Austin Energy FY2024 Q4 Operations Update

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Agenda

Quarterly Operations Update

Executive Summary

Renewable production

34% aggregate renewable production as a percentage of load in Q4.

Carbon-free production

53% carbon-free generation as a percentage of load in Q4.

High availability of generators

Resources at Sand Hill, FPP, and STP all exhibited high availability to match summer demand.

Reliability performance trend stable

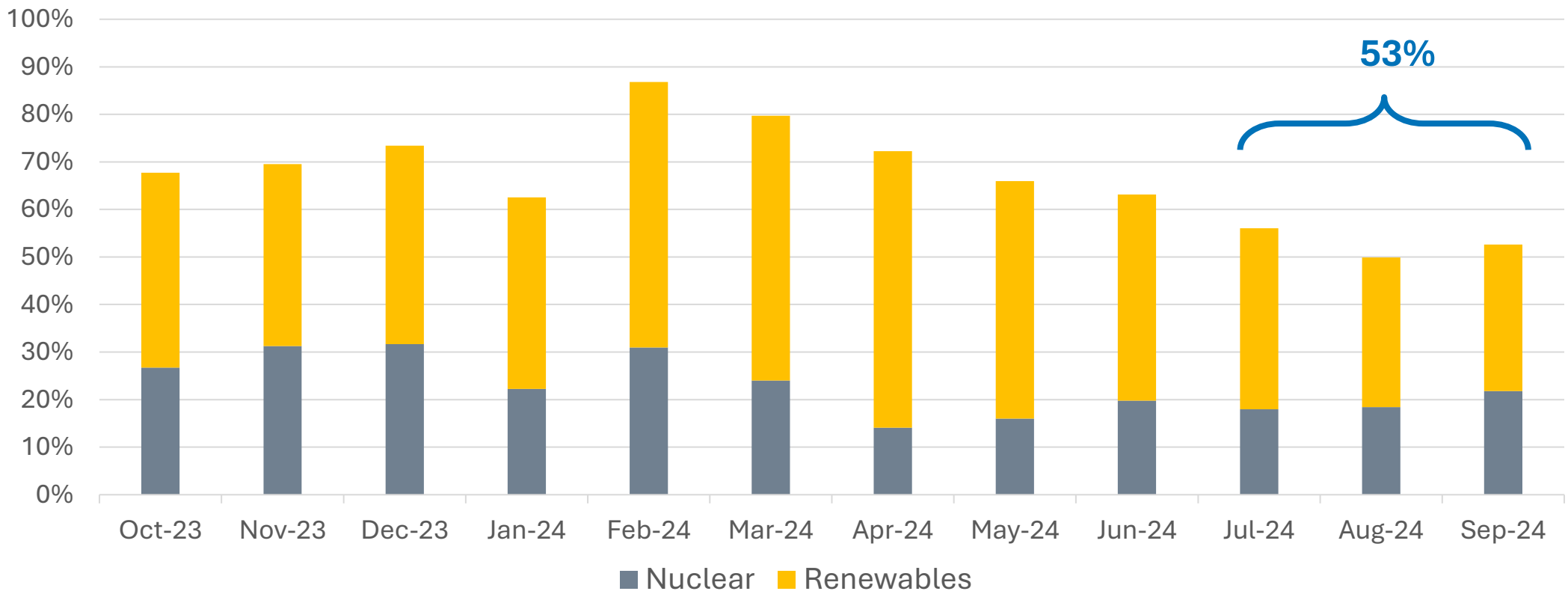
Performance metrics show slightly better or similar outage duration and frequency compared to last quarter.

Austin Energy Operations Update

Environmental Performance

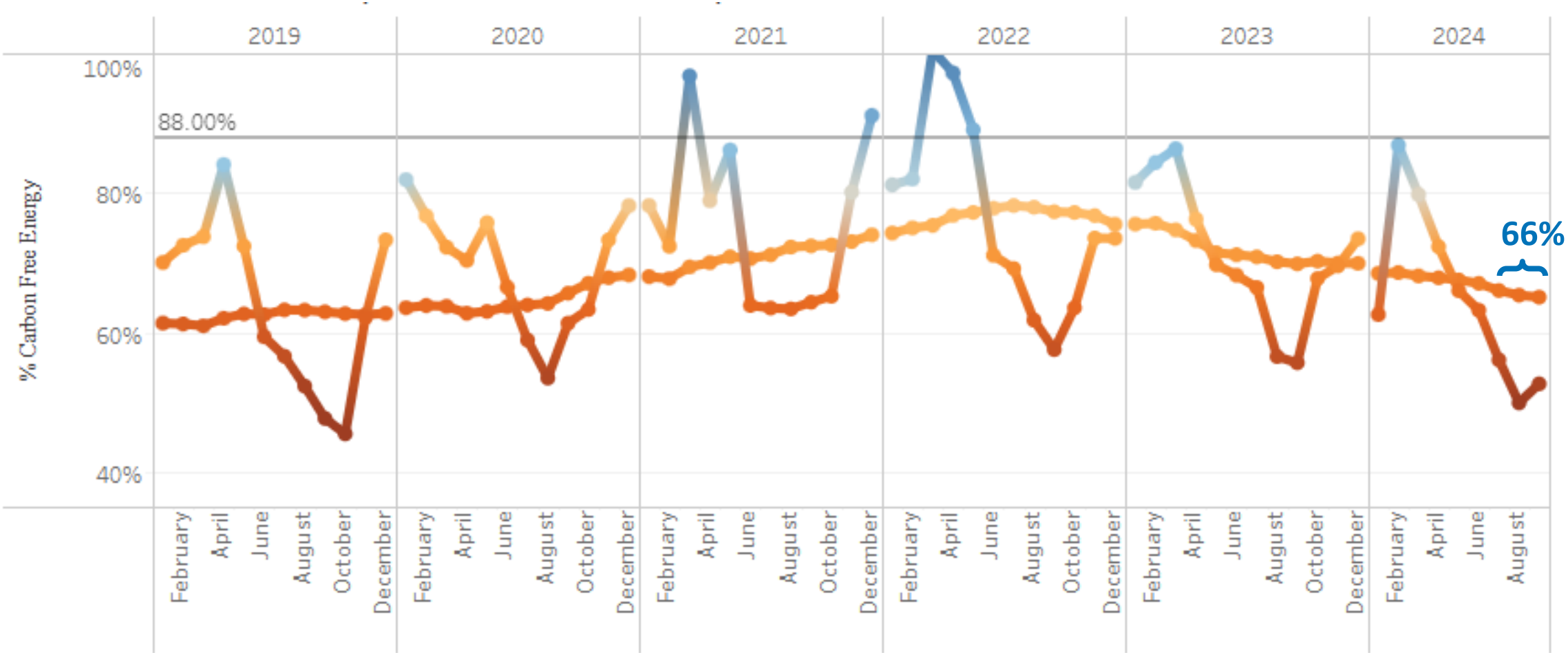
Carbon-Free Generation as a Percentage of Load

Monthly Data



Carbon-Free Generation as a Percentage of Load

Rolling 12-Month Average Data



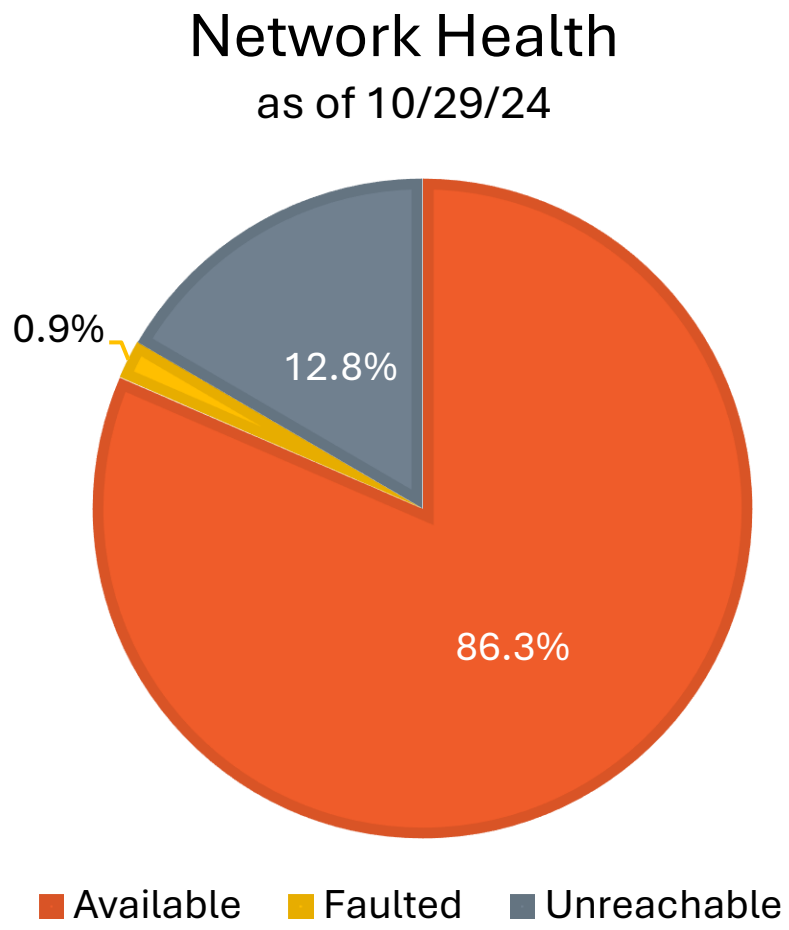
Austin Energy Operations Update

Reliability Performance

Electric Vehicle Charging Station Operations

EV Charging Operations Updates

- Overall charging network had an uptime of 96% last quarter
- DC Fast Charging had a cumulative uptime of 84.8% over the last quarter
- Austin Energy actively engaged *ChargePoint* and *Smart Charge America* to perform reactive and quarterly preventative maintenance



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

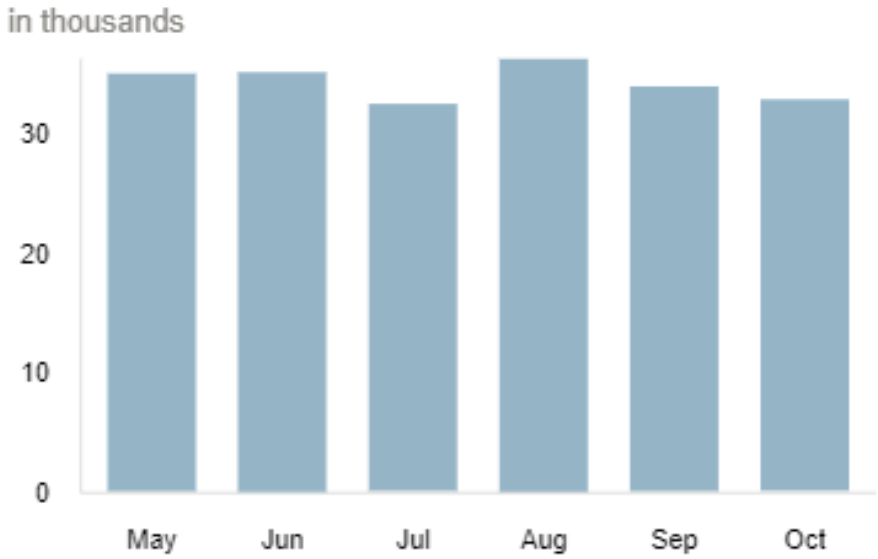
Unreachable – WiFi or cellular issue detected with the station within the last 24 hours

Electric Vehicle Charging Station Operations

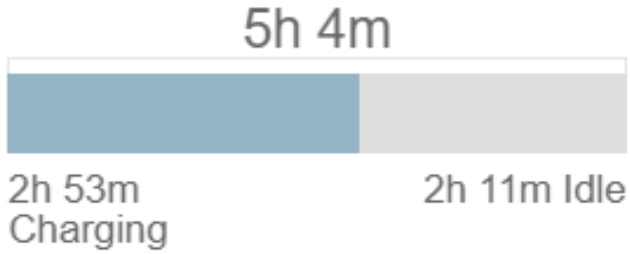
EV Charging Station Usage

- Averaging over 34,500 charging sessions per month
- 681 MWh of energy dispensed on average each month
- Peak usage time: 9 a.m. – 1 p.m.

Charging Sessions



Average Session Length

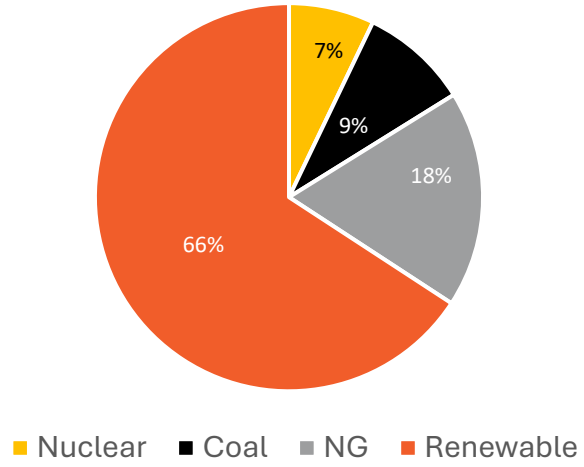


Generator Commercial Availability

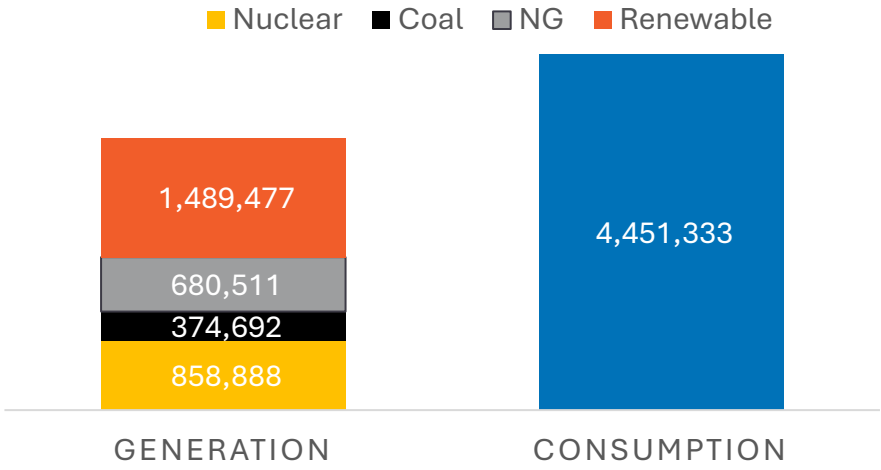
Generation Resource	Commercial Availability Summer Target %	Commercial Availability Actual % Q4 FY24 Avg
Sand Hill Combined Cycle	95	98
Fayette Power Project	97	97
South Texas Project	100	96

Net Generation and Load Analysis FY2024 Q4

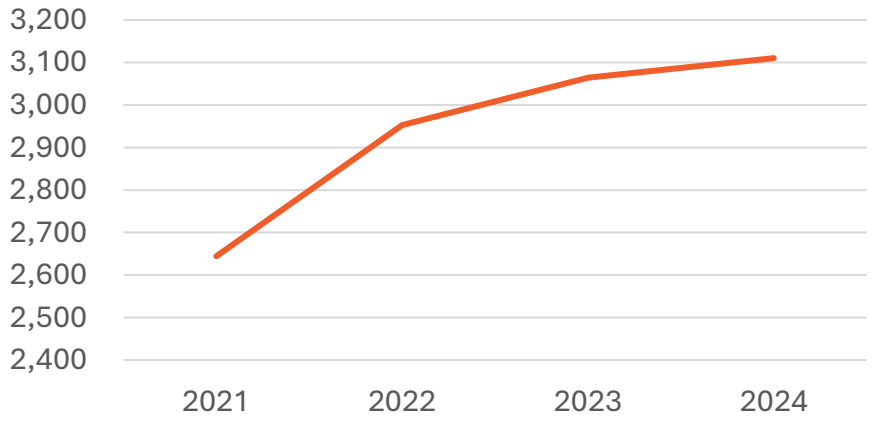
Power Generation Cost by Fuel Type



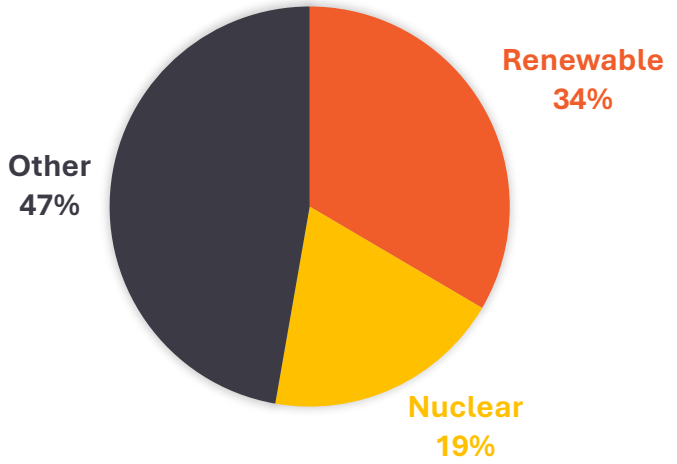
Generation vs. Consumption Cost by Fuel Type



Historical Q3 System Peak Demand (MW)

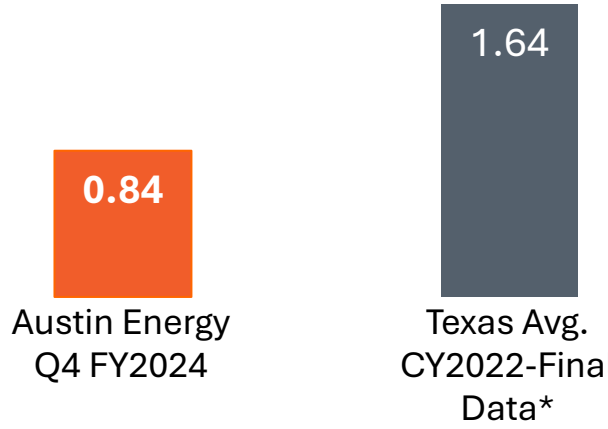


Power Generation as Percent of Consumption

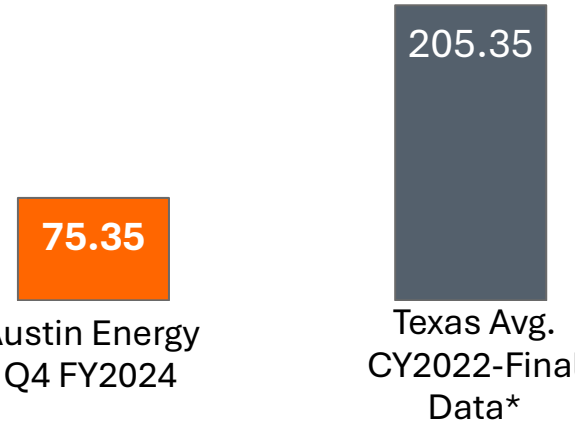


Distribution Reliability – Q4 FY2024

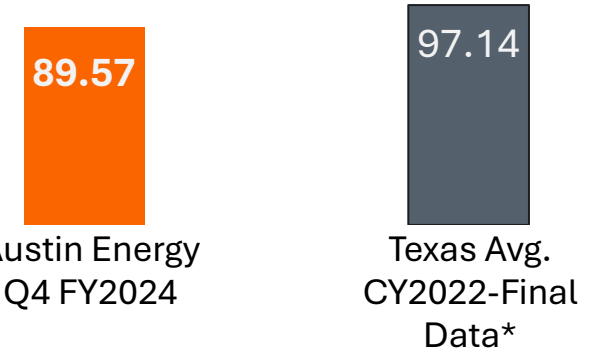
Average number of outages per customer

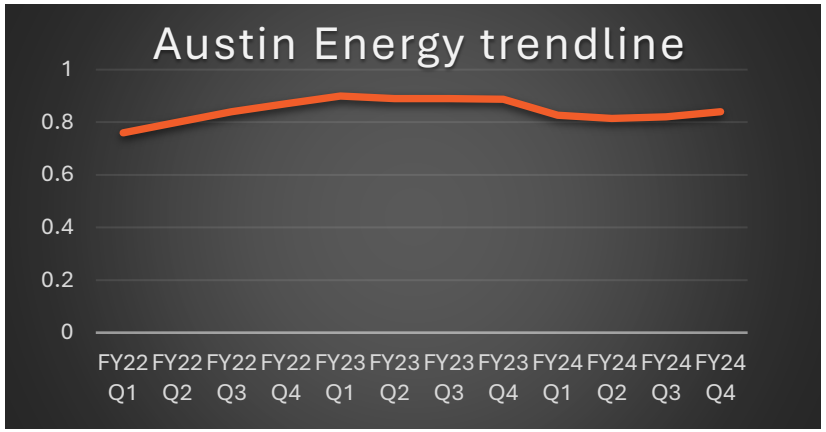


Average duration of outages in minutes

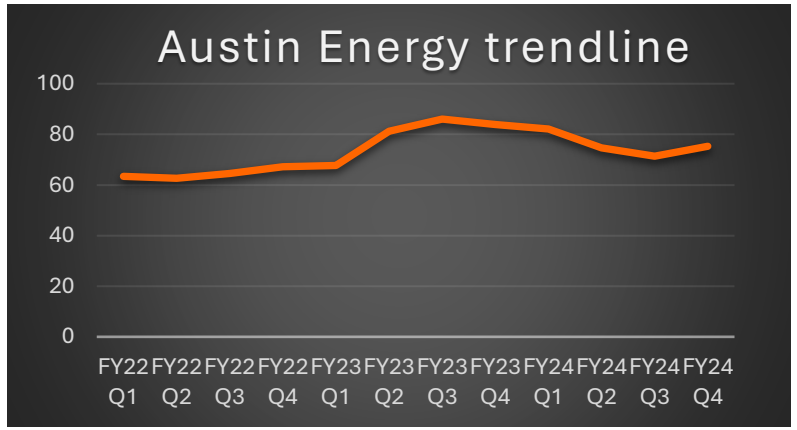


Average time to restore service to affected customer

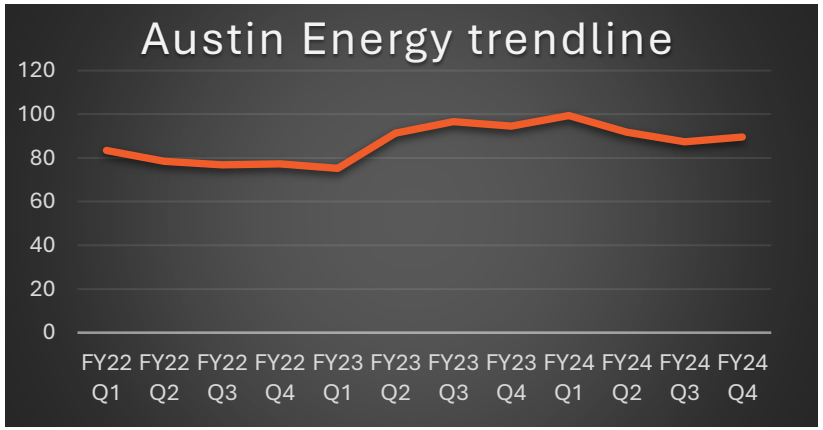




SAIFI – System Average Interruption Frequency Index



SAIDI – System Average Interruption Duration Index



CAIDI – Customer Average Interruption Duration Index

Major event days are excluded from reliability metrics

**Texas Avg. CY2022-Final Data-EIA Final Data for each metric*

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; 9 circuits reached end-to-end completion as of October 1, 2024
- Overhead Hardening, Underground Feasibility studies kicked off February 2024; On track for completion December 2024
- Awarded TDEM Grid Resiliency grants for Vegetation Management and Wildfire Mitigation improvements
- Department of Energy GRIP Grant 2.0 Application Unsuccessful for 2024 submission; notified in October 2024
- Pano AI project in full operation mode – 13 cameras, 24/7 monitoring for Wildfire detection

Improve Underground Network Modeling

Improve AE's visibility of the downtown network model using GIS and ADMS

- Phase I complete: identify network feeder bundles, develop GIS schema supporting documentation, make primary visible to ADMS
- Phase II: digitize secondary lines and system upgrades, user layouts, and implement mobile accessibility
- GIS upgrade completed Q42024 – 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 Q4 FY24
- One project nearing the RFP process to select a vendor energy company

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