2024 Oregon Wildfire Mitigation Plan

UM 2207

March 19, 2024

Presenter: Megan Buckner, Director, Wildfire Mitigation Program Delivery















Agenda

- Plan Foundation & Elements
- Accomplishments and 2024 Updates
- Baseline Risk Map Update
- Situational Awareness & Operational Programs
- System Resiliency
- Public Safety Power Shutoff (PSPS) Program
- Customer Outreach & Communications



Plan Foundation & Elements



- Public Safety Partner Engagement
- Customer engagement
- Industry collaboration
- Public Utility Commission (PUC) Staff



Situational Awareness

- Baseline risk modeling to inform strategic programs and investments
- Dynamic seasonal risk modeling to inform operational protocols



Operational Practices

- Deploy more sensitive protective coordination equipment
- Replace fuse locations
- Implement operational strategies during fire risk periods
- Installation of new fault indicators



System Resiliency

- Enhanced inspections and accelerated correction of certain conditions
- Enhanced vegetation management practices
- Line rebuilds



Accomplishments and 2024 Updates

2023 Accomplishments

(Values are approximate and incremental wildfire mitigation values)

- √ 1,700 incremental miles of vegetation management and inspection complete,
- ✓ Over 14,000 incremental trees pruned or removed, 1.8 acres of brush removed and over 25,000 poles cleared
- √ 125 miles of covered conductor initiated
- ✓ Rebuilt 82 miles overhead lines with covered conductor
- ✓ Replacement of 8,000 expulsion fuses
- ✓ Upgraded 75 relays and reclosers
- ✓ 9 PSPS planning sessions with public safety partners
- √ 5 forums for public engagement
- ✓ 5 workshops hosted for Oregon Public Utilities Commission staff

2024 Updates



Increased staff engagement Seeking grant opportunities Joint IOU RSE Discussions





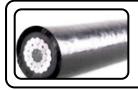
Baseline (FHCA/HFRA) map refresh Wildfire cameras





Expansion of Operational Programs
Encroachment De-Energization





Planned installation of 125 line miles of rebuild Upgrading 81 relays and reclosers

Oregon Public Utilities Commission Staff Recommendation Engagement

29 staff recommendations discussed and incorporated into the 2024 plan update



08/02/23

Plan overview



08/22/23

Maturity survey



09/12/23

Risk Spend Efficiency (RSF)



9/20/2023

General topics



10/05/23 Inition and Fire

Ignition and Fire Incident



Baseline Risk Map Update



Heightened Risk of Wildfire

Approximately 3,600 miles or 21% of all overhead lines are located within the FHCA

3,000 miles of overhead distribution in the FHCA;

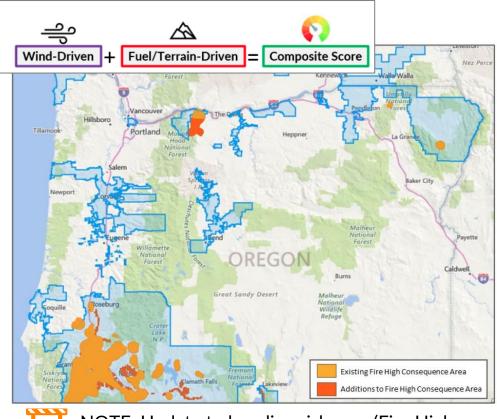
General Stats

PacifiCorp provides electricity to approximately 630,000 Oregon customers via 290 substations, 20,000 miles of distribution lines, and about 3,000 miles of transmission lines across nearly 21,000 square miles

System Wide Initiatives

- ✓ Weather Stations
- ✓ Situational Awareness
- ✓ Operational Protocols (EFR, PSPS)
- ✓ Community Education and Outreach

Oregon Service Territory



NOTE: Update to baseline risk map (Fire High Consequence Areas) in progress.

Expanded Programs

- ✓ Increased Frequency of Asset Inspections
- ✓ Accelerated Condition Correction
- ✓ IR Inspections
- ✓ Enhanced Vegetation Management

2024 Updates

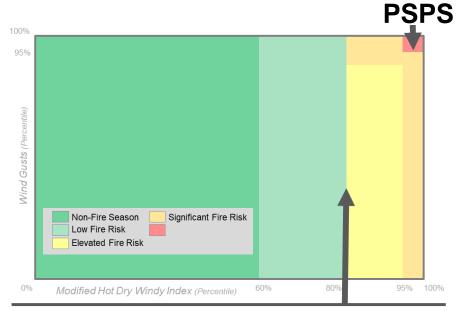
- ☐ FireSight risk modeling
- Advanced Data Analytics
- Evaluation of Climate Change Impacts on Risk Models
- ☐ Fire Incident Root Cause Evaluation



Situational Awareness & Operational Programs

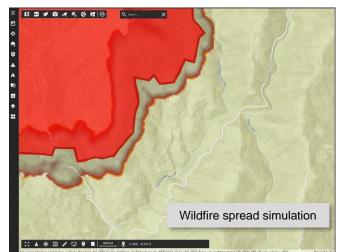
Situational Awareness

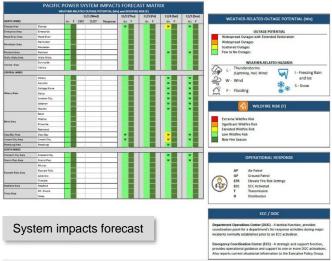
- ✓ Implemented an impacts-based forecasting system and suite of wildfire risk modeling and simulation tools to inform whether to implement EFR settings or risk-based work practices and resource adjustments
- ☐ Plan to install 5 wildfire cameras

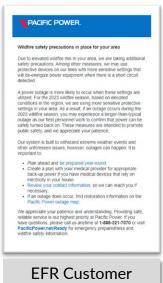


EFR

Is enabled when weather conditions reach **yellow for a given area** and stay on for Fire High Consequence Area (FHCA) throughout the fire season. Providing a safety buffer between enablement and when wildfire impacts are historically experienced







Communication

Elevated Fire Risk (EFR) Settings

- ✓ During the peak of the 2023 fire season 24% of all overhead circuits were placed in EFR settings
- ✓ EFR settings are enabled across the service territory; well in advance of weather conditions that have historically been related to catastrophic fires

Expansion of Operational Protocols

✓ Fires within a specified distance of assets (based on voltage and material) results in immediate de-energization



System Resiliency



87,000 planned line miles inspected



1,676 vegetation management line miles



Planned installation of 125 line miles of rebuild



Upgrading 81 relays and reclosers



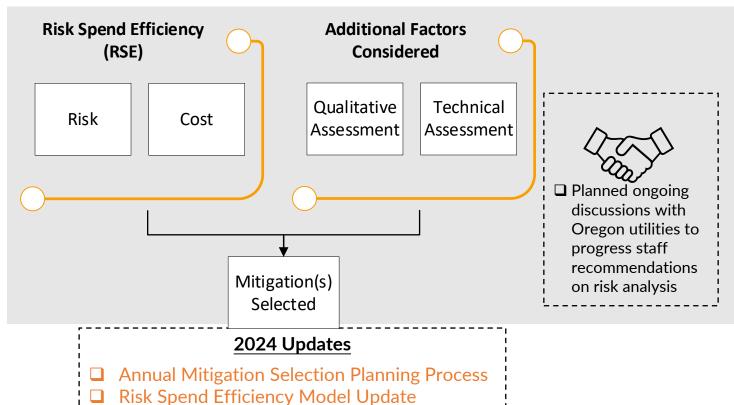


Baseline risk analysis supports identification of areas of utility-ignition risk from overhead equipment.

This supports prioritization of locations for mitigation efforts such as grid hardening.

Mitigation Selection

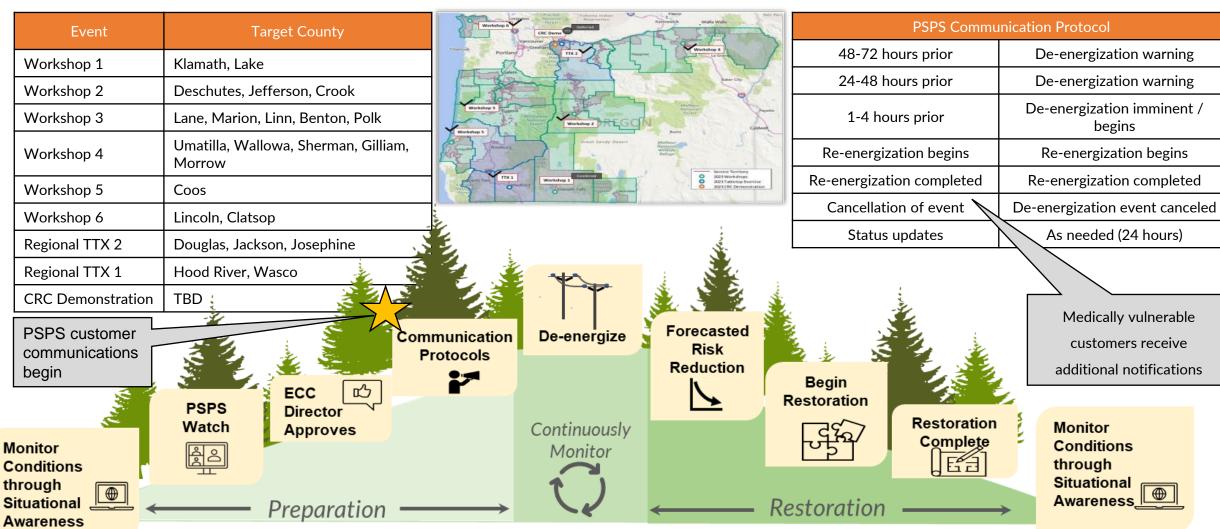
(Alternative Analysis for Capital projects)





Public Safety Power Shutoff (PSPS) Program

2024 Planned Events





Customer Outreach & Communications

- Conduct customer outreach across various mediums to reach all customers in Oregon:
 - Video and social media ad campaign
 - Support collateral, brochures, checklists, flyers
 - Webpages, online resources

Numbers indicate that Pacific Power customers were <u>more</u> <u>engaged</u> generally in 2023 compared to 2022, specifically regarding social media outreach.

Tracked metrics indicate level of customer engagement with the type of outreach:

Metric	Measurement	
Social Media Engagement	Clicks/Impressions	
Video Completion Rate (VCR)	Video completions/clicks	

2023
.9%
53.5%

2024 WMP Engagement Forums

Community	Event Date	Event Type
Medford	May 2024	Public Engagement Forum
Coos Bay	May 2024	Public Engagement Forum
Pendleton	May 2024	Public Engagement Forum
Sherman or Gilliam County	May 2024	Public Engagement Forum
Hood River	May 2024	Public Engagement Forum
Bend	June 2024	Public Engagement Forum
Linn County	June 2024	Public Engagement Forum
Lincoln City	June 2024	Public Engagement Forum
Cannon Beach	June 2024	Public Engagement Forum





Thank You!

For additional comments and questions, email us at:

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