Austin Energy FY2023 Q4 Operations Update
November 2023

Lisa Martin

Deputy General Manager & Chief Operating Officer

Agenda

Quarterly Operations Update

- Executive Summary
- Reliability Performance
- Environmental Performance
- Grid Resilience Strategic Goal

Executive Summary

Generators available all summer
Resources demonstrated 100% availability which exceeds summer availability targets

Reliability performance trend is stabilizing
Performance metrics show slightly better or the same outage duration and frequency compared to last quarter

Renewable production on-target
For the quarter, 41% aggregate renewable production as a percentage of load

Carbon-free production on-target
- For the quarter, 60% carbon-free generation as a percentage of load
- On a rolling 12-month basis, 70% 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 % Q4 FY23 Avg
Sand Hill Combined Cycle	95	100
Fayette Power Project	97	100
South Texas Project	100	100

Power Plants Performed

- 100% commercial availability – Not easy
- Peaker Units = 1,049 starts (June - Sept.)
  - Sand Hill = 100% start success
  - Decker = 95% start success

Record Heat

- Record heat = record generation
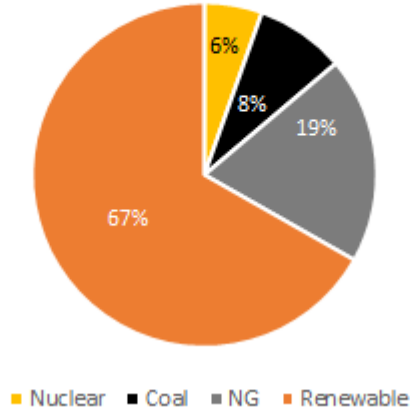- Over 3,000 MW peak demand for first time

Summer Preparation

- Increased staffing on weekends
- Increased staffing after hours when tight grid conditions were expected
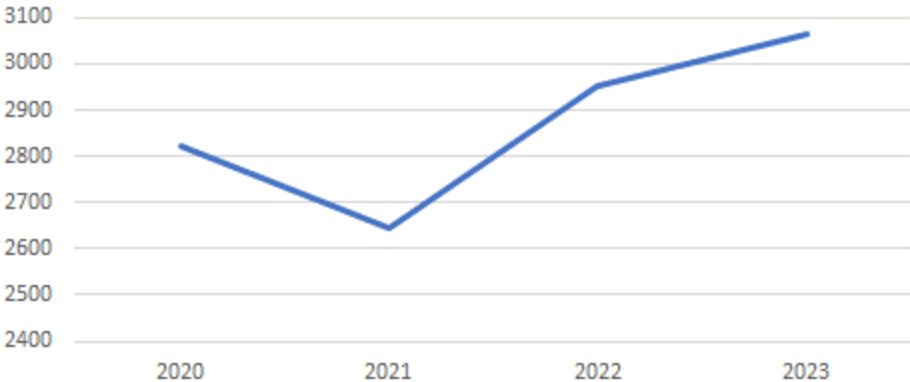
Kudos to all power plant employees

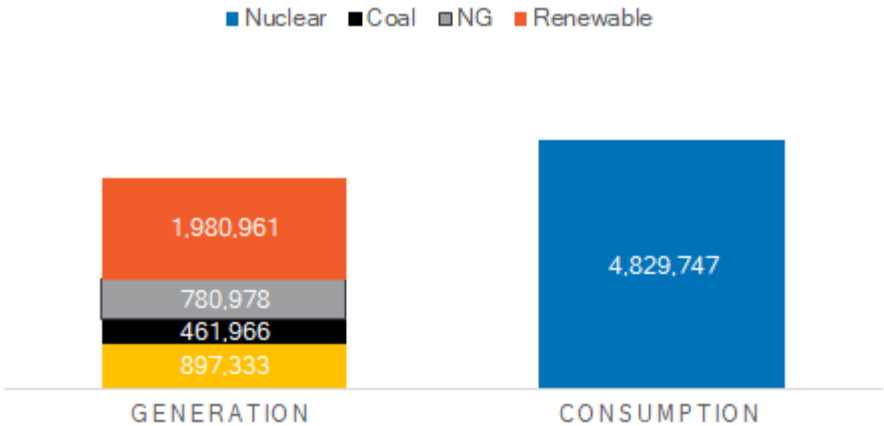# Net Generation and Load Analysis FY2023 Q4

Power Generation Cost by Fuel Type

- Nuclear 6%
- Coal 8%
- NG 19%
- Renewable 67%

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

CONSUMPTION VS. GENERATION (MWH)

Legend: ■ Nuclear ■ Coal ■ NG ■ Renewable

GENERATION:
- Renewable 1,980,961
- NG 780,978
- Coal 461,966
- Nuclear 897,333

CONSUMPTION: 4,829,747

Historical FY23 Q4 System Peak Demand (MW)

Years: 2020, 2021, 2022, 2023

POWER GENERATION AS PERCENT OF CONSUMPTION

- Renewable 41%
- Nuclear 19%
- Other 40%
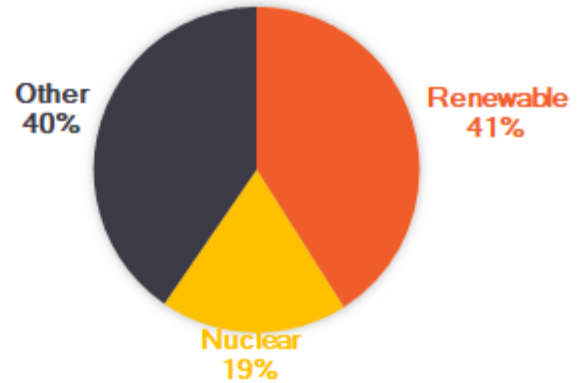
System Reliability

CAIDI = Customer Average Interruption Duration Index
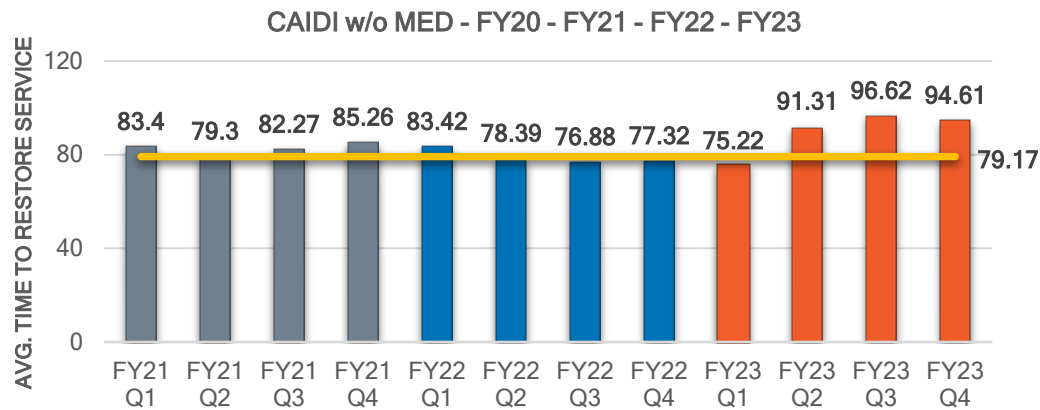 *Average time to restore service*

SAIDI = System Average Interruption Duration Index
  Total duration of interruptions for the average customer, during a period of time
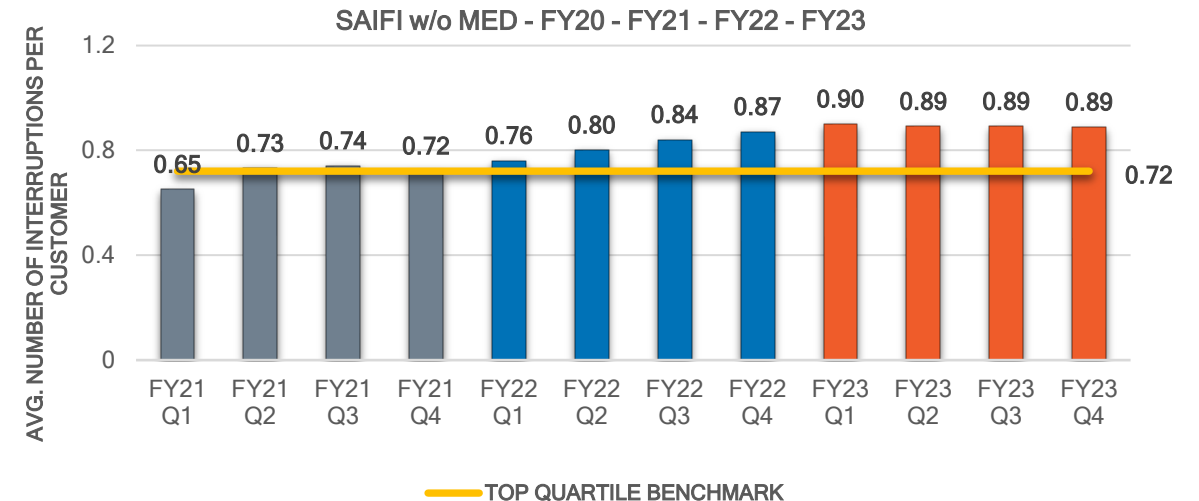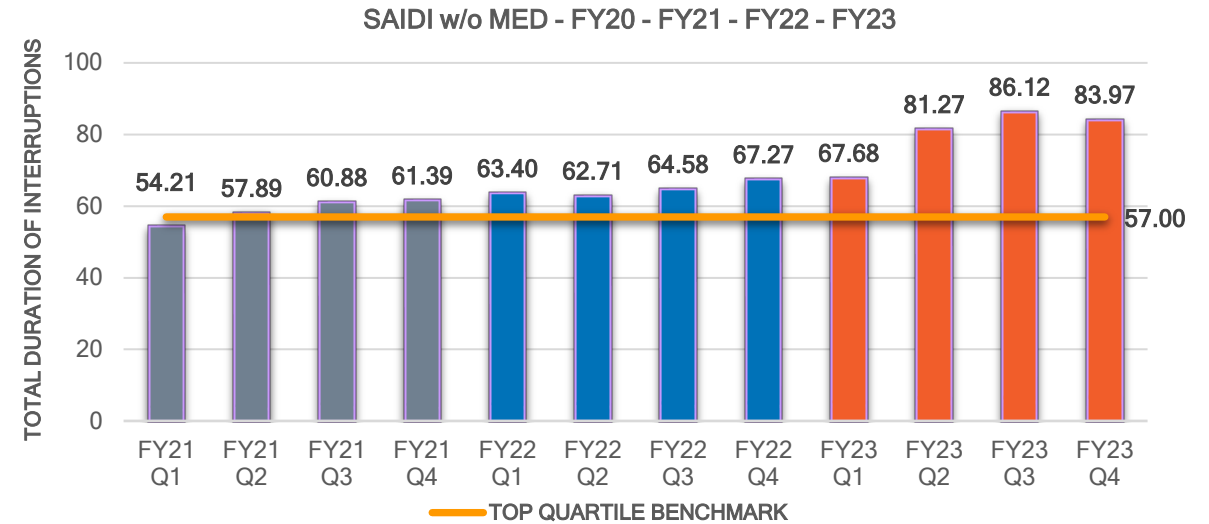
SAIFI = System Average Interruption Frequency Index
  How often the average customer experiences a sustain interruption, over a period of time

MED = Major Event Days

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

TOTAL DURATION OF INTERRUPTIONS

Quarter	Value
FY21 Q1	54.21
FY21 Q2	57.89
FY21 Q3	60.88
FY21 Q4	61.39
FY22 Q1	63.40
FY22 Q2	62.71
FY22 Q3	64.58
FY22 Q4	67.27
FY23 Q1	67.68
FY23 Q2	81.27
FY23 Q3	86.12
FY23 Q4	83.97

TOP QUARTILE BENCHMARK = 57.00

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

AVG. TIME TO RESTORE SERVICE

Quarter	Value
FY21 Q1	83.4
FY21 Q2	79.3
FY21 Q3	82.27
FY21 Q4	85.26
FY22 Q1	83.42
FY22 Q2	78.39
FY22 Q3	76.88
FY22 Q4	77.32
FY23 Q1	75.22
FY23 Q2	91.31
FY23 Q3	96.62
FY23 Q4	94.61

TOP QUARTILE BENCHMARK = 79.17

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

AVG. NUMBER OF INTERRUPTIONS PER CUSTOMER

Quarter	Value
FY21 Q1	0.65
FY21 Q2	0.73
FY21 Q3	0.74
FY21 Q4	0.72
FY22 Q1	0.76
FY22 Q2	0.80
FY22 Q3	0.84
FY22 Q4	0.87
FY23 Q1	0.90
FY23 Q2	0.89
FY23 Q3	0.89
FY23 Q4	0.89

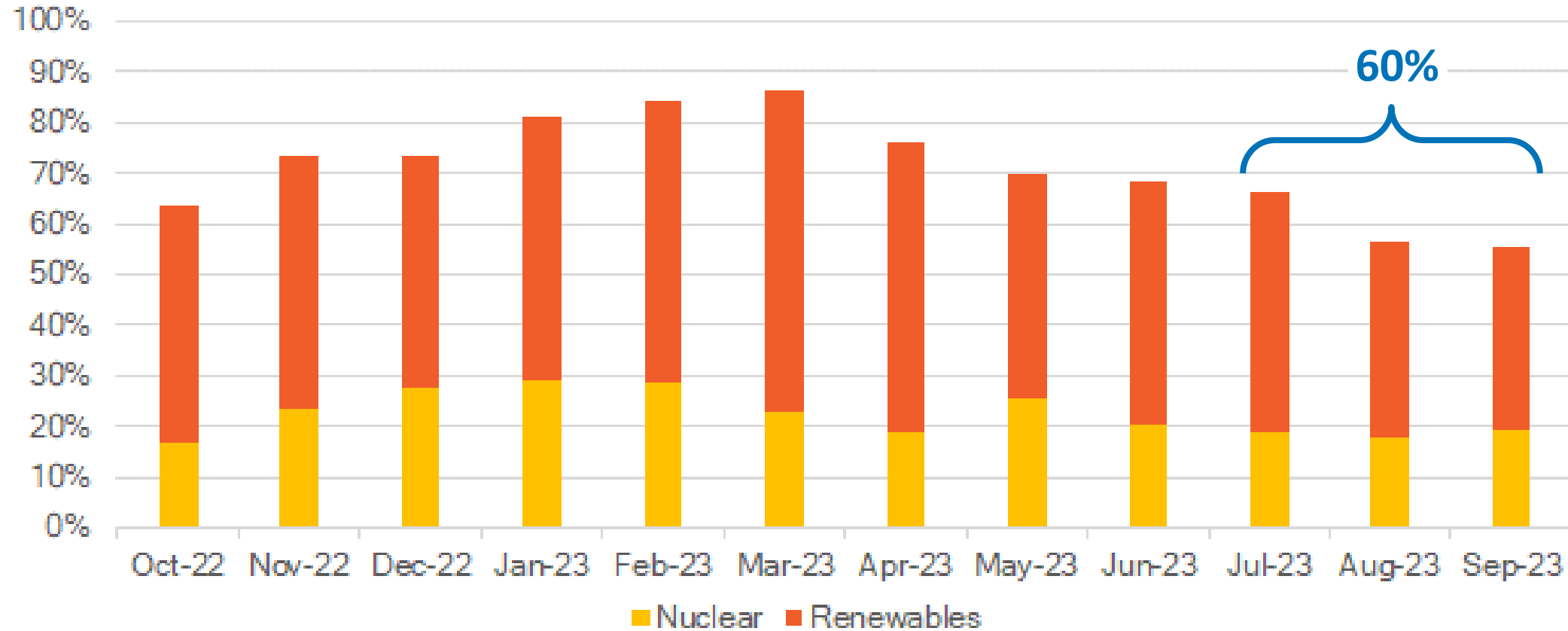TOP QUARTILE BENCHMARK = 0.72

Austin Energy Operations Update
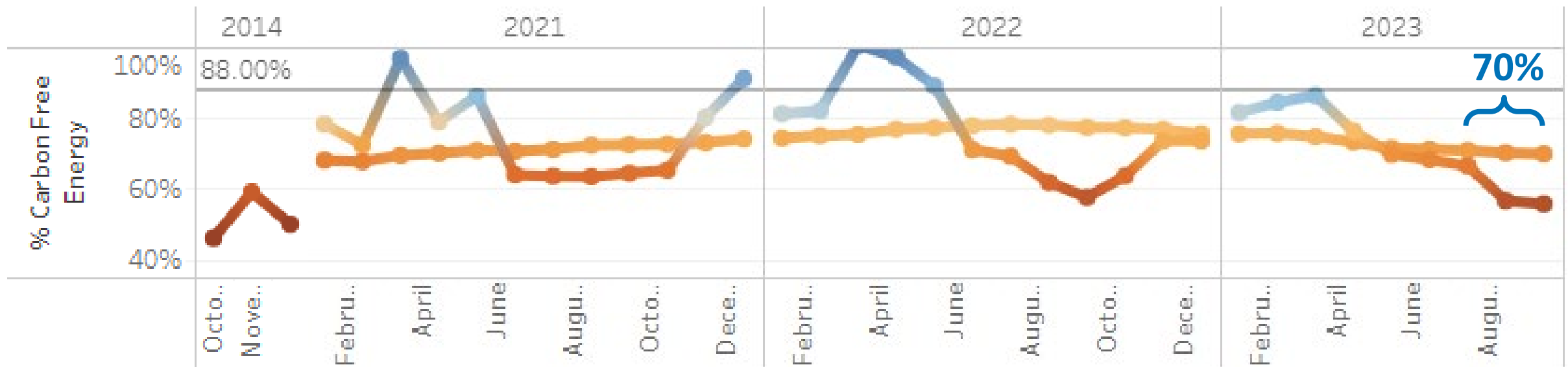## Environmental Performance

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

Grid Resilience Strategic Goal

Grid Resilience Initiatives

Improve Distribution System Reliability

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

- TDEM Building Resilient Infrastructure and Communities (BRIC) award – Overhead Hardening Study
- Distribution Undergrounding Feasibility Study – Vendor evaluation underway

Transmission System of the Future

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

- Transmission System Assessment completed in June 2023
- Project implementation underway – Iterative annual assessments planned
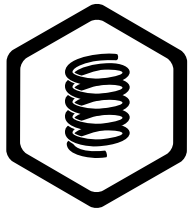
Resiliency as a Service (RaaS) Program

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.

- Full-time RaaS Program Manager on board
- Received and processed four Feasibility Studies, a first step for interested customers
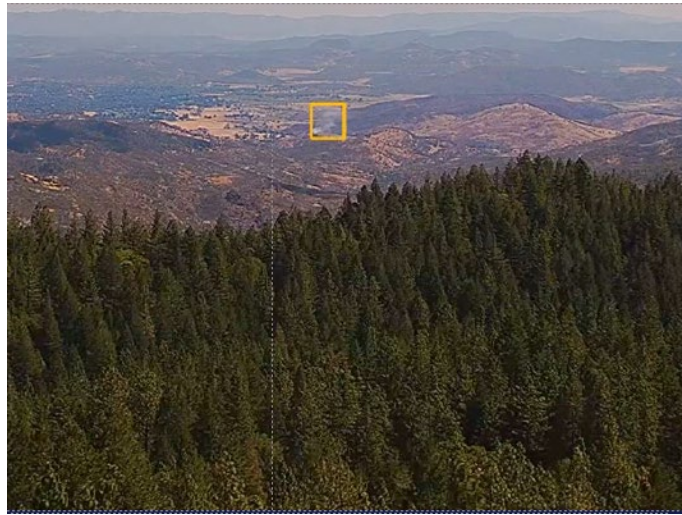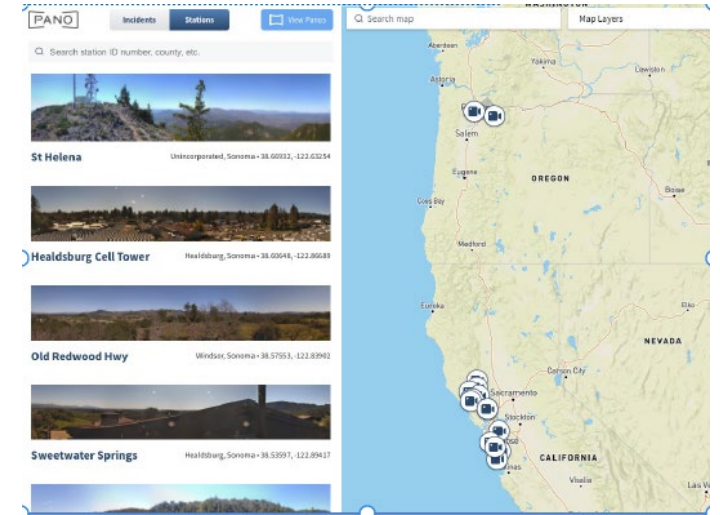
Pano AI Wildfire Detection Services
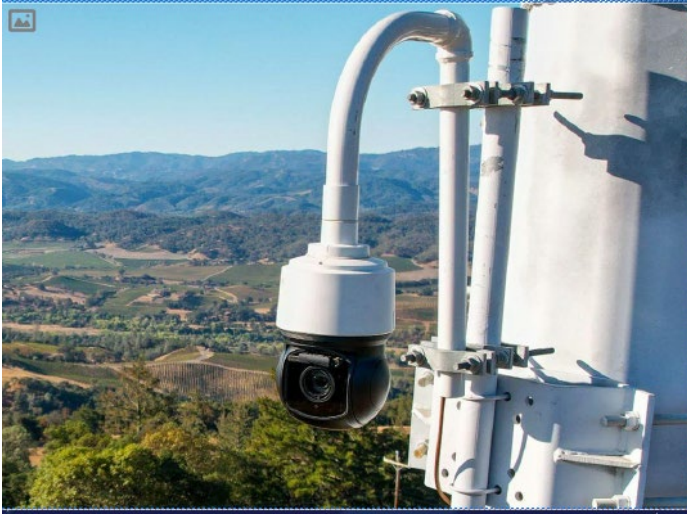
Cutting-edge Hardware
provides advanced imagery via two rotating cameras, capturing ultra-high-definition & 360-degree panorama images every minute

AI Detection + Human Intelligence
monitor 24/7 for the first indications of smoke across the service area

Easy-to-use Interface
unifies advanced features into a single platform – including asset proximity, zoom-to-investigate, incident triangulation and alerts

Site Audits and Selection → **Views are Approved** → **1st Site Live Summer 2024**

Customer Driven.
Community Focused.^{SM}