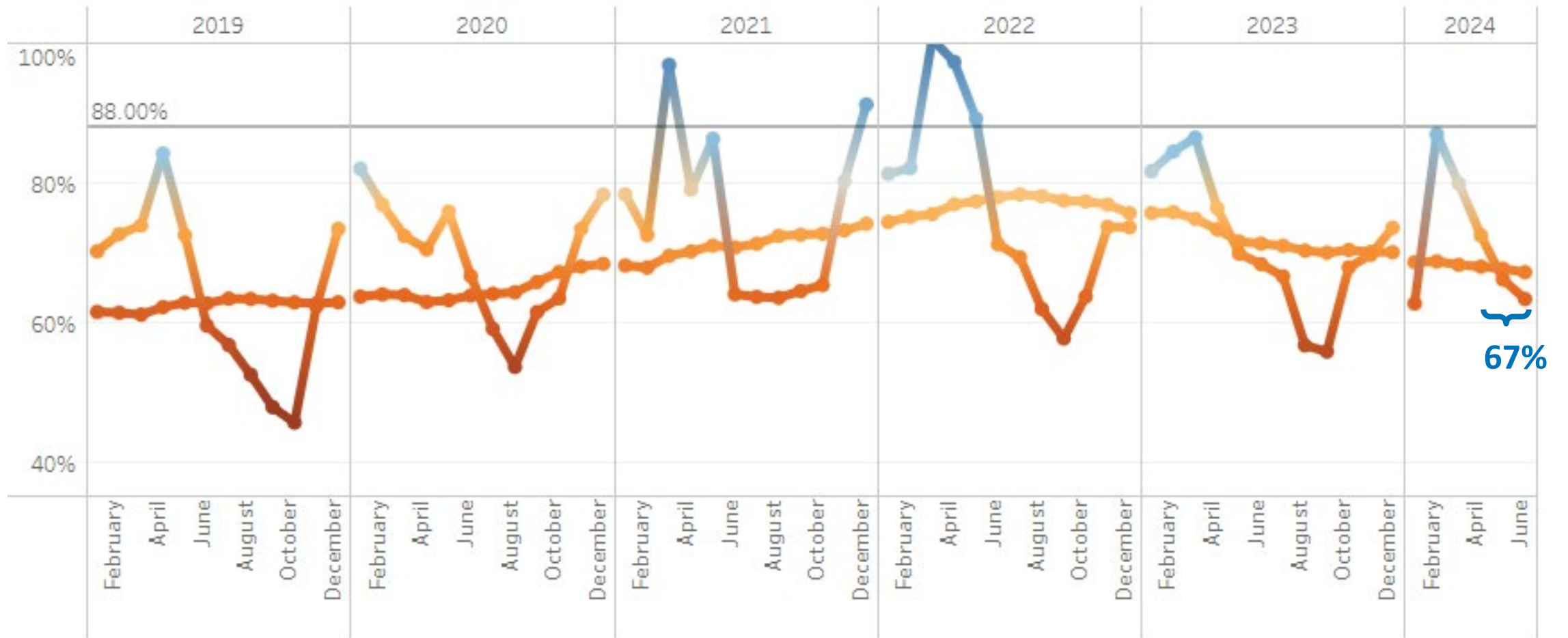
Carbon-Free Generation as a Percentage of Load

Monthly Data



Carbon-Free Generation as a Percentage of Load

Rolling 12-Month Average Data



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Reliability Performance



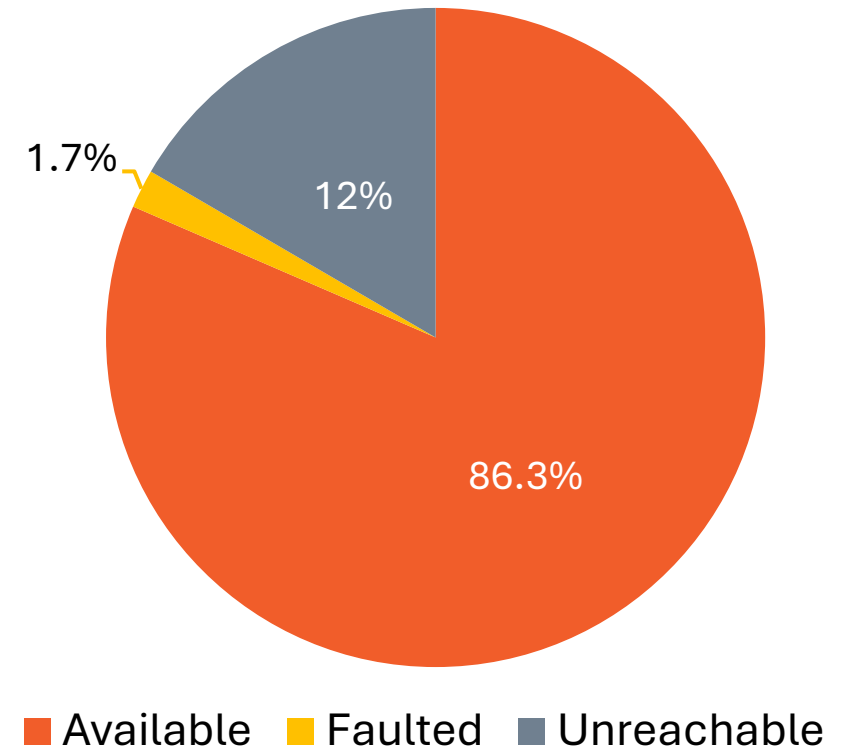
Electric Vehicle Charging Station Operations

EV Charging Operations Updates

- Austin Energy actively engaged *ChargePoint* and *Smart Charge America* to perform reactive and quarterly preventative maintenance.
- Updated rate of \$0.09/kWh implemented July 1 and phased out the former subscription plan.
- DC Fast Charging had a cumulative 93.8% uptime over the last quarter.



Network Health
as of 8/5/24



Faulted – *Hardware or Software issue detected at the time of report.*

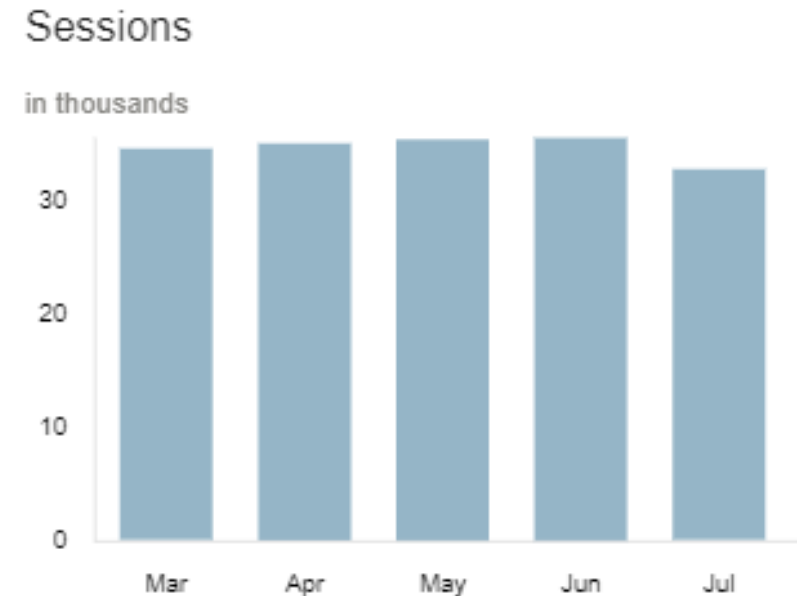
Unreachable – *WiFi or cellular issue detected with the station within the last 24 hours.*

Electric Vehicle Charging Station Operations

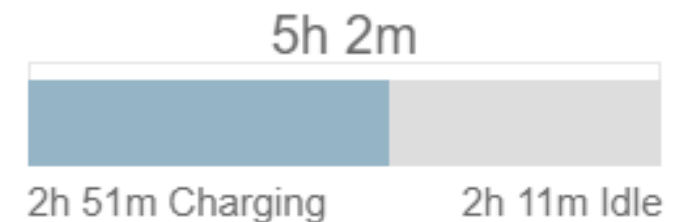
EV Charging Station Usage

- Averaging over 34,000 charging sessions per month.
- 673 MWh of energy dispensed on average each month.
- Peak usage time: 9 a.m. – 1 p.m.

Charging Sessions



Average Session Length



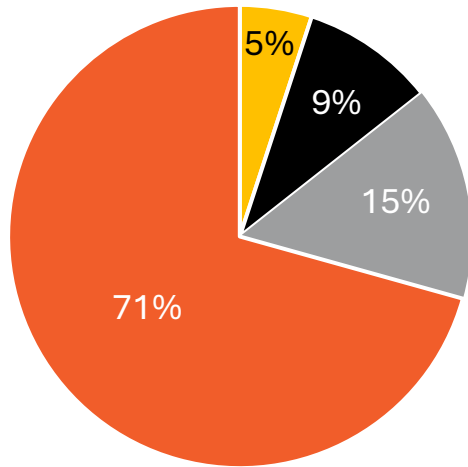
Generator Commercial Availability

Generation Resource	Commercial Availability Summer Target %	Commercial Availability Actual % Q3 FY24 Avg
Sand Hill Combined Cycle	95	77
Fayette Power Project	97	86
South Texas Project	100	73



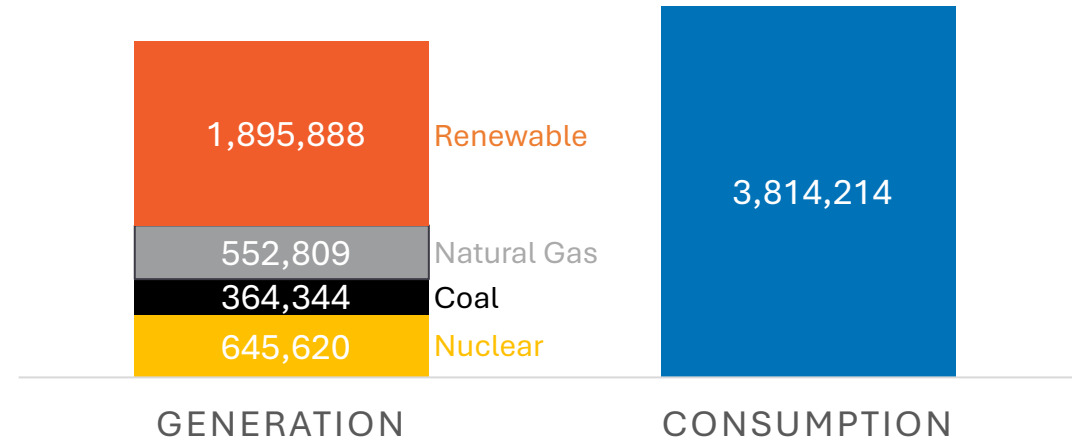
Net Generation and Load Analysis FY2024 Q3

Power Generation Cost by Fuel Type

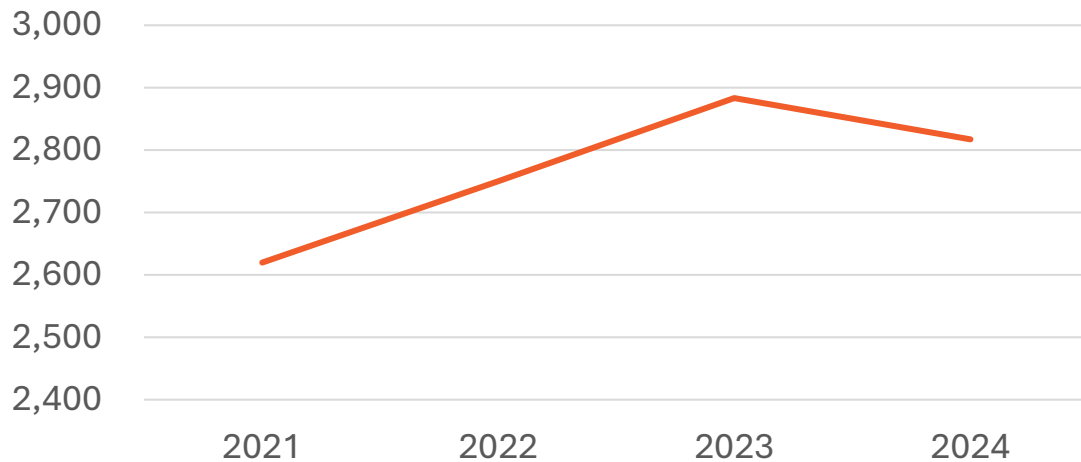


■ Nuclear ■ Coal ■ NG ■ Renewable

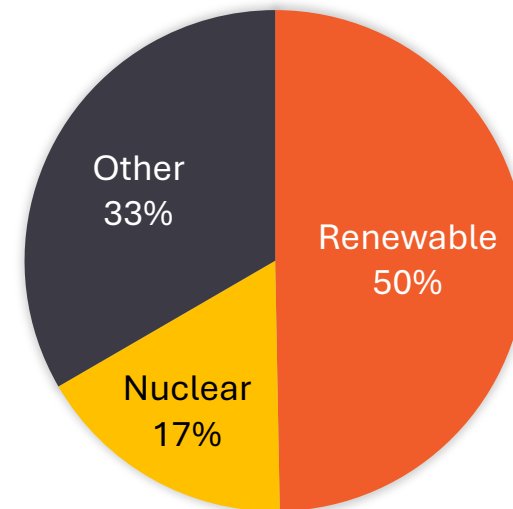
Consumption vs. Generation (MWh)



Historical Q3 System Peak Demand (MW)

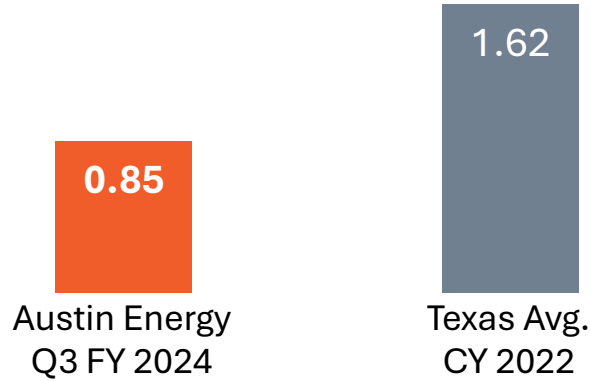


Power Generation as Percent of Consumption

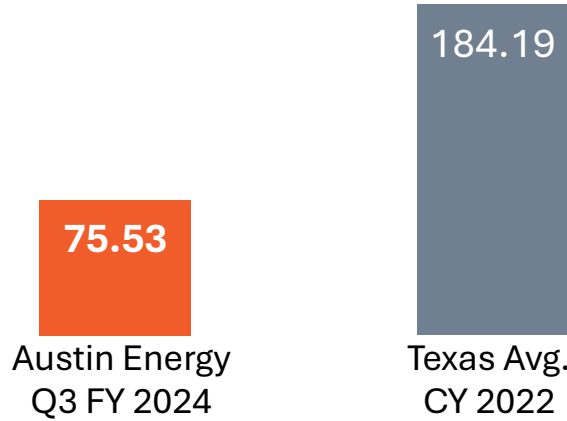


Distribution Reliability – Q3 FY2024

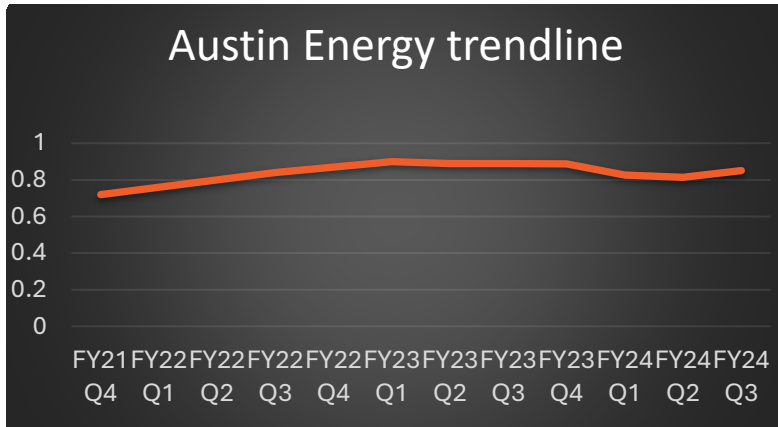
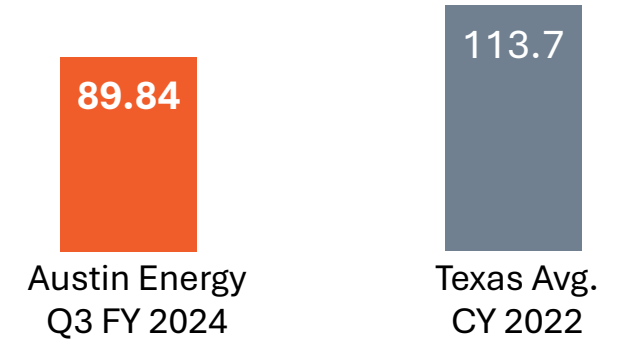
Average number of outages per customer



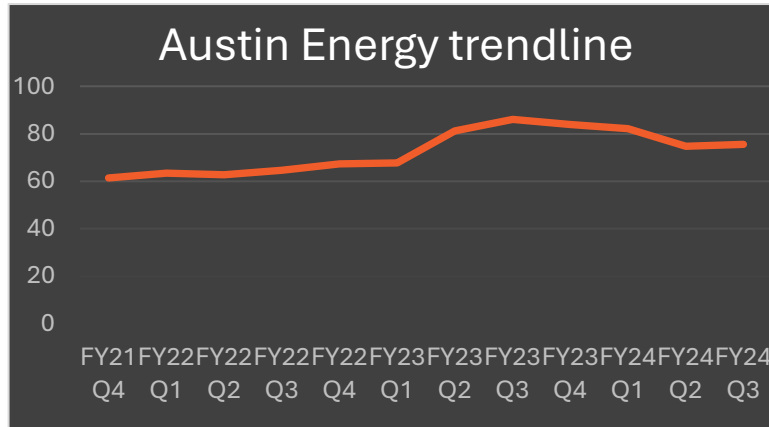
Average duration of outages in minutes



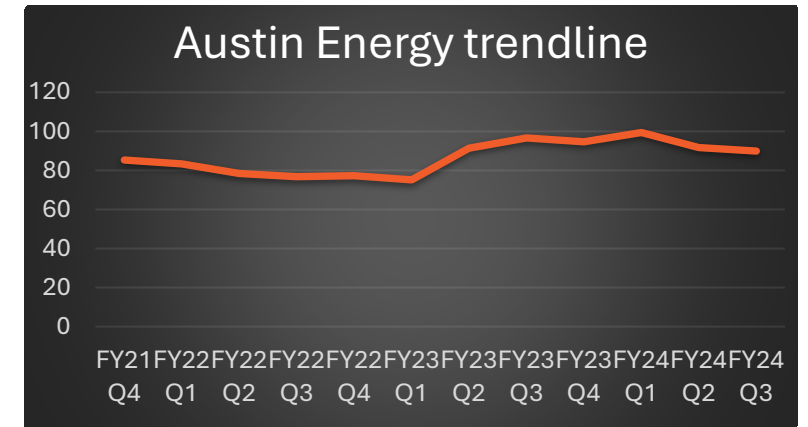
Average time to restore service to affected customer



SAIFI – System Average Interruption Frequency Index



SAIDI – System Average Interruption Duration Index



CAIDI – Customer Average Interruption Duration Index



Major event days are excluded from reliability metrics

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 and most susceptible to wildfire risk.

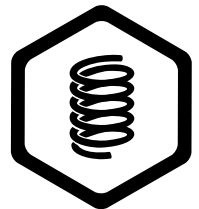
- 25 circuits underway; 2 circuits reached end-to-end completion as of August 2024.
- Overhead Hardening, Underground Feasibility studies initiated in February 2024; Estimated completion December 2024.
- Application submitted for DOE GRIP2.0 grant in April 2024; Awaiting awardee notifications (as of August 5, 2024).
- Application submitted for TDEM Grid Resiliency grant in July 2024; Awaiting awardee notifications (Fall 2024/Winter 2025).
- Pano AI – 11 out of 13 cameras now online.



Improve Underground Network Modeling

Improve Austin Energy's visibility of the downtown network model using GIS and ADMS.

- Previous system updates provided new equipment visibility in GIS and ADMS.
- GIS upgrade completed (July/August 2024) – currently in 6-month stabilization phase.



Resiliency as a Service (RaaS) Program

Providing resiliency and safety to customers and the community through a program that distributes the value of distributed generation assets across the customer base. Meets SB398 back up generation rules.

- Four RaaS projects submitted as of Q2 FY24.
- One project nearing the RFP process to select a vendor energy company.





**Customer Driven.
Community Focused.SM**

