

Austin Energy FY2024 Q2 Operations Update

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Agenda

Quarterly
Operations
Update



Executive Summary



Environmental Performance



Reliability Performance



Grid Resilience Strategic Goal

Executive Summary



Renewable production on-target

50% aggregate renewable production as a percentage of load in Q2



Carbon-free production on-target

75% carbon-free generation as a percentage of load in Q2



Maintenance for generators

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



Reliability performance trend still stabilizing

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



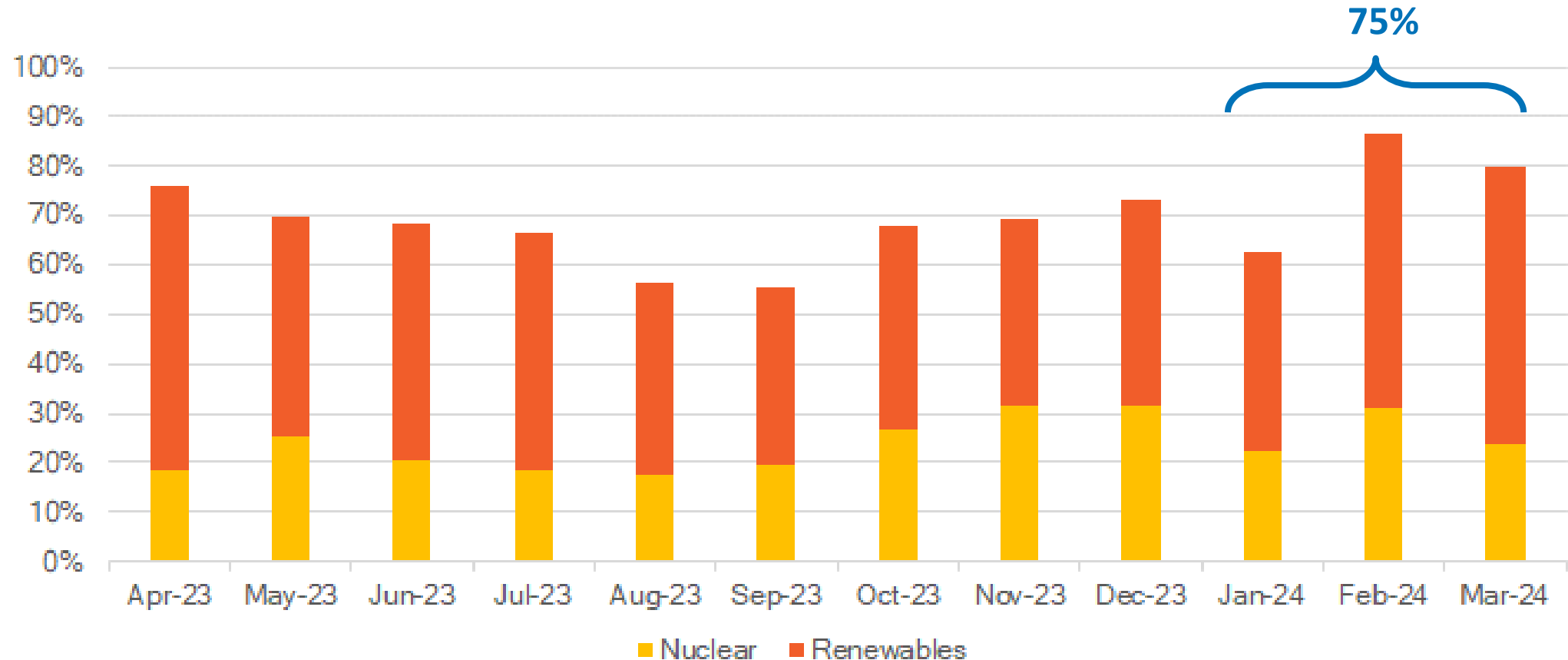
Austin Energy Operations Update

Environmental Performance



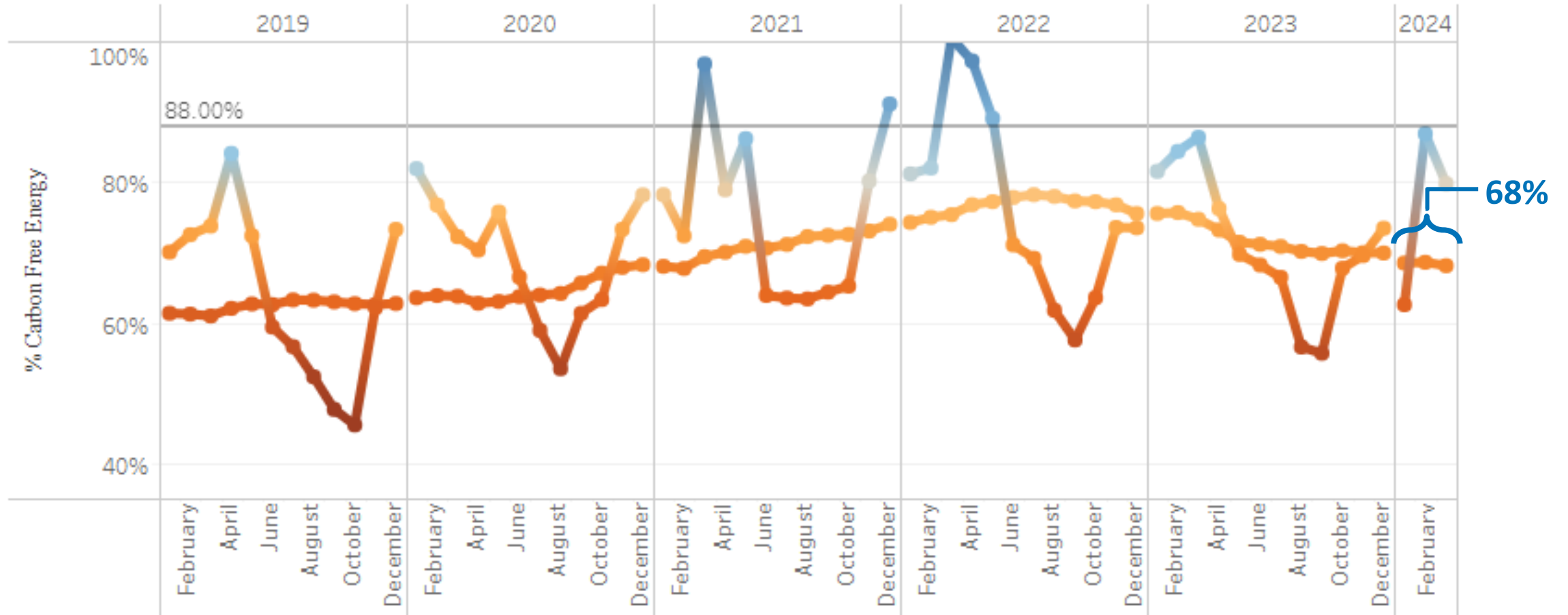
Carbon-Free Generation as a Percentage of Load

Monthly Data



Carbon-Free Generation as a Percentage of Load

Rolling 12-Month Average Data



Austin Energy Operations Update

Reliability Performance

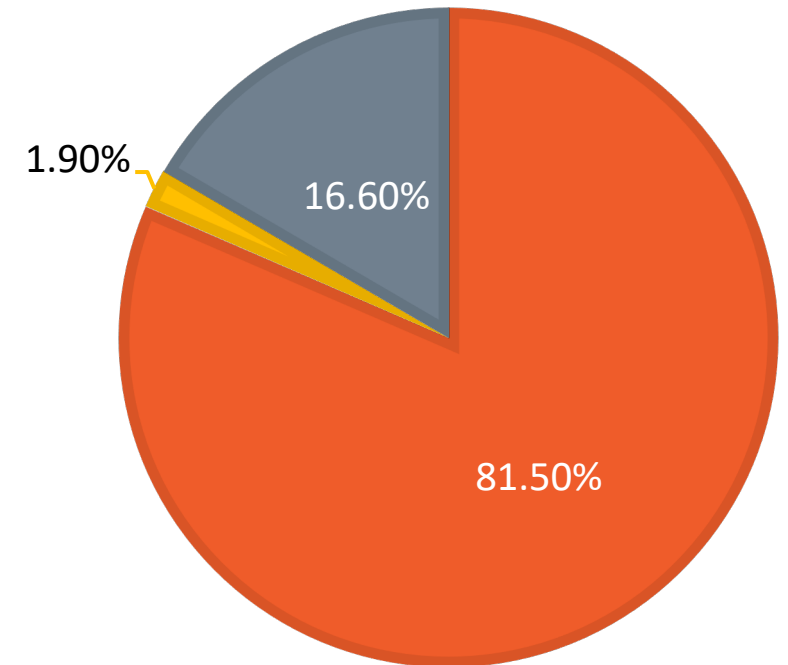


Electric Vehicle Charging Station Operations

EV Charging Operations Updates

- Austin Energy actively engaged *ChargePoint* and *Smart Charge America* to perform reactive and quarterly preventative maintenance
- Implementing an updated rate of \$0.09/kWh
- Phasing out the former subscription plan (July 2024)
- DC Fast Charging had a cumulative 93.3% uptime over the last quarter

Network Health
as of 5/7/24



Available Faulted Unreachable

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

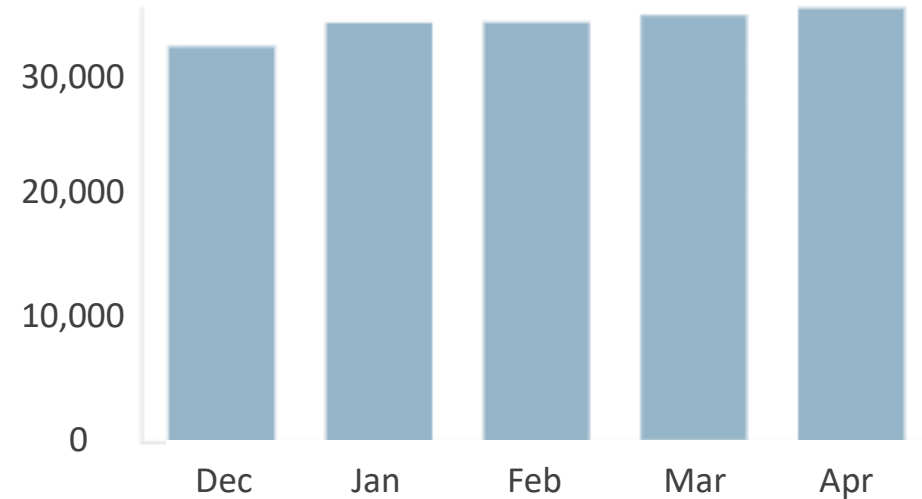


Electric Vehicle Charging Station Operations

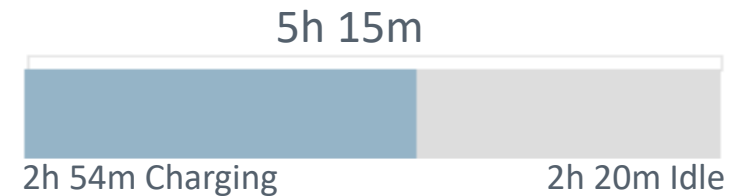
EV Charging Station Usage

- Averaging over 30,000 charging sessions per month
- 674 MWh of energy dispensed on average each month
- Peak usage time: 9 a.m. – 1 p.m.

Charging Sessions



Average Session Length



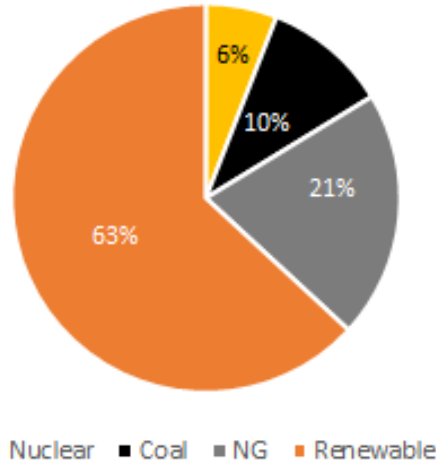
Generator Commercial Availability

Generation Resource	Commercial Availability Summer Target %	Commercial Availability Actual % Q2 FY24 Avg
Sand Hill Combined Cycle	95	89
Fayette Power Project	97	94
South Texas Project	100	87



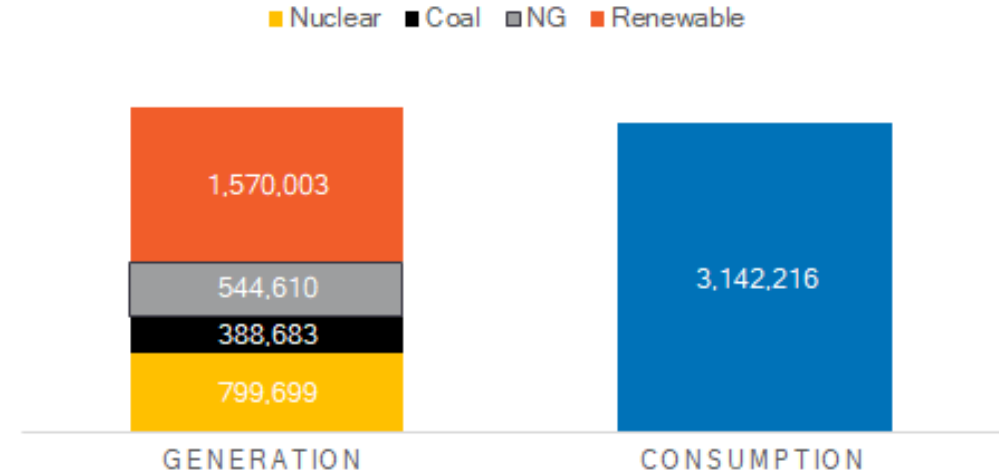
Net Generation and Load Analysis FY2024 Q2

Power Generation Cost by Fuel Type

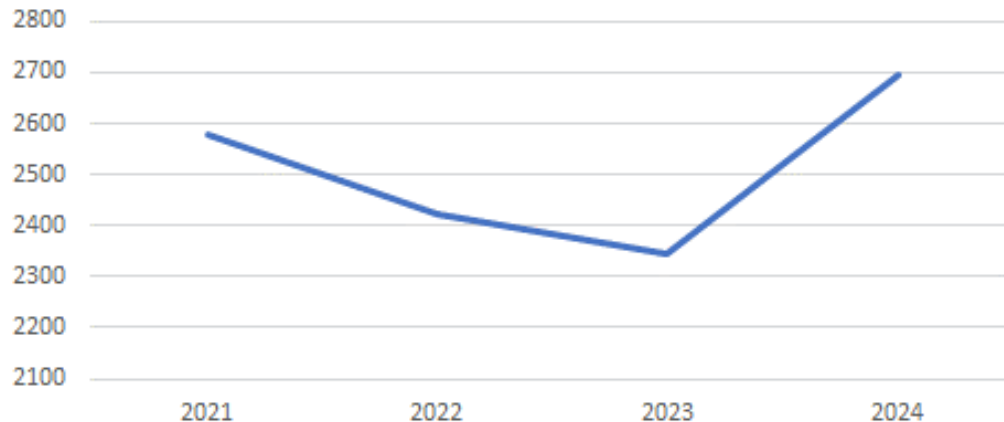


**Costs include fuel for generation, fuel transportation, renewable power purchases agreements*

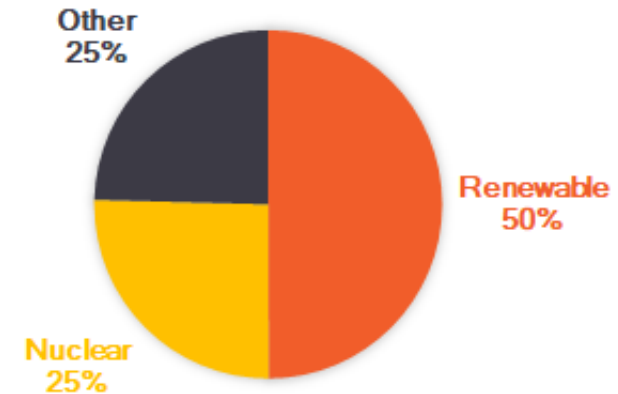
CONSUMPTION VS. GENERATION (MWH)



Historical FY24 Q2 System Peak Demand (MW)

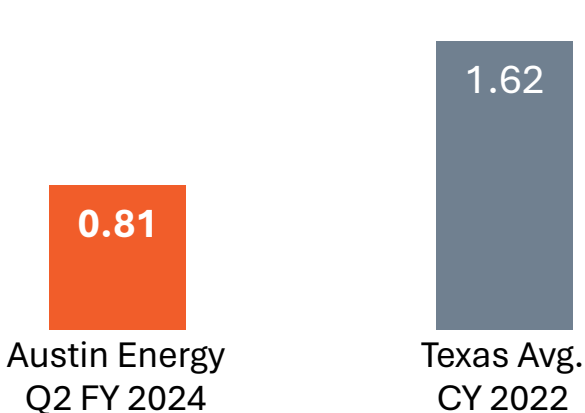


POWER GENERATION AS PERCENT OF CONSUMPTION

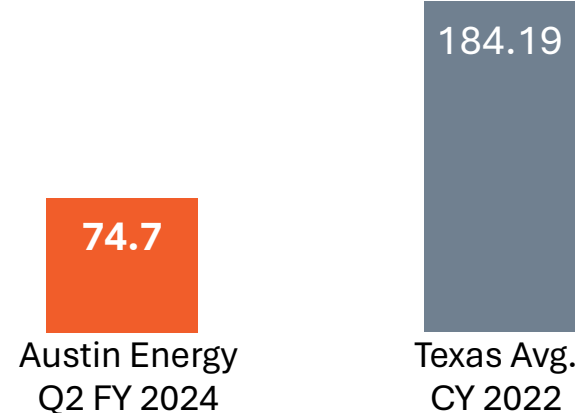


Distribution Reliability – Q2 FY2024

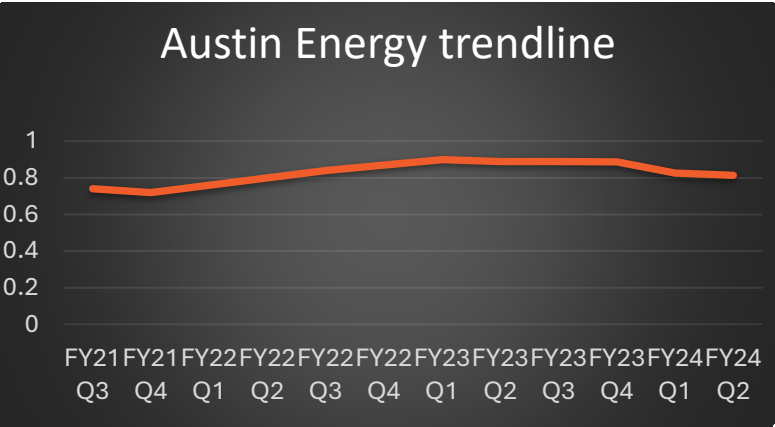
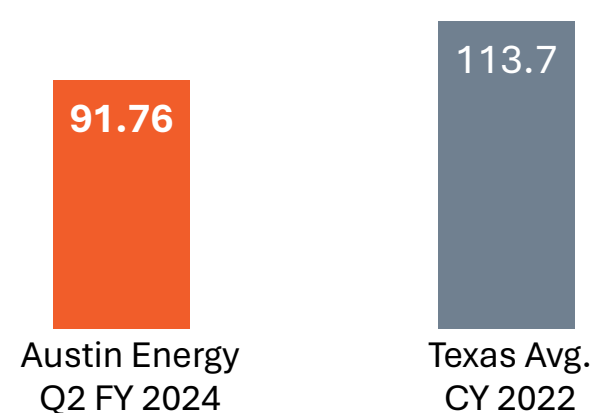
Average number of outages per customer



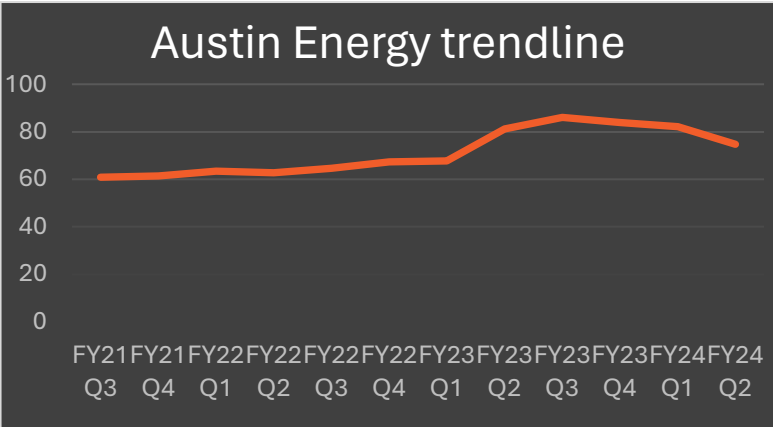
Average duration of outages in minutes



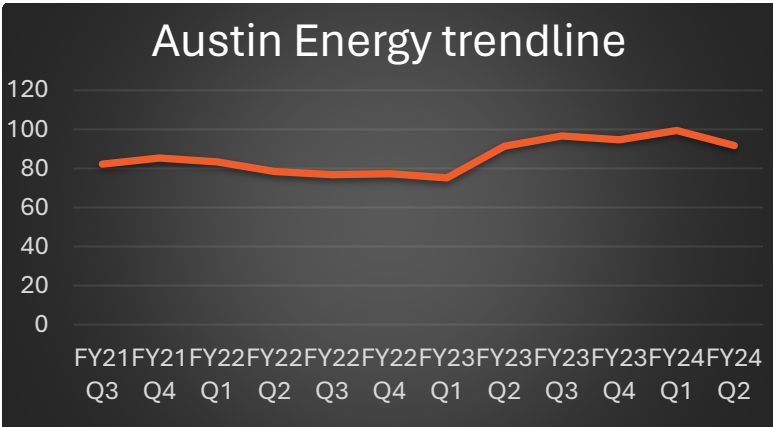
Average time to restore service to affected customer



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.

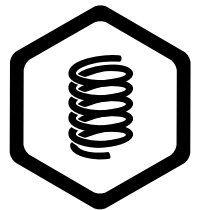
- 25 circuits underway; 2 circuits reached end-to-end completion as of January 2024
- Overhead Hardening, Underground Feasibility studies kicked off February 2024; Estimated completion December 2024
- Application submitted for DOE GRIP2.0 grant in April 2024; Awardee notifications in Summer 2024
- Pano Ai early wildfire detection project supports feeder remediation



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
- Pending GIS upgrade go-live for completion (Anticipated go-live Summer 2024)



Resiliency as a Service (RaaS) Program

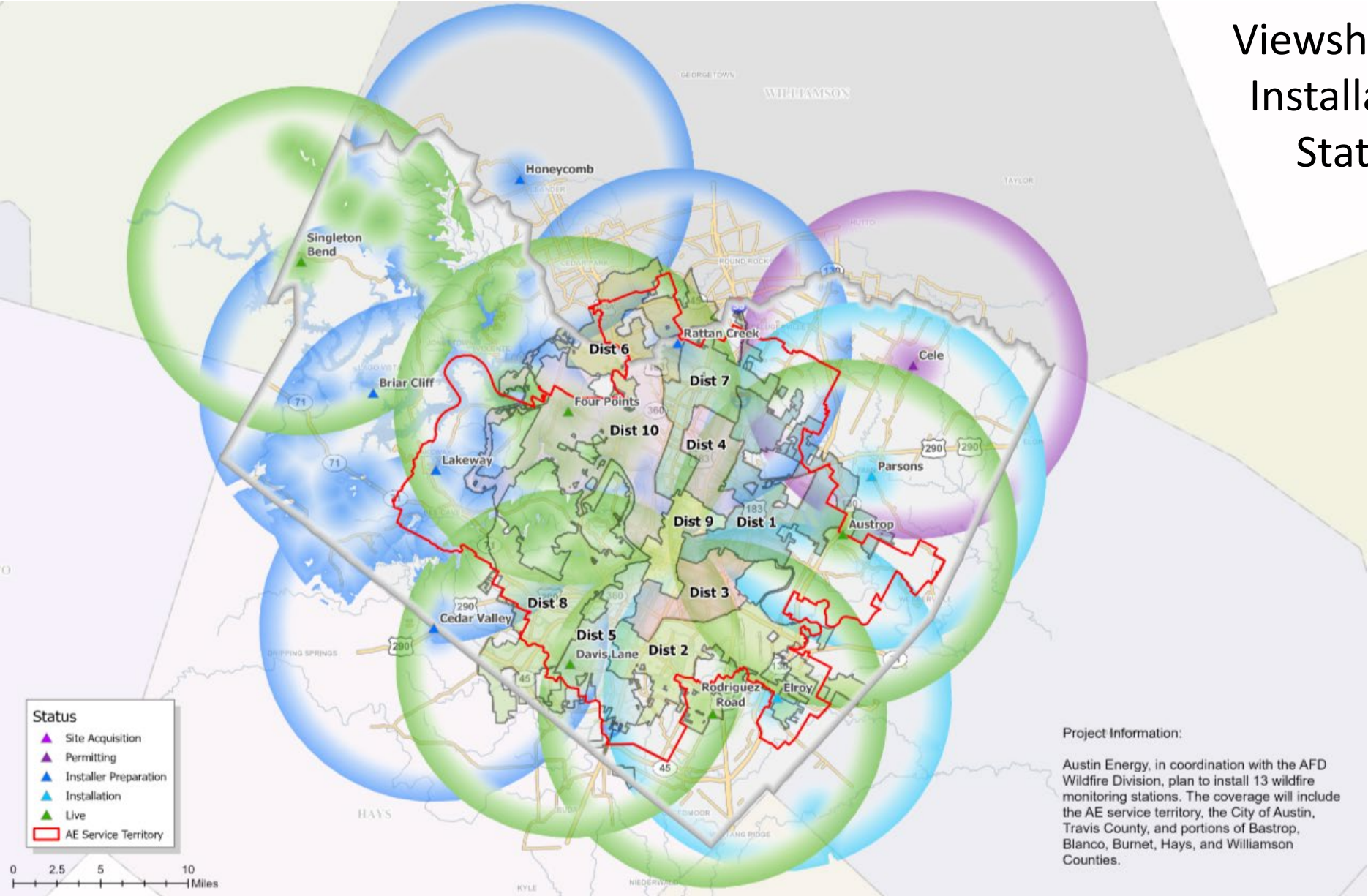
Providing resiliency and safety to customers and the community through a program that distributes the value of distributed generation assets across the customer base; meets SB398 back up generation rules.

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



Pano AI Wildfire Detection Services

Viewsheds & Installation Status



Project Information:
 Austin Energy, in coordination with the AFD Wildfire Division, plan to install 13 wildfire monitoring stations. The coverage will include the AE service territory, the City of Austin, Travis County, and portions of Bastrop, Blanco, Burnet, Hays, and Williamson Counties.





**Customer Driven.
Community Focused.SM**

