



Pacific Power
Rocky Mountain Power

Empowering Resilience: Harnessing Generators for Communities Impacted by Long Duration Outages



Horace Ward

15+ years of emergency and disaster management

Senior Emergency Manager – PacifiCorp

Operations Manager – Yakima Valley Emergency
Management

Assistant Supervisor – Washington State Dept. of Ecology

Key experience

Agency Rep for Smith River Complex – CA

EOC Manager & JIC Manager for COVID-19 – WA

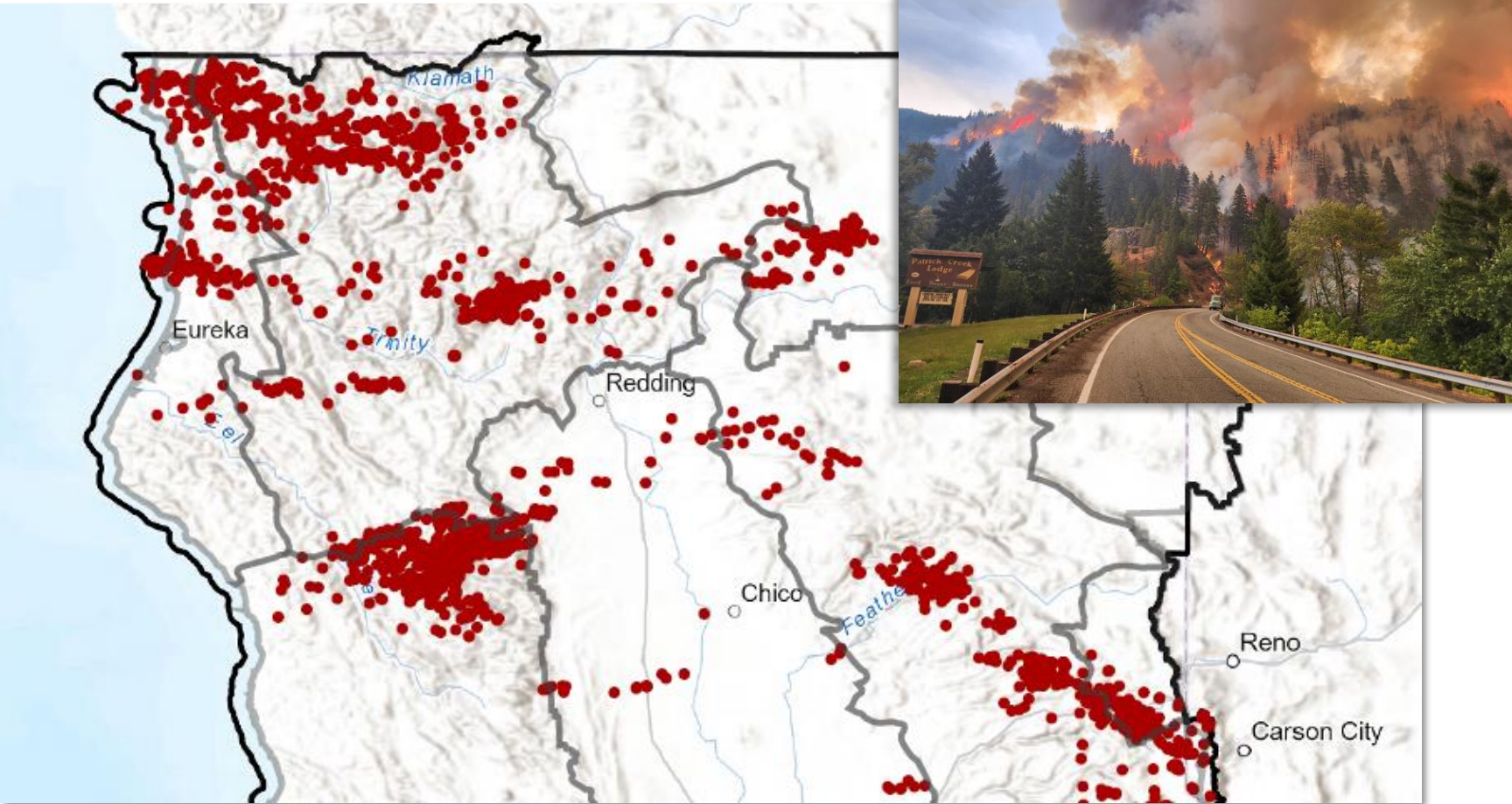
EOC Manager & Lead PIO for Rattlesnake Ridge Landslide

Division Supervisor for Joplin 2011 Tornado – MO

All hazard response in ICS & EOC positions

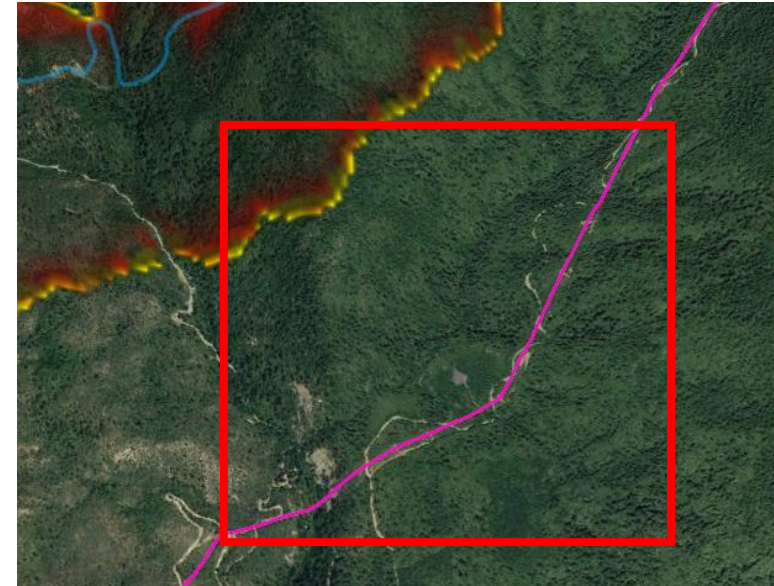


August 14-15, Northern CA

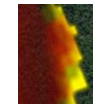


- 4,560 Lightning Strikes & multiple fire starts reported
- Multiple fires in Del Norte/Siskiyou Counties combined into Smith River Complex Fires

Aug. 18, 2023



MAP LEGEND



Wildfire Simulation – Aug. 18 at 8:00 am



Power Lines Feeding Crescent City



Wildfire Perimeter

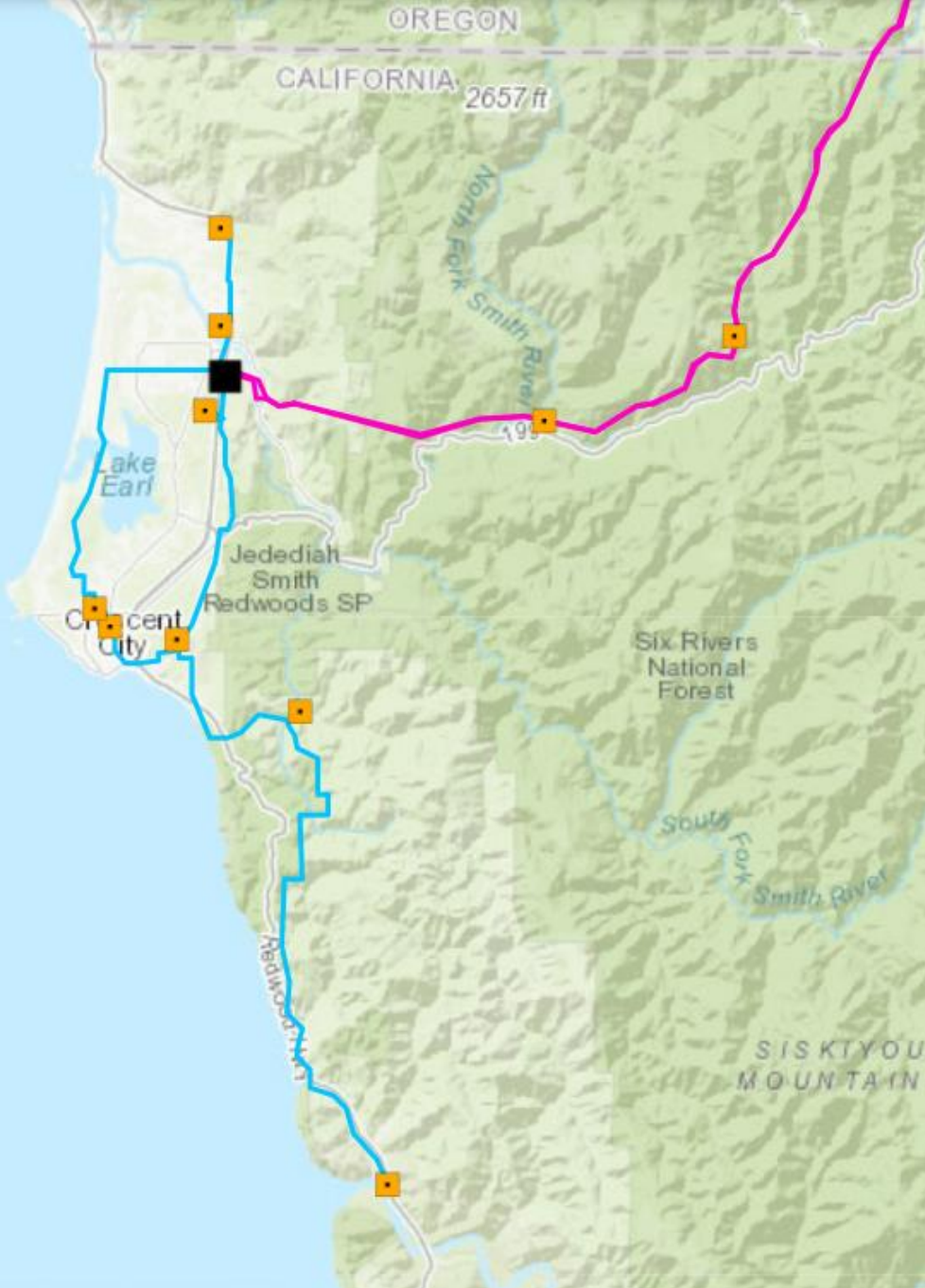
National Interagency Fire Center, Aug. 18 at 5:57 pm

August 18, 2023 at 2:00 pm:

Morning wildfire simulations showed the potential for the fire to reach power lines within 12-24 hours. At 2:00 pm, PacifiCorp had a helicopter survey the advancing fire and determined the fire's proximity to the power lines posed a threat to public safety.

Aug. 18, 2023

- At 4:35 PM De-energized both transmission lines
- 12,954 meters affected by outage (approximately 27,000 residents)



Aug. 18, 2023

- Began deploying generators to Customers with Access & Functional Needs and Critical Infrastructure



Aug. 19, 2023

- Deployed emergency management liaison to County EOC
- Began identifying additional critical infrastructure locations and ordering/deploying generators to meet needs
- Started planning for larger scale generation deployments

A photograph of a whiteboard with handwritten notes. The notes are organized into two columns. The left column is titled "Generators In Place" and lists various locations with their generator capacities. The right column is titled "Generators to be Deployed" and lists additional locations with their generator capacities. The notes are written in blue and red ink.

Generators In Place		Generators to be Deployed	
Downtown Grid #2	2m	*Redwood Meadows	300 kw
Harbor	500 kw	Palmer Westbrook	300 kw
Lucky 7	300 kw	Palmer Westbrook	300 kw
Lucky 7	300 kw	*Wild Rivers	25 kw
Gasquet Water	25 kw	*Dennis Wood	25 kw
City Water	55 kw	*Family Resource	25 kw
HRC Water Pump	25 kw	Alexandre	100 kw
Churchtree Water Pump	25 kw	*West Park P	25 kw
Wigley Water Pump	25 kw	Resiginhi - K	12 meg
*Dialysis Center	100 kw	*Airport AR	600 kw
*Woodland Villa	25 kw	Summer Park	70 kw
*Belmont Substation	12 meg	*Addie Mead	45 kw
*Rumiano	600 kw	*Crescent City	25 kw
*Rumiano	70 kw	*City Hall	25 kw
Dollar General	45 kw	*Flynn Ct I	25 kw
Park City Superette	25 kw	*Legacy Motel	45 kw
Ricoonsito (Former La Jolla)	25 kw	Woodhaven	45 kw
*Grocery Outlet	300 kw	Lolita Restau	45 kw
Alexandre D (egg farm)	45 kw	*Bertchel Lif	45 kw
Alexandre Reservation Ranch	70 kw	*Williams	55 kw
Westbrook	45 kw	*Downtown	55 kw
A. Lopez	45 kw		
*Senior Apts 1125	55 kw		

Aug. 19, 2023



- Deployed a 2mW Generator to Northcrest Substation restoring approximately 400 customers including key county resources

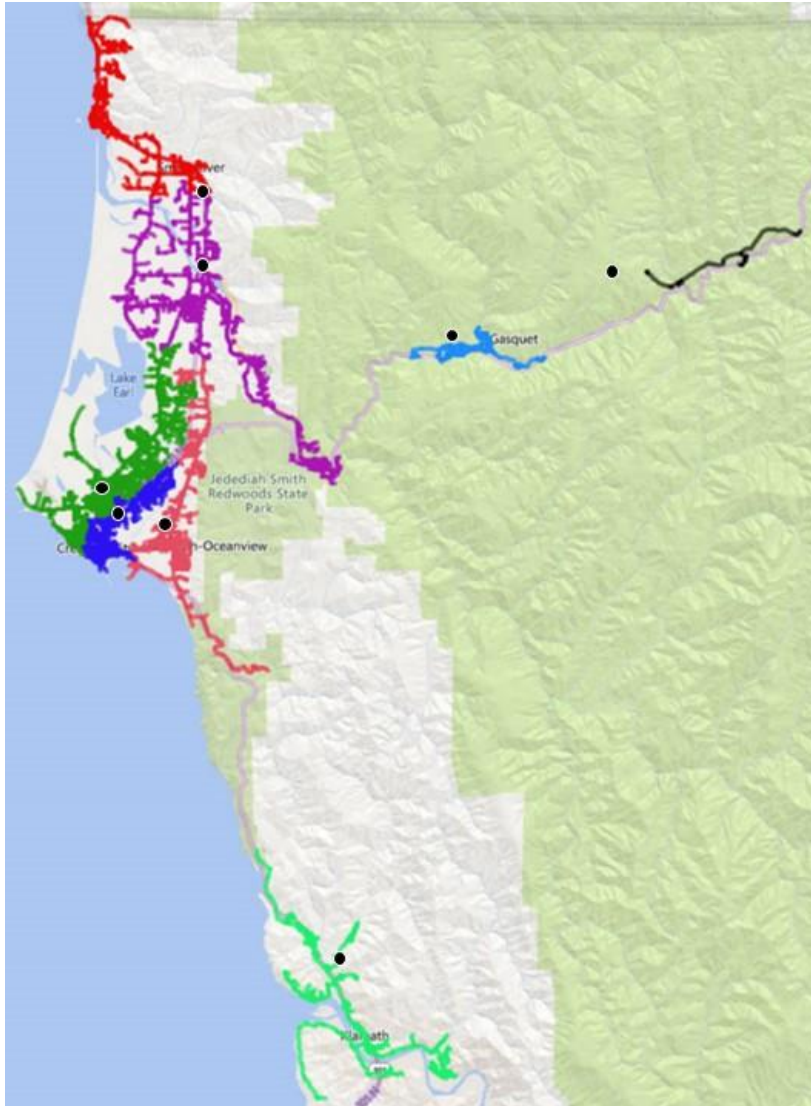
Aug. 19, 2023



- 3 Locations
- Over 4,500 customers
- Over 85 pallets of water and ice (30,000 gallons)
- Snacks, beverages
- Device charging
- Information
- Showers/laundry (for Karuk Tribe)



Aug. 20, 2023



Generator Install Schedule

as of 9/2/2023 at 2pm

Substation Name	Customers	Status	Schedule	
Belmont	4,000	Complete	8/21/2023	
Morrison Creek	1,000	Complete	8/22/2023	
Northcrest	3,600	Complete	8/23/2023	
Redwood	1,500	Complete	8/24/2023	
Yurok	740	Complete	8/24/2023	
Smith River	1,400	Complete	8/25/2023	
Gasquet	500	Complete	9/1/2023	after evacuation orders lifted
Patrick Creek	15	65%	TBD by each customer	

Aug. 20, 2023

- Began engineering, ordering, and deploying large scale generators to be connected directly to substations



Generator Overview

Substation	Customers	# of Circuits	Historic Peak Load (MVA)	# of large Generators	Total MW of generation	Approx. Daily Fuel Usage (gal)	Number of days on Gen Power	Approx. Total Fuel Usage (gal)
Belmont	3984	3	8.3	6	12	11,520	20	230,400
Northcrest	3640	3	12	8	16	15,360	18	276,480
Redwood	1544	2	5.8	5	10	6,000	18	108,000
Morrison Creek	1018	2	3.5	3	6	4,176	19	79,344
Yurok	741	2	2.4	2	2.6	2,436	16	38,976
Smith River	1417	3	4.7	6	12	4,032	16	64,512
Lake Earl	1	1	3.5	3	6	3,312	16	52,992
Gasquet	472	1	1	1	1	764	9	6,876
Total	12,817	17	41.2	33	65.6	36,080		797,202

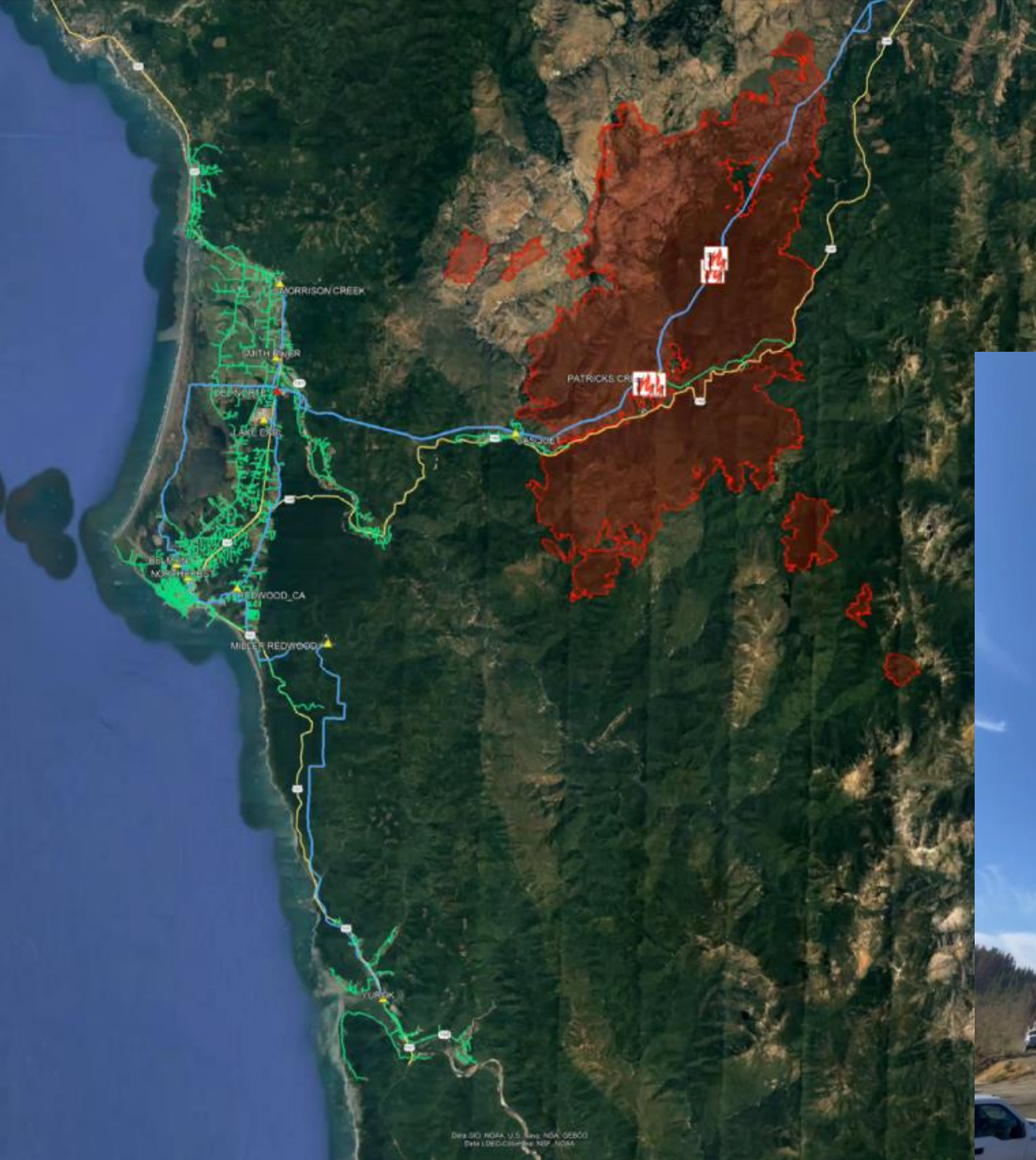
**Total Residential
Generator Installations**

201

**Total Commercial
Generators Installed**

52

Sept. 1-10, 2023



- Replaced damaged transmission poles
- Cutover power from generators to grid power

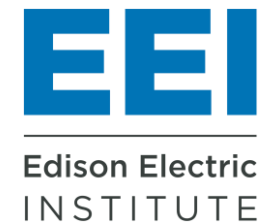


Emergency Recovery Award

PacifiCorp

Smith River Complex Fire

August 2023



For Outstanding Recovery of Electric Service

Contact Info

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Pacific Power

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Serving:

- Benton County, WA
- Clatsop County, OR
- Columbia County, WA
- Garfield County, WA
- Gilliam County, OR
- Hood River County, OR
- Morrow County, OR
- Multnomah County, OR
- Sherman County, OR
- Tillamook County, OR
- Umatilla County, OR
- Walla Walla County, WA
- Wallowa County, OR
- Wasco County, OR
- Yakima County, WA



Wildfire Mitigation Plans -

<https://www.pacificorp.com/community/safety/wildfire-mitigation-plans.html>



Outage Preparedness Resources –

<https://www.pacificpower.net/outages-safety/storm-emergency-preparedness.html>



Safety & Preparedness Resources-

<https://www.pacificpower.net/outages-safety/storm-emergency-preparedness/safety-preparedness-resources.html>

