

Meeting Logistics and Facility & Safety Awareness

MEETING LOGISTICS

Thank you for attending tonight's board meeting.

EWEB management and subject matter experts are present in the room and virtually. The meeting is being live streamed and recorded.

Public testimony is welcome, sign-up forms are available at the back of the room.

Give completed forms to Security staff.

When your name is called to provide testimony, please speak loudly and clearly so everyone can hear you.

FACILITY & SAFETY AWARENESS

Visitor access is limited to the board meeting room and restrooms.

Restrooms are located on the 1st floor; exit through the interior door at the back of the room and a Security Officer will direct you to the location.

In the event of an emergency, (such as a fire or security incident) follow all instructions given by staff.

If evacuation is required, please calmly proceed to the nearest safe exit as identified and directed by staff and evacuate away from the building to the farthest points in the parking lots to allow clear and immediate access for first responders.

PUBLIC INPUT

INSTRUCTIONS



Complete Request to Speak form.

- In person: Hand form to Security Officer or staff seated along the windows.
- Callers: Submit online form any time before 2:00 pm meeting day (eweb.org/x2936)



Board President announces amount of time each speaker will be offered to present their testimony.

When your name is called, in person speakers may stand or sit at the speaker table.



Callers don't forget to press *6 to unmute.

Clearly state your name, and optionally your address or ward. Share your views and opinions respectfully.



3 MIN

Keep track of time. In-person speakers can watch the timer at the front of room; all speakers can listen for an audio notification when time has lapsed.

CODE OF CONDUCT

The Board values relevant community input from diverse perspectives and requests that all persons share their views and opinions in a manner that is productive, respectful, and not disruptive. Speech of any kind that is disruptive will not be tolerated. Anyone who fails to meet this standard may be muted or removed from the meeting.

WHAT TO EXPECT

- After testimony is heard, each commissioner will have an opportunity to speak if they choose, although by policy, the Board does not engage in a back-and-forth dialog.
- Commissioners do not ordinarily provide responses to public testimony during the meeting; failure to comment does not indicate agreement or disagreement. Any individual commissioner's response is an expression of their own views, not necessarily the collective position of the entire Board.
- The Board may direct staff to respond to specific questions or comments posed by the public; those responses which are for the public good may be posted on EWEB's website.

EWEB Board Meeting

April 1, 2025

Call to Order and Agenda Check



Eugene Water & Electric Board

Rely on us.

Items from Board Members & General Manager

Correspondence

<u>#.</u>	<u>Item and key points</u>	<u>Authors</u>	<u>Objective</u>
1.	Addressing Customer Concerns Re: Higher Bills <ul style="list-style-type: none">Confluence of factors driving customer bills to reach unusually high levels, more extreme for a small % of customers in EWEB's McKenzie Valley territory.	Frank Lawson	Information
2.	Annual Power Market, Budget Hedging, and Generation Update <ul style="list-style-type: none">Annual update of wholesale power markets and a generation resource outlook	Megan Capper, Jonathan Hart, Emily Tozier	Information
3.	Annual Report on Power Trading Compliance (Board Policy SD8) <ul style="list-style-type: none">Report covering trading and contracting compliance for calendar year 2024	Deborah Hart, Aaron Balmer, Timothy Poublon, Amanda Lane	Information
4.	EWEB's Collection Process and Late Fees <ul style="list-style-type: none">EWEB's collection timeline including bill due dates and late fees.	Deborah Hart, Julie McGaughey, Danielle Wright	Information
5.	Pentachlorophenol Plume Report <ul style="list-style-type: none">Update concerning potential drinking water threats associated with groundwater pentachlorophenol plume adjacent to the McKenzie River.	Karen Kelley, Mike Masters, Susan Fricke	Information
6.	State Legislative Update (Board Policy GP13 & Resolution No. 2420) <ul style="list-style-type: none">Update on current bills before Oregon Legislature and EWEB's position	Jason Heuser	Information

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Jacobs dba CH2M Hill Engineers, Inc.

*For approval of additional funds for
Engineering Services at Carmen-Smith Upstream Fish Passage Project.*

Approval of Consent Calendar A

Approval of Consent Calendar B

Items removed from Consent Calendar

City of Eugene Liaison Update

John Barofsky, Board President

Mindy Schlossberg, Board Vice-President

City of Eugene Fire Fee / EWEB Billing & Collection

EWEB Board of Commissioners

2025 Water System Master Plan

Update and Look Ahead




Eugene Water & Electric Board

Rely on us.

Purpose of Master Planning

- Regulatory - Comply with Oregon Administrative Rules (OARs)
- Evaluate water system needs for a 20-year period:
 - Identify water quality and service goals
 - Estimate water demand projections
 - Evaluate water system needs to correct deficiencies
 - Develop seismic risk assessment and mitigation (Resiliency) plan (*new requirement*)
 - Develop Capital improvement plan (CIP)



Document Revision Date: 3/2/2022

Oregon Health Authority, Drinking Water Services
Plan Review requirements for Master Plans at existing or new public water systems.

The requirements apply to master plans for existing and new Community water systems with 300 or more connections. Other water systems (Community with less than 300 connections), Non-Transient Non-Community, Transient Non-Community, and Oregon Very Small water systems, which are defined on page 5, may also prepare a master plan and submit the document for review. Two sets of information are provided below, 'short' and 'long' instructions. The short instructions are abbreviated. If you are unfamiliar with the plan review process, it is strongly recommended you read the long instructions.

For assistance, call (971) 673-0405, fax (971) 673-0694, or email dws.planreview@state.or.us.

SHORT INSTRUCTIONS:

The following shall be submitted to OHA-DWS for review and approval:

1. One digital copy of a final master plan prepared by an Oregon Professional Engineer. The document must be electronically stamped by the engineer.
2. The appropriate plan review fee. For a current fee schedule, check <http://healthoregon.org/pwsplanreview>. Note that the fee payment can be made online at that link or a check can be mailed to OHA-DWS.

The fee check should be made payable to: 'OHA Drinking Water'.

Specific Requirements

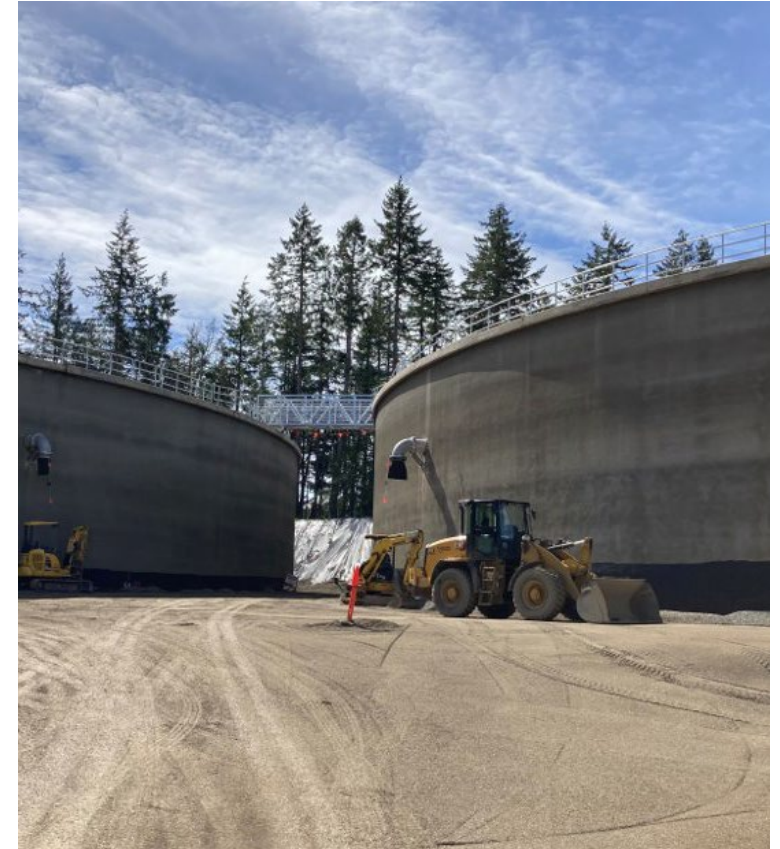
1. The master plan shall evaluate the needs to the water system for at least a 20-year period and shall include at a minimum all of the required elements outlined in Oregon Administrative Rule [\(OAR\) 333-061-0060 \(5\)](#).
2. Based on the submitted information, OHA-DWS may send a letter to the water system indicating that OHA-DWS concurs with the master plan. If the master plan is missing required elements outlined above, then OHA-DWS will notify the water system, or engineer, as appropriate. The water system, or engineer, will need to submit a revised document with the required missing elements in order for OHA-DWS to be able to concur with the master plan.

END OF SHORT INSTRUCTIONS

Page | 1

Benefits of Planning

- Proactively address emerging challenges and risks
- Develop a reliable and well thought out CIP
- Produce a solid budget and financial look ahead
- Master Plan Interval
 - **Recommended: Every 10 years**
 - Required: Every 20 years



New water storage tanks near E. 40th

Progress Since 2015 Master Plan

Chris Irvin, P.E., Water Engineering Supervisor

2015 Master Plan Focus Areas

- Early adoption of recommendations in Oregon Resilience Plan
- Harden “resilient spine” of water infrastructure
- Focus on distributing base level storage
- General repair and replacement



Simplified resilient spine – locations approximate

2015 Master Plan Progress

TREATMENT

Hayden Bridge

- A** HB: Splitter Box Replacement and Drain Pipeline
- A** HB: Filter S1-S6 Upgrade
- A** HB: Disinfection System Replacement
- A** HB: Seismic Upgrades Phase 2
- A** HB: Standby Power Improvements
- A** HB: Powder Activated Carbon (PAC) System

Willamette Water Treatment Plant

- B** Joint Permit Application submitted
- B** Design contract expected this summer

✓ Completed ➡ In progress



Simplified resilient spine – locations approximate

2015 Master Plan Progress

BASE-LEVEL STORAGE

- C** New 15 MG storage at E. 40th
- D** Rebuilding 15 MG storage at College Hill
- E** Plan for Hawkins Hill and Santa Clara Replacement

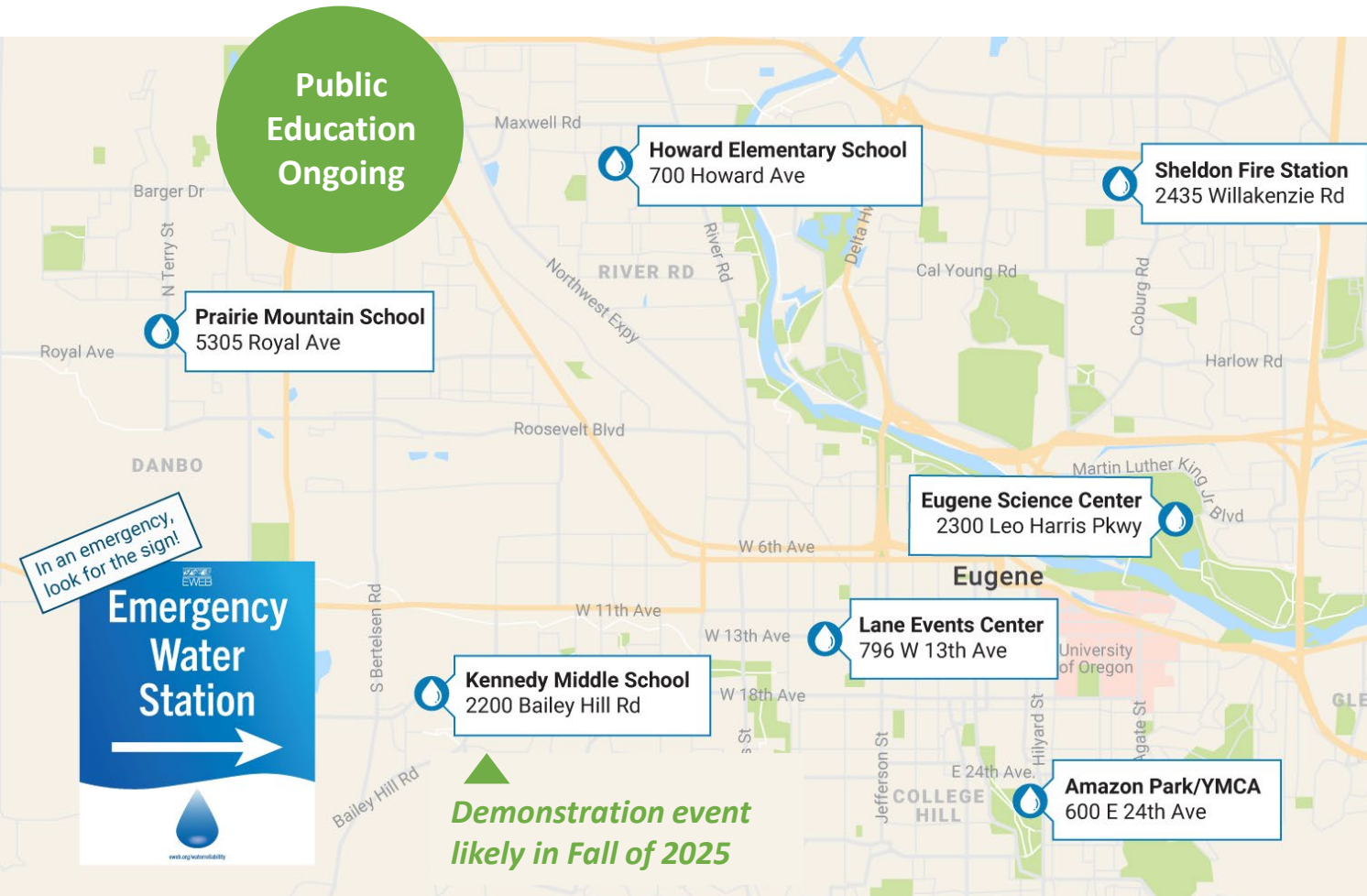
TRANSMISSION

- 1** Hilyard Transmission Main
- 2** 23rd Ave Transmission Main
- 3** Rebuild Replace Knickerbocker Bridge/Pipeline
- 4** 23rd Street Transmission Main Alder to Emerald
- 5** Day Island 30" Transmission Main
- 6** 42" Riverfront Connector



Simplified resilient spine – locations approximate

Board Directive: Emergency Water Stations



STATION LOCATIONS

- ✓ Prairie Mountain School
5305 Royal Ave.
- ✓ Howard Elementary School
700 Howard Ave.
- ✓ Eugene Science Center
2300 Leo Harris Parkway
- ✓ Lane Events Center/Fairgrounds
796 W 13th Ave.
- ✓ Sheldon Community Center
2445 Willakenzie Rd.
- ✓ Amazon Park/YMCA
600 E 24th Ave.
- ✓ Kennedy Middle School
2200 Bailey Hill Rd.

Rehab and Replacement: Pipes & Pumps



PIPELINES

Water Main

- ✓ Average annual replacement rate:
Approximately 3 miles per year

PUMP STATIONS

Upgrades

- ✓ Santa Clara 607
- ✓ Crest 800
- ✓ Shasta 800
- ✓ Willamette 800
- ✓ Laurel Hill 850
- ✓ Crest 975
- ✓ Dillard 975
- ✓ Willamette 1150

New/Replacement

- ✓ Crenshaw
- ✓ Highland

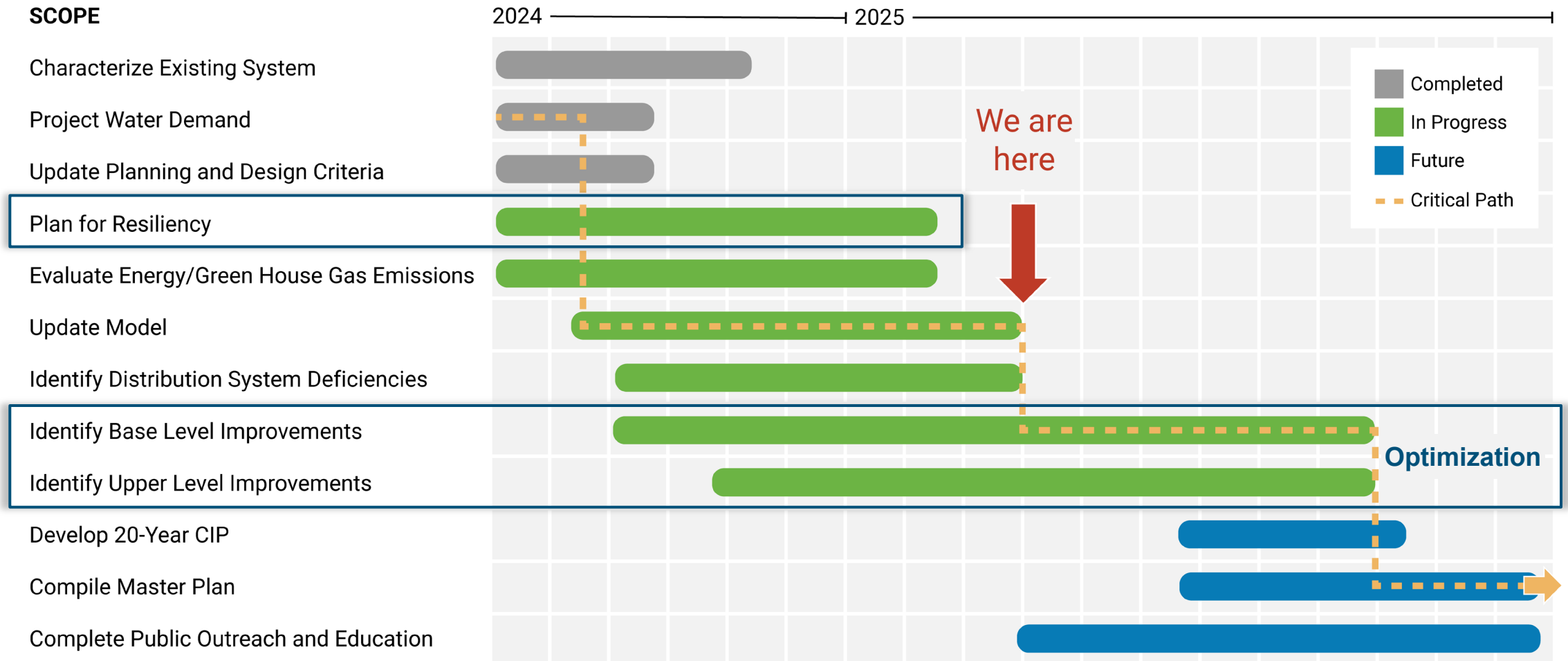
Retired

- ✓ Fairmount 850
- ✓ Crest 1325

Preview of 2025 Plan

Nathan Endicott, P.E., Staff Engineer

Overview of Planning Process



Regulatory - Water Demand Projections

Demand projection process:

1. ANALYZE

historic water use and develop customer connection growth rates

2. ESTIMATE

demands (low, planning, and high scenarios) based on future conditions

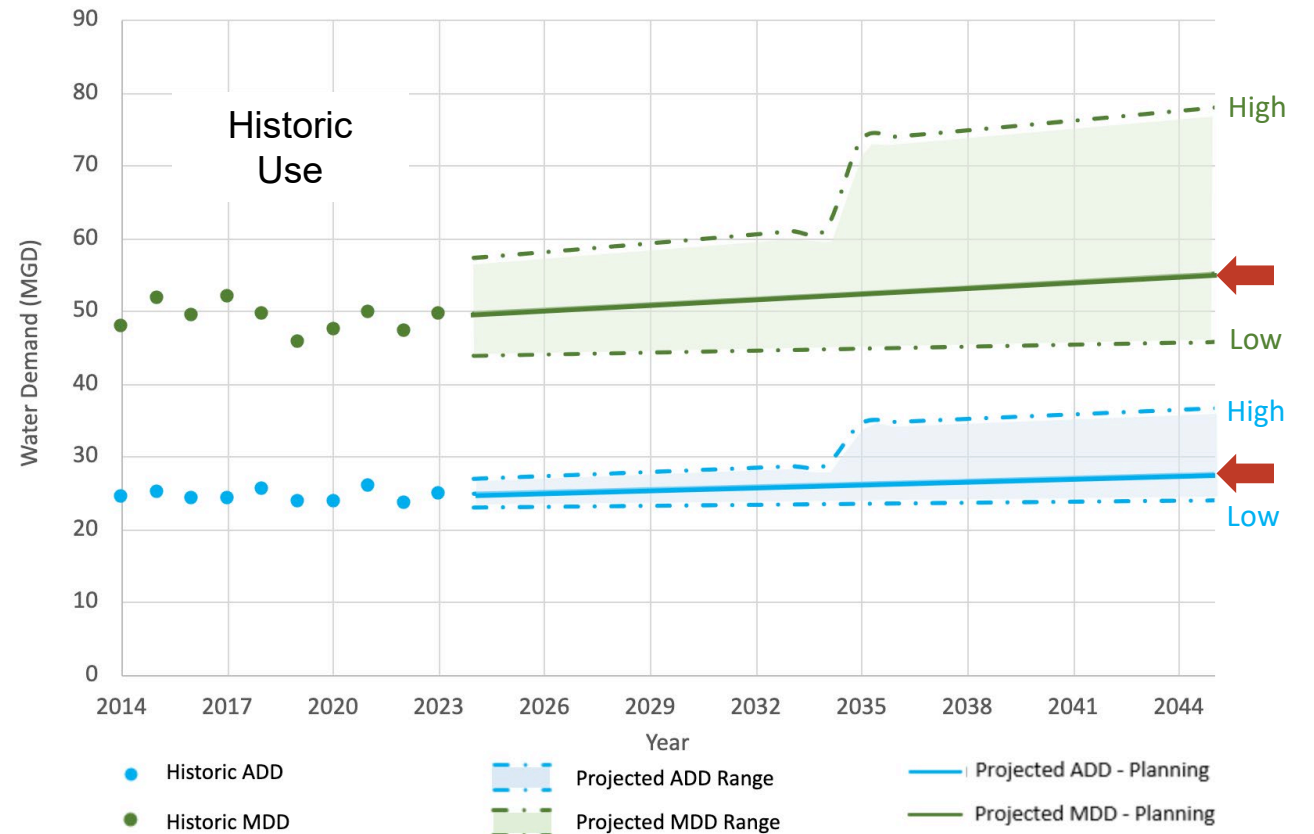
3. DETERMINE

planning scenario to analyze system needs

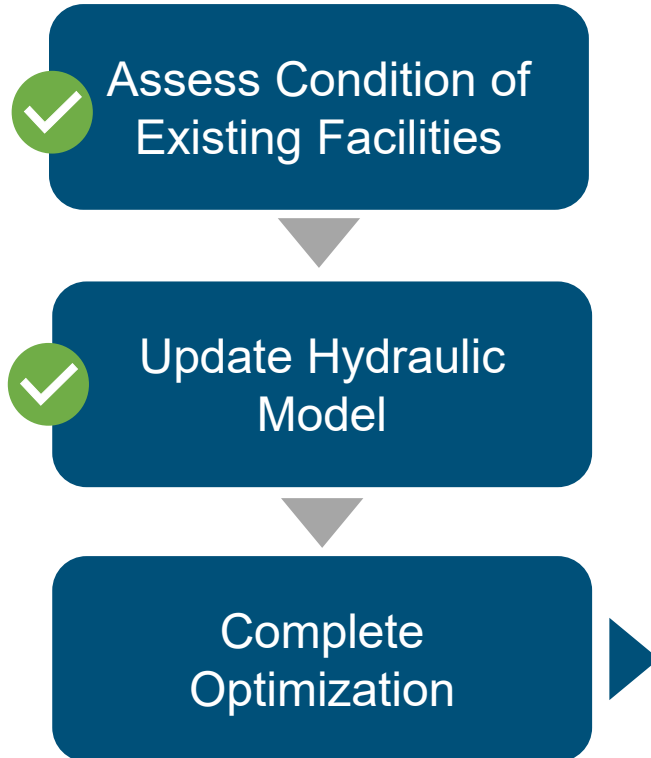


Cost Saving Benefit: City-provided population and employment growth data; historically, a contracted service with LCOG.

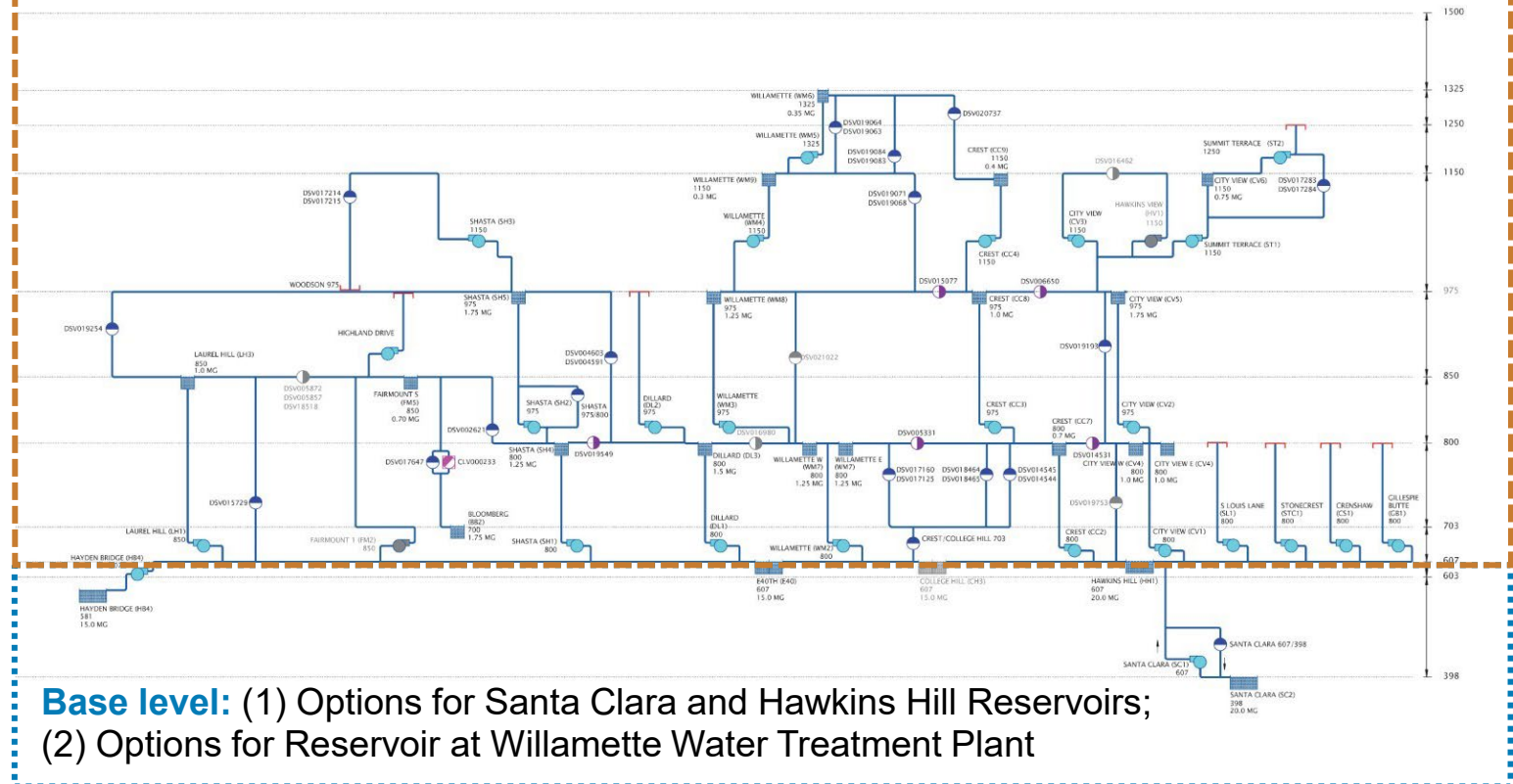
Demand Projections



Focus Area - Optimization



Upper level: (1) Improve water quality and hydraulic performance; (2) Reduce life-cycle cost and greenhouse gas; (3) Increase operational efficiency



Resiliency Plan Requirements

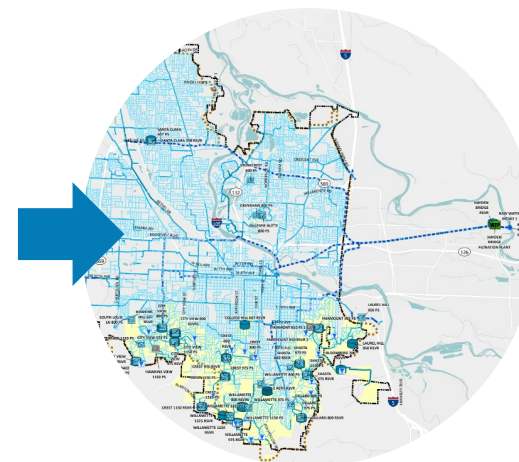
New OHA Requirement

- **Seismic Risk Assessment:** Identify critical facilities and supply points
- **Mitigation Plan:** Minimize water loss to critical facilities through CIP
- 50-year planning horizon

What EWEB
is doing to
control costs
and maximize
value for our
community

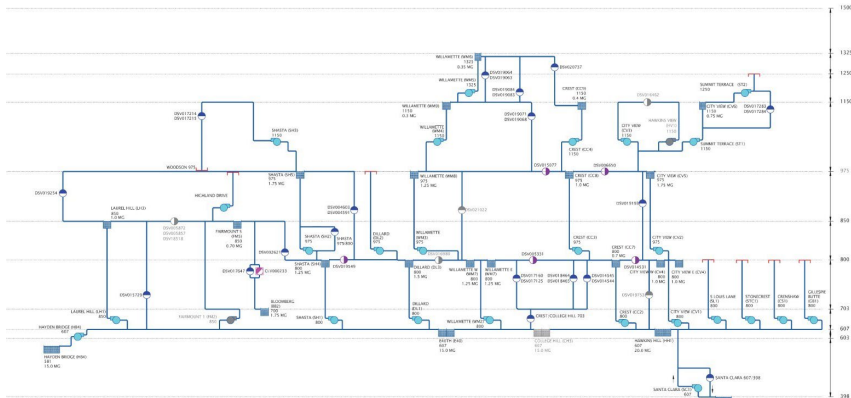


*Working
directly with
other
agencies to
identify
highest-value
supply points*

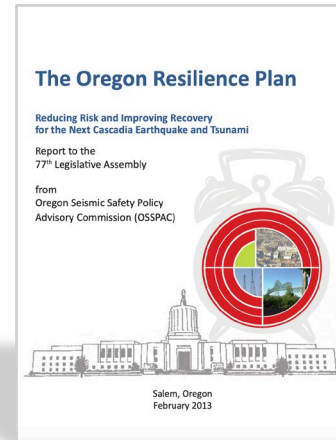


*Prioritizing
improvements
to deliver
strategic and
achievable
progress for
our community*

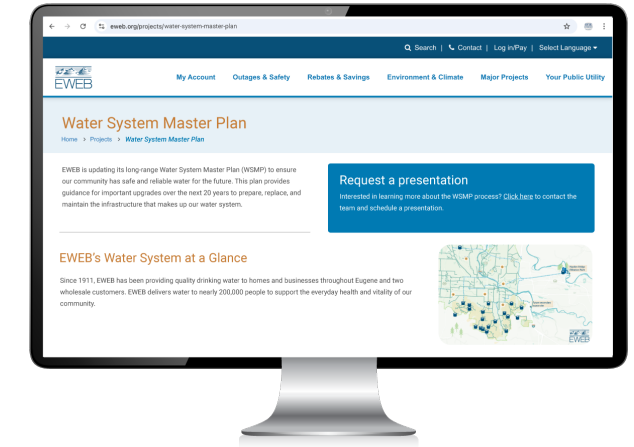
Next Steps



Complete optimization to pinpoint the most cost-effective improvements for base- and upper-level systems.



Finalize required 50-Year Resiliency Plan.



Launch website and conduct presentations for neighborhood associations.

**Develop CIP
Compile Master Plan**

Questions?



Eugene Water & Electric Board

Rely on us.

EWEB Climate Guidebook v3.0 – 2024 data

Regular Board Meeting: April 1, 2025

Kelly Hoell, Climate Policy Analyst & Advisor



Eugene Water & Electric Board

Rely on us.



Happy Earth Month!

Earth Day April 22

EWEB Values: Safe, Reliable, Affordable, Community/Culture, **Environmental**



Eugene Water & Electric Board

Rely on us.

Agenda

- What is new in v3.0? Biggest stories of 2024...
 - Chapter 1 Public Outreach Plan – Customer Survey Results
 - Chapter 4 Customer Decarbonization – 2024 Customer Programs
 - Chapter 5 Climate Impacts on EWEB – Climate & other natural hazards
 - Chapter 6 Internal Operations – GHG inventory results for 2024
- Next Steps

Thank you!

- Business Continuity
- Communications & Marketing
- Customer Service
- Customer Solutions
- Electric Division
- Energy Division
- Environmental
- Executive Team
- Finance
- Government Relations
- General Managers Office
- Power Planning
- Shared Services
- Source Protection
- Water Division

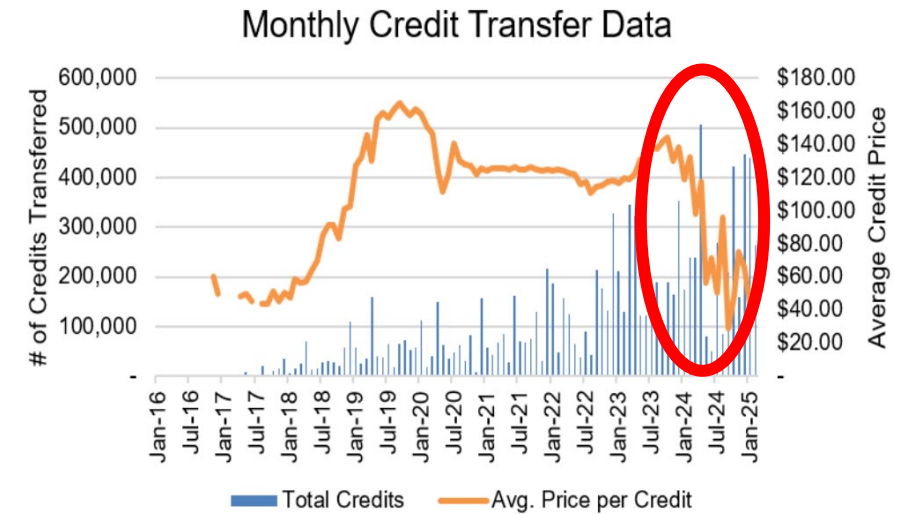
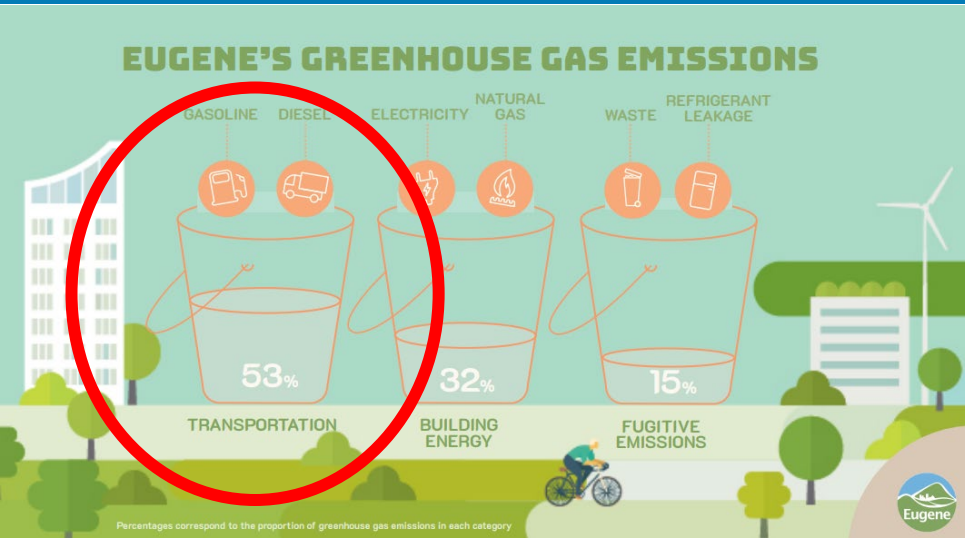
**More than 40 staff from
across the organization
contributed to v3.0!**

Chapter 1: Public Outreach & Customer Survey

- Between 2022 and 2024, customer **satisfaction with EWEB's efforts to reduce GHG emissions increased by 15%.**

	2022	2024
Water service reliability	77%	88%
Drinking water quality	70%	84%
Electric service reliability and outage restoration	68%	79%
Utility Service Average Rating	72%	84%
Communication and outreach with customers	55%	68%
Prompt response to customer questions and needs	61%	67%
Communication Average Rating	58%	67%
Efforts to protect the local watershed (drinking water source)	49%	75%
Efforts to increase resiliency and emergency preparedness	44%	69%
Investments in infrastructure resiliency	-	62%
Efforts to reduce greenhouse gas emissions contributing to climate change	43%	58%
Conservation, Resiliency, and Infrastructure Average Rating	46%	67%
Programs that help customers reduce energy use	44%	55%
Programs that help customers reduce water use	39%	53%
Efforts to control prices and costs	38%	40%
Programs and Cost Assistance Average Rating	41%	50%
Overall Average Rating	53%	65%

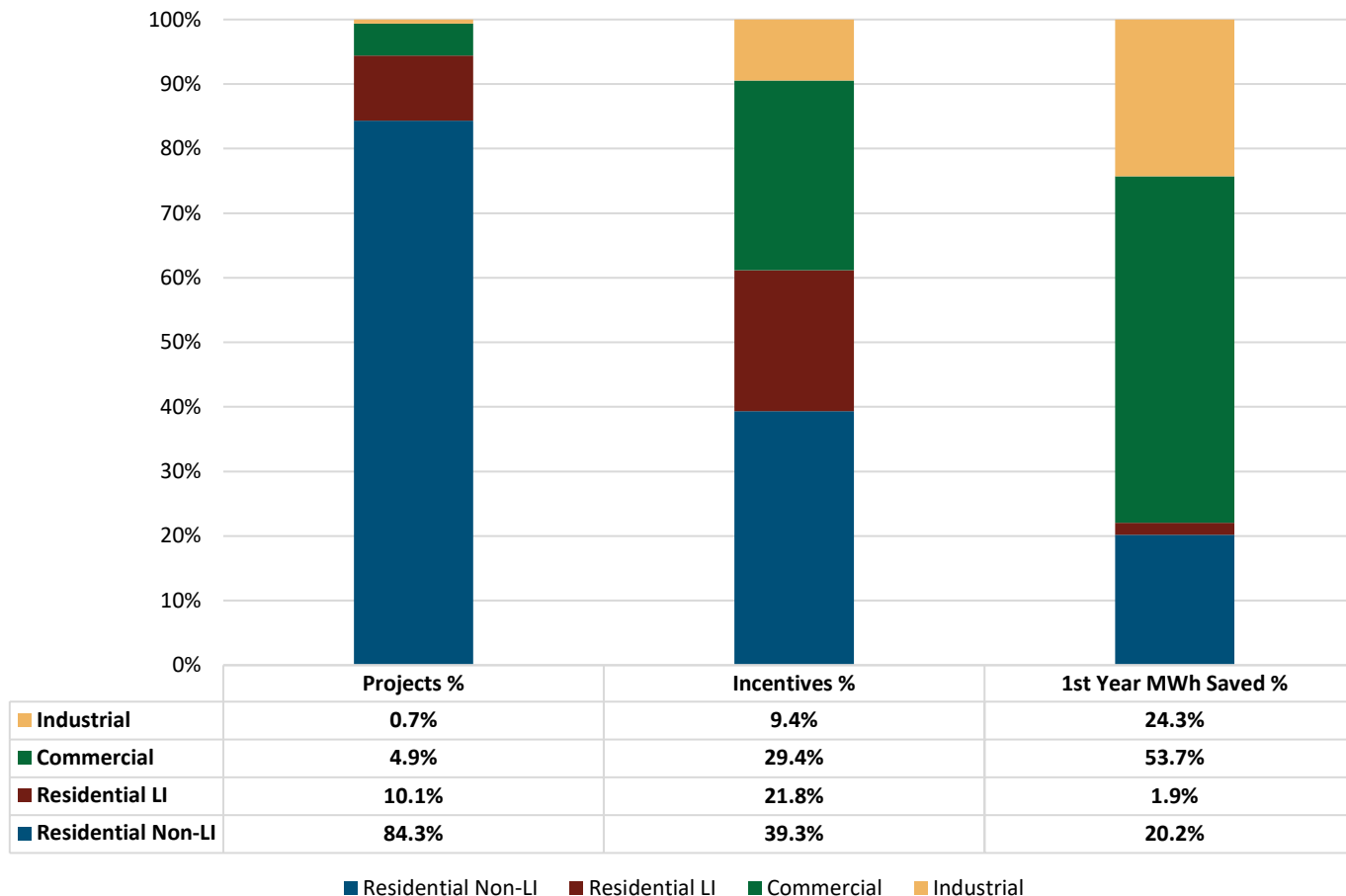
Chapter 4: Transportation Electrification Trends



- More than half of Eugene's community GHG emissions come from **transportation**.
- **35% increase in EVs** in EWEB's service territory between 2023-2024.
- After years of average credit prices over \$120, **Oregon Clean Fuels credit prices drop in 2024.**

Chapter 4: Customer Program Results

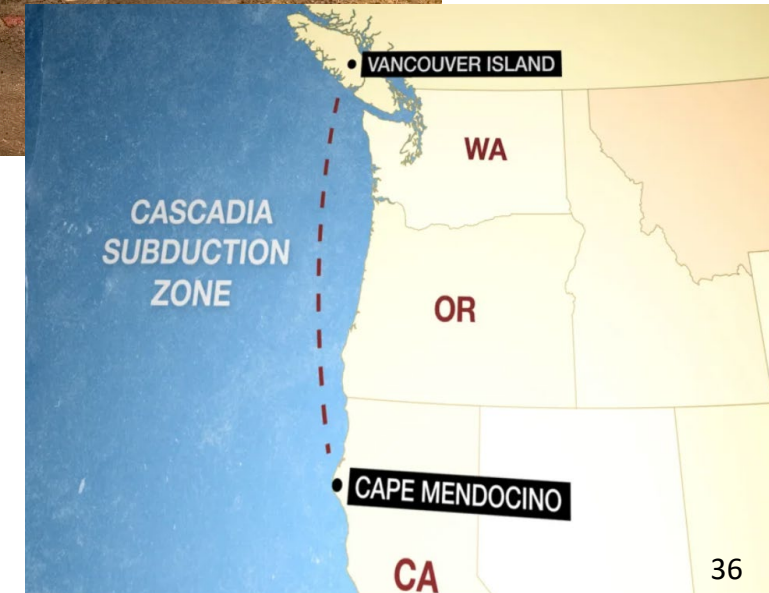
2023-2024 Average of Energy Efficiency Distributions by Sector



- What is the objective?
- Commercial/Industrial: 6% of the projects, 40% of the funding, 78% of the energy (and GHG) savings.
- Residential low-income: 10% of the projects, 22% of the funding, less than 2% of the energy (and GHG) savings.

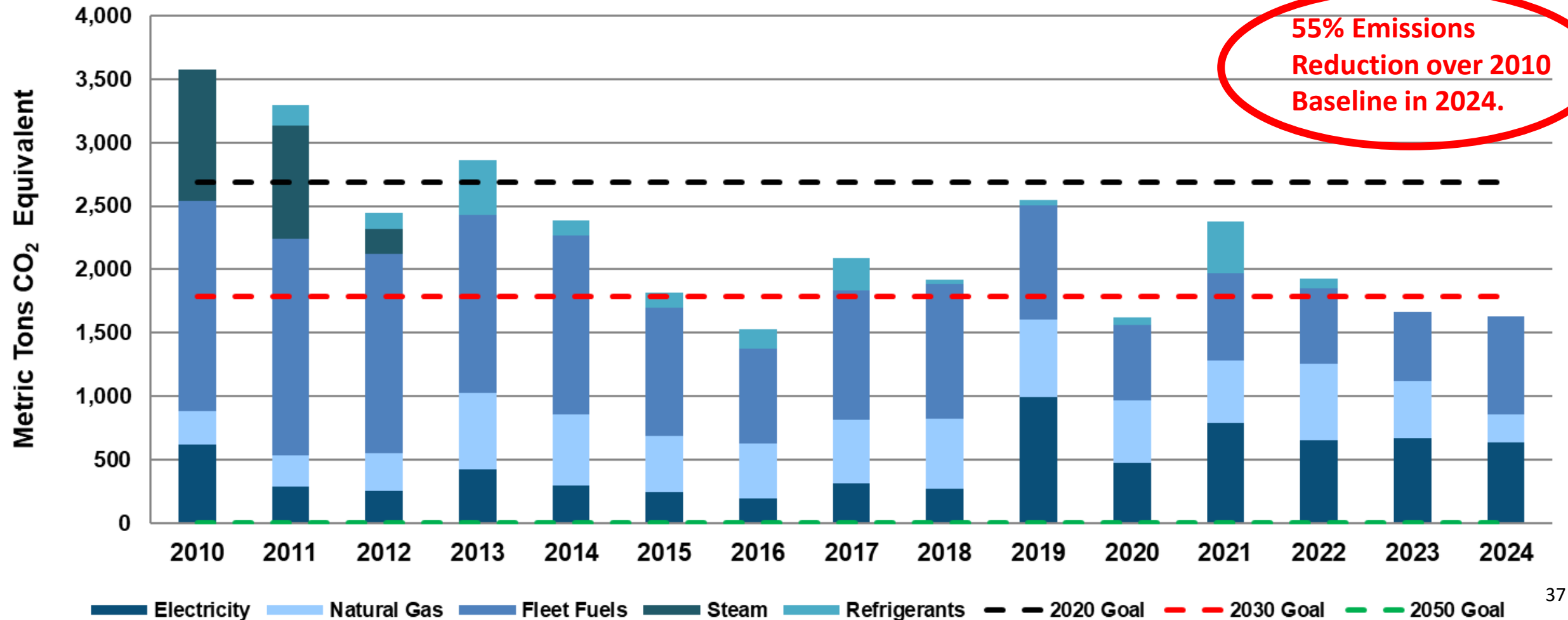
Chapter 5: Natural Hazards & Climate Risks

- Storms
- Wildfire
- Earthquake
- Extreme Heat
- Air Quality
- Flooding/Landslides
- Drought

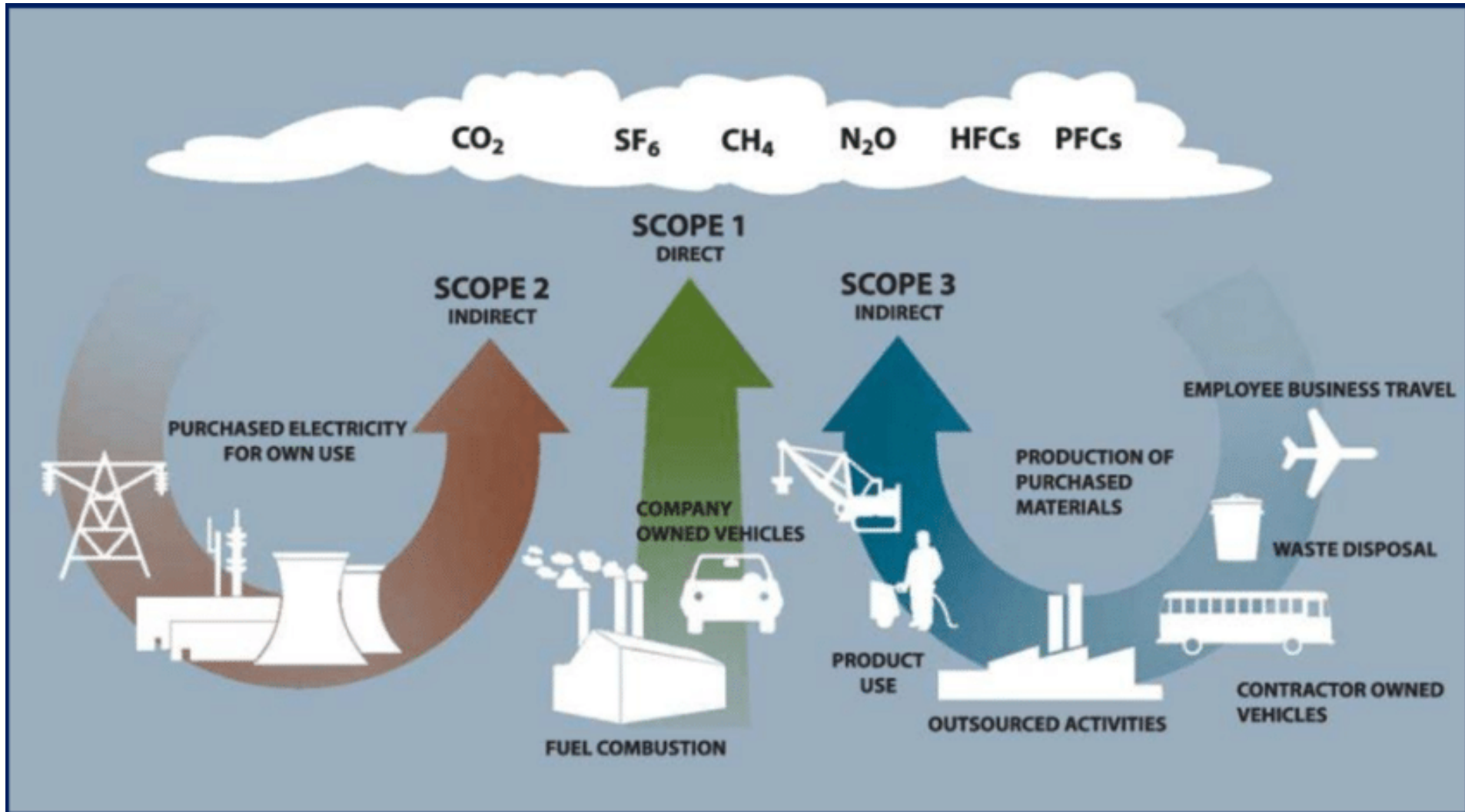


Chapter 6: GHG Inventory Results, 2010-2024

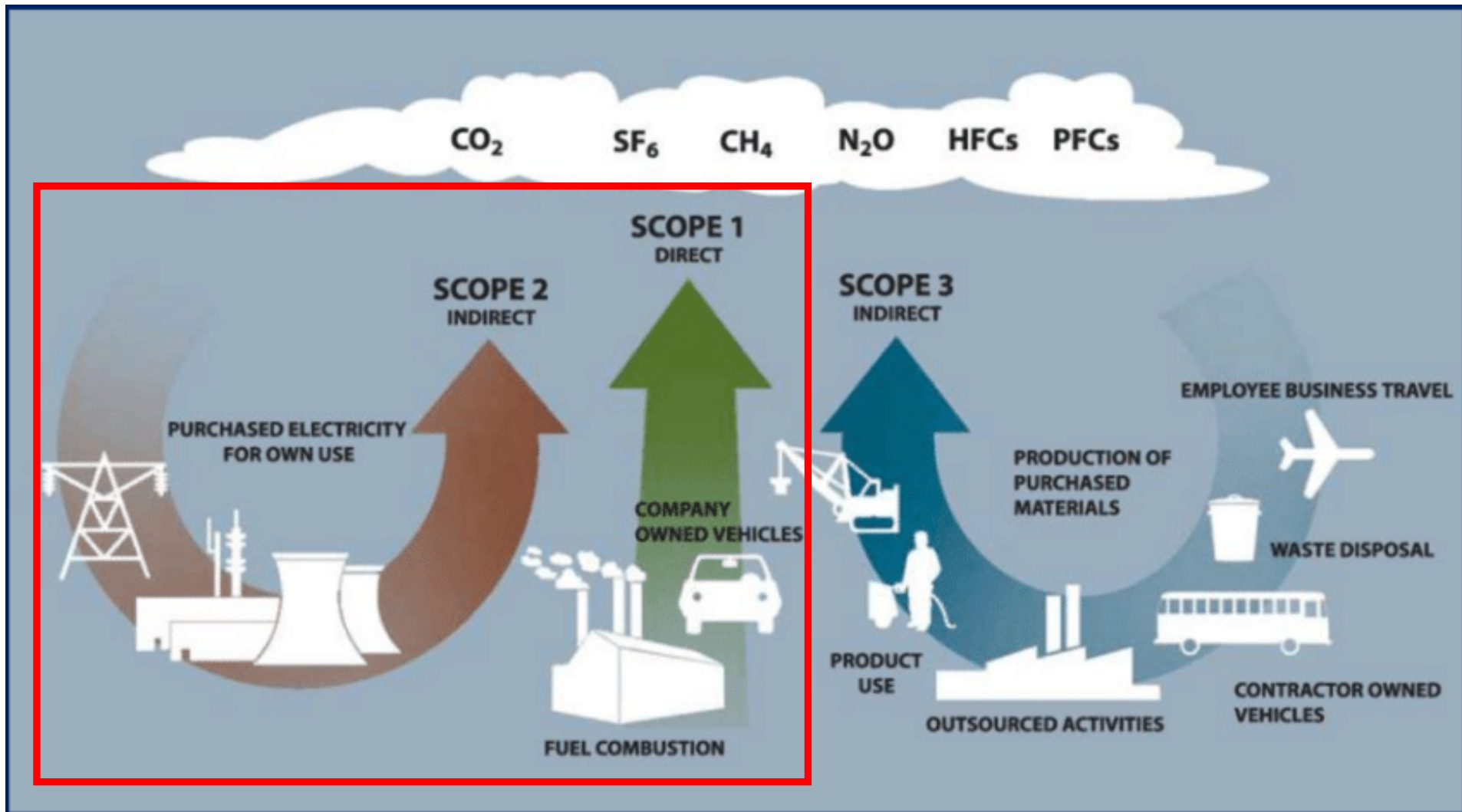
EWEB Operations Market-based Emissions Over Time



GHG Inventory: Three “Scopes” of Emissions

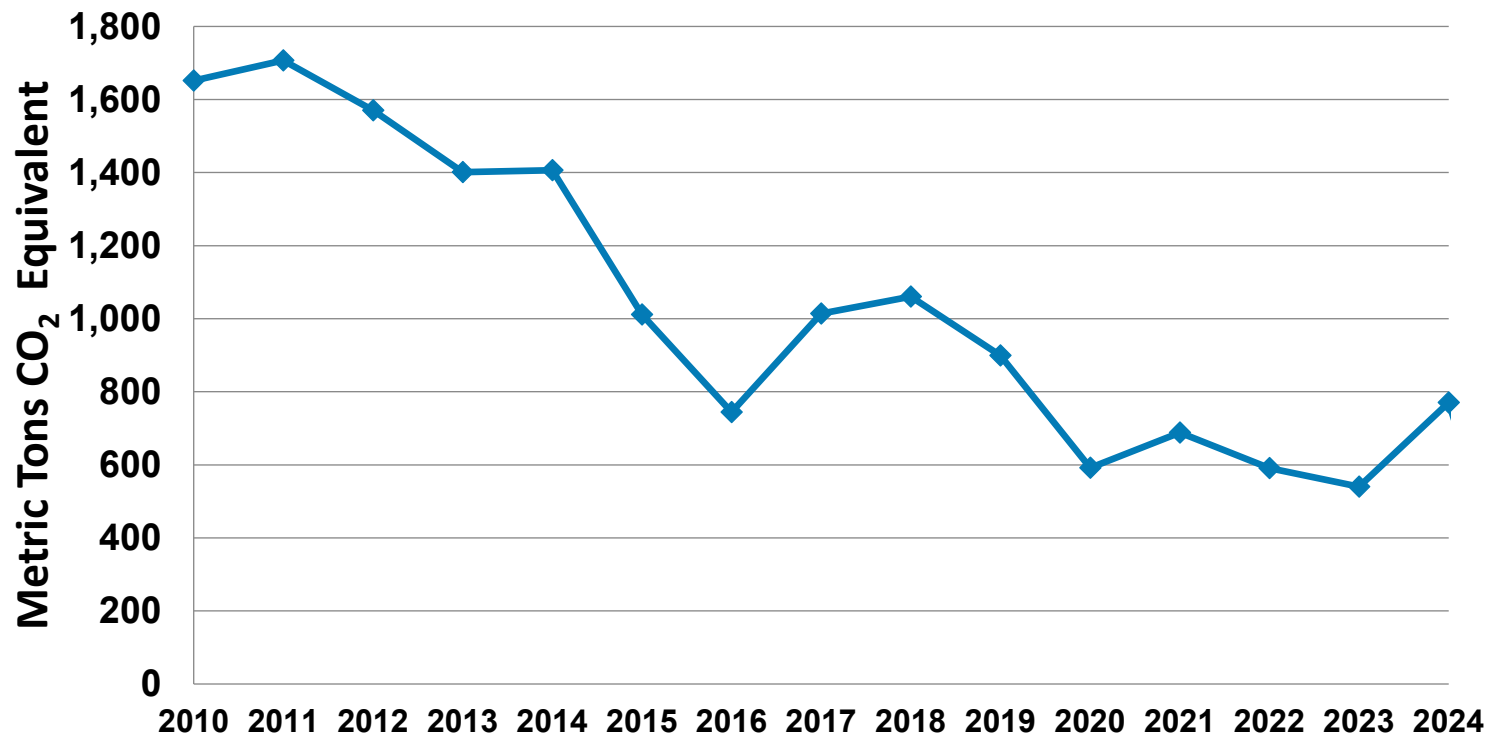


GHG Inventory: Three “Scopes” of Emissions



Scope 1: Owned Fleet Vehicles

EWEB Fleet GHG Emissions, 2010-2024



- 53% emissions reduction since 2010 despite 12% increase in total fuel.
- 58% renewable fuel.
- 43% increase over 2023
- Increase due to changes in ethanol availability.
- Policy changes are making renewable fuels more expensive.

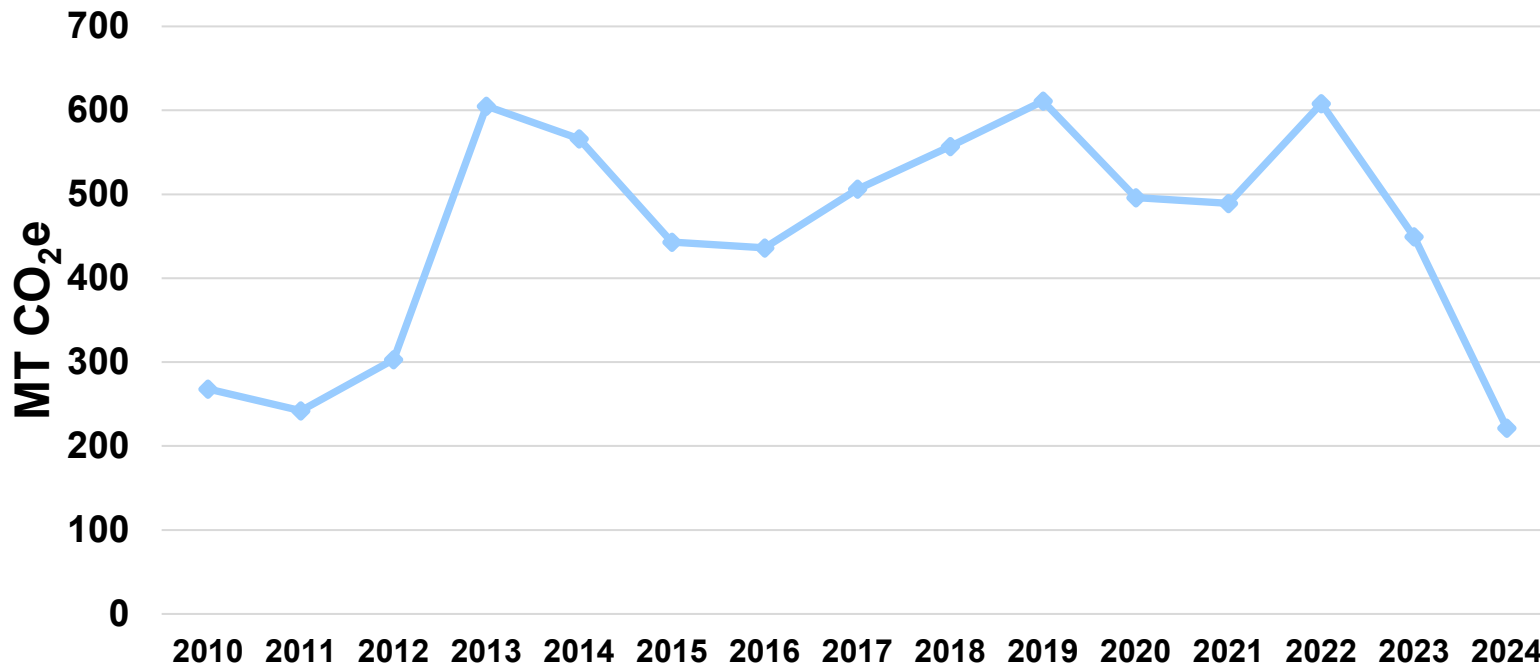
Greater Oregon Fleet Collaborative (GOFC)

We aren't just making EWEB more sustainable, we are helping make our community more sustainable too!



Scope 1: Natural Gas in Owned Buildings

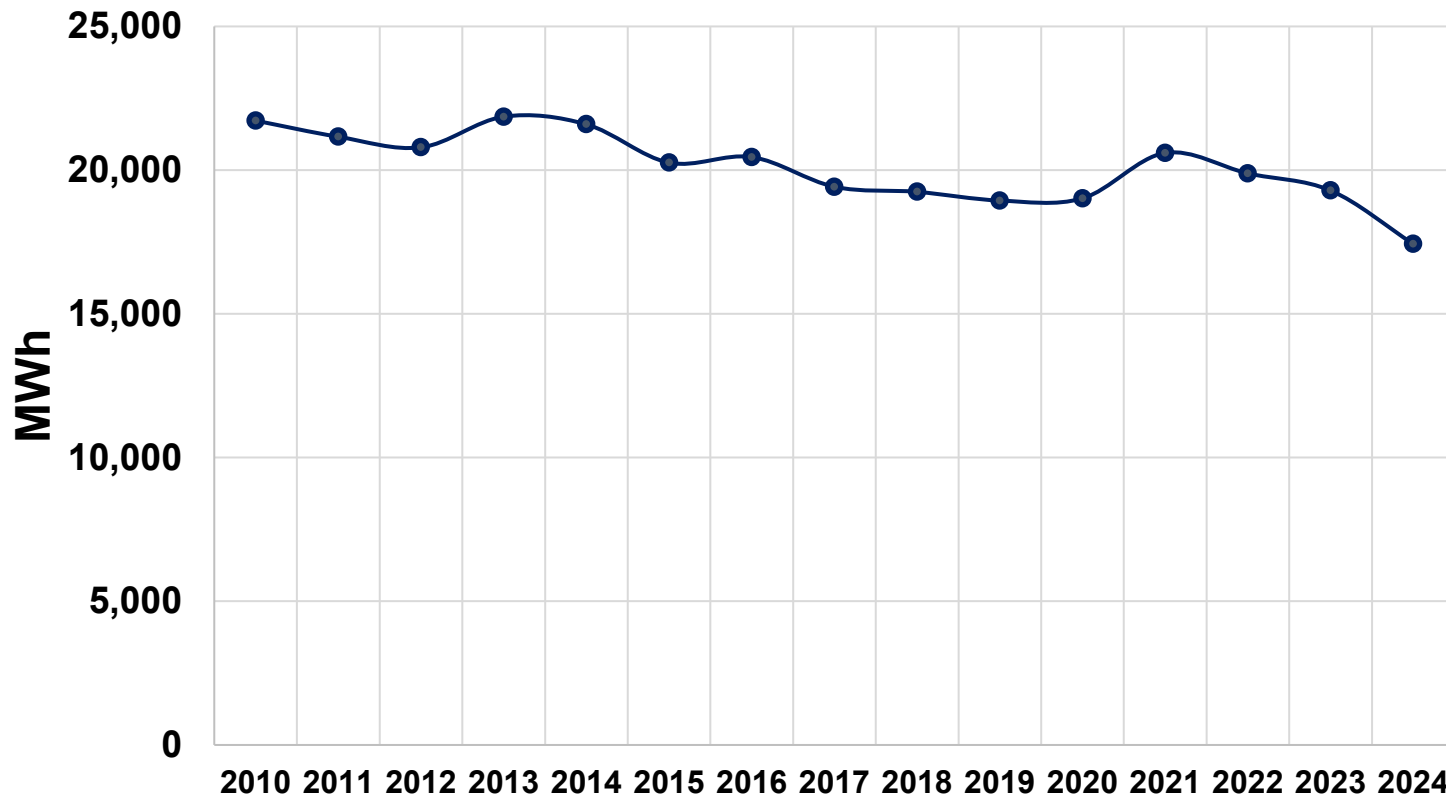
GHG Emissions from Natural Gas in Owned Facilities,
2010-2024



- 17% emissions decrease from 2010 baseline.
- 51% emissions decrease since 2023.
- 67% emissions decrease since peak in 2019.
- Recent decreases due to HQ sale.

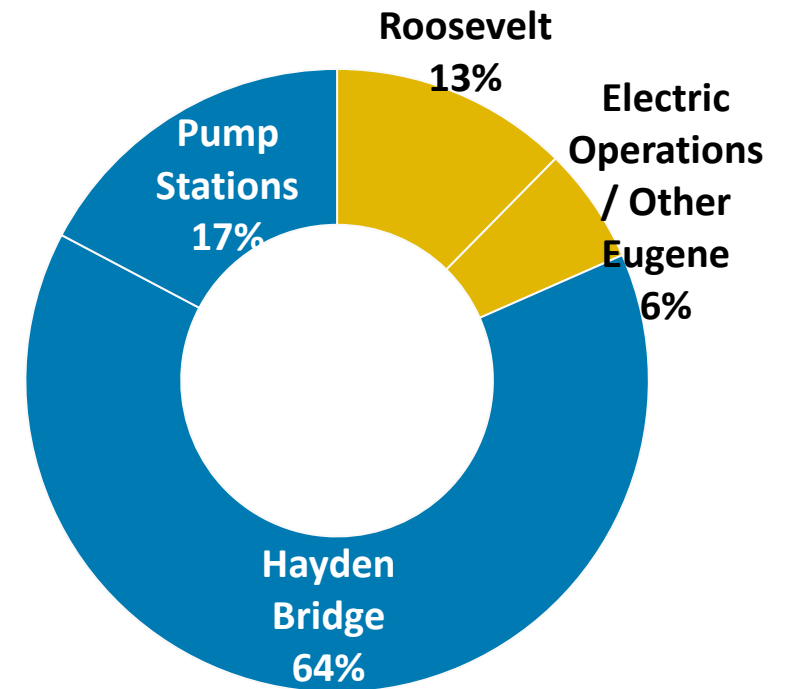
Scope 2: Electricity in Owned Buildings

EWEB Electricity Consumption in Owned Buildings (MWh), 2010-2024



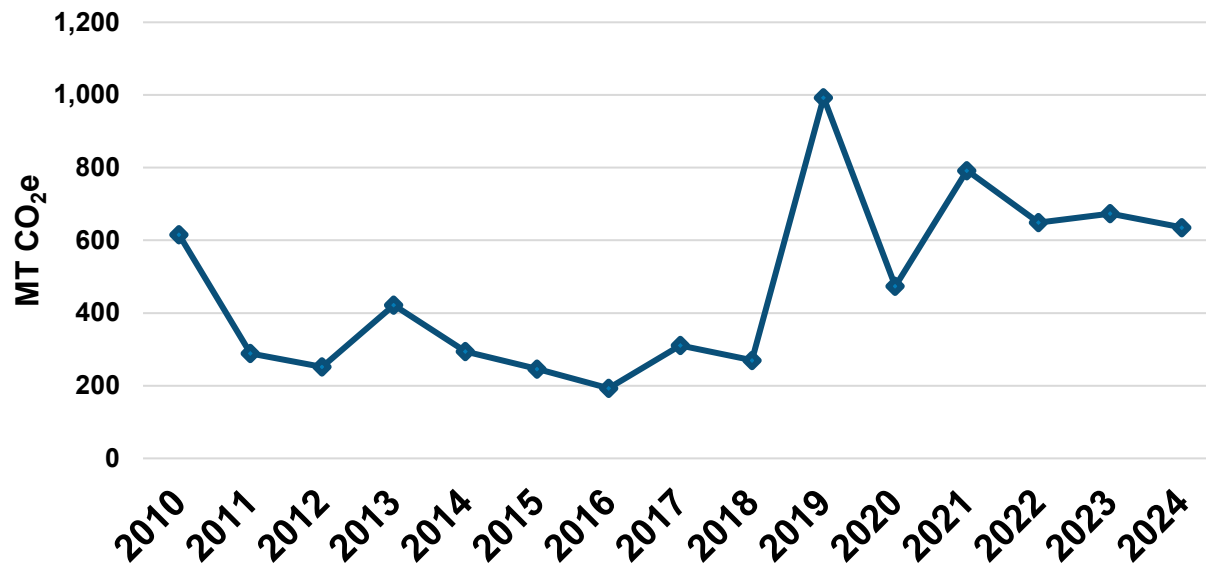
2024 Electricity Consumption down 20% since 2010.

2024 Electricity Consumption by Facility Type for EWEB Operations and Water Delivery

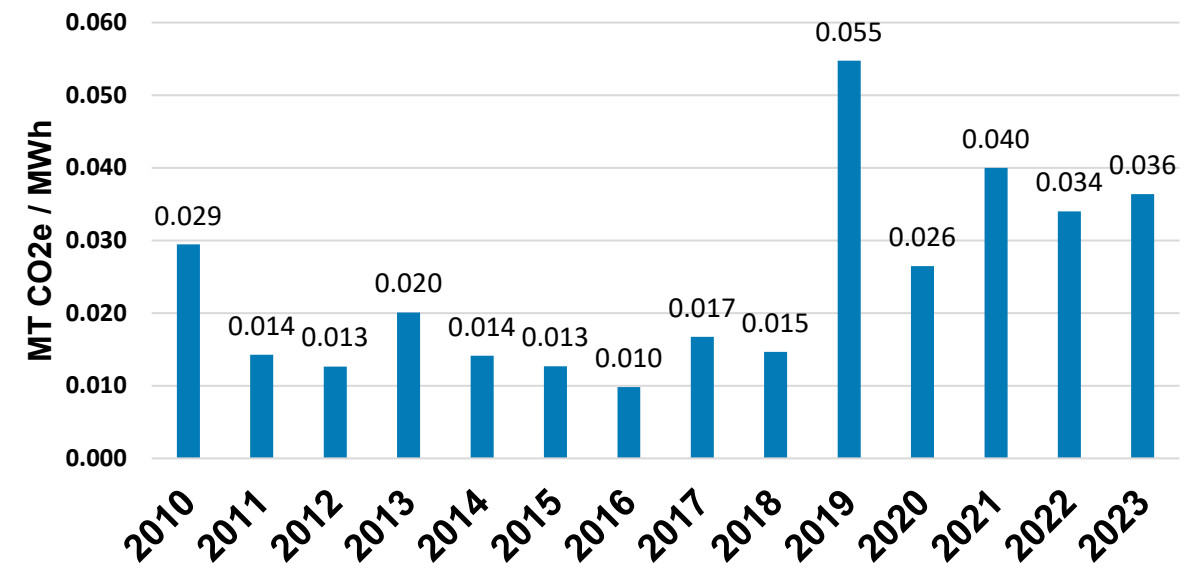


Scope 2: Electricity in Owned Buildings

GHG Emissions from Electricity in Owned Facilities, 2010-2024



EWEB Utility-Specific Emissions Factor (Oregon DEQ GHG Reporting Program)



**Note: OR DEQ has only published emissions factors through 2023. EWEB used the 2023 number to calculate our 2024 emissions.*

What to Expect in Climate Guidebook v4.0?

- Chapter 3: BPA decision, 2025 Energy Resource Study and Action Plan, Demand-Side Potential Assessment.
- Chapter 6: Electric Power Sector Protocol compliant GHG inventory.
 - Comprehensive emissions reporting including power delivery, water delivery, and operational emissions.



2 Ford Lightning Electric Pickups purchased in Oct 2023.

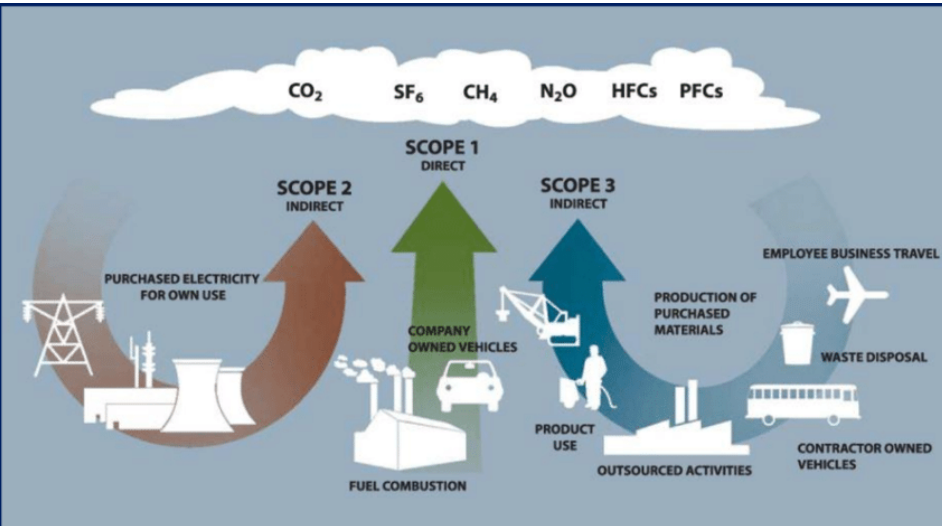
A Complete Approach to GHG Reporting

5.1 TABLE 5.1
Expected Emissions Categories for Various EPS Organizations

EPS Report Entity Type

	Fossil Generator ¹	Other Generator ²	Transmission Company, Balancing Authority, ISO ³	Local Distribution Company ⁴	Marketer/ Intermediary/ Retail Provider ⁵
Direct Emissions (Scope 1)					
Stationary Combustion	✓	✓			
Process Emissions	✓	✓			
Fugitive Emissions	✓	✓			
Direct Emissions (Biogenic)					
Stationary Combustion		✓			
Process		✓			
Indirect Emissions (Scope 2)					
Bulk Power Transmission Losses			✓		
Wheeled Power			✓		
Local T&D Losses				✓	✓
Purchased and Consumed Electricity	✓	✓	✓	✓	✓
Other Indirect Emissions (Scope 3)⁶					
Specified Purchases			✓	✓	✓
Other Purchases			✓	✓	✓
Direct Access			✓	✓	
Power Exchanges			✓	✓	
Wheeled Power			✓		

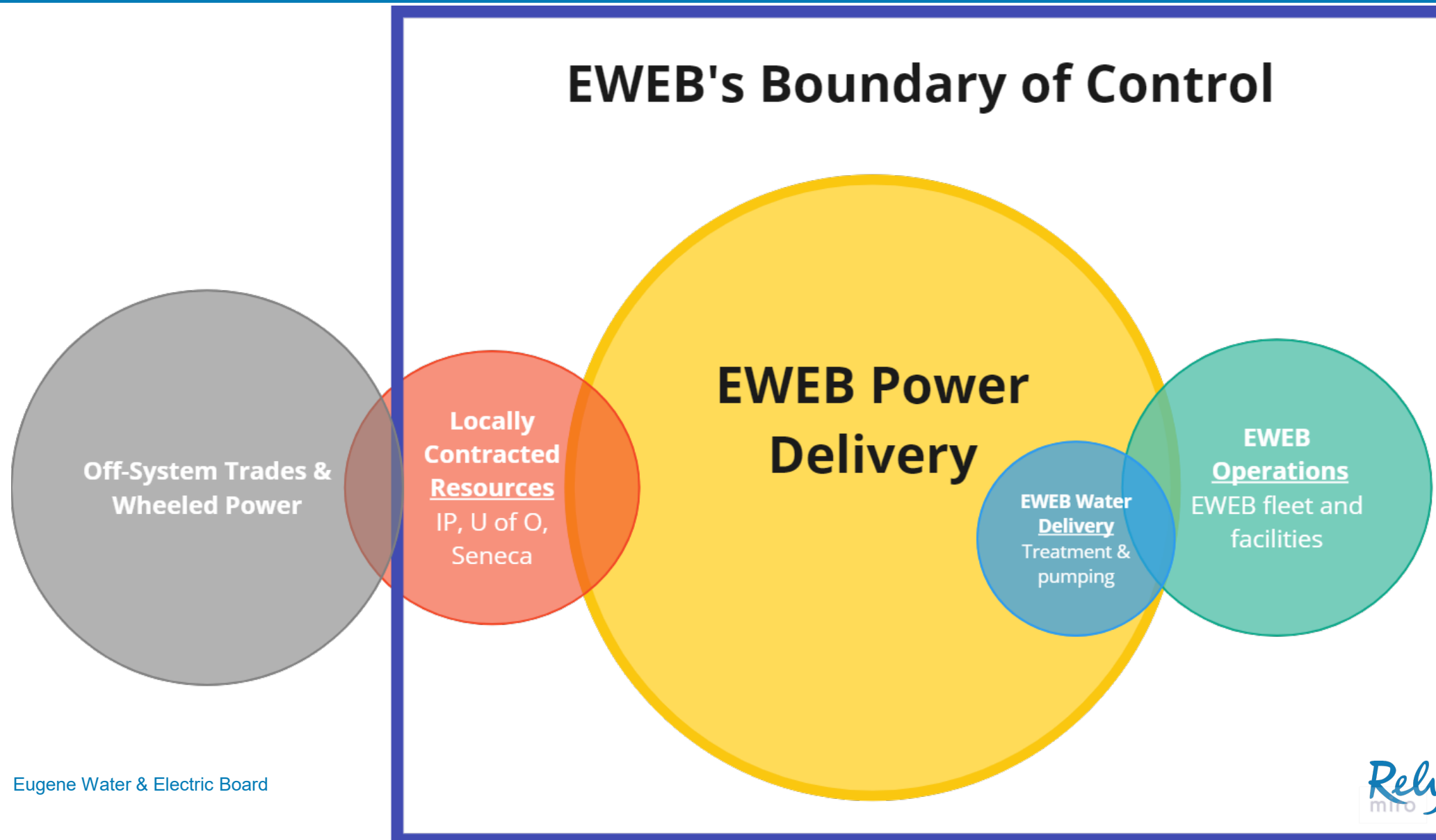
Notes:



Thank you!

Kelly Hoell, Climate Policy Analyst & Advisor - kelly.hoell@eweb.org

Electric Power Sector Protocol GHG Reporting



Break

(10 minutes)

2025 Wildfire Mitigation Plan



Eugene Water & Electric Board

Rely on us.



2025 Wildfire Mitigation Plan

Draft Plan Review and Discussion

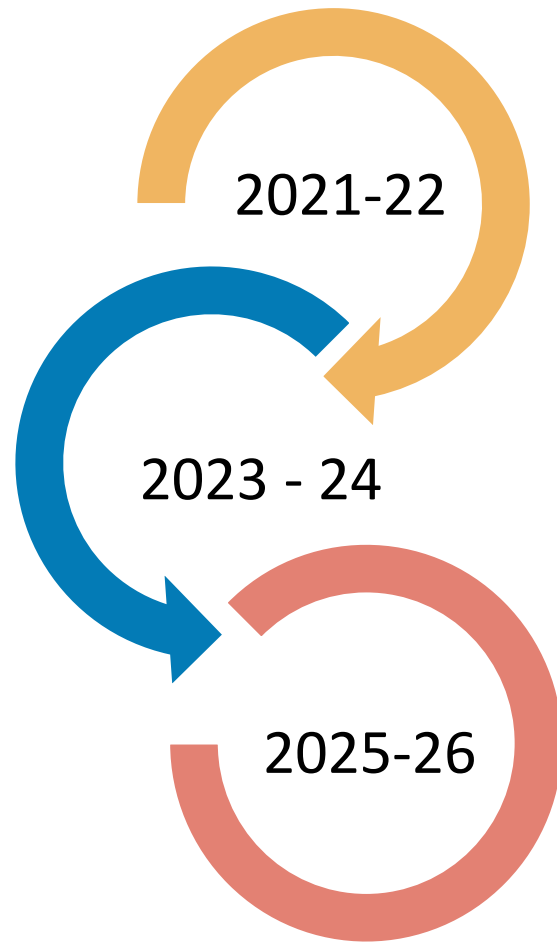
Jeannine Parisi, Resiliency Program Manager



Eugene Water & Electric Board

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EWEB Wildfire Mitigation Journey

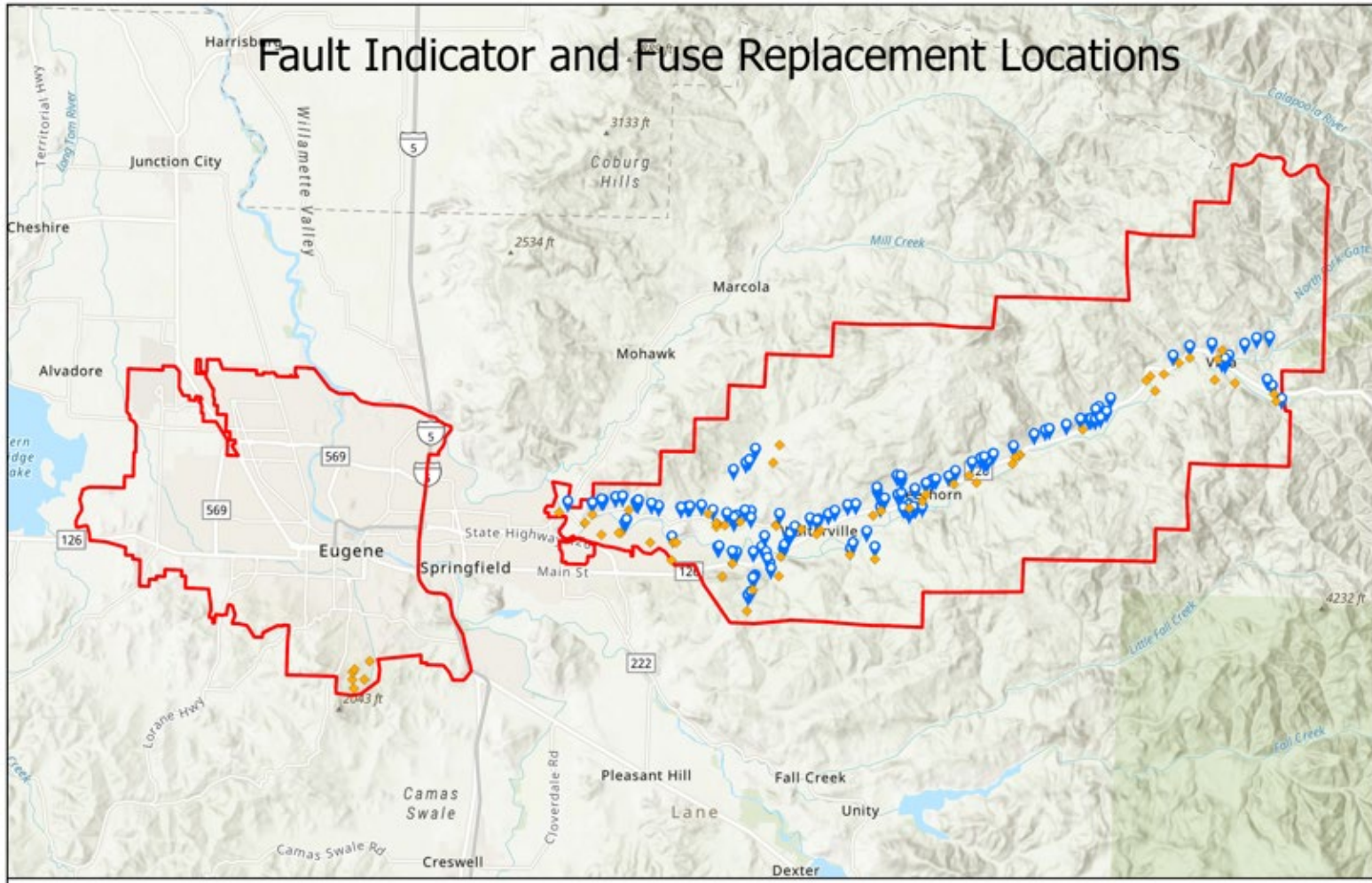


First WMP: ID preliminary HFRZs, enhanced O&M and reliability projects with wildfire mitigation co-benefits

23/24 WMP: Add situational awareness tools, new operational practices & pilot technology and equipment

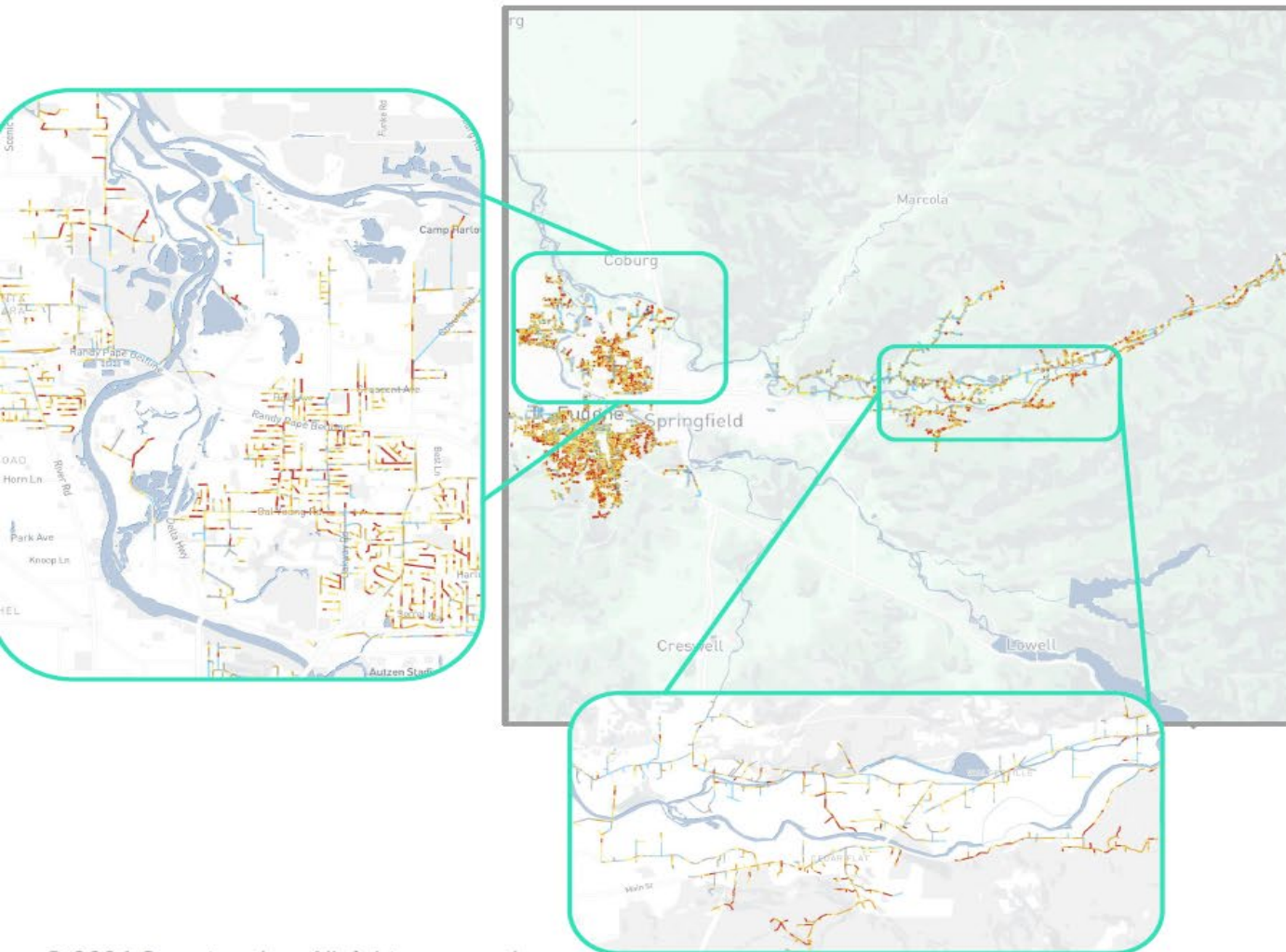
2025 WMP: Refine HFRZs, evaluate pilots, implement planned grid hardening projects, & build roadmap

2024 WMP Recap



Satellite Enhanced Vegetation Mgmt

Distribution Encroachment

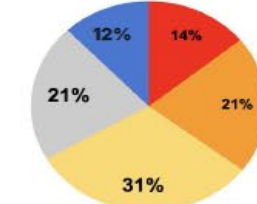


Vegetation Coverage



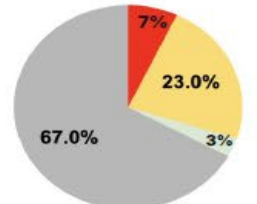
■ With Vegetation ■ Without Vegetation

Overall Distribution Risk



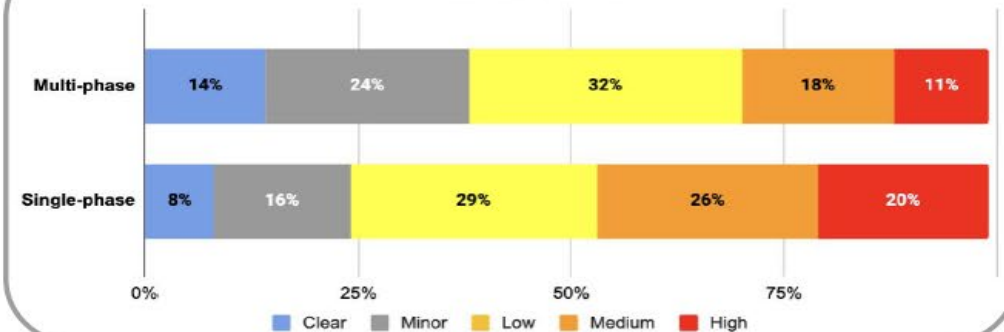
● High ● Medium ● Low ● Minor ● Clear

Wildfire Risk Zones



● High ● Low ● Very Low ● No Risk

Encroachment Risk



Distribution

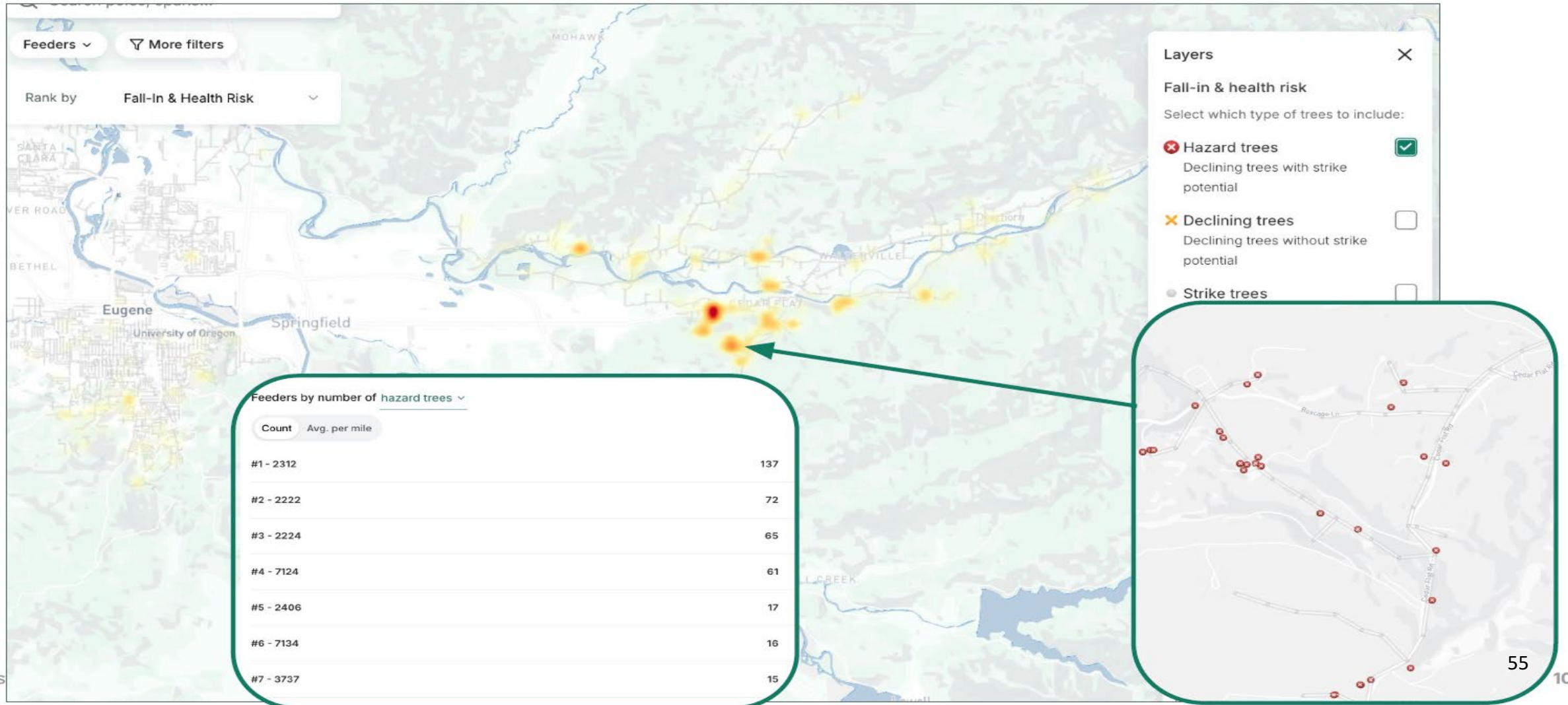
10,733 spans,
374.6 miles

Feeders by vegetation outage risk



Satellite Enhanced Vegetation Mgmt

Informed hazard tree hotspotting



Operational Readiness for 2025 Wildfire Season

WILDFIRE IN CONTEXT

- Not a new problem
- 2024 was historic

Idaho: 996,762 acres (most since 2012)
Montana: 352,491 acres
Oregon: 1,797,796 acres (most ever)
Washington: 275,593 acres

- Issues compounded by record-setting heat, drought
- Utility challenges include increased costs (insurance, maintenance) and legal risk

Total Acres Burned by Wildfires (2015-2024)



Source: National Interagency Coordination Center

2025 Grid Hardening Projects

HFRZ Distribution Pilots



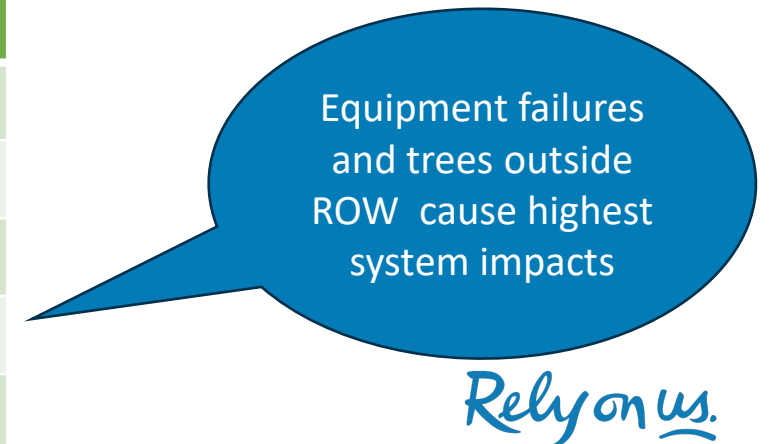
Dillard 4734 Resiliency Rebuild



Wildfire Safety Operational Settings

Safety Settings Dates	# HFRZ Outages	# Customers Impacted	Avg. Duration	Ignition Event
2022: Mid July – Oct 24 9-11 to 9-13	5 events 1 PSPS	676 avg (27 – 930) ~ 3000	4 hrs 36 hrs	1 (tree/line down)
2023: June 30 – Sept 24	7 events	675 avg (173 – 1187)	4.5 hrs	1 (tree)
2024: July 3 – Sept 26	6 events	857 avg (52 – 1004)	3 hrs	1 (equipment)

Outage Cause	Total #
Equipment	3
Animal	6 (3 birds for 2023/24)
Tree	3
Vehicle	1
Unknown	5



Community Preparedness



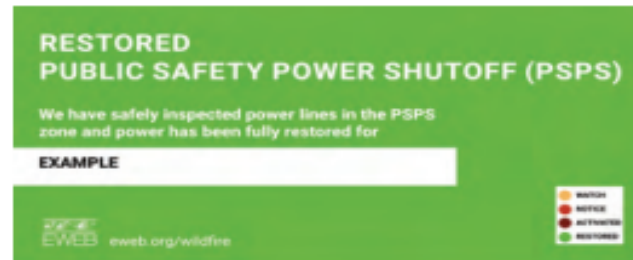
WATCH (72-48 hours advanced notice) – Forecasted weather conditions make a PSPS possible.



WARNING (48-24 hours advanced notice) – EWEB is planning and/or will activate a PSPS.



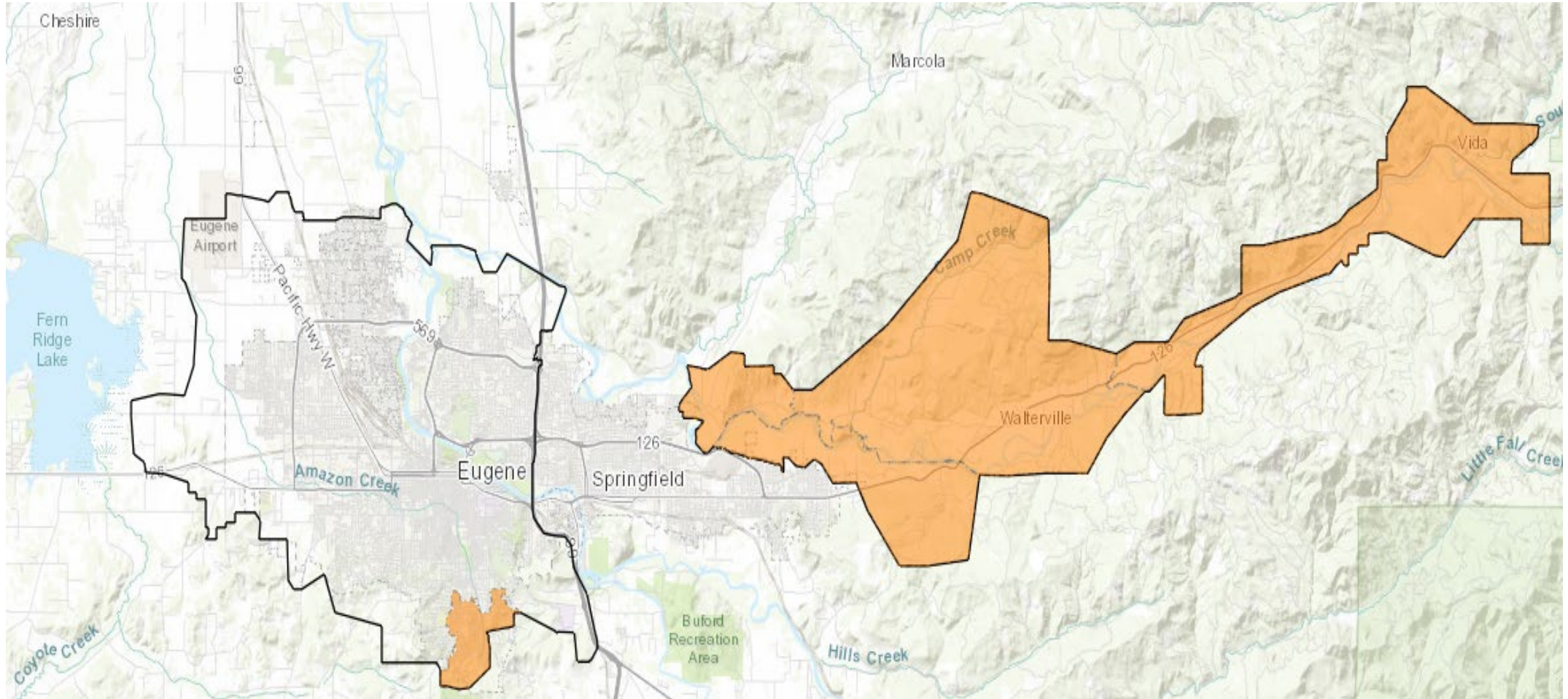
NOTICE (Beginning of PSPS) – EWEB has activated the PSPS.



RESTORED – EWEB has restored all power within the PSPS zone.

- PSPS and summer outage awareness campaigns
- Enhanced PSPS Support Program

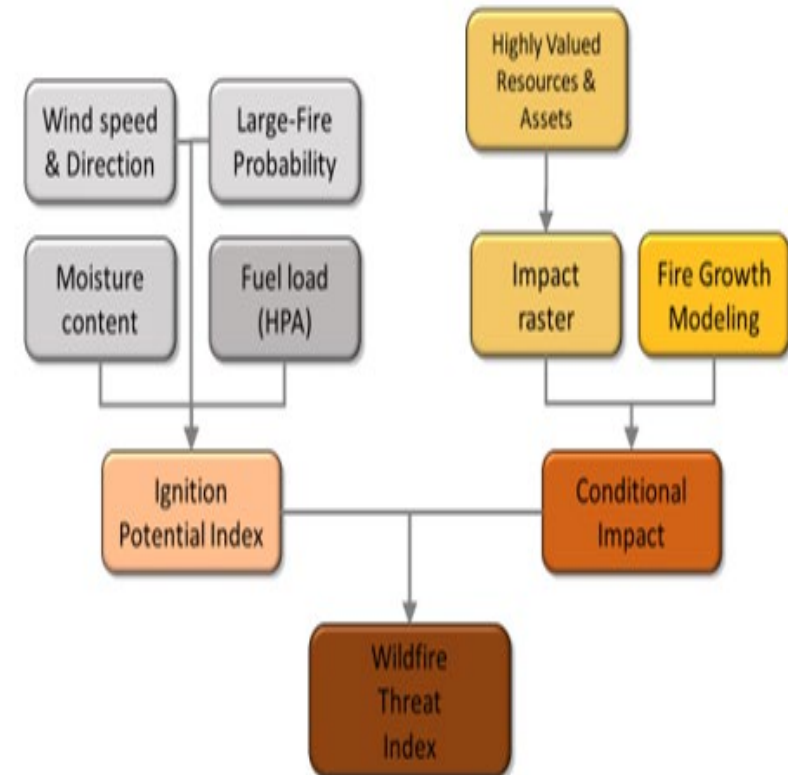
Updating EWEB HFRZ



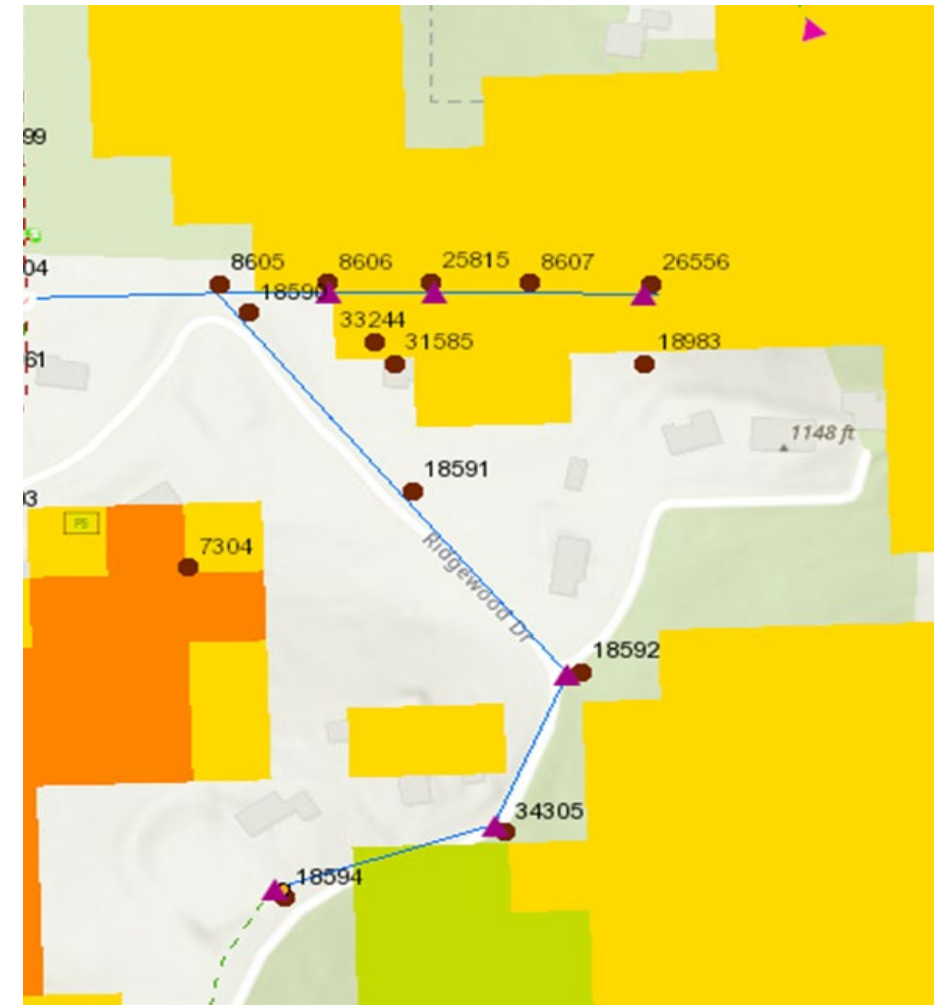
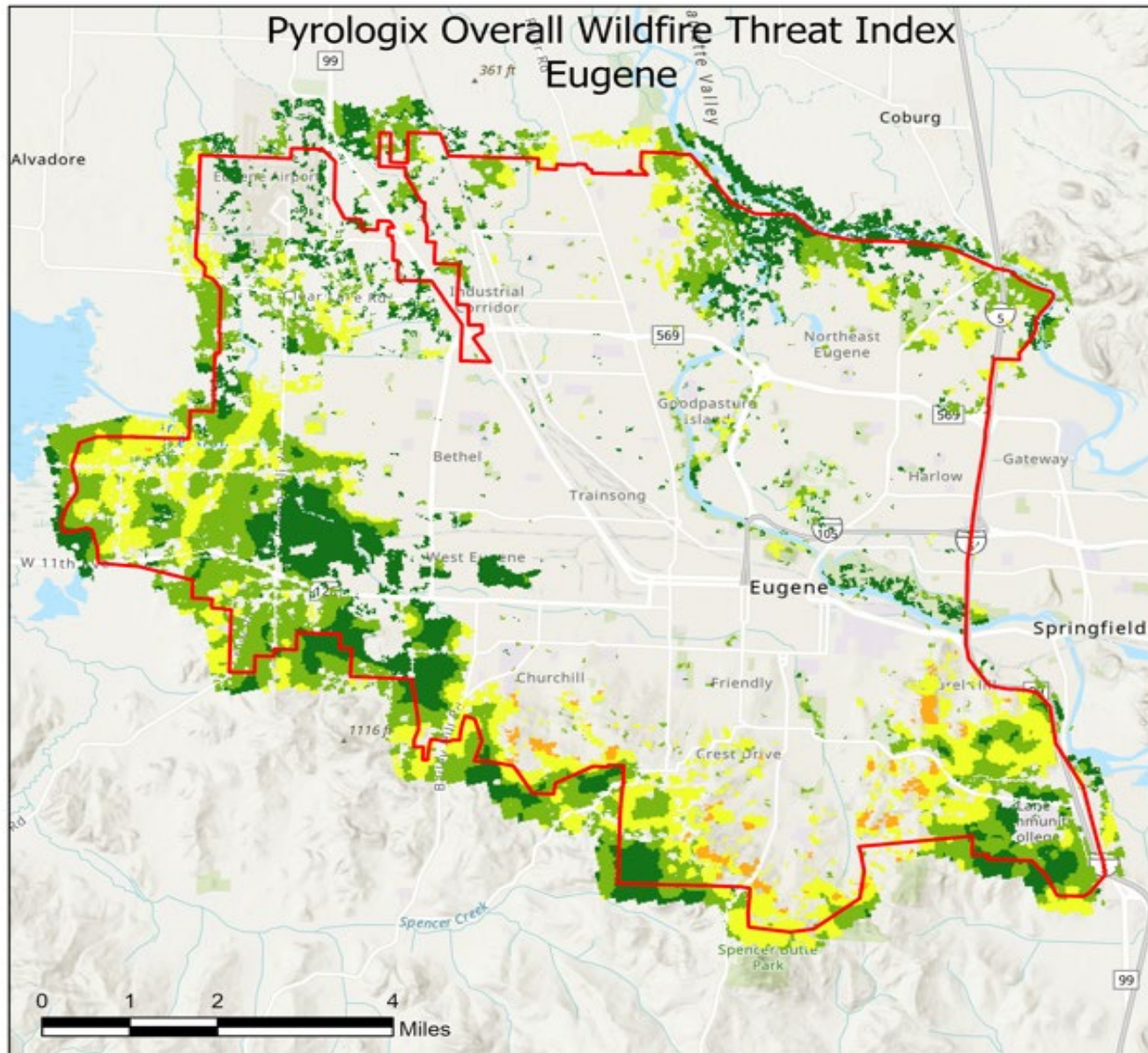
Fire Risk Assessment - Methodology

- Updated fuelscapes - USFS & 2021 EWEB LiDAR
- 216 weather types modeled
- 50,522 ignition points (EWEB OH)
- ~11M simulated fires @ 120m resolution

Overall WTI = locations with greatest combination of ignition probability and highest wildfire consequences

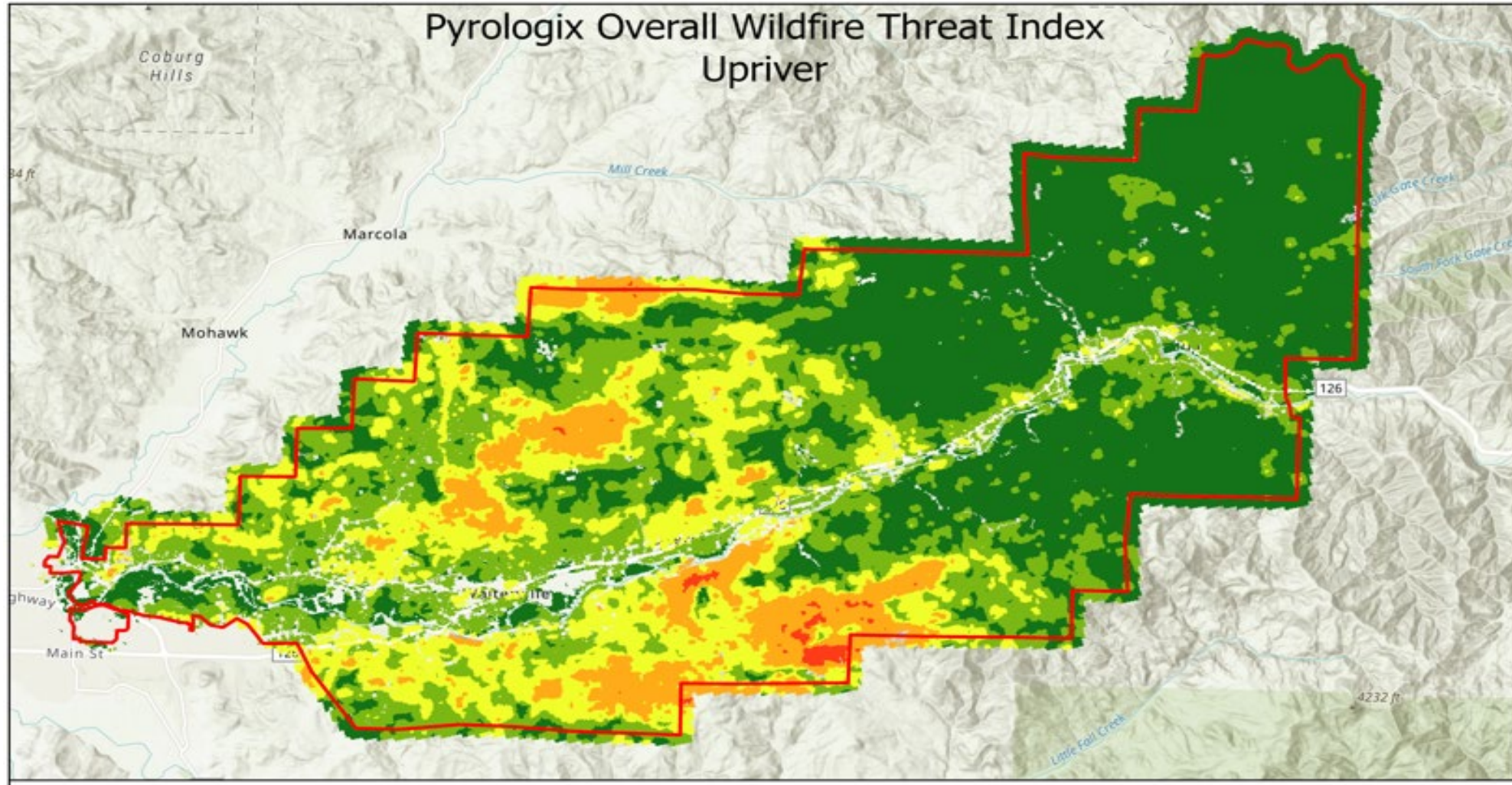


Refining/Validating EWEB's HFRZs

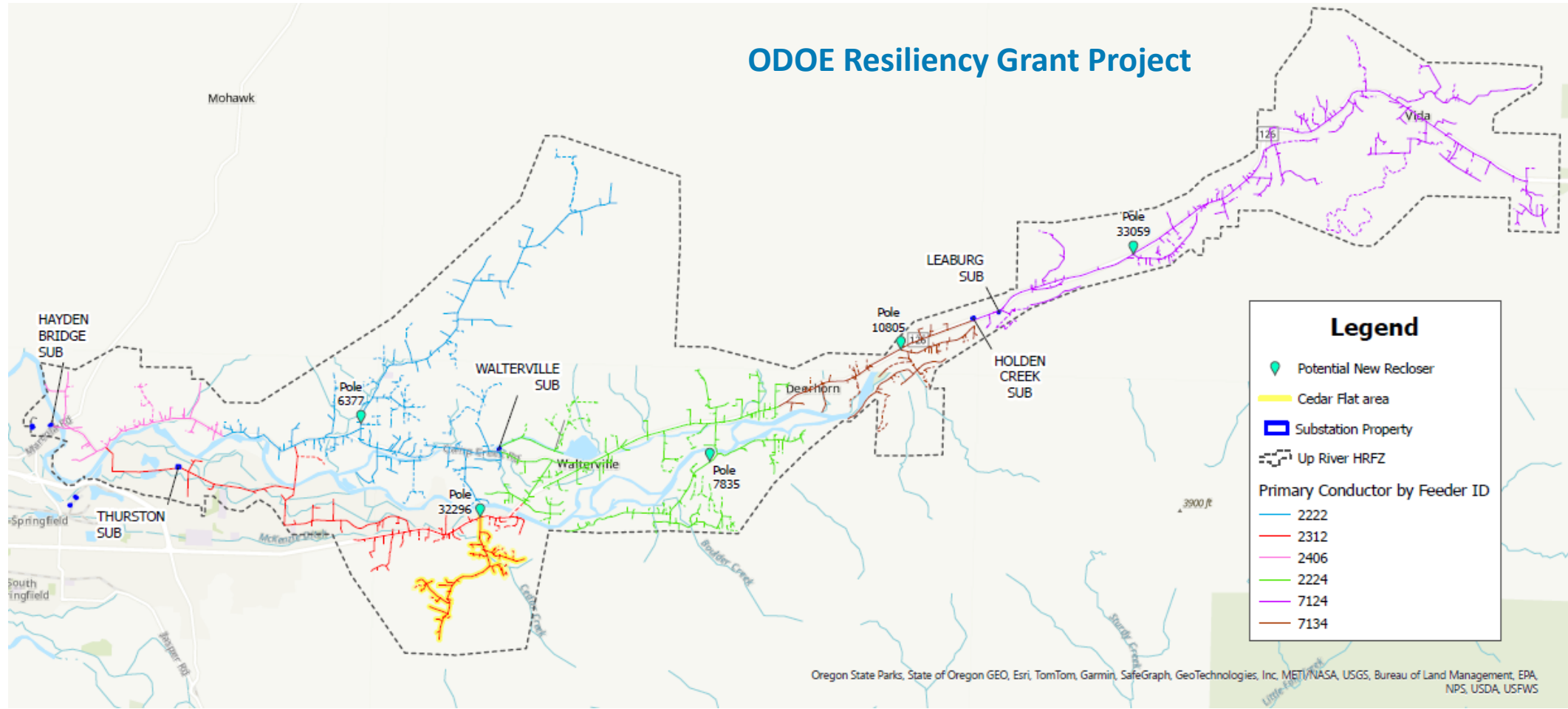


Rely on us.

Refining/Validating EWEB's HFRZs



State and Federal Actions



APPA Wildfire Mitigation Project Cohort

COHORT OBJECTIVES:

- Austin Energy
- EWEB
- Placer Cty Water Agency
- Salt River Project
- Snohomish PUD

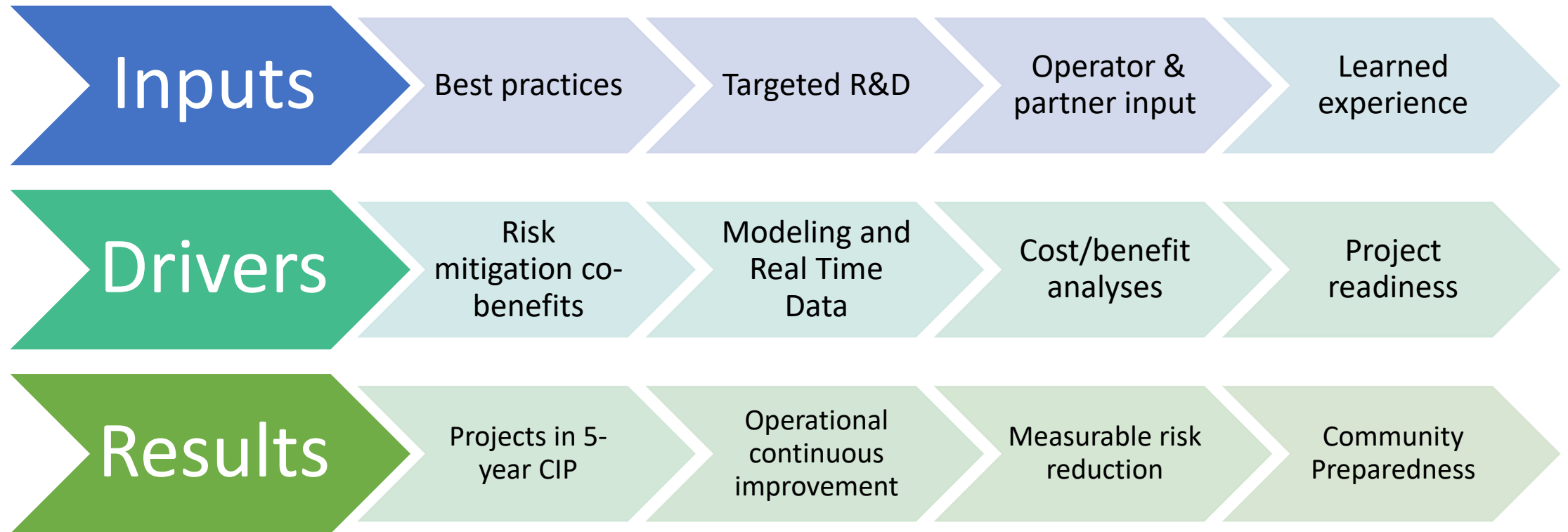
- Provide public power utilities with data on evolving wildfire and extreme heat threats
- Create actionable, data-driven toolkits for risk management and planning
- Standardize risk management practices for public power utilities



80 Years of Powering Strong Communities



2025 WMP Plan Maturity & Evolution



Questions and Discussion

Suggested Motion: *Move approval of Resolution #2508, EWEB 2025 Wildfire Mitigation Plan.*

General Manager's Annual Performance Evaluation & Merit Compensation Discussion for Prior Year

*John Barofsky, Board President
EWEB Board of Commissioners*

Future Board Agendas

Board Wrap Up

Adjourn