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COMPANY NAME: PacifiCorp

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 Statute
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List Key Words for this report. We use these to improve search results.

Compliance Filing - Annual Reliability Report for Calendar Year 2023

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May 1, 2024

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
Attn: Filing Center
201 High Street SE, Suite 100
Salem, OR 97301-3398

Re: RE 171—Annual Reliability Report for Calendar Year 2023

In accordance with Oregon Administrative Rule 860-023-0151, PacifiCorp d/b/a Pacific Power submits for filing its Annual Reliability Report for calendar year 2023.

Please direct any questions on this report to Jennifer Angell, Regulatory Project Manager, at (503) 331-4414.

Sincerely,



Matthew McVee
Vice President, Regulatory Policy and Operations

Enclosure



**Pacific Power's
Annual Report:**

**Oregon Administrative Rules
860-023, 024 and 028**

Calendar Year 2023 Review
(January 1 – December 31, 2023)

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RELIABILITY

Introduction and Reliability Discussion

This year's reliability report includes a brief overview of Pacific Power's programs and initiatives to evaluate and enhance reliability. This report is consistent with Oregon Administration Rules (OARs) 860-023, 024 and 028.

Monitoring, Recording, and Reporting Reliability

How Pacific Power Monitors Reliability

Outage Management and Reporting Systems:

Pacific Power operates automated outage management and reporting systems. Customer trouble calls and SCADA events are interfaced with the Company's real-time network connectivity model, its CADOPS system (Computer Aided Distribution Operations System). By overlaying these events onto the network model, the program infers outages at the appropriate devices (such as a transformer, fuse, or other interrupting device) for all customers down line of the interrupting device. The outage is then routed to appropriate field operations staff for restoration and the outage event is recorded in the Company's Prosper/US outage repository.

SCADA System and Momentary Interruption Indices:

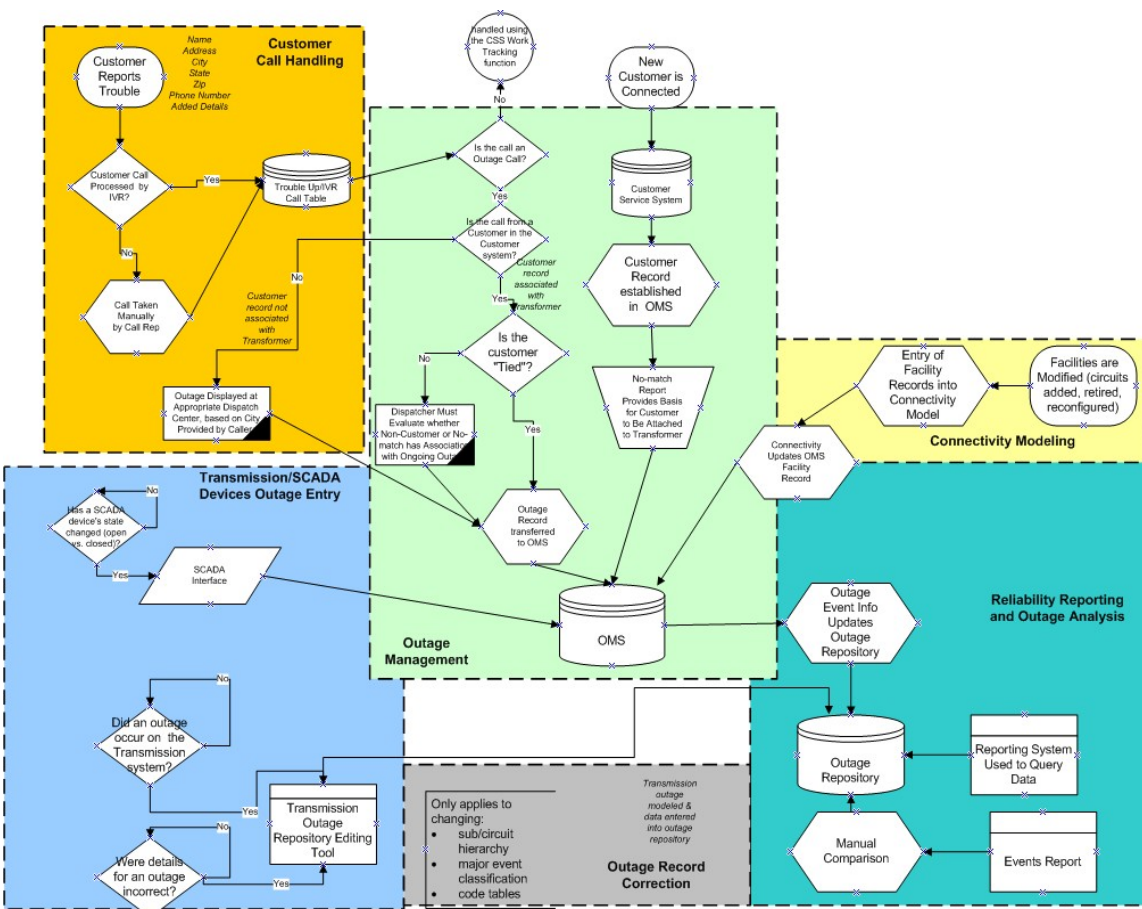
In addition to this real-time model of the system's electrical flow, the Company relies heavily upon the SCADA system it has in place. This includes the Dispatch Log System (an SQL database application), which serves to collect all events on SCADA-operable circuits. That data is then analyzed for momentary interruptions to establish state-level and circuit-level momentary interruption indices, per agreement with the Public Utility Commission of Oregon (OPUC) Staff.

Advanced Metering Infrastructure (AMI) System:

The Company has successfully implemented an Advanced Metering Infrastructure (AMI) system, enhancing its outage detection capabilities. This has led to the development of evolving strategies to eliminate false positives. While the Company has not yet observed significant effects on "metric uplift" that could hinder comparisons between past and future performance levels, it acknowledges the potential for such impacts in the future. The Company is also reviewing whether AMI data can replace momentary interruption reporting data; however, its development of these analytics is still underway.

New Developments:

As reported previously, the Company has implemented a new transmission outage reporting system, enhanced its automated processing of SCADA-based information, and is building new functionality in interfacing this information into its outage reporting system. This represents the ongoing efforts of the Company to improve its outage management and reporting capabilities.



Reliability Reporting: Interpreting Indices and Metrics

Reliability data, such as outage times, customer interruptions, and cause codes, is used to derive indices like System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), Customer Average Interruption Duration Index (CAIDI), and Momentary Average Interruption Frequency Index (MAIFI). These indices, standardized by the IEEE, are used by utilities to simplify complex data for reliability measurement and reporting.

For performance reporting as contained within this document¹, Pacific Power applies these indices at both the state and regional levels. These indices were first documented in IEEE Standard 1366-1998 and later updated in IEEE 1366-2003, 2012, and 2022. This standard was adopted in OAR 860-023 and all subsequent reports have complied with it.

Prior to 2012, major events excluded from performance were determined using the "10% of operating area customers" method, not the "2.5 beta" T_{Med} method of IEEE 1366. Therefore, year-on-year comparisons should be approached with caution.

Regional reporting areas were established using statistical tools to ensure performance met the assumptions of the major event thresholds in the standard. For the Customer Guarantee of the Performance Standards Program, exceptions may be determined based on state-level data.

¹ State administrative rules regarding service reliability were modified during 2011, which has resulted in significant modifications to this section of the report.

To devise circuit-level performance measures, Pacific Power conducted research to identify suitable metrics for ranking reliability investments to better serve customers. In 1999, Pacific Power implemented a balanced set of circuit performance indices (CPI⁹⁹) and methods that improve on those documented in IEEE 1366.

Circuit performance is reviewed annually against these metrics to select circuits for the Company's Worst Performing Feeders Program. Over time, as tools have evolved, the Company has focused its analysis at a sub-circuit level, optimizing cost against reliability metric improvements.

Reliability Tools: Improving Indices and Metrics

The Company uses reliability data to enhance service to its customers. Pacific Power has developed methods, as per the industry guide for electric reliability, IEEE 1782-2022², to analyze outage data in various formats like tables, graphs, and maps. This data helps develop projects that improve reliability.

These projects include the fuse coordination program (Fuse It or Lose It - FIOLI), the circuit hardening program (Saving SAIDI), and the capital construction program (Network Initiatives). Each project is evaluated for its potential to improve network reliability by reducing customer interruptions and is selected based on cost-effectiveness and alignment with budget and resource targets.

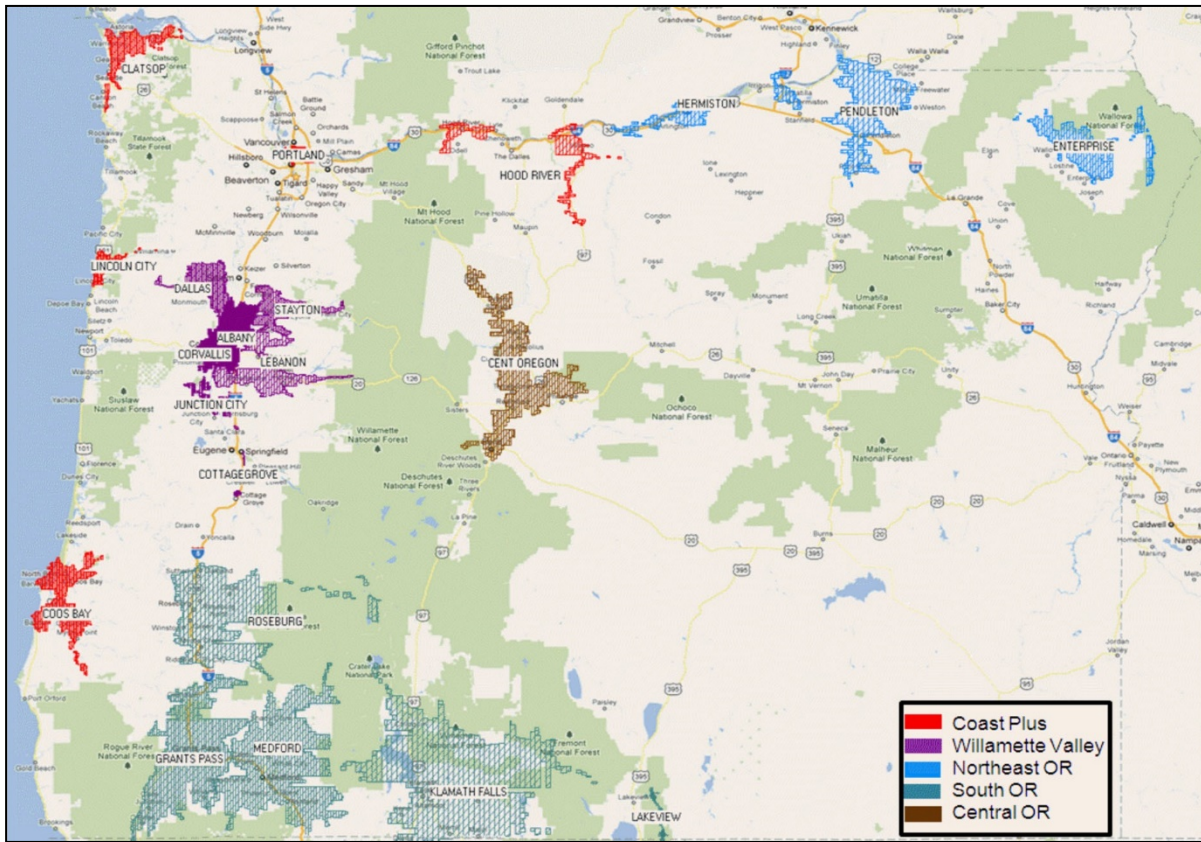
Pacific Power has also developed web-based notifications that alert when interrupting devices (like circuit breakers, reclosers, or fuses) operate more frequently than expected. This allows the engineering and operations teams to quickly assess and improve performance in that area of the system.

The Company conducts an annual reliability planning process, supplemented by interim updates. They also identify five "underperforming circuits" each year and report on their performance using blended reliability metrics (SAIDI, SAIFI, MAIFI, and breaker lockouts) to track changes over a five-year period. This process has proven effective based on a review of historical reliability performance. These circuits are discussed later in the document.

² IEEE-1782 (PE/T&D) Guide for Collecting, Categorizing and Utilization of Information Related to Electric Power Distribution Interruption Events was approved on May 13, 2022, and contains many of the approaches used by Pacific Power to evaluate system reliability and determine areas where improvements should be deployed.

Reliability Reporting Regions Map

The graphic below shows the grouping of operating areas into five reliability reporting regions.



Elevated Fire Risk Settings (EFR)³

As part of the Company's wildfire mitigation programs, the Company may use protection coordination settings, referred to as "Elevated Fire Risk" (EFR) settings, that more substantially affected distribution system performance than standard settings. In 2021, the Company developed a method to estimate the reliability impacts of the device setting changes. EFR settings are applied when fire weather conditions, such as high winds, low fuel moisture, elevated temperature, low relative humidity, and volatile fuels, are greatest. When EFR settings are used, certain operational responses may also differ, which may result in more sustained outage events and longer outage duration. The underlying metrics reported are reduced by the quantities shown below.

2023	Elevated Fire Risk Non-Major Event				Elevated Fire Risk During a Major Event			
Region	CML	CI	State SAIDI	State SAIFI	CML	CI	State SAIDI	State SAIFI
Central OR	3,341,149	28,990	5.31	0.046	882,727	4,871	1.40	0.008
Coast Plus	930,329	13,390	1.48	0.021	-	-	-	-
Northeast OR	1,021,551	10,864	1.62	0.017	-	-	-	-
South OR	32,795,340	224,077	52.11	0.356	3,059,652	8,162	4.86	0.013
Willamette Valley	5,084,788	32,958	8.08	0.052	-	-	-	-
Oregon	43,173,158	310,279	68.59	0.493	3,942,378	13,033	6.26	0.021

³ The Company uses the terminology of 'Elevated Fire Risk' (EFR) to denote instances when our circuits are operating under heightened sensitivity due to environmental conditions that could potentially increase the likelihood of a wildfire ignition.

Major Event Thresholds

Effective CY2012, the administrative rules were modified to replace the 10% of operating area customers methodology with IEEE 1366-2022 “2.5 beta” or T_{Med} methodology for determining major events. For Pacific Power’s service territory in Oregon, all operating areas were grouped into five reliability reporting regions and each reliability region’s threshold determined according to IEEE 1366-2022. The tables below depict the composition of each region and its threshold as used during 2023 and for application during 2024. Since certain major events may be filed as a statewide event, the state threshold and history are also supplied.

2023 Major Event Threshold			
Reliability Region	T_{Med} SAIDI	T_{Med} CMI	Operating Areas within Region
Central OR	6.90	618,295	Bend/Redmond, Madras
Coast Plus	14.14	2,266,070	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	13.67	354,802	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	13.82	3,141,383	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	16.81	2,124,801	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton
Oregon	7.50	4,723,224	

2024 Major Event Threshold			
Reliability Region	T_{Med} SAIDI	T_{Med} CMI	Operating Areas within Region
Central OR	6.53	602,414	Bend/Redmond, Madras
Coast Plus	14.09	2,271,077	Clatsop/Astoria, Coos Bay/Coquille, Hood River, Lincoln City, Portland
Northeast OR	18.26	490,361	Enterprise, Hermiston, Milton-Freewater, Pendleton, Walla Walla
South OR	15.54	3,566,684	Grants Pass, Klamath Falls, Lakeview, Medford, Roseburg/Myrtle Creek
Willamette Valley	18.53	2,375,041	Albany, Corvallis, Cottage Grove/J. City, Dallas/Independence, Lebanon, Stayton
Oregon	7.81	4,984,779	

The following table is a 5-year view of each region’s T_{Med} values.

Calendar Year	2024		2023		2022		2021		2020	
Region	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI	CMI	SAIDI
Central OR	602,414	6.53	618,295	6.90	571,191	6.45	507,120	5.80	482,924	5.71
Coast Plus	2,271,077	14.09	2,266,070	14.14	2,113,876	13.17	2,025,865	12.75	1,965,286	12.50
Northeast OR	490,361	18.26	354,802	13.67	301,314	11.60	294,942	11.43	305,107	11.94
South OR	3,566,684	15.54	3,141,383	13.82	3,264,851	14.35	3,275,975	14.51	3,354,813	14.83
Willamette Valley	2,375,041	18.53	2,124,801	16.81	2,142,956	16.95	2,066,210	16.47	2,156,406	17.42
Oregon	4,984,779	7.81	4,723,224	7.50	4,589,806	7.30	4,375,795	7.02	4,480,143	7.26

Major Events Excluded Report

Pacific Power filed written documentation for two Major Events in 2023 that were excluded from underlying reliability performance results. They are summarized in the table below.

Oregon 2023 Major Events - Written Filings									
Event Date	Description	CML	CI	OPUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
February 22-24, 2023	Winter Storm	3,747,507	8,360	Yes	14.1	23.4	6.0	0.013	448
March 2-3, 2023	Loss of Transmission (Equipment Failure)	3,121,772	4,368	Yes	14.1	19.5	5.0	0.007	715
TOTAL Oregon Major Events Filed		6,869,279	12,728				10.9	0.02	540

In addition, the Company excluded 7 events where CAIDI was less than five hours (300 CAIDI minutes), for which no filing is required according to the OARs.

Oregon 2023 Major Events - Low CAIDI (<300) No Filings									
Event Date	Description	CML	CI	OPUC Report Required	Region TMED	Region SAIDI	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
March 26-27 2023	Loss of Transmission Line	5,510,702	21,828	No	N/A	N/A	8.8	0.035	252
March 27-28, 2023	Equipment Failure	1,104,465	4,609	No	6.9	12.3	1.8	0.007	240
March 27-29, 2023	Loss of Transmission Line	3,484,151	17,921	No	13.7	15.3	5.5	0.028	194
April 29-30, 2023	Loss of Transmission Line	2,661,216	9,097	No	13.8	21.1	4.2	0.014	293
July 24-25, 2023	Animal Interference	882,727	4,871	No	6.9	9.9	1.4	0.008	181
August 15-19, 2023	Equipment Failure	10,652,114	38,634	No	13.7	46.9	16.9	0.061	276
October 12-13, 2023	Loss of Transmission Line	1,848,078	20,370	No	6.9	20.6	2.9	0.032	91
TOTAL Major Events with low CAIDI		26,143,453	117,330				41.5	0.186	223

Total Performance Summary

Oregon 2023 Major Events - Summary	CML	CI	OPUC Report Required	Oregon SAIDI	Oregon SAIFI	Oregon CAIDI
Oregon Total Performance - <u>Includes</u> Major Events	131,852,738	963,839	N/A	209.5	1.53	137
Total Oregon Major Events Filed	6,869,279	12,728	Yes	10.9	0.02	540
Total Major Events with low CAIDI (no filing required)	26,143,453	117,330	No	41.5	0.19	223
TOTAL MAJOR EVENTS EXCLUDED	33,012,732	130,058		52.5	0.21	254
Oregon Elevated Fire Risk (EFR) ³ - Included in Major Event Total ⁴	3,942,378	13,033	N/A	6.3	0.02	302
Oregon Elevated Fire Risk - Excluded from Underlying and not in Major Event Total	43,173,158	310,279	N/A	68.6	0.49	139
Oregon Underlying Events - <u>Excludes</u> Major Events and EFR	55,666,848	523,502		88.4	0.83	106

³ Elevated Fire Risk outages are excluded from Underlying Performance

⁴ Numbers are included in the total for the Major Events Excluded, and therefore already removed from the underlying metrics, with the subtraction of major events.

Targeted Reliability

The Company annually establishes a list of targeted reliability projects for which it calculates cost per forecast reliability improvements, expressed as mitigation costs factored by avoided customer minutes interrupted or \$/cmi. These projects often involve fuse coordination, circuit hardening (including animal, vehicle, and vegetation management efforts) and reconductoring. The current roster of projects intended to be constructed during 2024 are shown below.

District	Circuit ID#	Program Type	Year Initiated	Expected Completion	Project Notes
Albany	4M22	FIOLI	2022	2024	Verify and coordinate fusing and fuse taps in zones one and two
	4M16	FIOLI	2022	2024	FIOLI 2022 carryover
	4M15	UR	2023	2024	Install antennas for reclosures.
	4M25	FIOLI	2024	2024	Install two reclosures and reconductor 1,200 feet
Bend/Redmond	5D229	FIOLI	2022	2024	Verify and coordinate fusing and fuse taps in zone one
	5D25	FIOLI	2024	2024	Verify and coordinate fusing and fuse taps in zone one
Crescent City	5R167	UR	2024	2024	Reconductor river crossing
Grants Pass	5R53	Fault Indication	2024	2024	Install fault indicators at four locations and fuses in two locations
Klamath Falls	5L105	FIOLI	2021	2024	Replace one recloser
	5L20	FIOLI	2023	2024	Replace three Fusesavers with reclosers
	4L16	FIOLI	2022	2024	Replace one recloser
Lebanon	4M63	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zones two and three
	4M204	FIOLI	2023	2024	Verify and coordinate fusing and fuse taps in zones two and three
Pendleton	5W202	FIOLI	2022	2024	Install six sets of Fusesavers and coordinate
	5W201	FIOLI	2022	2024	Install three reclosers and one Fusesaver and coordinate
	5W402	FIOLI	2024	2024	Install two reclosers and four Fusesavers and coordinate
	5W46	FIOLI	2023	2024	Replace three Fusesavers with reclosers
Stayton	4M19	FIOLI	2023	2024	Install new recloser and coordinate protection
	4M120	Circuit Hardening	2024	2024	Install visibility strips and pole protection
	4M50	FIOLI	2023	2024	Install fuses in zone one
Yakima	5Y131	Fault Indication	2024	2024	Install fault indicators

Under-Performing Circuits

After the completion of the development of reliability improvement plans (as discussed above), the Company evaluates those circuits whose blended reliability scores rank low, using its Circuit Performance Indicator (CPI). This is the primary basis for the next year’s Worst Performing Feeders element of its Targeted Reliability Program. CPI is an acronym for Circuit Performance Indicator, which uses 3-year weighted reliability metrics of the circuit to identify underperformance. The Company targets a 20% average improvement in this metric to validate its effectiveness. The application of CPI⁹⁹ proved to demonstrate more consistently how performance comparisons could be made. The variables and equation for calculating CPI are:

$$\text{CPI} = \text{Index} * ((\text{SAIDI} * \text{WF} * \text{NF}) + (\text{SAIFI} * \text{WF} * \text{NF}) + (\text{MAIFI} * \text{WF} * \text{NF}) + (\text{Lockouts} * \text{WF} * \text{NF}))$$

Index: 10.645

SAIDI: Weighting Factor 0.30, Normalizing Factor 0.029

SAIFI: Weighting Factor 0.30, Normalizing Factor 2.439

MAIFI: Weighting Factor 0.20, Normalizing Factor 0.70

Lockouts: Weighting Factor 0.20, Normalizing Factor 2.00

Therefore, $10.645 * ((3\text{-year SAIDI} * 0.30 * 0.029) + (3\text{-year SAIFI} * 0.30 * 2.439) + (3\text{-year MAIFI} * 0.20 * 0.70) + (3\text{-year breaker lockouts} * 0.20 * 2.00)) = \text{CPI Score}$

The following distribution feeders were selected as under-performing based on CPI scores ending December 31, 2023, and identified as Program Year 2024 circuits in the Network Initiatives program:

Program Year 2024 UNDER-PERFORMING CIRCUITS				
CIRCUIT ID	CIRCUIT NAME	KV	OPERATING AREA	CPI ⁹⁹
4M22	Rickreal	20.8	Dallas/Independence	68
4M25	Buena Vista	20.8	Dallas/Independence	151
4M204	Crowfoot	20.8	Lebanon	257
5W201	Pilot Rock City	12.5	Pendleton	67
5R62	Wild Prairie	12.5	Grants Pass	167
TARGET SCORE				114

The status of prior years' underperforming circuits is shown in the following table. (Targets for Program Years 1-10 were met and filed previously.)

UNDER-PERFORMING CIRCUITS				
CIRCUIT ID	CIRCUIT NAME	OPERATING AREA	BASELINE	PERFORMANCE 12/31/23
Circuit Performance Indicator (CPI⁹⁹)				
Program Year 24 (2023):				
5R267	Murphy	Grants Pass	166	164
5L14	Town	Klamath Falls	133	161
4K46	Boeing	Hermiston	117	130
5A10	Haystack	Astoria	108	264
4C50	Bunker Hill	Coos Bay	74	71
TARGET SCORE = 120			120	157
Program Year 23 (2022):				
5R52	Free & Easy	Grants Pass	93	166
5L19	Lakeshore	Klamath Falls	83	81
4M63	Tennessee	Lebanon	156	127
4A338	Siuslaw	Lincoln City	207	155
5U920	Diamond Lake	Roseburg/Myrtle Creek	562	455
TARGET SCORE = 176			220	189
Program Year 22 (2021):				
4M15	Ferry	Albany	118	41
5R114	Fruitdale	Grants Pass	136	74
5R287	Hummingbird	Medford	163	86
4K1	Sherman 208	Hood River	73	93
4M16	Water Street	Albany	87	52
TARGET MET			TARGET SCORE = 92	116
Program Year 21 (2020):				
4C37	Maple Street	Myrtle Point	43	61
4M17	Calapooia	Brownsville	158	51
4M243	Scrael Hill	Murder Creek	136	94
5P288	Cully #3-UG	Cully	74	26
5R245	Valley View	Ashland (Mtn. Ave., PUD)	78	57
TARGET MET			TARGET SCORE = 78	98
Program Year 20 (2019):				
5L43	Dairy	Klamath Falls	101	123
5R133	Glendale	Grants Pass	163	343
4M201	Industrial	Dallas/Independence	1,413	37
5A16	Mill (Warrenton)	Clatsop (Astoria)	129	93
5R63	Wood River	Grants Pass	143	189
TARGET MET			TARGET SCORE = 312	390

Oregon Five-Year Reliability Reporting Region Metrics

Excluding Major Events																								
Year	SAIDI						SAIFI						MAIFI _E						CAIDI					
	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON
2023	68	92	129	257	188	169	0.54	0.98	1.40	1.99	1.35	1.37	0.35	0.39	0.71	0.63	0.35	0.48	125	94	92	129	139	123
2022	53	125	111	185	116	134	0.41	0.93	1.03	1.52	1.04	1.10	0.31	0.43	0.83	0.51	0.28	0.43	128	134	107	122	111	122
2021	53	111	93	107	140	106	0.47	0.88	0.75	0.93	1.33	0.93	0.84	0.36	2.76	1.73	2.03	1.07	115	126	124	115	105	115
2020	44	105	96	129	133	111	0.29	1.19	1.02	1.03	1.15	1.00	2.20	0.77	0.37	0.83	0.79	0.99	148	88	95	125	116	111
2019	30	114	84	119	139	108	0.23	1.11	0.54	1.08	1.17	0.97	1.50	1.56	3.46	1.71	2.92	1.92	134	102	154	110	119	112

Including Major Events																								
Year	SAIDI						SAIFI						MAIFI _E						CAIDI					
	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON	Central OR	Coast Plus	Northeast OR	South OR	Willamette Valley	OREGON
2023	111	133	131	312	209	209	0.87	1.05	1.41	2.21	1.41	1.53	0.35	0.39	0.71	0.67	0.37	0.49	127	126	93	141	148	137
2022	110	441	394	316	243	307	1.09	1.98	2.52	1.79	1.54	1.72	0.38	0.67	0.99	0.57	0.40	0.55	100	223	156	176	158	179
2021	143	446	138	196	1204	452	0.82	1.77	0.95	1.73	2.26	1.69	0.84	0.36	2.76	1.73	2.03	1.07	173	252	146	113	533	268
2020	229	388	261	434	270	354	0.64	1.97	1.79	1.63	1.94	1.65	2.20	0.77	0.37	0.83	0.79	0.99	360	197	146	267	139	215
2019	85	189	91	772	340	416	0.85	1.50	0.56	1.75	1.47	1.46	1.50	1.56	3.46	1.71	2.92	1.92	100	126	163	441	232	285

Oregon Five-Year Customer Count by Reliability Region and Operating Area

Region	Op Area	CY 2023	CY 2022	CY 2021	CY 2020	CY 2019
Central OR	BEND/REDMOND	71,536	70,760	69,733	67,328	67,495
Central OR	MADRAS	18,058	17,853	17,692	17,235	17,312
Central OR		89,594	88,613	87,425	84,563	84,807
CoastPlus	CLATSOP (ASTORIA)	25,424	25,504	25,251	25,031	25,060
CoastPlus	COOS BAY/COQUILLE	26,193	26,647	26,382	26,390	26,606
CoastPlus	HOOD RIVER	9,620	9,691	9,595	9,546	9,668
CoastPlus	LINCOLN CITY	12,424	12,201	12,080	12,330	12,280
CoastPlus	PORTLAND	86,563	86,489	85,630	83,892	82,618
CoastPlus		160,224	160,532	158,938	157,189	156,232
Northeast OR	ENTERPRISE	5,596	5,568	5,531	5,476	5,510
Northeast OR	HERMISTON	5,073	4,995	4,906	4,829	4,802
Northeast OR	MILTON/FREEWATER	-	-	-	-	-
Northeast OR	PENDLETON	12,965	13,086	13,036	12,943	13,044
Northeast OR	WALLA WALLA OR	2,320	2,320	2,320	2,312	1,902
Northeast OR		25,954	25,969	25,793	25,560	25,258
South OR	GRANTS PASS	52,482	52,761	52,543	52,143	52,457
South OR	KLAMATH FALLS	38,005	38,185	38,015	37,763	38,097
South OR	LAKEVIEW	2,427	2,444	2,443	2,412	2,450
South OR	MEDFORD	91,264	90,781	89,893	91,033	91,202
South OR	ROSEBURG/MYRTLECREEK	43,066	43,303	42,940	42,857	42,952
South OR		227,244	227,474	225,834	226,208	227,158
Willamette Valley	ALBANY	32,912	32,938	32,925	32,228	32,471
Willamette Valley	CORVALLIS	30,613	30,825	30,457	29,956	29,875
Willamette Valley	COTTAGE GROVE/J.CITY	11,336	11,419	11,390	11,322	11,331
Willamette Valley	DALLAS/INDEPENDENCE	16,195	16,098	15,858	15,581	15,547
Willamette Valley	LEBANON	21,439	21,227	21,085	20,901	21,068
Willamette Valley	STAYTON	13,887	13,933	13,707	13,825	13,915
Willamette Valley		126,382	126,440	125,422	123,813	124,207
Oregon		629,398	629,028	623,412	617,333	617,662

Oregon Five-Year Cause Analysis by State

OAR Cause	2019 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	617,662	155	7,680,620	149,652	12.43	0.242	51	282	68,975,629	293,620	111.67	0.475	235
B Loss of Supply - Substation	617,662	19	2,500,151	28,222	4.05	0.046	89	29	9,068,740	45,069	14.68	0.073	201
C Distribution - Equipment	617,662	3,122	15,729,005	105,719	25.47	0.171	149	3,358	19,665,070	110,712	31.84	0.179	178
D Distribution - Lightning	617,662	202	1,155,702	5,689	1.87	0.009	203	232	2,130,831	9,258	3.45	0.015	230
E Distribution - Planned	617,662	3,192	13,298,653	106,917	21.53	0.173	124	3,299	15,216,761	121,375	24.64	0.197	125
F Distribution - Public	617,662	353	7,951,803	59,839	12.87	0.097	133	366	8,389,819	62,584	13.58	0.101	134
G Distribution - Vegetation	617,662	914	16,377,247	94,003	26.51	0.152	174	1,472	49,538,031	129,618	80.20	0.210	382
H Distribution - Weather	617,662	216	3,375,682	17,743	5.47	0.029	190	724	81,353,803	84,459	131.71	0.137	963
I Distribution - Wildlife	617,662	802	2,514,079	22,863	4.07	0.037	110	808	2,524,756	22,982	4.09	0.037	110
J Distribution - Unknown	617,662	796	6,207,698	62,453	10.05	0.101	99	842	8,157,134	74,258	13.21	0.120	110
K Distribution - Other	617,662	231	973,621	14,908	1.58	0.024	65	284	2,795,825	19,774	4.53	0.032	141
Grand Total	617,662	10,002	77,764,262	668,008	125.90	1.082	116	11,696	267,816,401	973,709	433.60	1.576	275

OAR Cause	2020 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	617,333	129	11,351,096	157,078	18.39	0.254	72	217	38,070,885	287,784	61.67	0.466	132
B Loss of Supply - Substation	617,333	15	1,296,634	9,177	2.10	0.015	141	19	2,788,875	13,373	4.52	0.022	209
C Distribution - Equipment	617,333	3,086	12,984,979	90,670	21.03	0.147	143	3,421	18,019,512	109,423	29.19	0.177	165
D Distribution - Lightning	617,333	65	131,200	1,206	0.21	0.002	109	164	2,088,273	6,013	3.38	0.010	347
E Distribution - Planned	617,333	4,586	13,209,282	100,049	21.40	0.162	132	4,853	138,107,823	138,859	223.72	0.225	995
F Distribution - Public	617,333	442	12,711,604	79,546	20.59	0.129	160	475	14,391,245	88,684	23.31	0.144	162
G Distribution - Vegetation	617,333	920	12,991,558	92,038	21.04	0.149	141	1,595	50,451,924	154,242	81.73	0.250	327
H Distribution - Weather	617,333	167	2,590,978	18,273	4.20	0.030	142	764	47,500,323	151,750	76.94	0.246	313
I Distribution - Wildlife	617,333	956	3,614,105	34,932	5.85	0.057	103	1,069	3,820,365	36,536	6.19	0.059	105
J Distribution - Unknown	617,333	809	4,858,982	63,074	7.87	0.102	77	909	5,554,994	67,607	9.00	0.110	82
K Distribution - Other	617,333	269	1,977,895	26,663	3.20	0.042	76	392	29,380,754	43,294	47.59	0.070	679
Grand Total	617,333	11,444	77,718,312	672,106	125.89	1.089	116	13,878	350,174,974	1,097,565	567.24	1.778	319

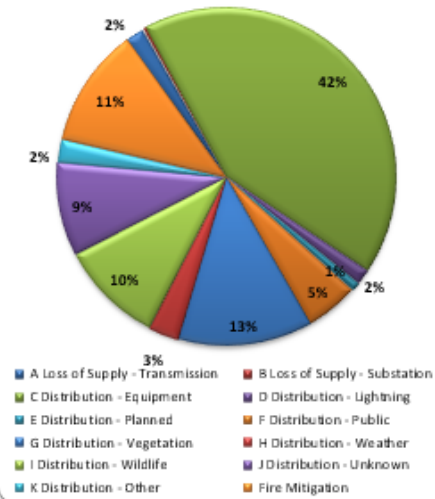
OAR Cause	2021 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	623,412	112	4,957,564	134,134	7.88	0.213	37	157	9,569,219	192,385	15.21	0.306	50
B Loss of Supply - Substation	623,412	27	1,991,671	42,617	3.17	0.068	47	142	10,203,423	195,219	16.22	0.310	52
C Distribution - Equipment	623,412	2,812	17,110,003	100,358	27.20	0.160	170	3,211	20,369,734	117,020	32.38	0.186	174
D Distribution - Lightning	623,412	68	363,538	1,758	0.58	0.003	207	70	386,087	1,829	0.61	0.003	211
E Distribution - Planned	623,412	4,653	15,391,625	136,062	24.47	0.216	113	4,938	22,677,038	163,254	36.05	0.260	139
F Distribution - Public	623,412	447	13,195,237	70,668	20.98	0.112	187	472	13,576,227	72,693	21.58	0.116	187
G Distribution - Vegetation	623,412	1,010	14,560,351	77,724	23.15	0.124	187	2,263	126,130,900	198,963	200.52	0.316	634
H Distribution - Weather	623,412	246	1,771,848	9,358	2.82	0.015	189	897	75,952,683	95,902	120.75	0.152	792
I Distribution - Wildlife	623,412	936	2,302,202	27,927	3.66	0.044	82	963	2,420,648	29,005	3.85	0.046	83
J Distribution - Unknown	623,412	927	4,429,144	45,550	7.04	0.072	97	1,035	6,826,446	53,988	10.85	0.086	126
K Distribution - Other	623,412	359	1,152,255	17,655	1.83	0.028	65	429	5,554,360	24,141	8.83	0.038	230
Fire Mitigation	623,412	46	2,915,495	17,470	4.63	0.028	167	50	3,649,082	21,075	5.80	0.034	173
Grand Total	623,412	11,444	77,718,312	672,106	123.55	1.068	116	13,878	350,174,974	1,097,565	556.69	1.745	319

OAR Cause	2022 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	629,028	138	2,860,424	23,431	4.55	0.04	122	282	5,473,054	49,483	8.70	0.08	111
B Loss of Supply - Substation	629,028	76	1,917,290	12,750	3.05	0.02	150	86	1,988,561	14,180	3.16	0.02	140
C Distribution - Equipment	629,028	3,233	52,362,973	283,245	83.24	0.45	185	3,495	56,679,592	308,570	90.11	0.49	184
D Distribution - Lightning	629,028	90	1,131,764	12,021	1.80	0.02	94	125	1,270,397	12,768	2.02	0.02	99
E Distribution - Planned	629,028	497	11,024,332	48,414	17.53	0.08	228	540	11,311,429	51,801	17.98	0.08	218
F Distribution - Public	629,028	503	13,787,043	71,405	21.92	0.11	193	519	14,044,387	76,664	22.33	0.12	183
G Distribution - Vegetation	629,028	957	24,814,833	122,552	39.45	0.19	202	1,773	47,089,215	238,861	74.86	0.38	197
H Distribution - Weather	629,028	223	3,964,430	23,893	6.30	0.04	166	674	14,489,268	85,671	23.03	0.14	169
I Distribution - Wildlife	629,028	915	13,638,751	65,024	21.68	0.10	210	931	13,989,076	68,646	22.24	0.11	204
J Distribution - Unknown	629,028	992	14,354,355	73,279	22.82	0.12	196	1,110	16,084,634	85,607	25.57	0.14	188
K Distribution - Other	629,028	325	4,599,562	25,633	7.31	0.04	179	359	5,135,089	35,426	8.16	0.06	145
Fire Mitigation	629,028	62	4,364,229	43,020	6.94	0.07	101	82	5,784,813	54,397	9.20	0.09	106
Grand Total	629,028	8,011	148,819,987	804,667	236.59	1.279	185	9,976	193,339,516	1,082,074	307.36	1.720	179

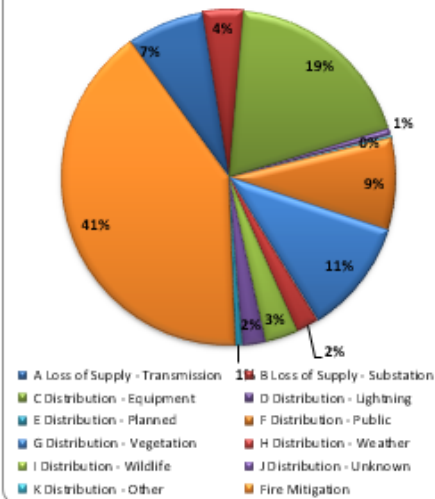
Oregon Five-Year Cause Analysis by State

OAR Cause	2023 - State												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	629,398	133	7,948,214	161,379	12.6	0.26	49	181	23,073,204	230,413	36.7	0.37	100
B Loss of Supply - Substation	629,398	26	4,166,878	30,384	6.6	0.05	137	26	4,166,878	30,384	6.6	0.05	137
C Distribution - Equipment	629,398	3,064	20,140,016	119,093	32.0	0.19	169	3,116	21,683,975	125,678	34.5	0.20	173
D Distribution - Lightning	629,398	105	659,702	4,524	1.0	0.01	146	105	659,702	4,524	1.0	0.01	146
E Distribution - Planned	629,398	59	295,322	8,536	0.5	0.01	35	62	342,081	8,718	0.5	0.01	39
F Distribution - Public	629,398	375	9,404,229	55,737	14.9	0.09	169	380	9,509,638	56,047	15.1	0.09	170
G Distribution - Vegetation	629,398	929	11,688,707	80,784	18.6	0.13	145	1,021	14,187,004	85,734	22.5	0.14	165
H Distribution - Weather	629,398	212	2,393,392	14,101	3.8	0.02	170	248	4,566,780	17,947	7.3	0.03	254
I Distribution - Wildlife	629,398	718	3,389,398	30,144	5.4	0.05	112	719	3,409,904	30,596	5.4	0.05	111
J Distribution - Unknown	629,398	655	2,326,777	27,566	3.7	0.04	84	668	2,418,201	27,972	3.8	0.04	86
K Distribution - Other	629,398	160	718,762	22,424	1.1	0.04	32	163	719,835	22,427	1.1	0.04	32
Fire Mitigation	629,398	827	43,173,158	310,279	68.6	0.49	139	847	47,115,536	323,312	74.9	0.51	146
Grand Total	629,398	7,263	106,304,555	864,951	168.9	1.37	123	7,536	131,852,738	963,752	209.5	1.53	137

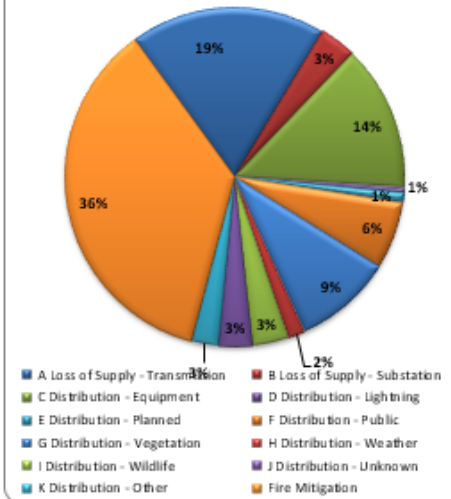
2023 Cause Analysis - Incident Count Major Events Excluded



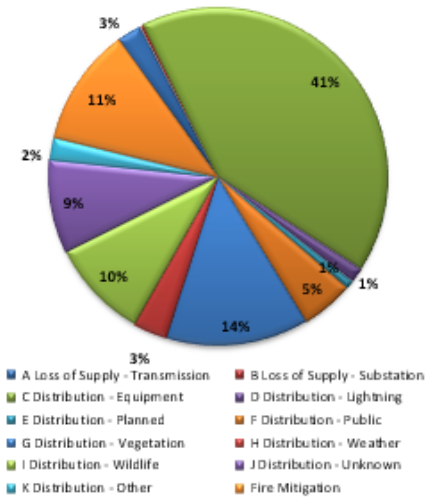
2023 Cause Analysis - SAIDI Major Events Excluded



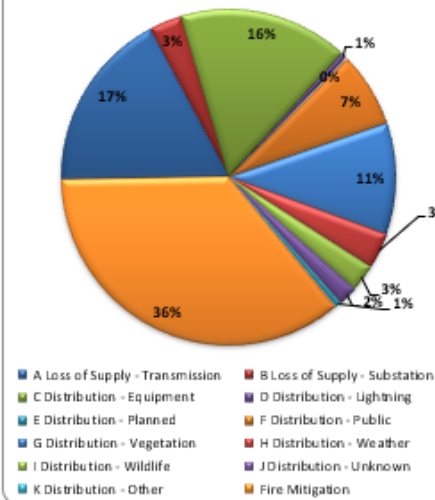
2023 Cause Analysis - SAIFI Major Events Excluded



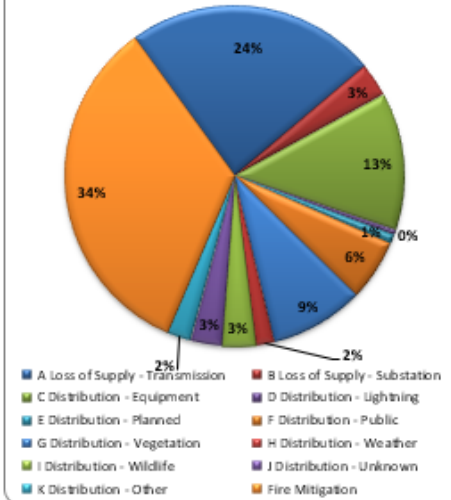
2023 Cause Analysis - Incident Count Major Events Included



2023 Cause Analysis - SAIDI Major Events Included



2023 Cause Analysis - SAIFI Major Events Included



Central Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2019 - Central Oregon Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	84,807	1	237	1	0.00	0.000	237	34	2,897,811	43,515	34.17	0.513	67
B Loss of Supply - Substation	84,807	-	-	-	-	-	-	-	-	-	-	-	-
C Distribution - Equipment	84,807	376	1,534,952	9,519	18.10	0.112	161	413	1,657,971	10,186	19.55	0.120	163
D Distribution - Lightning	84,807	27	253,286	1,227	2.99	0.014	206	57	1,228,415	4,796	14.48	0.057	256
E Distribution - Planned	84,807	119	1,161,191	7,670	13.69	0.090	151	124	1,164,810	7,725	13.73	0.091	151
F Distribution - Public	84,807	33	250,579	2,475	2.95	0.029	101	35	253,953	2,490	2.99	0.029	102
G Distribution - Vegetation	84,807	23	76,126	431	0.90	0.005	177	42	310,416	2,475	3.66	0.029	125
H Distribution - Weather	84,807	8	37,400	141	0.44	0.002	265	15	201,614	1,556	2.38	0.018	130
I Distribution - Wildlife	84,807	59	265,218	1,830	3.13	0.022	145	60	266,186	1,841	3.14	0.022	145
J Distribution - Unknown	84,807	47	60,139	491	0.71	0.006	122	55	302,294	2,468	3.56	0.029	122
K Distribution - Other	84,807	18	43,803	2,411	0.52	0.028	18	18	43,803	2,411	0.52	0.028	18
Grand Total	84,807	711	3,682,930	26,196	43.43	0.309	141	853	8,327,273	79,463	98.19	0.937	105

OAR Cause	2020 - Central Oregon Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	84,563	1	317,579	982	3.76	0.012	323	4	3,988,828	6,197	47.17	0.073	644
B Loss of Supply - Substation	84,563	-	-	-	-	-	-	-	-	-	-	-	-
C Distribution - Equipment	84,563	306	1,412,552	6,739	16.70	0.080	210	343	2,232,911	10,195	26.41	0.121	219
D Distribution - Lightning	84,563	19	18,933	175	0.22	0.002	108	28	192,756	334	2.28	0.004	577
E Distribution - Planned	84,563	336	1,080,090	10,813	12.77	0.128	100	356	1,120,178	12,012	13.25	0.142	93
F Distribution - Public	84,563	46	778,277	6,716	9.20	0.079	116	53	1,856,853	10,573	21.96	0.125	176
G Distribution - Vegetation	84,563	32	67,848	414	0.80	0.005	164	72	3,313,299	7,677	39.18	0.091	432
H Distribution - Weather	84,563	12	39,065	315	0.46	0.004	124	57	6,654,735	7,895	78.70	0.093	843
I Distribution - Wildlife	84,563	89	48,332	537	0.57	0.006	90	92	49,029	544	0.58	0.006	90
J Distribution - Unknown	84,563	58	308,623	3,283	3.65	0.039	94	61	349,438	3,585	4.13	0.042	97
K Distribution - Other	84,563	34	463,740	2,066	5.48	0.024	224	39	464,812	2,078	5.50	0.025	224
Grand Total	84,563	933	4,535,040	32,040	53.63	0.379	142	1,105	20,222,841	61,090	239.15	0.722	331

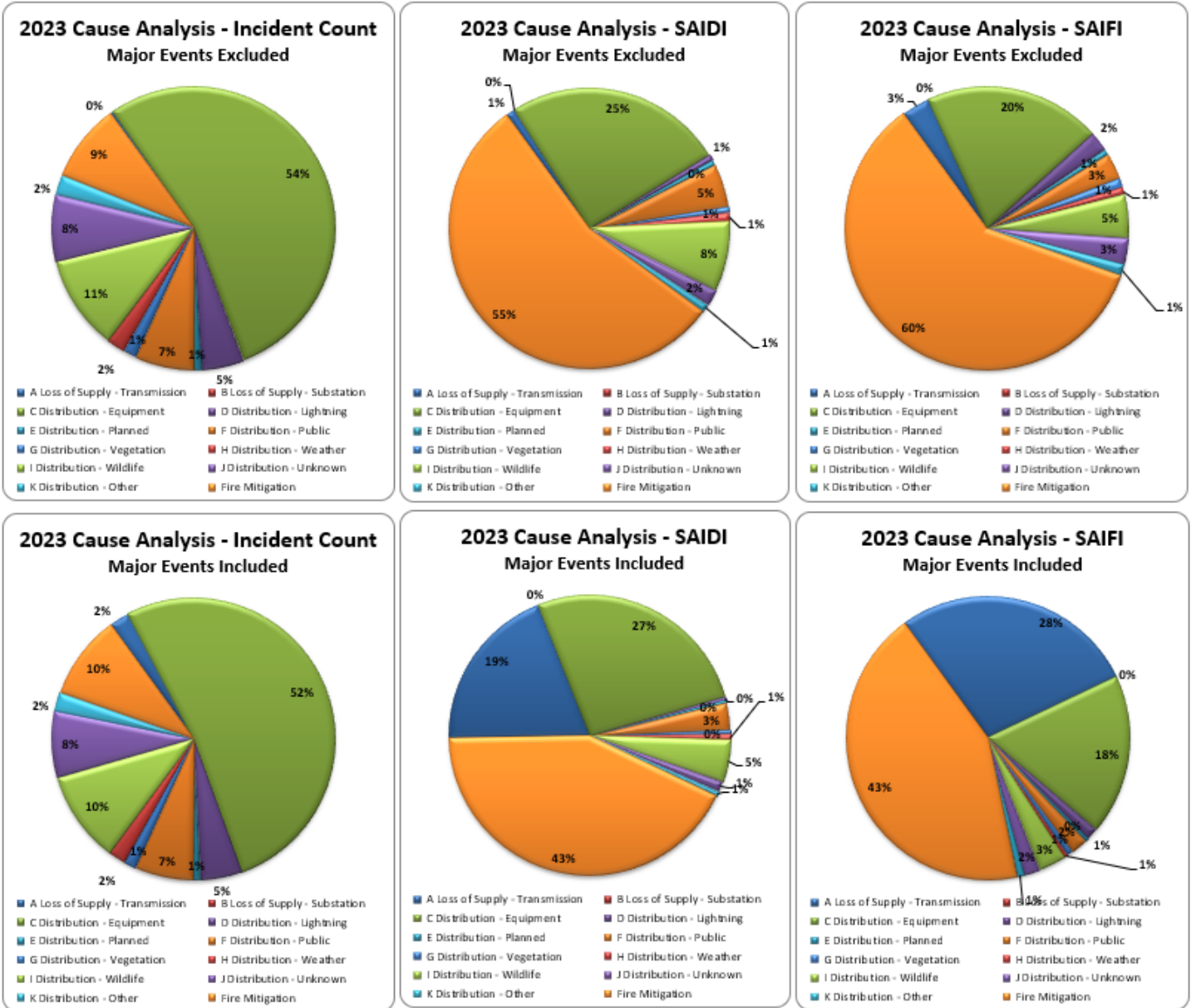
Central Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Central Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	87,425	1	21,846	996	0.25	0.011	22	9	644,546	13,344	7.37	0.153	48	
B Loss of Supply - Substation	87,425	6	383,828	6,786	4.39	0.078	-	7	849,567	9,723	9.72	0.111	-	
C Distribution - Equipment	87,425	305	1,637,048	9,162	18.73	0.105	179	348	2,358,135	12,519	26.97	0.143	188	
D Distribution - Lightning	87,425	10	2,730	16	0.03	0.000	171	12	25,279	87	0.29	0.001	291	
E Distribution - Planned	87,425	440	2,866,748	17,095	32.79	0.196	168	453	3,082,960	17,925	35.26	0.205	172	
F Distribution - Public	87,425	49	1,165,539	7,337	13.33	0.084	159	55	1,205,622	7,565	13.79	0.087	159	
G Distribution - Vegetation	87,425	28	174,088	670	1.99	0.008	260	46	3,922,578	6,339	44.87	0.073	619	
H Distribution - Weather	87,425	16	104,897	738	1.20	0.008	142	32	1,416,193	3,650	16.20	0.042	388	
I Distribution - Wildlife	87,425	95	524,193	8,001	6.00	0.092	66	97	524,579	8,005	6.00	0.092	66	
J Distribution - Unknown	87,425	68	212,976	1,371	2.44	0.016	155	81	633,054	3,885	7.24	0.044	163	
K Distribution - Other	87,425	21	229,256	1,494	2.62	0.017	153	24	457,091	2,077	5.23	0.024	220	
Fire Mitigation	87,425	4	686,737	3,839	7.86	0.044	179	7	1,192,697	6,719	13.64	0.077	178	
Grand Total	87,425	1,043	8,009,884	57,505	91.62	0.658	139	1,171	16,312,602	91,838	186.59	1.050	178	

OAR Cause	2022 - Central Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	88,613	29	1,031,577	12,980	11.64	0.15	79	44	1,415,830	16,884	15.98	0.19	84	
B Loss of Supply - Substation	88,613	25	1,098,936	8,788	12.40	0.10	125	28	1,147,420	10,110	12.95	0.11	113	
C Distribution - Equipment	88,613	261	1,622,664	12,313	18.31	0.14	132	281	1,662,393	12,554	18.76	0.14	132	
D Distribution - Lightning	88,613	4	3,103	24	0.04	0.00	129	7	3,286	26	0.04	0.00	126	
E Distribution - Planned	88,613	52	1,194,323	12,837	13.48	0.14	93	58	1,206,654	12,959	13.62	0.15	93	
F Distribution - Public	88,613	66	931,237	7,995	10.51	0.09	116	68	1,114,458	10,732	12.58	0.12	104	
G Distribution - Vegetation	88,613	92	674,736	5,832	7.61	0.07	116	160	1,126,957	14,940	12.72	0.17	75	
H Distribution - Weather	88,613	17	44,077	351	0.50	0.00	126	60	533,715	5,156	6.02	0.06	104	
I Distribution - Wildlife	88,613	50	670,952	6,471	7.57	0.07	104	50	670,952	6,471	7.57	0.07	-	
J Distribution - Unknown	88,613	76	354,660	4,171	4.00	0.05	85	80	366,038	4,321	4.13	0.05	85	
K Distribution - Other	88,613	32	467,602	2,716	5.28	0.03	172	36	487,425	2,813	5.50	0.03	173	
Fire Mitigation	88,613	-	-	-	-	-	-	-	-	-	-	-	-	
Grand Total	88,613	704	8,093,868	74,478	91.34	0.840	109	872	9,735,130	96,966	109.86	1.094	100	

OAR Cause	2023 - Central Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	89,594	2	61,809	1,535	0.7	0.02	40	15	1,903,037	21,869	21.2	0.24	87	
B Loss of Supply - Substation	89,594	-	-	-	-	-	-	-	-	-	-	-	-	
C Distribution - Equipment	89,594	332	1,535,491	9,847	17.1	0.11	156	335	2,634,944	14,271	29.4	0.16	185	
D Distribution - Lightning	89,594	30	45,638	1,082	0.5	0.01	42	30	45,638	1,082	0.5	0.01	42	
E Distribution - Planned	89,594	6	38,176	322	0.4	0.00	119	6	38,176	322	0.4	0.00	119	
F Distribution - Public	89,594	41	301,787	1,453	3.4	0.02	208	42	301,804	1,454	3.4	0.02	208	
G Distribution - Vegetation	89,594	9	38,979	551	0.4	0.01	71	9	38,979	551	0.4	0.01	71	
H Distribution - Weather	89,594	13	64,454	379	0.7	0.00	170	13	64,454	379	0.7	0.00	170	
I Distribution - Wildlife	89,594	67	481,952	2,396	5.4	0.03	201	67	481,952	2,396	5.4	0.03	201	
J Distribution - Unknown	89,594	47	111,641	1,455	1.2	0.02	77	49	112,763	1,468	1.3	0.02	77	
K Distribution - Other	89,594	14	61,346	644	0.7	0.01	95	14	61,346	644	0.7	0.01	95	
Fire Mitigation	89,594	55	3,341,149	28,990	37.3	0.32	115	62	4,223,876	33,861	47.1	0.38	125	
Grand Total	89,594	616	6,082,422	48,654	67.9	0.54	125	642	9,906,969	78,297	110.6	0.87	127	

Central Oregon Reporting Region Five-Year Cause Analysis



CoastPlus Reporting Region Five-Year Cause Analysis

OAR Cause	2019 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	156,232	65	2,912,493	74,715	18.64	0.478	39	65	3,144,203	80,837	20.13	0.517	39	
B Loss of Supply - Substation	156,232	-	-	-	-	-	-	12	4,817,144	21,842	30.83	0.140	221	
C Distribution - Equipment	156,232	763	2,658,320	21,336	17.02	0.137	125	821	5,859,739	35,834	37.51	0.229	164	
D Distribution - Lightning	156,232	14	27,593	110	0.18	0.001	251	14	78,416	345	0.50	0.002	227	
E Distribution - Planned	156,232	481	7,634,839	34,849	48.87	0.223	219	653	6,571,881	43,778	42.06	0.280	150	
F Distribution - Public	156,232	63	1,331,852	6,185	8.52	0.040	215	67	1,892,691	12,120	12.11	0.078	156	
G Distribution - Vegetation	156,232	338	2,740,342	19,573	17.54	0.125	140	372	6,972,735	28,906	44.63	0.185	241	
H Distribution - Weather	156,232	47	799,281	4,121	5.12	0.026	194	98	3,522,477	14,588	22.55	0.093	241	
I Distribution - Wildlife	156,232	99	314,522	3,154	2.01	0.020	100	108	789,529	4,962	5.05	0.032	159	
J Distribution - Unknown	156,232	87	717,843	7,421	4.59	0.047	97	95	1,424,702	16,717	9.12	0.107	85	
K Distribution - Other	156,232	53	1,067,465	8,335	6.83	0.053	128	47	178,479	4,355	1.14	0.028	41	
Grand Total	156,232	2,010	20,204,551	179,799	129.32	1.151	112	2,352	35,251,996	264,284	225.64	1.692	133	

OAR Cause	2020 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	157,189	43	2,571,426	75,441	16.36	0.480	34	81	12,574,356	137,438	80.00	0.874	91	
B Loss of Supply - Substation	157,189	-	-	-	-	-	-	2	738,370	991	4.70	0.006	745	
C Distribution - Equipment	157,189	766	3,263,393	29,436	20.76	0.187	111	822	3,870,450	32,357	24.62	0.206	120	
D Distribution - Lightning	157,189	8	36,634	459	0.23	0.003	80	11	53,086	465	0.34	0.003	114	
E Distribution - Planned	157,189	833	3,050,080	24,282	19.40	0.154	126	877	31,847,588	34,434	202.61	0.219	925	
F Distribution - Public	157,189	108	2,263,278	14,813	14.40	0.094	153	115	2,496,941	18,202	15.88	0.116	137	
G Distribution - Vegetation	157,189	297	4,805,105	33,413	30.57	0.213	144	458	10,426,274	55,196	66.33	0.351	189	
H Distribution - Weather	157,189	41	823,032	3,971	5.24	0.025	207	100	8,069,226	22,502	51.33	0.143	359	
I Distribution - Wildlife	157,189	95	715,713	9,044	4.55	0.058	79	101	726,824	9,088	4.62	0.058	80	
J Distribution - Unknown	157,189	100	728,075	7,734	4.63	0.049	94	117	781,370	8,099	4.97	0.052	96	
K Distribution - Other	157,189	51	359,441	5,429	2.29	0.035	66	87	20,008,230	16,905	127.29	0.108	1,184	
Grand Total	157,189	2,342	18,616,177	204,022	118.43	1.298	91	2,771	91,592,715	335,677	582.69	2.135	273	

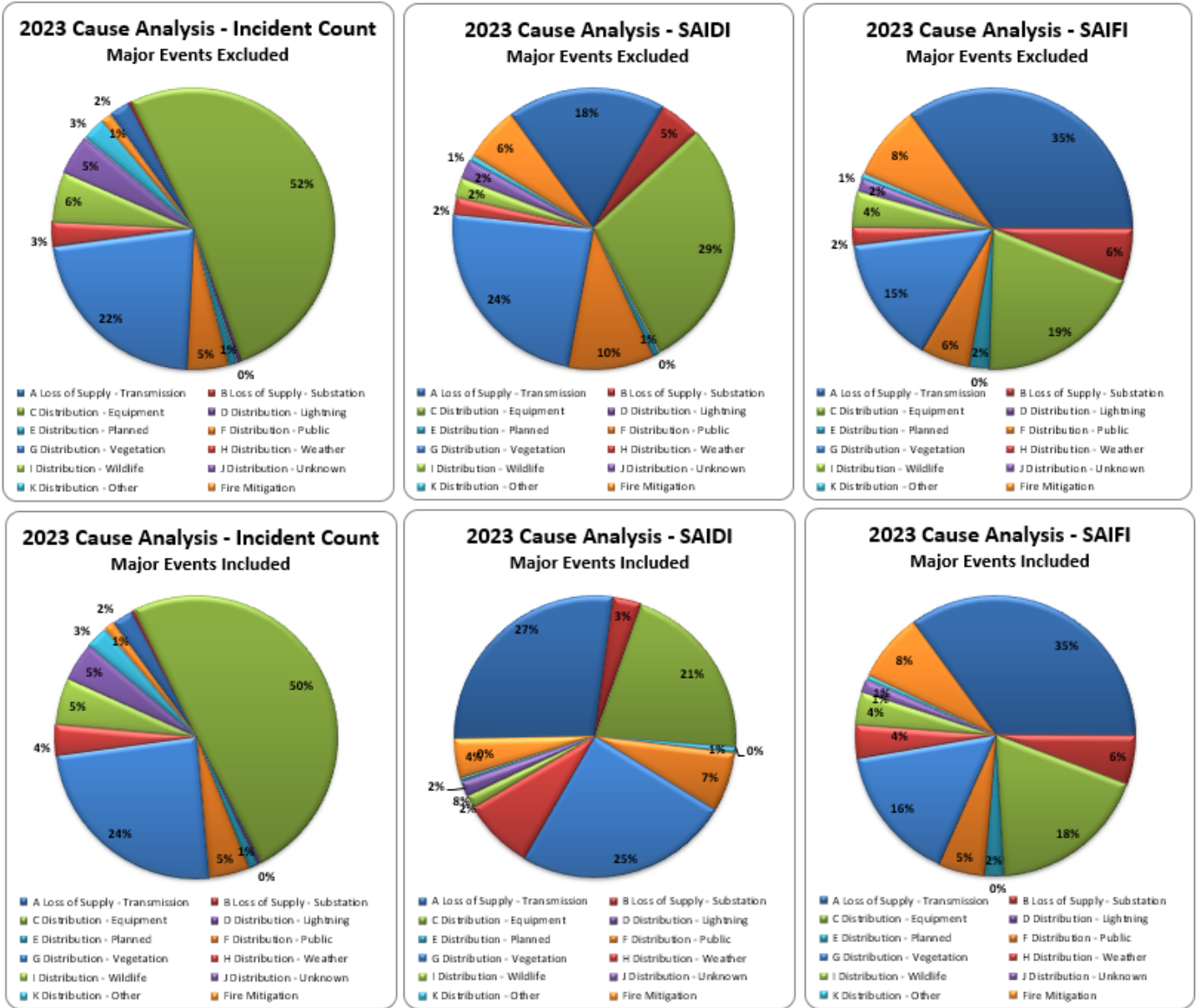
CoastPlus Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	158,938	11	528,405	14,366	3.32	0.090	37	34	2,860,341	43,214	18.00	0.272	66	
B Loss of Supply - Substation	158,938	7	273,000	13,369	1.72	0.084	-	15	1,297,683	22,432	8.16	0.141	58	
C Distribution - Equipment	158,938	723	6,800,111	34,635	42.78	0.218	196	864	7,959,859	39,013	50.08	0.245	204	
D Distribution - Lightning	158,938	1	41	1	0.00	0.000	41	1	41	1	0.00	0.000	41	
E Distribution - Planned	158,938	891	3,529,703	40,432	22.21	0.254	87	951	6,319,495	52,513	39.76	0.330	120	
F Distribution - Public	158,938	101	2,817,858	16,908	17.73	0.106	167	108	2,828,425	16,944	17.80	0.107	167	
G Distribution - Vegetation	158,938	285	4,291,237	27,792	27.00	0.175	154	571	21,520,389	70,109	135.40	0.441	307	
H Distribution - Weather	158,938	65	381,409	2,852	2.40	0.018	134	191	25,554,201	46,411	160.78	0.292	551	
I Distribution - Wildlife	158,938	98	526,241	7,477	3.31	0.047	70	103	550,876	7,708	3.47	0.048	71	
J Distribution - Unknown	158,938	124	818,156	7,419	5.15	0.047	110	145	1,340,440	9,652	8.43	0.061	139	
K Distribution - Other	158,938	92	91,333	658	0.57	0.004	139	122	3,569,309	3,343	22.46	0.021	1,068	
Fire Mitigation	158,938	7	253,415	3,557	1.59	0.022	71	7	253,415	3,557	1.59	0.022	71	
Grand Total	158,938	2,405	20,310,908	169,466	127.79	1.066	120	3,112	74,054,474	314,897	465.93	1.981	235	

OAR Cause	2022 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	160,532	5	184,900	1,725	1.15	0.01	107	7	186,408	1,735	1.16	0.01	107	
B Loss of Supply - Substation	160,532	8	244,201	922	1.52	0.01	265	8	244,201	922	1.52	0.01	-	
C Distribution - Equipment	160,532	845	17,654,453	85,954	109.97	0.54	205	866	17,826,166	86,397	111.04	0.54	206	
D Distribution - Lightning	160,532	21	369,135	4,607	2.30	0.03	80	25	480,813	4,912	3.00	0.03	98	
E Distribution - Planned	160,532	130	3,629,948	12,490	22.61	0.08	291	138	3,695,458	13,760	23.02	0.09	269	
F Distribution - Public	160,532	143	7,373,105	30,673	45.93	0.19	240	145	7,420,294	33,070	46.22	0.21	224	
G Distribution - Vegetation	160,532	278	10,289,802	41,140	64.10	0.26	250	478	20,108,363	73,921	125.26	0.46	272	
H Distribution - Weather	160,532	75	2,035,544	15,656	12.68	0.10	130	190	4,602,485	26,294	28.67	0.16	175	
I Distribution - Wildlife	160,532	260	7,457,449	34,543	46.45	0.22	216	264	7,486,670	34,708	46.64	0.22	216	
J Distribution - Unknown	160,532	231	7,063,358	29,826	44.00	0.19	237	244	7,430,270	32,085	46.29	0.20	232	
K Distribution - Other	160,532	88	1,150,606	7,656	7.17	0.05	150	94	1,256,108	8,859	7.82	0.06	142	
Fire Mitigation	160,532	2	128,041	1,500	0.80	0.01	-	2	128,041	1,500	0.80	0.01	-	
Grand Total	160,532	2,086	57,580,541	266,692	358.69	1.661	216	2,461	70,865,277	318,163	441.44	1.982	223	

OAR Cause	2023 - CoastPlus Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	160,224	35	2,712,939	54,975	16.9	0.34	49	38	5,830,916	59,299	36.4	0.37	98	
B Loss of Supply - Substation	160,224	6	698,877	9,466	4.4	0.06	74	6	698,877	9,466	4.4	0.06	74	
C Distribution - Equipment	160,224	750	4,308,695	30,350	26.9	0.19	142	774	4,410,210	31,027	27.5	0.19	142	
D Distribution - Lightning	160,224	7	4,047	32	0.0	0.00	126	7	4,047	32	0.0	0.00	126	
E Distribution - Planned	160,224	15	124,734	3,658	0.8	0.02	34	18	171,492	3,840	1.1	0.02	45	
F Distribution - Public	160,224	70	1,462,292	8,934	9.1	0.06	164	71	1,462,429	8,935	9.1	0.06	164	
G Distribution - Vegetation	160,224	321	3,503,054	22,991	21.9	0.14	152	380	5,244,314	26,639	32.7	0.17	197	
H Distribution - Weather	160,224	41	296,362	3,294	1.8	0.02	90	55	1,750,439	6,451	10.9	0.04	271	
I Distribution - Wildlife	160,224	84	331,519	6,486	2.1	0.04	51	84	331,519	6,486	2.1	0.04	51	
J Distribution - Unknown	160,224	66	321,514	2,425	2.0	0.02	133	70	367,885	2,503	2.3	0.02	147	
K Distribution - Other	160,224	39	103,861	959	0.6	0.01	108	40	104,126	960	0.6	0.01	108	
Fire Mitigation	160,224	18	930,329	13,390	5.8	0.08	69	18	930,329	13,390	5.8	0.08	69	
Grand Total	160,224	1,452	14,798,222	156,960	92.4	0.98	94	1,561	21,306,584	169,028	133.0	1.05	126	

CoastPlus Reporting Region Five-Year Cause Analysis



Northeast Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2019 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,258	7	257,401	2,084	10.19	0.083	124	7	257,401	2,084	10.19	0.083	124	
B Loss of Supply - Substation	25,258	-	-	-	-	-	-	-	-	-	-	-	-	
C Distribution - Equipment	25,258	257	729,622	4,312	28.89	0.171	169	262	854,638	4,518	33.84	0.179	189	
D Distribution - Lightning	25,258	32	68,549	486	2.71	0.019	141	32	68,549	486	2.71	0.019	141	
E Distribution - Planned	25,258	54	493,300	2,900	19.53	0.115	170	54	493,300	2,900	19.53	0.115	170	
F Distribution - Public	25,258	15	400,017	2,614	15.84	0.103	153	15	400,017	2,614	15.84	0.103	153	
G Distribution - Vegetation	25,258	27	130,017	630	5.15	0.025	206	30	185,750	836	7.35	0.033	222	
H Distribution - Weather	25,258	27	190,182	759	7.53	0.030	251	28	202,405	788	8.01	0.031	257	
I Distribution - Wildlife	25,258	80	65,542	534	2.59	0.021	123	80	65,542	534	2.59	0.021	123	
J Distribution - Unknown	25,258	64	169,271	1,902	6.70	0.075	89	64	169,271	1,902	6.70	0.075	89	
K Distribution - Other	25,258	7	61,546	111	2.44	0.004	554	7	61,546	111	2.44	0.004	554	
Grand Total	25,258	570	2,565,447	16,332	101.57	0.647	157	579	2,758,419	16,773	109.21	0.664	164	

OAR Cause	2020 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,560	5	88,111	3,188	3.45	0.125	28	15	1,016,302	10,576	39.76	0.414	96	
B Loss of Supply - Substation	25,560	2	26,713	1,991	1.05	0.078	13	2	26,713	1,991	1.05	0.078	13	
C Distribution - Equipment	25,560	248	932,302	5,530	36.48	0.216	169	289	1,197,281	8,049	46.84	0.315	149	
D Distribution - Lightning	25,560	10	5,052	29	0.20	0.001	174	24	329,959	245	12.91	0.010	1,347	
E Distribution - Planned	25,560	194	390,991	4,869	15.30	0.190	80	211	493,057	6,605	19.29	0.258	75	
F Distribution - Public	25,560	18	194,736	1,854	7.62	0.073	105	24	216,942	1,927	8.49	0.075	113	
G Distribution - Vegetation	25,560	40	326,541	4,244	12.78	0.166	77	88	1,421,314	7,923	55.61	0.310	179	
H Distribution - Weather	25,560	42	258,488	1,051	10.11	0.041	246	84	1,766,273	5,348	69.10	0.209	330	
I Distribution - Wildlife	25,560	104	80,323	786	3.14	0.031	102	120	90,120	884	3.53	0.035	102	
J Distribution - Unknown	25,560	92	291,791	4,784	11.42	0.187	61	97	300,872	4,826	11.77	0.189	62	
K Distribution - Other	25,560	26	93,062	1,476	3.64	0.058	63	28	119,040	1,503	4.66	0.059	79	
Grand Total	25,560	781	2,688,110	29,802	105.17	1.166	90	982	6,977,873	49,877	273.00	1.951	140	

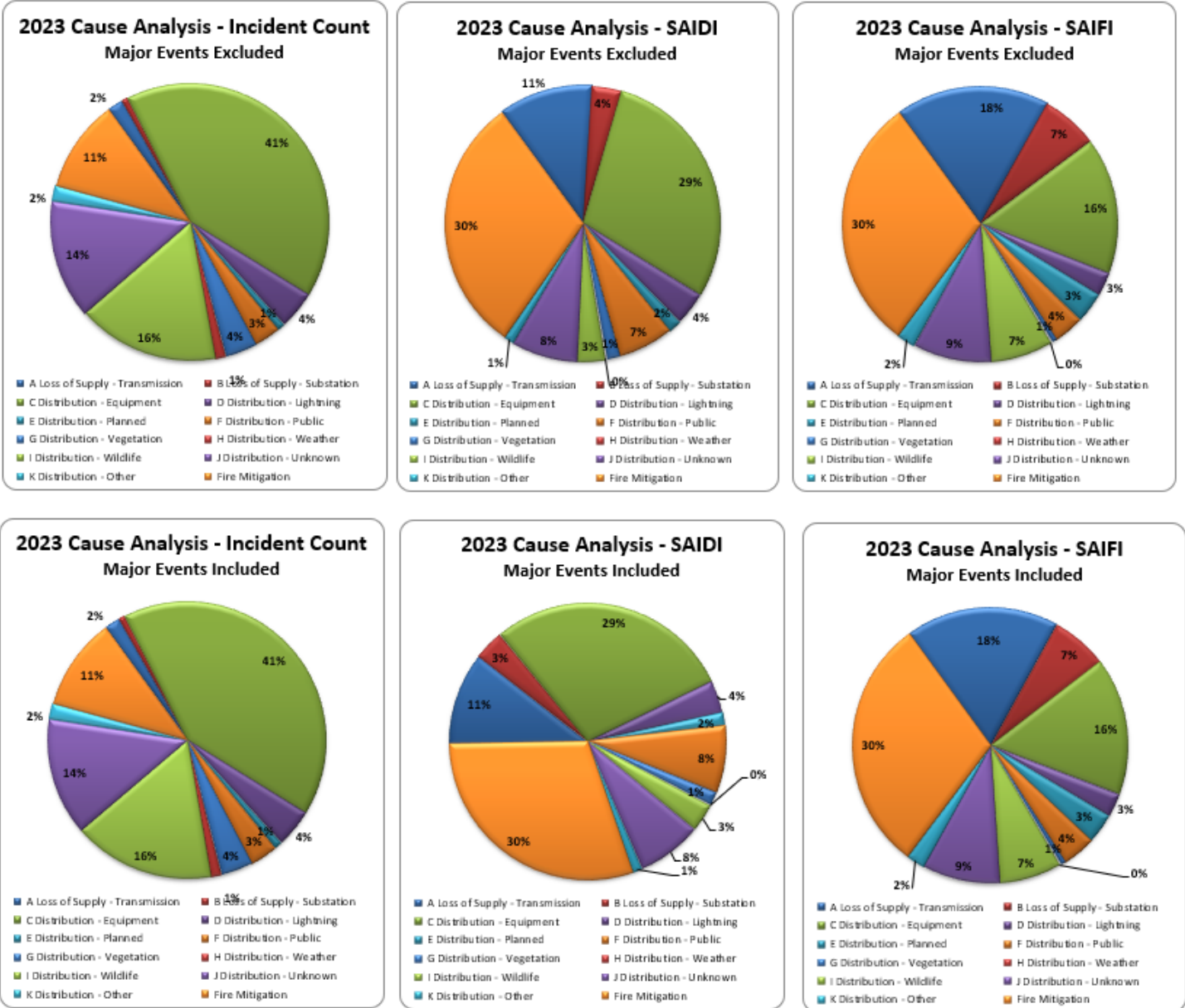
Northeast Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,793	3	14,738	1,798	0.57	0.070	8	8	719,318	4,620	27.89	0.179	156	
B Loss of Supply - Substation	25,793	3	137,969	1,962	5.35	0.076	70	3	137,969	1,962	5.35	0.076	70	
C Distribution - Equipment	25,793	163	1,062,350	7,243	41.19	0.281	147	182	1,131,896	7,557	43.88	0.293	150	
D Distribution - Lightning	25,793	9	55,351	102	2.15	0.004	543	9	55,351	102	2.15	0.004	543	
E Distribution - Planned	25,793	190	1,333,883	13,162	51.71	0.510	101	197	1,342,050	13,205	52.03	0.512	102	
F Distribution - Public	25,793	22	168,171	1,125	6.52	0.044	149	24	290,184	1,823	11.25	0.071	159	
G Distribution - Vegetation	25,793	40	258,742	1,257	10.03	0.049	206	54	316,130	1,562	12.26	0.061	202	
H Distribution - Weather	25,793	36	209,573	820	8.13	0.032	256	69	410,044	1,707	15.90	0.066	240	
I Distribution - Wildlife	25,793	97	99,838	1,139	3.87	0.044	88	99	99,937	1,141	3.87	0.044	88	
J Distribution - Unknown	25,793	87	198,337	1,971	7.69	0.076	101	94	202,581	1,997	7.85	0.077	101	
K Distribution - Other	25,793	28	38,566	943	1.50	0.037	41	30	39,154	947	1.52	0.037	41	
Fire Mitigation	25,793	-	-	-	-	-	-	-	-	-	-	-	-	
Grand Total	25,793	678	3,577,519	31,522	138.70	1.222	113	769	4,744,613	36,623	183.95	1.420	130	

OAR Cause	2022 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,969	10	19,690	157	0.76	0.01	125	14	33,756	252	1.30	0.01	134	
B Loss of Supply - Substation	25,969	1	5,822	16	0.22	0.00	364	1	5,822	16	0.22	0.00	-	
C Distribution - Equipment	25,969	235	3,541,025	19,387	136.36	0.75	183	265	3,695,058	19,866	142.29	0.76	186	
D Distribution - Lightning	25,969	19	483,962	5,180	18.64	0.20	93	34	498,019	5,281	19.18	0.20	94	
E Distribution - Planned	25,969	45	489,559	6,686	18.85	0.26	73	46	489,847	6,687	18.86	0.26	73	
F Distribution - Public	25,969	33	276,945	3,399	10.66	0.13	81	35	280,568	3,418	10.80	0.13	82	
G Distribution - Vegetation	25,969	79	2,121,571	12,319	81.70	0.47	172	147	2,449,195	15,519	94.31	0.60	158	
H Distribution - Weather	25,969	15	247,538	1,194	9.53	0.05	207	50	805,765	4,201	31.03	0.16	192	
I Distribution - Wildlife	25,969	112	1,084,067	5,828	41.74	0.22	186	113	1,085,907	5,838	41.82	0.22	186	
J Distribution - Unknown	25,969	69	481,700	1,530	18.55	0.06	315	75	485,196	1,541	18.68	0.06	315	
K Distribution - Other	25,969	30	296,796	2,259	11.43	0.09	131	31	296,865	2,260	11.43	0.09	131	
Fire Mitigation	25,969	1	149	1	0.01	0.00	-	3	103,306	603	3.98	0.02	-	
Grand Total	25,969	649	9,048,824	57,956	348.45	2.232	156	814	10,229,304	65,482	393.90	2.522	156	

OAR Cause	2023 - Northeast Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	25,954	10	369,381	6,568	14.2	0.25	56	10	369,381	6,568	14.2	0.25	56	
B Loss of Supply - Substation	25,954	4	118,404	2,432	4.6	0.09	49	4	118,404	2,432	4.6	0.09	49	
C Distribution - Equipment	25,954	225	980,462	5,847	37.8	0.23	168	226	980,781	5,851	37.8	0.23	168	
D Distribution - Lightning	25,954	24	130,114	999	5.0	0.04	130	24	130,114	999	5.0	0.04	130	
E Distribution - Planned	25,954	5	52,822	1,299	2.0	0.05	41	5	52,822	1,299	2.0	0.05	41	
F Distribution - Public	25,954	17	219,731	1,317	8.5	0.05	167	18	264,346	1,451	10.2	0.06	182	
G Distribution - Vegetation	25,954	20	51,084	209	2.0	0.01	244	20	51,084	209	2.0	0.01	244	
H Distribution - Weather	25,954	7	8,163	41	0.3	0.00	199	7	8,163	41	0.3	0.00	199	
I Distribution - Wildlife	25,954	90	110,347	2,663	4.3	0.10	41	90	110,347	2,663	4.3	0.10	41	
J Distribution - Unknown	25,954	75	256,336	3,319	9.9	0.13	77	75	256,336	3,319	9.9	0.13	77	
K Distribution - Other	25,954	10	41,464	808	1.6	0.03	51	10	41,464	808	1.6	0.03	51	
Fire Mitigation	25,954	59	1,021,551	10,864	39.4	0.42	94	59	1,021,551	10,864	39.4	0.42	94	
Grand Total	25,954	546	3,359,858	36,366	129.5	1.40	92	548	3,404,793	36,504	131.2	1.41	93	

Northeast Oregon Reporting Region Five-Year Cause Analysis



Southern Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2019 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	227,158	84	3,890,444	71,847	17.13	0.316	54	166	57,338,706	153,302	252.42	0.675	374	
B Loss of Supply - Substation	227,158	12	1,724,962	12,672	7.59	0.056	136	15	3,998,311	18,770	17.60	0.083	213	
C Distribution - Equipment	227,158	1,166	4,518,301	32,869	19.89	0.145	137	1,266	7,849,286	35,265	34.55	0.155	223	
D Distribution - Lightning	227,158	92	236,664	1,564	1.04	0.007	151	92	236,664	1,564	1.04	0.007	151	
E Distribution - Planned	227,158	1,256	2,955,447	32,556	13.01	0.143	91	1,293	3,531,193	33,591	15.55	0.148	105	
F Distribution - Public	227,158	127	2,698,638	21,441	11.88	0.094	126	132	2,719,859	21,706	11.97	0.096	125	
G Distribution - Vegetation	227,158	365	7,395,254	37,545	32.56	0.165	197	628	32,696,434	54,359	143.94	0.239	601	
H Distribution - Weather	227,158	119	1,881,793	11,052	8.28	0.049	170	444	62,867,546	50,008	276.76	0.220	1,257	
I Distribution - Wildlife	227,158	372	833,469	11,140	3.67	0.049	75	376	840,789	11,227	3.70	0.049	75	
J Distribution - Unknown	227,158	366	2,541,749	25,325	11.19	0.111	100	385	3,268,380	26,661	14.39	0.117	123	
K Distribution - Other	227,158	107	402,334	4,577	1.77	0.020	88	148	2,054,878	8,715	9.05	0.038	236	
Grand Total	227,158	4,066	29,079,055	262,588	128.01	1.156	111	4,945	177,402,047	415,168	780.96	1.828	427	

OAR Cause	2020 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	226,208	76	7,769,837	70,261	34.35	0.311	111	107	16,676,623	110,624	73.72	0.489	151	
B Loss of Supply - Substation	226,208	12	584,440	4,655	2.58	0.021	126	14	1,338,311	7,860	5.92	0.035	170	
C Distribution - Equipment	226,208	1,104	3,759,518	20,556	16.62	0.091	183	1,230	6,564,911	29,450	29.02	0.130	223	
D Distribution - Lightning	226,208	23	67,715	506	0.30	0.002	134	36	135,064	1,141	0.60	0.005	118	
E Distribution - Planned	226,208	1,933	5,094,748	34,352	22.52	0.152	148	2,045	98,610,381	52,836	435.93	0.234	1,866	
F Distribution - Public	226,208	157	5,259,220	29,029	23.25	0.128	181	165	5,374,578	29,346	23.76	0.130	183	
G Distribution - Vegetation	226,208	298	4,929,854	27,182	21.79	0.120	181	590	30,188,522	49,754	133.45	0.220	607	
H Distribution - Weather	226,208	48	1,091,750	9,716	4.83	0.043	112	404	23,998,882	51,804	106.09	0.229	463	
I Distribution - Wildlife	226,208	448	1,508,496	16,210	6.67	0.072	93	509	1,647,857	17,442	7.28	0.077	94	
J Distribution - Unknown	226,208	341	2,047,871	25,253	9.05	0.112	81	389	2,600,507	28,572	11.50	0.126	91	
K Distribution - Other	226,208	105	927,354	13,823	4.10	0.061	67	163	6,689,187	18,957	29.57	0.084	353	
Grand Total	226,208	4,545	33,040,804	251,543	146.06	1.112	131	5,652	193,824,821	397,786	856.84	1.758	487	

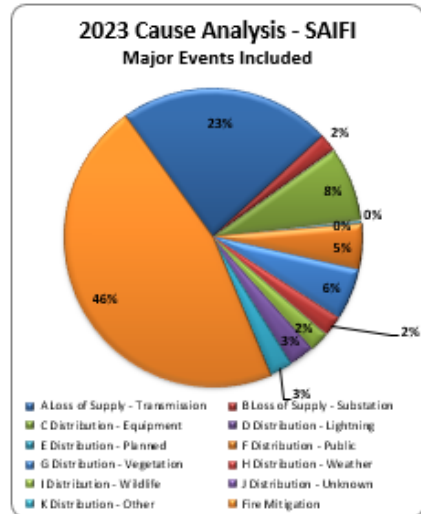
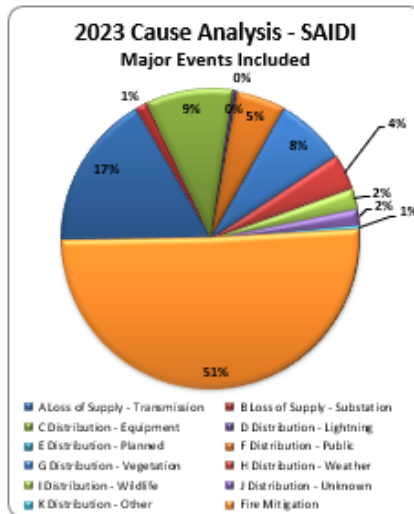
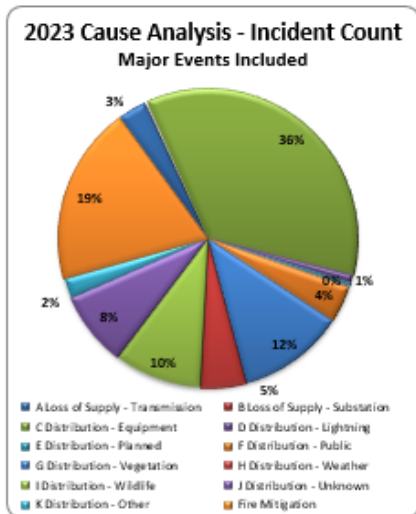
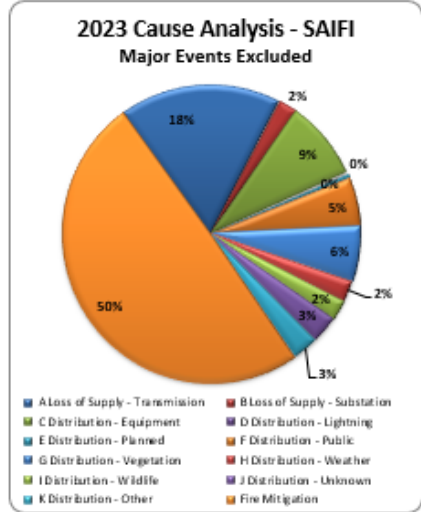
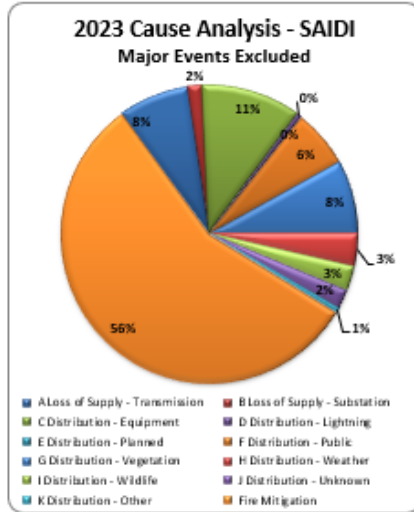
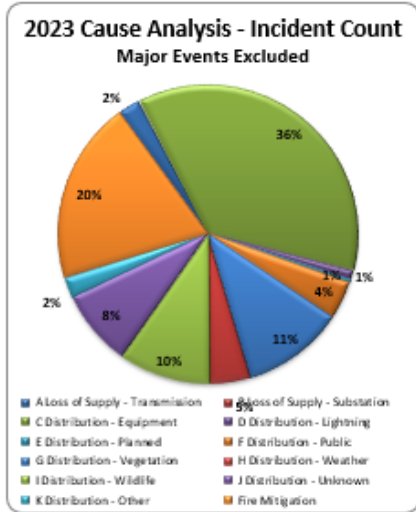
Southern Oregon Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	225,834	73	3,451,181	78,646	15.28	0.348	44	76	3,864,363	82,009	17.11	0.363	47	
B Loss of Supply - Substation	225,834	2	524,385	880	2.32	0.004	596	107	7,110,007	139,904	31.48	0.619	51	
C Distribution - Equipment	225,834	1,062	5,151,690	28,008	22.81	0.124	184	1,164	5,559,043	30,237	24.62	0.134	184	
D Distribution - Lightning	225,834	48	305,416	1,639	1.35	0.007	186	48	305,416	1,639	1.35	0.007	186	
E Distribution - Planned	225,834	1,761	3,731,070	35,361	16.52	0.157	106	1,841	4,158,055	38,626	18.41	0.171	108	
F Distribution - Public	225,834	129	2,179,521	14,279	9.65	0.063	153	135	2,280,165	14,831	10.10	0.066	154	
G Distribution - Vegetation	225,834	362	6,733,057	28,460	29.81	0.126	237	622	13,371,668	45,384	59.21	0.201	295	
H Distribution - Weather	225,834	103	1,054,849	4,821	4.67	0.021	219	290	5,157,012	14,664	22.84	0.065	352	
I Distribution - Wildlife	225,834	429	931,461	9,198	4.12	0.041	101	444	1,024,191	10,021	4.54	0.044	102	
J Distribution - Unknown	225,834	401	2,196,485	23,334	9.73	0.103	94	440	3,217,517	26,584	14.25	0.118	121	
K Distribution - Other	225,834	139	361,689	5,129	1.60	0.023	71	156	736,390	7,840	3.26	0.035	94	
Fire Mitigation	225,834	32	1,973,391	10,061	8.74	0.045	196	32	1,973,391	10,061	8.74	0.045	196	
Grand Total	225,834	4,541	28,594,196	239,816	126.62	1.062	119	5,355	48,757,219	421,800	215.90	1.868	116	

OAR Cause	2022 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	227,474	7	11,132	68	0.05	0.00	164	11	179,996	739	0.79	0.00	244	
B Loss of Supply - Substation	227,474	4	900	34	0.00	0.00	26	4	900	34	0.00	0.00	-	
C Distribution - Equipment	227,474	1,472	22,732,130	133,245	99.93	0.59	171	1,573	25,060,472	146,359	110.17	0.64	171	
D Distribution - Lightning	227,474	34	222,766	1,884	0.98	0.01	118	43	229,686	1,918	1.01	0.01	120	
E Distribution - Planned	227,474	167	4,943,619	12,119	21.73	0.05	408	182	5,111,052	13,944	22.47	0.06	367	
F Distribution - Public	227,474	172	3,620,290	15,063	15.92	0.07	240	176	3,632,456	15,113	15.97	0.07	240	
G Distribution - Vegetation	227,474	334	7,222,499	40,341	31.75	0.18	179	592	15,244,793	88,868	67.02	0.39	172	
H Distribution - Weather	227,474	64	1,235,656	5,419	5.43	0.02	228	203	6,986,998	32,598	30.72	0.14	214	
I Distribution - Wildlife	227,474	391	2,700,505	11,189	11.87	0.05	241	398	2,989,658	14,369	13.14	0.06	208	
J Distribution - Unknown	227,474	399	3,938,059	23,948	17.31	0.11	164	451	5,121,645	33,192	22.52	0.15	154	
K Distribution - Other	227,474	127	1,466,749	4,392	6.45	0.02	334	137	1,756,808	8,426	7.72	0.04	208	
Fire Mitigation	227,474	59	4,236,040	41,519	18.62	0.18	-	76	5,524,890	51,808	24.29	0.23	-	
Grand Total	227,474	3,230	52,330,344	289,221	230.05	1.271	181	3,846	71,839,353	407,368	315.81	1.791	176	

OAR Cause	2023 - Southern Oregon Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	227,244	73	4,496,473	79,242	19.8	0.35	57	101	12,014,650	116,171	52.9	0.51	103	
B Loss of Supply - Substation	227,244	8	912,725	9,588	4.0	0.04	95	8	912,725	9,588	4.0	0.04	95	
C Distribution - Equipment	227,244	1,148	6,297,992	38,731	27.7	0.17	163	1,172	6,640,663	40,211	29.2	0.18	165	
D Distribution - Lightning	227,244	30	292,402	1,096	1.3	0.00	267	30	292,402	1,096	1.3	0.00	267	
E Distribution - Planned	227,244	13	38,088	1,714	0.2	0.01	22	13	38,088	1,714	0.2	0.01	22	
F Distribution - Public	227,244	131	3,718,041	24,409	16.4	0.11	152	132	3,768,175	24,501	16.6	0.11	154	
G Distribution - Vegetation	227,244	350	4,660,751	26,510	20.5	0.12	176	383	5,417,788	27,812	23.8	0.12	195	
H Distribution - Weather	227,244	141	2,009,827	10,280	8.8	0.05	196	163	2,729,139	10,969	12.0	0.05	249	
I Distribution - Wildlife	227,244	312	1,536,398	10,187	6.8	0.04	151	313	1,556,904	10,639	6.9	0.05	146	
J Distribution - Unknown	227,244	263	1,249,026	13,496	5.5	0.06	93	268	1,292,550	13,805	5.7	0.06	94	
K Distribution - Other	227,244	69	323,039	12,548	1.4	0.06	24	71	323,847	12,550	1.4	0.06	26	
Fire Mitigation	227,244	624	32,795,340	224,077	144.3	0.99	146	637	35,854,992	232,239	157.8	1.02	154	
Grand Total	227,244	3,162	58,330,102	451,878	256.7	1.989	129	3,291	70,841,921	501,295	311.7	2.21	141	

Southern Oregon Reporting Region Five-Year Cause Analysis



Willamette Valley Reporting Region Five-Year Cause Analysis

OAR Cause	2019 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	124,207	6	763,494	9,024	6.15	0.073	85	10	5,337,509	13,882	42.97	0.112	384	
B Loss of Supply - Substation	124,207	2	253,285	4,457	2.04	0.036	57	2	253,285	4,457	2.04	0.036	57	
C Distribution - Equipment	124,207	567	3,295,512	24,218	26.53	0.195	136	596	3,443,437	24,909	27.72	0.201	138	
D Distribution - Lightning	124,207	37	518,787	2,067	4.18	0.017	251	37	518,787	2,067	4.18	0.017	251	
E Distribution - Planned	124,207	1,128	2,395,675	26,168	19.29	0.211	92	1,175	3,455,577	33,381	27.82	0.269	104	
F Distribution - Public	124,207	114	3,111,728	23,613	25.05	0.190	132	117	3,123,299	23,654	25.15	0.190	132	
G Distribution - Vegetation	124,207	251	4,688,796	33,495	37.75	0.270	140	400	9,372,696	43,042	75.46	0.347	218	
H Distribution - Weather	124,207	20	328,877	2,364	2.65	0.019	139	139	14,559,760	17,519	117.22	0.141	831	
I Distribution - Wildlife	124,207	183	560,321	4,397	4.51	0.035	127	184	562,710	4,418	4.53	0.036	127	
J Distribution - Unknown	124,207	237	2,742,386	26,113	22.08	0.210	105	243	2,992,487	26,510	24.09	0.213	113	
K Distribution - Other	124,207	60	319,558	3,590	2.57	0.029	89	64	457,119	4,182	3.68	0.034	109	
Grand Total	124,207	2,605	18,978,419	159,506	152.80	1.284	119	2,967	44,076,666	198,021	354.86	1.594	223	

OAR Cause	2020 - Willamette Valley Reporting Region													
	Oregon Customer count	Major Event Excluded						Major Event Included						
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	
A Loss of Supply - Transmission	123,813	4	604,142	7,206	4.88	0.058	84	10	3,814,777	22,949	30.81	0.185	166	
B Loss of Supply - Substation	123,813	1	685,481	2,531	5.54	0.020	271	1	685,481	2,531	5.54	0.020	271	
C Distribution - Equipment	123,813	662	3,617,213	28,409	29.22	0.229	127	737	4,153,958	29,372	33.55	0.237	141	
D Distribution - Lightning	123,813	5	2,865	37	0.02	0.000	77	65	1,377,409	3,828	11.12	0.031	360	
E Distribution - Planned	123,813	1,290	3,593,373	25,733	29.02	0.208	140	1,364	6,036,619	32,972	48.76	0.266	183	
F Distribution - Public	123,813	113	4,216,093	27,134	34.05	0.219	155	118	4,445,931	28,636	35.91	0.231	155	
G Distribution - Vegetation	123,813	253	2,862,210	26,785	23.12	0.216	107	387	5,102,514	33,692	41.21	0.272	151	
H Distribution - Weather	123,813	24	378,643	3,220	3.06	0.026	118	119	7,011,208	64,201	56.63	0.519	109	
I Distribution - Wildlife	123,813	220	1,261,242	8,355	10.19	0.067	151	247	1,306,536	8,578	10.55	0.069	152	
J Distribution - Unknown	123,813	218	1,482,621	22,020	11.97	0.178	67	245	1,522,807	22,525	12.30	0.182	68	
K Distribution - Other	123,813	53	134,297	3,269	1.08	0.026	41	75	2,099,485	3,851	16.96	0.031	545	
Grand Total	123,813	2,843	18,838,181	154,699	152.15	1.249	122	3,368	37,556,725	253,135	303.33	2.044	148	

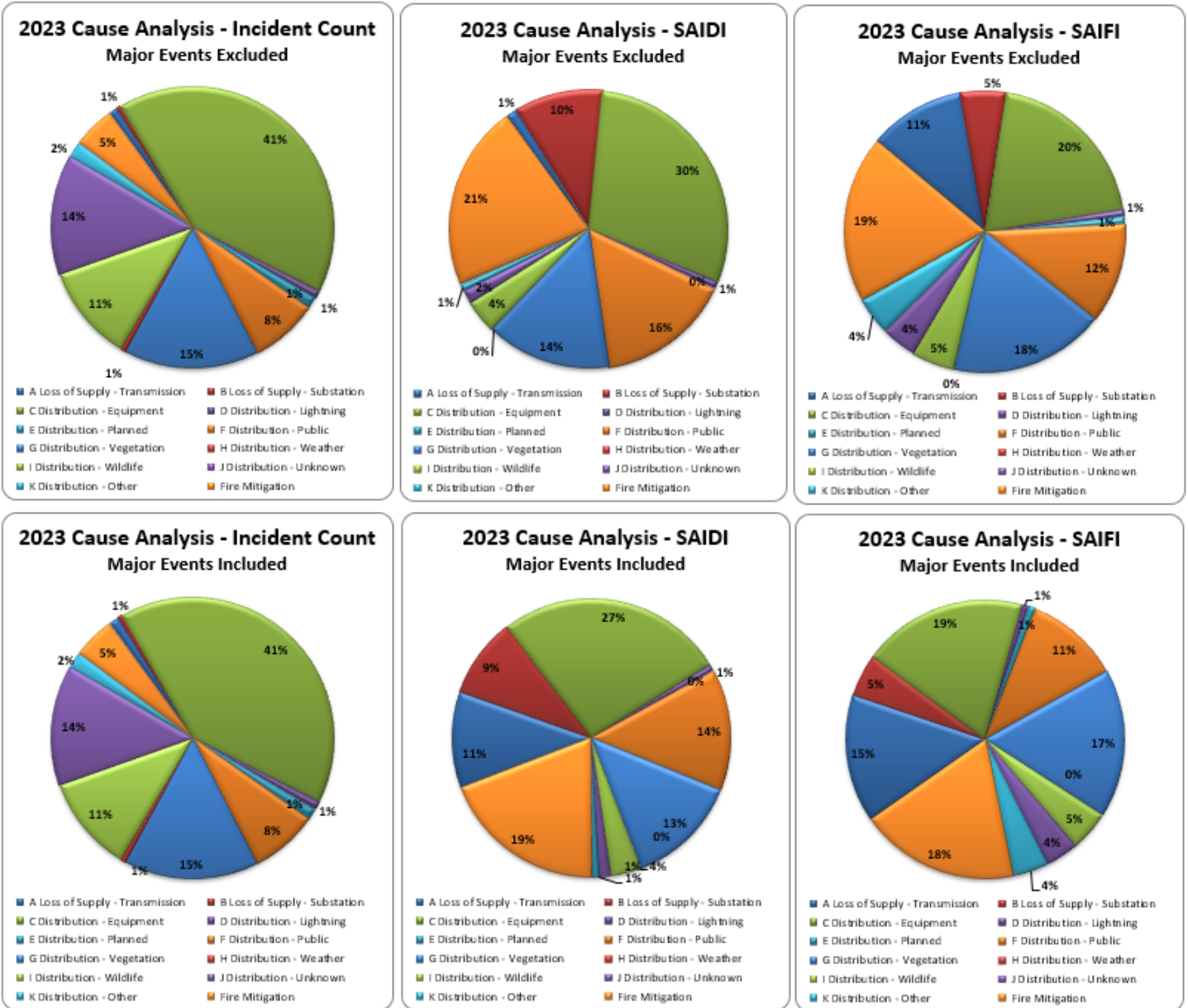
Willamette Valley Reporting Region Five-Year Cause Analysis

OAR Cause	2021 - Willamette Valley Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	125,422	24	941,394	38,328	7.51	0.306	25	30	1,480,651	49,198	11.81	0.392	30
B Loss of Supply - Substation	125,422	9	672,489	19,620	5.36	0.156	34	10	808,197	21,198	6.44	0.169	38
C Distribution - Equipment	125,422	559	2,458,804	21,310	19.60	0.170	115	653	3,360,801	27,694	26.80	0.221	121
D Distribution - Lightning	125,422	-	-	-	-	-	-	-	-	-	-	-	-
E Distribution - Planned	125,422	1,371	3,930,222	30,012	31.34	0.239	131	1,496	7,774,477	40,985	61.99	0.327	190
F Distribution - Public	125,422	146	6,864,149	31,019	54.73	0.247	221	150	6,971,831	31,530	55.59	0.251	221
G Distribution - Vegetation	125,422	295	3,103,227	19,545	24.74	0.156	159	970	87,000,136	75,569	693.66	0.603	1,151
H Distribution - Weather	125,422	26	21,121	127	0.17	0.001	166	315	43,415,233	29,470	346.15	0.235	1,473
I Distribution - Wildlife	125,422	217	220,469	2,112	1.76	0.017	104	220	221,066	2,130	1.76	0.017	104
J Distribution - Unknown	125,422	247	1,003,189	11,455	8.00	0.091	88	275	1,432,854	11,870	11.42	0.095	121
K Distribution - Other	125,422	79	431,411	9,431	3.44	0.075	46	97	752,416	9,934	6.00	0.079	76
Fire Mitigation	125,422	3	1,951	13	0.02	0.000	150	4	229,578	738	1.83	0.006	311
Grand Total	125,422	2,976	19,648,427	182,972	156.66	1.459	107	4,220	153,447,240	300,316	1,223.45	2.394	511

OAR Cause	2022 - Willamette Valley Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	126,440	87	1,613,125	8,501	12.76	0.07	190	206	3,657,064	29,873	28.92	0.24	122
B Loss of Supply - Substation	126,440	38	567,432	2,990	4.49	0.02	190	45	590,218	3,098	4.67	0.02	191
C Distribution - Equipment	126,440	420	6,812,701	32,346	53.88	0.26	211	510	8,435,503	43,394	66.72	0.34	194
D Distribution - Lightning	126,440	12	52,799	326	0.42	0.00	162	16	58,593	631	0.46	0.00	93
E Distribution - Planned	126,440	103	766,884	4,282	6.07	0.03	179	116	808,418	4,451	6.39	0.04	182
F Distribution - Public	126,440	89	1,585,464	14,275	12.54	0.11	111	95	1,596,610	14,331	12.63	0.11	111
G Distribution - Vegetation	126,440	174	4,506,226	22,920	35.64	0.18	197	396	8,159,909	45,613	64.54	0.36	179
H Distribution - Weather	126,440	52	401,615	1,273	3.18	0.01	315	171	1,560,305	17,422	12.34	0.14	90
I Distribution - Wildlife	126,440	102	1,725,778	6,993	13.65	0.06	247	106	1,755,889	7,260	13.89	0.06	242
J Distribution - Unknown	126,440	217	2,516,578	13,804	19.90	0.11	182	260	2,681,485	14,468	21.21	0.11	185
K Distribution - Other	126,440	48	1,217,809	8,610	9.63	0.07	141	61	1,337,883	13,068	10.58	0.10	102
Fire Mitigation	126,440	-	-	-	-	-	-	1	28,575	486	0.23	0.00	-
Grand Total	126,440	1,342	21,766,411	116,320	172.15	0.920	187	1,983	30,670,452	194,095	242.57	1.535	158

OAR Cause	2023 - Willamette Valley Reporting Region												
	Oregon Customer count	Major Event Excluded						Major Event Included					
		Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI	Sustained Incident Count	Customer Minutes Lost for Incident	Customers In Incident Sustained	SAIDI	SAIFI	CAIDI
A Loss of Supply - Transmission	126,382	13	307,612	19,059	2.4	0.15	16	17	2,955,220	26,506	23.4	0.21	111
B Loss of Supply - Substation	126,382	8	2,436,872	8,898	19.3	0.07	274	8	2,436,872	8,898	19.3	0.07	274
C Distribution - Equipment	126,382	609	7,017,377	34,318	55.5	0.27	204	609	7,017,377	34,318	55.5	0.27	204
D Distribution - Lightning	126,382	14	187,502	1,315	1.5	0.01	143	14	187,502	1,315	1.5	0.01	143
E Distribution - Planned	126,382	20	41,502	1,543	0.3	0.01	27	20	41,502	1,543	0.3	0.01	27
F Distribution - Public	126,382	116	3,702,378	19,624	29.3	0.16	189	117	3,712,884	19,706	29.4	0.16	188
G Distribution - Vegetation	126,382	229	3,434,839	30,523	27.2	0.24	113	229	3,434,839	30,523	27.2	0.24	113
H Distribution - Weather	126,382	10	14,585	107	0.1	0.00	136	10	14,585	107	0.1	0.00	136
I Distribution - Wildlife	126,382	165	929,183	8,412	7.4	0.07	110	165	929,183	8,412	7.4	0.07	110
J Distribution - Unknown	126,382	204	388,259	6,871	3.1	0.05	57	206	388,667	6,877	3.1	0.05	57
K Distribution - Other	126,382	28	189,052	7,465	1.5	0.06	25	28	189,052	7,465	1.5	0.06	25
Fire Mitigation	126,382	71	5,084,788	32,958	40.2	0.26	154	71	5,084,788	32,958	40.2	0.26	154
Grand Total	126,382	1,487	23,733,950	171,093	187.8	1.35	139	1,494	26,392,472	178,628	208.8	1.41	148

Willamette Valley Reporting Region Five-Year Cause Analysis



Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	12.5	2,474
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	12.5	1,323
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	12.5	212
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	12.5	1,420
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	12.5	2,287
Central OR	BEND/REDMOND	BOND STREET	5D413	OLD MILL.	12.5	530
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	12.5	1,373
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	12.5	2,469
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	12.5	1,730
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	12.5	2,513
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	12.5	1,276
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	12.5	1,059
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	12.5	1,532
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	12.5	3,230
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	12.5	1,967
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	12.5	1,192
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	20.8	1,842
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	20.8	817
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	12.5	1,142
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	12.5	1,037
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	12.5	1,487
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	12.5	1,960
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	12.5	2,732
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	12.5	1,845
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	12.5	1,451
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	12.5	990
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	12.5	1,664
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	12.5	1,868
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	12.5	2,411
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	12.5	875
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	12.5	1,598
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	12.5	906
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	12.5	1,603
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	12.5	3,366

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	12.5	1,306
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12.5	422
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	12.5	2,916
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	12.5	2,260
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12.5	2,669
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	12.5	2,487
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	12.5	396
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	12.5	2,899
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	12.5	151
Central OR	MADRAS	CULVER	5D5	CULVER	12.5	1,864
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	12.5	1,064
Central OR	MADRAS	MADRAS	5D53	AGATE	12.5	1,423
Central OR	MADRAS	MADRAS	5D57	QUARTZ	12.5	1,543
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	12.5	1,277
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	12.5	685
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	12.5	883
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	12.5	2,810
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	12.5	1,019
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	12.5	1,171
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	12.5	642
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	12.5	905
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	12.5	1,660
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	20.8	961
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	12.5	1,636
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	12.5	1,218
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	12.5	272
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	12.5	384
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	12.5	732
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	12.5	937
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12.5	2,388
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	12.5	1,615
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	12.5	1,236
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	12.5	3,531
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	12.5	270
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	12.5	2,297

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	12.5	1,754
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	12.5	1,184
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	12.5	1,208
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	12.5	999
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	12.5	331
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	12.5	938
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	12.5	1,103
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	12.5	1,391
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	20.8	767
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	20.8	1,354
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	20.8	1,669
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	20.8	1,545
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	20.8	149
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	20.8	1,734
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	20.8	1,427
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	20.8	2,078
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	12.5	1
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	12.5	32
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	20.8	1,465
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	20.8	772
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C5	GEORGIA-PAC	20.8	78
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	20.8	1,847
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	20.8	1,379
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	20.8	332
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	20.8	2,071
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	12.5	3
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	20.8	1,796
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	20.8	1,718
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	20.8	2,190
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	20.8	1,786
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	20.8	710
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	12.5	2,093
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	12.5	1,274
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	12.5	2,006
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	7.2	1,009

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	12.5	1,461
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	12.5	782
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	4.1	285
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	20.8	2,293
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	20.8	3,083
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	20.8	4,571
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	20.8	665
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	4.1	713
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	4.1	361
CoastPlus	LINCOLN CITY	PGE GRAND RONDE	R114	BOYER	12.0	19
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	4.1	719
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	11.7	577
CoastPlus	PORTLAND	ALBINA	5P150	ALBINA 11C15	11.7	135
CoastPlus	PORTLAND	ALBINA	5P194	11C24-UG	11.7	307
CoastPlus	PORTLAND	ALBINA	5P196	11C16-UG	11.7	450
CoastPlus	PORTLAND	ALBINA	5P200	11C20-UG	11.7	460
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	11.7	254
CoastPlus	PORTLAND	ALBINA	5P92	11C12-UG	11.7	155
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	12.5	199
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P23	ALDERWOOD #1-UG	12.5	1
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	12.5	179
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	12.5	195
CoastPlus	PORTLAND	BLOSS	5P172	FURNACE	12.5	1
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	12.5	2,641
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	12.5	349
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	12.5	542
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	12.5	838
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	12.5	1,133
CoastPlus	PORTLAND	COLUMBIA (OR)	5P480	COLUMBIA #5	12.5	21
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	12.5	746
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	12.5	1,009
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	12.5	2,899
CoastPlus	PORTLAND	HOLLADAY (OR)	5P145	HOLLADAY #1-UG	11.7	193
CoastPlus	PORTLAND	HOLLADAY (OR)	5P146	HOLLADAY #2-UG	11.7	336
CoastPlus	PORTLAND	HOLLADAY (OR)	5P147	HOLLADAY #3-UG	11.7	163

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
CoastPlus	PORTLAND	HOLLADAY (OR)	5P156	HOLLADAY #4-UG	11.7	742
CoastPlus	PORTLAND	HOLLADAY (OR)	5P157	HOLLADAY #5-UG	11.7	125
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	11.7	907
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	12.5	1,520
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	12.5	450
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	12.5	2,358
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	12.5	3,640
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	12.5	2,339
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	12.5	1,377
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	12.5	1,993
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	12.5	1,310
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	12.5	453
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	12.5	304
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	12.5	998
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	12.5	1,796
CoastPlus	PORTLAND	KNOTT	5P368	11022	11.7	16
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	12.5	3,496
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	12.5	2,433
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	12.5	2,437
CoastPlus	PORTLAND	KNOTT	5P366	11010	11.7	53
CoastPlus	PORTLAND	KNOTT	5P372	11046	11.7	787
CoastPlus	PORTLAND	KNOTT	5P374	11020	11.7	1,004
CoastPlus	PORTLAND	LINCOLN (OR)	5P418	11D17	11.7	127
CoastPlus	PORTLAND	LINCOLN (OR)	5P420	11D14	11.7	28
CoastPlus	PORTLAND	LINCOLN (OR)	5P422	11D06-UG	11.7	926
CoastPlus	PORTLAND	LINCOLN (OR)	5P424	11D03-UG	11.7	27
CoastPlus	PORTLAND	LINCOLN (OR)	5P426	11D04-UG	11.7	653
CoastPlus	PORTLAND	LINCOLN (OR)	5P430	11D05-UG	11.7	364
CoastPlus	PORTLAND	LINCOLN (OR)	5P432	11D02-UG	11.7	854
CoastPlus	PORTLAND	LINCOLN (OR)	5P434	11D12-UG	11.7	14
CoastPlus	PORTLAND	LINCOLN (OR)	5P436	11G18-UG	11.7	91
CoastPlus	PORTLAND	LINCOLN (OR)	5P438	11D08-UG	11.7	76
CoastPlus	PORTLAND	LINCOLN (OR)	5P456	11D09-UG	11.7	182
CoastPlus	PORTLAND	LINCOLN (OR)	5P458	11D07-UG	11.7	211
CoastPlus	PORTLAND	LINCOLN (OR)	5P462	11G13-UG	11.7	173

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
CoastPlus	PORTLAND	LINCOLN (OR)	5P464	11G16-UG	11.6	155
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	12.8	2,347
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	12.8	3,274
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	12.5	3,103
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	12.5	3,090
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	12.5	633
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	12.5	1,768
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	12.5	136
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	12.5	3,084
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	12.5	2,432
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	12.5	3,292
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	12.5	1,385
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	12.5	2,007
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	12.5	2,582
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	12.5	3,418
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	12.5	3,546
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	12.5	2,264
Northeast	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	20.8	1,515
Northeast	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	12.5	953
Northeast	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	12.5	1,122
Northeast	ENTERPRISE	JOSEPH	5W21	PRAIRIE	12.5	876
Northeast	ENTERPRISE	MINAM	5W18	MINAM	12.5	13
Northeast	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	19.9	175
Northeast	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	19.9	58
Northeast	ENTERPRISE	WALLOWA	5W28	CITY	12.5	884
Northeast	HERMISTON	ARLINGTON	5K25	ARLINGTON	12.5	523
Northeast	HERMISTON	BLALOCK	5K40	BLALOCK	12.5	21
Northeast	HERMISTON	DALREED	4K16	WILLOW COVE	34.5	72
Northeast	HERMISTON	DALREED	4K36	SIMTAG	34.5	21
Northeast	HERMISTON	DALREED	4K46	BOEING	34.5	177
Northeast	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	12.5	1,436
Northeast	HERMISTON	HINKLE	5W82	MEADOWS	12.5	377
Northeast	HERMISTON	UMATILLA	5W658	UMATILLA	12.5	1,442
Northeast	HERMISTON	UMATILLA	5W660	MCNARY	12.5	945
Northeast	HERMISTON	UMATILLA	5W664	PORT FEEDER	12.5	59

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Northeast	PENDLETON	ATHENA	5W703	CITY	12.5	841
Northeast	PENDLETON	ATHENA	5W705	HELIX	12.5	421
Northeast	PENDLETON	BUCKAROO	5W201	STATE HOSP.	12.5	390
Northeast	PENDLETON	BUCKAROO	5W202	REITH	12.5	712
Northeast	PENDLETON	BUCKAROO	5W203	MONTEE	12.5	1,065
Northeast	PENDLETON	MCKAY (OR)	5W856	MCKAY	12.5	1,803
Northeast	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	12.5	181
Northeast	PENDLETON	PENDLETON	5W401	WEST HILLS	12.5	1,482
Northeast	PENDLETON	PENDLETON	5W402	HARRIS HTS	12.5	2,032
Northeast	PENDLETON	PENDLETON	5W403	MISSION	12.5	909
Northeast	PENDLETON	PENDLETON	7W451	BUSINESS	4.1	267
Northeast	PENDLETON	PENDLETON	7W452	NORTHWEST	4.1	524
Northeast	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	4.1	318
Northeast	PENDLETON	PENDLETON	7W454	EAST END	4.1	234
Northeast	PENDLETON	PILOT ROCK	5W404	MILL (PILOT ROCK)	12.5	2
Northeast	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	12.5	1,320
Northeast	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	12.5	15
Northeast	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	12.5	449
Northeast	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	12.5	965
Northeast	WALLA WALLA	UMAPINE	5W106	FERNDALE	12.5	1,355
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	12.5	882
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	12.5	878
Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	12.5	1,005
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	12.5	1,063
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	12.5	1,331
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	12.5	1,265
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	12.5	836
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	12.5	2,444
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	12.5	1,518
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	12.5	1,110
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	12.5	1,203
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	12.5	585
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	12.5	1,231
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	12.5	1,486
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	12.5	2,654

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	12.5	2,229
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	12.5	1,813
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	12.5	1,338
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	20.8	1,852
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	20.8	869
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	12.5	1,877
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	12.5	638
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	12.5	1,636
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	12.5	1,609
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	12.5	1,034
Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	12.5	1,192
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	12.5	1,128
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	12.5	933
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	12.5	1,771
Southern OR	GRANTS PASS	OBRIEN	5R106	O'BRIEN	12.5	422
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	12.5	2,197
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	12.5	993
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	12.5	2,193
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	12.5	325
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	12.5	1,380
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	12.5	1,448
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	12.5	1,884
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	12.5	1,054
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	12.5	1,176
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	12.5	386
Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	12.5	414
Southern OR	KLAMATH FALLS	BOISE CASCADE	7L9	BOISE CASCAD	4.1	1
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	12.5	467
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	12.5	2,130
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	12.5	1,813
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	12.5	1,934
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	12.5	2,474
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	20.8	1,180
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	12.0	1,046
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	12.5	568

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	12.5	259
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	12.5	497
Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	12.5	1,698
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	12.5	163
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	12.5	229
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	12.5	533
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	12.5	2,894
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	12.5	1,506
Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	12.5	249
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	12.5	2,435
Southern OR	KLAMATH FALLS	LAKEPORT	5L61	JELDWEN	12.5	7
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	12.5	968
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	12.5	551
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	12.5	859
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	12.5	1,384
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	12.5	1,173
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	20.8	1,502
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	4.1	423
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	12.5	525
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	12.5	1,206
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	12.5	281
Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	12.5	1,475
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	12.5	824
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	12.5	320
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	12.5	804
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	12.5	1,332
Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	12.5	110
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	12.5	494
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	12.5	585
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	12.5	305
Southern OR	KLAMATH FALLS	WEST SIDE	8L10	CITY WTR PMP	2.4	1
Southern OR	MEDFORD	BEALL LANE	5R359	BEEHIVE	12.5	2
Southern OR	MEDFORD	CAMPBELL	5R216	VOORHIES	12.5	852
Southern OR	MEDFORD	MEDCO	5R280	BOISE CASCADE	12.5	1
Southern OR	MEDFORD	PROSPECT 3	5R290	P-3 FOREBAY	12.5	1

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Southern OR	MEDFORD	SAGE ROAD (OR)	5R209	TIMBER PROD	12.5	1
Southern OR	MEDFORD	SAGE ROAD (OR)	5R27	MCANDREWS	12.5	111
Southern OR	MEDFORD	WHITE CITY	5R12	INDUSTRIAL	12.5	36
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #1 SUB	6U17	BRIGGS	7.2	3
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U37	RUSA	20.8	2
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U23	FORD MILL	12.5	1
Southern OR	ROSEBURG/MYRTLECREEK	SODA SPRINGS HE PLT	6U10	CB6U10	12.5	1
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	12.5	706
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	12.5	1,721
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	12.5	12
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	12.5	935
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	12.5	1,750
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	12.5	2,150
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	12.5	995
Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	12.5	662
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	12.5	1,625
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	12.5	2,292
Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	12.5	1,924
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	12.5	1,768
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	12.5	1,844
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	12.5	1,711
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	12.5	1,257
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	12.5	906
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	12.5	1,344
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	12.5	1,530
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	20.8	1,623
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	20.8	1,390
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	12.5	775
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	12.5	1,162
Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	12.5	513
Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	12.5	253
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	12.5	2,046
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	12.5	2,727
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	12.5	1,774
Southern OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	12.5	681

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	12.5	2,122
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	12.5	2,220
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	12.5	1,563
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	12.5	1,602
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	12.5	1,869
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	12.5	1,103
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	12.5	780
Southern OR	MEDFORD	MEDFORD	5R659	MCLEAN	12.5	672
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	12.5	1,518
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	12.5	111
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	CASCADE GORGE COTTAGES	12.5	330
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	4.1	394
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	12.5	1,339
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	12.5	1,602
Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	12.5	942
Southern OR	MEDFORD	RUCH	5R69	RUCH	12.5	544
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	12.5	1,784
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	12.5	919
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	12.5	2,144
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	12.5	712
Southern OR	MEDFORD	SCENIC	5R174	UPTON	12.5	2,219
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	12.5	969
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	12.5	1,595
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	12.5	1,909
Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	20.8	2,453
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	20.8	2,630
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	20.8	1,158
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	20.8	2,658
Southern OR	MEDFORD	TALENT	5R237	TALENT	12.5	2,248
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	12.5	1,669
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	12.5	1,552
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	12.5	991
Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	12.5	158
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	12.5	653
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	12.5	216

Oregon 2023 Circuit kV and Customer Counts

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Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	12.5	960
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	12.5	1,462
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	12.5	926
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	12.5	1,482
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	12.5	27
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	12.5	231
Southern OR	MEDFORD	WHITE CITY	5R19	3M	12.5	134
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	12.5	1,958
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	12.5	83
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	12.5	383
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	12.5	870
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	12.5	433
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	7.2	93
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	20.8	2,972
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	20.8	1,281
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	20.8	798
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	20.8	1,405
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	12.5	926
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12.5	1,376
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	12.5	2,253
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	12.5	1,637
Southern OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	7.2	27
Southern OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	12.5	179
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	12.5	1,525
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	12.5	1,211
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	12.5	1,310
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	12.5	553
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	12.5	2,117
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	12.5	1,560
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	12.5	283
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	12.0	30
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	20.8	2,503
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	20.8	1,242
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	20.8	2,141
Southern OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	7.2	4

Oregon 2023 Circuit kV and Customer Counts

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Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	20.8	1,622
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	20.8	1,536
Southern OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	7.2	21
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	12.5	1,310
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	12.5	1,357
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	12.5	534
Southern OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	12.5	295
Southern OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	2.4	22
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	20.8	1,640
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	12.5	1,792
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	12.5	785
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	12.5	740
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	12.5	861
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	12.5	1,432
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	20.8	841
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	20.8	1,236
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	20.8	718
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	20.8	2,508
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	20.8	4,127
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	20.8	2,382
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	20.8	177
Willamette Valley	ALBANY	MURDER CREEK	4M250	INDUSTRIAL	20.8	4
Willamette Valley	ALBANY	MURDER CREEK	5M131	WAH CHANG SOUTH	12.5	1
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	20.8	97
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	20.8	2,145
Willamette Valley	ALBANY	OREMET	5M19	OREMET	12.5	3
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	20.8	1,857
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	20.8	2,857
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	20.8	3,745
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	20.8	2,622
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	20.8	3,195
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	20.8	4,397
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	20.8	2,960
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	20.8	2,419
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	20.8	2,587

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M394	H. P. #1	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M427	H. P. #3	20.8	1
Willamette Valley	CORVALLIS	CIRCLE BLVD	4M429	H. P. #5	20.8	1
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	4.1	226
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	4.1	271
Willamette Valley	CORVALLIS	GRANT ST	4M265	HIGH SCHOOL	20.8	2,476
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	20.8	2,486
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	20.8	2,498
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	20.8	3,623
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	20.8	1,908
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	20.8	1,300
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	20.8	1,755
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	20.8	2,185
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	20.8	3,575
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	20.8	185
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	20.8	156
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	20.8	596
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	20.8	1,608
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	20.8	1,854
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	20.8	1,152
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	20.8	997
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	20.8	1,141
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	20.8	2,380
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	20.8	1,608
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	20.8	2,171
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	20.8	3,152
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	20.8	3,066
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	20.8	2,359
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	20.8	3,153
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	20.8	2,294
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	12.5	1,695
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPAULDING	20.8	1,195
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	20.8	31
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	20.8	1,516
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	20.8	2,059

Oregon 2023 Circuit kV and Customer Counts

Oregon Region	Op Area Name	Substation Name	Circuit Id	Circuit Name	kV	Circuit Customer Count
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	20.8	2,630
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	20.8	2,015
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	20.8	1,790
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	20.8	1,265
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	20.8	2,033
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	20.8	995
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	20.8	1,747
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	20.8	2,468
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	20.8	692
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	20.8	2,081
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	12.5	1,573
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	20.8	3,501
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	20.8	3,549
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	20.8	1,574
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	20.8	917

Oregon 2023 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	29	5,896	2,474	2.4	0.012
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	29	3,660	1,323	2.8	0.022
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	1	96	212	0.5	0.005
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	17	1,072	1,420	0.8	0.012
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	1,045	78,401	2,287	34.3	0.457
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	87	10,172	1,373	7.4	0.063
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	321	66,852	2,469	27.1	0.130
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	15	1,778	1,730	1.0	0.009
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	3,791	257,086	2,513	102.3	1.509
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	40	3,717	1,276	2.9	0.031
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	141	16,188	1,059	15.3	0.133
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	113	26,748	1,532	17.5	0.074
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	296	29,542	3,230	9.1	0.092
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	155	26,089	1,967	13.3	0.079
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	9	902	1,192	0.8	0.008
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	4,357	727,053	1,842	394.7	2.365
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	4,340	532,669	817	652.0	5.312
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	2,392	377,612	1,142	330.7	2.095
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	51	6,967	1,037	6.7	0.049
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	431	48,623	1,487	32.7	0.290
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	203	20,197	1,960	10.3	0.104
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	338	47,036	2,732	17.2	0.124
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	295	38,699	1,845	21.0	0.160
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	135	27,802	1,451	19.2	0.093
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	3	472	990	0.5	0.003
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	127	16,464	1,664	9.9	0.076
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	43	10,809	1,868	5.8	0.023
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	658	83,006	2,411	34.4	0.273
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	1	220	875	0.3	0.001
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	4,609	702,613	1,598	439.7	2.884
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	155	27,820	906	30.7	0.171
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	574	48,634	1,603	30.3	0.358
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	190	30,134	3,366	9.0	0.056
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	7	649	1,306	0.5	0.005
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12	5,739	422	13.6	0.028
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	500	117,463	2,916	40.3	0.171

Oregon 2023 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	266	26,880	2,260	11.9	0.118
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12	2,082	2,669	0.8	0.004
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	43	6,493	2,487	2.6	0.017
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	401	28,426	396	71.8	1.013
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	4	1,071	2,899	0.4	0.001
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	7	1,919	151	12.7	0.046
Central OR	MADRAS	CULVER	5D5	CULVER	5,392	471,916	1,864	253.2	2.893
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,236	240,238	1,064	225.8	1.162
Central OR	MADRAS	MADRAS	5D53	AGATE	1,943	93,842	1,423	65.9	1.365
Central OR	MADRAS	MADRAS	5D57	QUARTZ	80	11,459	1,543	7.4	0.052
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	23	3,919	1,277	3.1	0.018
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	1,407	157,708	685	230.2	2.054
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	952	215,944	883	244.6	1.078
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	589	71,871	2,810	25.6	0.210
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	1,586	157,914	1,019	155.0	1.556
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	543	22,773	1,171	19.4	0.464
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	173	10,132	642	15.8	0.269
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	544	71,403	905	78.9	0.601
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	2,695	196,303	1,660	118.3	1.623
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	6,621	778,754	961	810.4	6.890
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	10,679	1,126,664	1,636	688.7	6.528
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	6,409	289,190	1,218	237.4	5.262
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	777	192,602	272	708.1	2.857
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	688	110,992	384	289.0	1.792
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,572	229,835	732	314.0	2.148
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	4,590	521,545	937	556.6	4.899
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12,389	717,072	2,388	300.3	5.188
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	5,173	83,672	1,615	51.8	3.203
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	5,147	699,383	1,236	565.8	4.164
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	15,456	452,283	3,531	128.1	4.377
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	377	27,523	270	101.9	1.396
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	3,744	266,815	2,297	116.2	1.630
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	2,042	156,470	1,754	89.2	1.164
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,620	99,847	1,184	84.3	1.368
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	970	102,677	1,208	85.0	0.803
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	1,546	89,847	999	89.9	1.548
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	345	15,605	331	47.1	1.042

Oregon 2023 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	43	3,392	938	3.6	0.046
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	1,348	371,323	1,103	336.6	1.222
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	2,207	158,770	1,391	114.1	1.587
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	580	91,692	767	119.5	0.756
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	5,488	787,009	1,354	581.2	4.053
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	814	192,419	1,669	115.3	0.488
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	1,037	114,786	1,545	74.3	0.671
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	164	14,373	149	96.5	1.101
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	445	70,313	1,734	40.5	0.257
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	48	6,174	1,427	4.3	0.034
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	718	89,344	2,078	43.0	0.346
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	1	133	1	133.0	1.000
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	35	4,662	32	145.7	1.094
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	134	16,335	1,465	11.2	0.091
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	9	926	772	1.2	0.012
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	5,667	443,374	1,847	240.1	3.068
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	133	10,328	1,379	7.5	0.096
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	564	118,005	332	355.4	1.699
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	3,027	332,101	2,071	160.4	1.462
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	3	385	3	128.5	1.000
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	2,143	282,078	1,796	157.1	1.193
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	1,953	256,246	1,718	149.2	1.137
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	3,491	434,886	2,190	198.6	1.594
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	2,164	286,246	1,786	160.3	1.212
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	1,787	350,882	710	494.2	2.517
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	5,046	210,010	2,093	100.3	2.411
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	33	6,490	1,274	5.1	0.026
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	64	22,265	2,006	11.1	0.032
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	472	69,955	1,009	69.3	0.468
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	264	28,700	1,461	19.6	0.181
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	891	50,014	782	64.0	1.139
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	880	149,692	285	525.2	3.088
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	3,010	218,463	2,293	95.3	1.313
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	8,493	247,609	3,083	80.3	2.755
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	2,237	204,986	4,571	44.8	0.489

Oregon 2023 Circuit Metrics (Excluding major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	776	99,872	665	150.2	1.167
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	411	26,224	713	36.8	0.576
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	27	3,058	361	8.5	0.075
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	1,010	18,888	719	26.3	1.405
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	1	401	577	0.7	0.002
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	1	506	254	2.0	0.004
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	41	16,711	199	84.0	0.206
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	18	5,643	179	31.5	0.101
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	6	1,846	195	9.5	0.031
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	1	81	2,641	0.0	0.000
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	367	28,519	349	81.7	1.052
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	21	4,475	542	8.3	0.039
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	81	22,238	838	26.5	0.097
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	6	850	1,133	0.8	0.005
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	22	11,312	746	15.2	0.029
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	86	13,681	1,009	13.6	0.085
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	213	16,377	2,899	5.6	0.073
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	853	66,223	907	73.0	0.940
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	109	19,031	1,520	12.5	0.072
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	6	1,747	450	3.9	0.013
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	118	12,754	2,358	5.4	0.050
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	599	105,885	3,640	29.1	0.165
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	860	325,800	2,339	139.3	0.368
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	121	8,190	1,377	5.9	0.088
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	279	49,316	1,993	24.7	0.140
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	308	52,584	1,310	40.1	0.235
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	3	533	453	1.2	0.007
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	1	112	304	0.4	0.003
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	55	5,711	998	5.7	0.055
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	16	1,486	1,796	0.8	0.009
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	79	8,184	3,496	2.3	0.023
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	53	7,012	2,433	2.9	0.022
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	29	2,156	2,437	0.9	0.012
CoastPlus	PORTLAND	KNOTT	5P366	11010	1,786	427,065	53	8,057.8	33.698
CoastPlus	PORTLAND	KNOTT	5P372	11046	7	514	787	0.7	0.009
CoastPlus	PORTLAND	KNOTT	5P374	11020	27	1,953	1,004	1.9	0.027
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	222	23,070	2,347	9.8	0.095

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CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	19	4,433	3,274	1.4	0.006
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	2,062	475,477	3,103	153.2	0.665
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	342	82,264	3,090	26.6	0.111
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	97	40,946	633	64.7	0.153
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	108	30,297	1,768	17.1	0.061
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	21	1,210	136	8.9	0.154
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	3,103	280,203	3,084	90.9	1.006
CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	2,600	295,515	2,432	121.5	1.069
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	3,353	404,922	3,292	123.0	1.019
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	3,987	710,277	1,385	512.8	2.879
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	397	52,680	2,007	26.2	0.198
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	473	71,578	2,582	27.7	0.183
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	97	10,860	3,418	3.2	0.028
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	6,464	494,111	3,546	139.3	1.823
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	52	6,949	2,264	3.1	0.023
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	1,727	101,542	1,515	67.0	1.140
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	1,021	52,130	953	54.7	1.071
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	2,500	357,543	1,122	318.7	2.228
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	952	45,972	876	52.5	1.087
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	53	7,562	13	581.7	4.077
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	344	105,710	175	604.1	1.966
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	144	38,229	58	659.1	2.483
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	2,460	189,482	884	214.3	2.783
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	613	189,797	523	362.9	1.172
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	32	12,545	21	597.4	1.524
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	73	5,740	72	79.7	1.014
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	14	3,705	21	176.4	0.667
Northeast OR	HERMISTON	DALREED	4K46	BOEING	863	129,858	177	733.7	4.876
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	4,316	423,802	1,436	295.1	3.006
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	1,146	129,978	377	344.8	3.040
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	101	17,873	1,442	12.4	0.070
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	434	75,700	945	80.1	0.459
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	3	1,383	59	23.4	0.051
Northeast OR	PENDLETON	ATHENA	5W703	CITY	2,649	227,771	841	270.8	3.150
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	564	36,102	421	85.8	1.340
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	845	83,668	390	214.5	2.167
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	401	33,783	712	47.4	0.563

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Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	186	24,425	1,065	22.9	0.175
Northeast OR	PENDLETON	MCKAY (OR)	5W856	MCKAY	3,536	183,136	1,803	101.6	1.961
Northeast OR	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	49	7,474	181	41.3	0.271
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	1,758	41,366	1,482	27.9	1.186
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	609	65,473	2,032	32.2	0.300
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	1,012	37,900	909	41.7	1.113
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	285	5,455	267	20.4	1.067
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	17	2,044	524	3.9	0.032
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST (PENDELTON)	1	70	318	0.2	0.003
Northeast OR	PENDLETON	PILOT ROCK	5W406	PILOT ROCK CITY	2,185	292,641	1,320	221.7	1.655
Northeast OR	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	1	190	15	12.6	0.067
Northeast OR	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	939	79,534	449	177.1	2.091
Northeast OR	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	2,817	304,904	965	316.0	2.919
Northeast OR	WALLA WALLA	UMAPINE	5W106	FERNDALE	1,942	97,417	1,355	71.9	1.433
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	6,111	600,782	882	681.2	6.929
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	97	18,377	878	20.9	0.110
Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	37	2,608	1,005	2.6	0.037
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	1,676	354,109	1,063	333.1	1.577
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	6,760	1,219,647	1,331	916.3	5.079
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	2,611	85,086	1,265	67.3	2.064
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	880	57,378	836	68.6	1.053
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	7,290	1,493,077	2,444	610.9	2.983
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	2,671	218,468	1,518	143.9	1.760
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	148	10,786	1,110	9.7	0.133
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	1,247	15,320	1,203	12.7	1.037
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	611	10,651	585	18.2	1.044
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	3,726	69,993	1,231	56.9	3.027
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	1,518	207,669	1,486	139.8	1.022
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	2,926	666,626	2,654	251.2	1.102
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	7,501	863,050	2,229	387.2	3.365
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	1,946	41,141	1,813	22.7	1.073
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	5,573	614,306	1,338	459.1	4.165
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	4,723	481,267	1,852	259.9	2.550
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	6,003	1,226,882	869	1,411.8	6.908
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	7,953	1,670,751	1,877	890.1	4.237
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,129	85,099	638	133.4	1.770

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Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	4,785	957,120	1,636	585.0	2.925
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	7,154	1,174,681	1,609	730.1	4.446
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	8,785	693,069	1,034	670.3	8.496
Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	1,684	129,335	1,192	108.5	1.413
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	15,997	1,085,015	1,128	961.9	14.182
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	1,101	55,021	933	59.0	1.180
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	6,700	105,996	1,771	59.9	3.783
Southern OR	GRANTS PASS	O'BRIEN	5R106	O'BRIEN	1,297	204,757	422	485.2	3.073
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	6,006	948,946	2,197	431.9	2.734
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	2,949	290,198	993	292.2	2.970
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	8,445	950,687	2,193	433.5	3.851
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	8	691	325	2.1	0.025
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	2,759	245,636	1,380	178.0	1.999
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	6,447	489,460	1,448	338.0	4.452
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	991	206,209	1,884	109.5	0.526
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	3,639	937,451	1,054	889.4	3.453
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	3,257	380,175	1,176	323.3	2.770
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	2,049	270,371	386	700.4	5.308
Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	1,544	179,017	414	432.4	3.729
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	826	31,791	467	68.1	1.769
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	2,185	189,362	2,130	88.9	1.026
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	2,240	121,240	1,813	66.9	1.236
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	1,999	82,380	1,934	42.6	1.034
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,645	110,118	2,474	44.5	1.069
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	2,451	147,555	1,180	125.0	2.077
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	5,263	774,863	1,046	740.8	5.032
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	583	118,298	568	208.3	1.026
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	540	36,247	259	140.0	2.085
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	1,104	510,143	497	1,026.4	2.221
Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	3,708	357,125	1,698	210.3	2.184
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	6	318	163	1.9	0.037
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	584	59,688	229	260.6	2.550
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	586	214,695	533	402.8	1.099
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	7,993	495,058	2,894	171.1	2.762
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	4,202	537,557	1,506	356.9	2.790

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Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	9	493	249	2.0	0.036
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	840	86,121	2,435	35.4	0.345
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	1,334	63,322	968	65.4	1.378
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	247	17,850	551	32.4	0.448
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	5,127	636,166	859	740.6	5.969
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	1,352	57,303	1,384	41.4	0.977
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	1,179	45,775	1,173	39.0	1.005
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	7,398	1,281,222	1,502	853.0	4.925
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	412	70,718	423	167.2	0.974
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	2,081	222,023	525	422.9	3.964
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	980	176,107	1,206	146.0	0.813
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	293	50,075	281	178.2	1.043
Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	7,938	569,056	1,475	385.8	5.382
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	184	17,800	824	21.6	0.223
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	143	17,236	320	53.9	0.447
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	22	3,646	804	4.5	0.027
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	2,681	270,076	1,332	202.8	2.013
Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	7	1,882	110	17.1	0.064
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	16	2,948	494	6.0	0.032
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	39	6,054	585	10.3	0.067
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	16	1,880	305	6.2	0.052
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	2,164	105,574	706	149.5	3.065
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	690	89,930	1,721	52.3	0.401
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	19	4,865	12	405.4	1.583
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	2,417	404,200	935	432.3	2.585
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	73	17,621	1,750	10.1	0.042
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,942	307,301	2,150	142.9	1.368
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	257	53,762	995	54.0	0.258
Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	419	9,616	662	14.5	0.633
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	212	62,407	1,625	38.4	0.130
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	205	26,709	2,292	11.7	0.089

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Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	225	40,396	1,924	21.0	0.117
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	82	8,097	1,768	4.6	0.046
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	57	10,020	1,844	5.4	0.031
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	428	102,931	1,711	60.2	0.250
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	20	948	1,257	0.8	0.016
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	101	23,719	906	26.2	0.111
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	177	89,966	1,344	66.9	0.132
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	1,532	544,685	1,530	356.0	1.001
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	12,411	2,166,648	1,623	1,335.0	7.647
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	3,190	1,017,257	1,390	731.8	2.295
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	189	32,874	775	42.4	0.244
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	340	86,221	1,162	74.2	0.293
Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	1,567	209,953	513	409.3	3.055
Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	313	67,966	253	268.6	1.237
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	4,160	441,877	2,046	216.0	2.033
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	6,537	343,654	2,727	126.0	2.397
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	4,373	295,246	1,774	166.4	2.465
Southern OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	5,065	543,719	681	798.4	7.438
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	8,376	827,184	2,122	389.8	3.947
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	9,906	914,096	2,220	411.8	4.462
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	2,140	355,383	1,563	227.4	1.369
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	3,819	638,399	1,602	398.5	2.384
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	620	119,753	1,869	64.1	0.332
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	1,196	91,461	1,103	82.9	1.084
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	5	1,733	780	2.2	0.006
Southern OR	MEDFORD	MEDFORD	5R659	MCLEAN	95	36,874	672	54.9	0.141
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	6,317	1,267,340	1,518	834.9	4.161
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	29	7,752	111	69.8	0.261
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	CASCADE GORGE COTTAGES	817	267,978	330	812.1	2.476
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	2,423	398,385	394	1,011.1	6.150
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	48	14,681	1,339	11.0	0.036
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	48	12,102	1,602	7.6	0.030
Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	9,827	1,629,585	942	1,729.9	10.432
Southern OR	MEDFORD	RUCH	5R69	RUCH	1,641	148,068	544	272.2	3.017

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Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	1,781	79,491	1,784	44.6	0.998
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	6	934	919	1.0	0.007
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	76	7,605	2,144	3.5	0.035
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	15	916	712	1.3	0.021
Southern OR	MEDFORD	SCENIC	5R174	UPTON	7,283	872,333	2,219	393.1	3.282
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	105	26,894	969	27.8	0.108
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	2,341	225,712	1,595	141.5	1.468
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	2,019	110,099	1,909	57.7	1.058
Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	2,889	158,396	2,453	64.6	1.178
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	2,877	87,625	2,630	33.3	1.094
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	3,319	426,404	1,158	368.2	2.866
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	8,871	773,194	2,658	290.9	3.337
Southern OR	MEDFORD	TALENT	5R237	TALENT	262	29,453	2,248	13.1	0.117
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	1,401	154,899	1,669	92.8	0.839
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	1,066	90,128	1,552	58.1	0.687
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	31	2,597	991	2.6	0.031
Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	3	686	158	4.3	0.019
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	4,276	817,935	653	1,252.6	6.548
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	33	10,921	216	50.6	0.153
Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	559	39,330	960	41.0	0.582
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	1,580	50,315	1,462	34.4	1.081
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	34	2,858	926	3.1	0.037
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	58	12,813	1,482	8.6	0.039
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	28	7,798	27	288.8	1.037
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	5	223	231	1.0	0.022
Southern OR	MEDFORD	WHITE CITY	5R19	3M	134	9,435	134	70.4	1.000
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	716	116,327	1,958	59.4	0.366
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	1	83	83	1.0	0.012
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	1,166	398,592	383	1,040.7	3.044
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	4,276	584,631	870	672.0	4.915
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	464	54,544	433	126.0	1.072
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U45	GREEN	868	148,700	-	#DIV/0	#DIV/0
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	243	86,180	93	926.7	2.613
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	3,409	192,591	2,972	64.8	1.147
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	6,714	576,732	1,281	450.2	5.241
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	35	8,381	798	10.5	0.044
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	6,779	548,252	1,405	390.2	4.825

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Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	3,095	185,781	926	200.6	3.342
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12,726	2,263,242	1,376	1,644.8	9.249
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	280	29,256	2,253	13.0	0.124
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	3,340	1,131,172	1,637	691.0	2.040
Southern OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	54	12,128	27	449.2	2.000
Southern OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	184	76,983	179	430.1	1.028
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	822	194,047	1,525	127.2	0.539
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	1,300	37,700	1,211	31.1	1.073
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	1,365	145,434	1,310	111.0	1.042
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	567	66,218	553	119.7	1.025
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	2,239	214,728	2,117	101.4	1.058
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	1,803	877,807	1,560	562.7	1.156
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	370	124,789	283	441.0	1.307
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	15	425	30	14.2	0.500
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	3,493	339,173	2,503	135.5	1.396
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	217	35,239	1,242	28.4	0.175
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	7,178	746,790	2,141	348.8	3.353
Southern OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	4	1,220	4	305.0	1.000
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	10,831	1,688,789	1,622	1,041.2	6.678
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	3,350	494,189	1,536	321.7	2.181
Southern OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	42	10,868	21	517.5	2.000
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	302	23,460	1,310	17.9	0.231
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	320	38,732	1,357	28.5	0.236
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	97	5,773	534	10.8	0.182
Southern OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	173	86,775	295	294.2	0.586
Southern OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	66	29,202	22	1,327.4	3.000
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	12,458	1,805,065	1,640	1,100.6	7.596
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	156	30,841	1,792	17.2	0.087
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	2,327	350,443	785	446.4	2.964
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	947	108,743	740	147.0	1.280
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	879	208,040	861	241.6	1.021
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	1,774	510,306	1,432	356.4	1.239
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	26	2,529	841	3.0	0.031
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	2,173	447,854	1,236	362.3	1.758

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Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	113	8,306	718	11.6	0.157
		JEFFERSON (OR)	4M125	MINT	3,679	367,097	2,508	146.4	1.467
		MURDER CREEK	4M243	SCRAVEL HILL	11,025	1,284,732	4,127	311.3	2.671
		MURDER CREEK	4M245	RURAL NW	362	50,383	2,382	21.2	0.152
		MURDER CREEK	4M249	DURA-PACIFIC	4,352	849,509	177	4,799.5	24.588
		OREMET	4M295	OAK CREEK	26	6,880	97	70.9	0.268
		OREMET	4M296	ROGERSDALE	301	53,488	2,145	24.9	0.140
		QUEEN AVE	4M217	SANTIAM	134	22,851	1,857	12.3	0.072
		QUEEN AVE	4M258	HILL STREET	831	196,479	2,857	68.8	0.291
		QUEEN AVE	4M261	WAVERLY	443	93,176	3,745	24.9	0.118
		QUEEN AVE	4M262	GEARY STREET	273	43,988	2,622	16.8	0.104
		VINE STREET	4M15	FERRY	138	20,660	3,195	6.5	0.043
		VINE STREET	4M16	WATER STREET	5,822	517,674	4,397	117.7	1.324
		BUCHANAN	4M130	HEWLETT PACKARD	159	26,508	2,960	9.0	0.054
		BUCHANAN	4M133	PEORIA	709	114,490	2,419	47.3	0.293
		BUCHANAN	4M134	N. NINTH ST.	2,883	347,226	2,587	134.2	1.114
		DIXON	7M26	FOURTH ST.	6	782	226	3.5	0.027
		DIXON	7M29	SECOND ST.	9	585	271	2.2	0.033
		GRANT ST	4M265	HIGH SCHOOL	86	9,040	2,476	3.7	0.035

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Valley									
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	126	30,699	2,486	12.3	0.051
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	2,629	241,785	2,498	96.8	1.052
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	611	118,560	3,623	32.7	0.169
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	626	156,634	1,908	82.1	0.328
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	48	4,200	1,300	3.2	0.037
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	2,539	767,837	1,755	437.5	1.447
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	7,019	382,853	2,185	175.2	3.212
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	4,306	826,307	3,575	231.1	1.204
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	369	39,187	185	211.8	1.995
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	162	29,249	156	187.5	1.038
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	845	274,589	596	460.7	1.418
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	6,381	710,996	1,608	442.2	3.968
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	4,163	303,795	1,854	163.9	2.245
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	2,357	35,137	1,152	30.5	2.046
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	2,614	266,807	997	267.6	2.622
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	4,288	491,745	1,141	431.0	3.758
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	323	25,008	2,380	10.5	0.136
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	1,807	221,391	1,608	137.7	1.124

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Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	2,825	297,532	2,171	137.0	1.301
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	2,598	350,053	3,152	111.1	0.824
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLEDALE	801	123,385	3,066	40.2	0.261
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	6,975	1,614,714	2,359	684.5	2.957
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	9,636	1,408,694	3,153	446.8	3.056
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	14,812	1,064,154	2,294	463.9	6.457
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	3,601	352,519	1,695	208.0	2.124
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPAULDING	3,548	291,065	1,195	243.6	2.969
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	33	1,581	31	51.0	1.065
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	746	161,837	1,516	106.8	0.492
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	270	34,299	2,059	16.7	0.131
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	5,891	1,179,119	2,630	448.3	2.240
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	2,863	617,281	2,015	306.3	1.421
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	5,179	1,048,674	1,790	585.9	2.893
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	1,313	357,700	1,265	282.8	1.038
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	3,981	665,289	2,033	327.2	1.958
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	4,111	795,804	995	799.8	4.132
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	2,140	186,056	1,747	106.5	1.225
Willamette	LEBANON	SWEET HOME	4M94	FOSTER	4,190	1,075,543	2,468	435.8	1.698

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Valley									
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	757	45,659	692	66.0	1.094
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	6,917	677,962	2,081	325.8	3.324
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	3,017	340,933	1,573	216.7	1.918
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	3,164	387,971	3,501	110.8	0.904
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	10,058	1,468,760	3,549	413.9	2.834
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	528	64,701	1,574	41.1	0.335
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	960	253,389	917	276.3	1.047

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Central OR	BEND/REDMOND	BEND	5D10	PORTLAND AVE	2,167	446,324	2,474	180.4	0.876
Central OR	BEND/REDMOND	BEND	5D11	GLEN VISTA	1,405	292,620	1,323	221.2	1.062
Central OR	BEND/REDMOND	BEND	5D12	DIVISION ST.	215	44,394	212	209.4	1.014
Central OR	BEND/REDMOND	BEND	5D196	MALLARD	1,787	362,152	1,420	255.0	1.258
Central OR	BEND/REDMOND	BOND STREET	5D411	BACHELOR	1,045	78,401	2,287	34.3	0.457
Central OR	BEND/REDMOND	BOND STREET	5D418	BLAKELY	87	10,172	1,373	7.4	0.063
Central OR	BEND/REDMOND	CHINA HAT	5D140	LAVA (CHINA HAT)	321	66,852	2,469	27.1	0.130
Central OR	BEND/REDMOND	CHINA HAT	5D142	HIGH DESERT	15	1,778	1,730	1.0	0.009
Central OR	BEND/REDMOND	CHINA HAT	5D144	D.R.W.	3,791	257,086	2,513	102.3	1.509
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D30	ARROWHEAD	40	3,717	1,276	2.9	0.031
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D35	WICKIUP	141	16,188	1,059	15.3	0.133
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D38	TOMAHAWK	113	26,748	1,532	17.5	0.074
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D94	TEEPEE	296	29,542	3,230	9.1	0.092
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D96	OBSIDIAN	155	26,089	1,967	13.3	0.079
Central OR	BEND/REDMOND	CLEVELAND AVE.	5D98	HUCKLEBERRY	9	902	1,192	0.8	0.008
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D131	CANYON	9,082	1,601,787	1,842	869.6	4.931
Central OR	BEND/REDMOND	CROOKED RIVER RANCH	4D30	CROOKED R.R.	4,340	532,669	817	652.0	5.312
Central OR	BEND/REDMOND	DESCHUTES	5D184	PRONGHORN	3,546	422,041	1,142	369.6	3.105
Central OR	BEND/REDMOND	DESCHUTES	5D2	DESCHUTES S	1,104	47,332	1,037	45.6	1.065
Central OR	BEND/REDMOND	HUNTERS CIRCLE	5D192	Mackinaw	1,936	114,090	1,487	76.7	1.302
Central OR	BEND/REDMOND	OVERPASS	5D104	AWBREY	2,113	115,697	1,960	59.0	1.078
Central OR	BEND/REDMOND	OVERPASS	5D106	NEZ PERCE	3,161	188,186	2,732	68.9	1.157
Central OR	BEND/REDMOND	OVERPASS	5D120	CHINOOK	2,454	147,022	1,845	79.7	1.330
Central OR	BEND/REDMOND	OVERPASS	5D128	PAIUTE	1,617	101,902	1,451	70.2	1.114
Central OR	BEND/REDMOND	OVERPASS	5D155	APACHE	1,067	53,672	990	54.2	1.078
Central OR	BEND/REDMOND	PILOT BUTTE	5D261	KLONDIKE	127	16,464	1,664	9.9	0.076
Central OR	BEND/REDMOND	PILOT BUTTE	5D263	DRAKE FEEDER	1,971	112,292	1,868	60.1	1.055
Central OR	BEND/REDMOND	PILOT BUTTE	5D265	DOBBIN	658	83,006	2,411	34.4	0.273
Central OR	BEND/REDMOND	REDMOND	5D21	SOUTH (REDMOND)	1	220	875	0.3	0.001
Central OR	BEND/REDMOND	REDMOND	5D22	INDUSTRIAL	4,609	702,613	1,598	439.7	2.884
Central OR	BEND/REDMOND	REDMOND	5D223	TETHEROW	155	27,820	906	30.7	0.171
Central OR	BEND/REDMOND	REDMOND	5D226	CLINE FALLS	574	48,634	1,603	30.3	0.358
Central OR	BEND/REDMOND	REDMOND	5D227	WINDSOR	3,555	968,633	3,366	287.8	1.056
Central OR	BEND/REDMOND	REDMOND	5D228	CITY	7	649	1,306	0.5	0.005
Central OR	BEND/REDMOND	REDMOND	5D229	JUNIPER	12	5,739	422	13.6	0.028
Central OR	BEND/REDMOND	SHEVLIN PARK	5D238	WOLVERINE (SHP) (WAS 5D327)	500	117,463	2,916	40.3	0.171
Central OR	BEND/REDMOND	SHEVLIN PARK	5D241	BADGER (SHP)	267	26,897	2,260	11.9	0.118
Central OR	BEND/REDMOND	SHEVLIN PARK	5D243	Black Bear	12	2,082	2,669	0.8	0.004

Oregon 2023 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Central OR	BEND/REDMOND	YEW AVENUE	5D322	BIRDIE	43	6,493	2,487	2.6	0.017
Central OR	BEND/REDMOND	YEW AVENUE	5D323	FAIRWAY	401	28,426	396	71.8	1.013
Central OR	BEND/REDMOND	YEW AVENUE	5D325	EAGLE	4	1,071	2,899	0.4	0.001
Central OR	MADRAS	CHERRY LANE	5D295	7 PEAKS	7	1,919	151	12.7	0.046
Central OR	MADRAS	CULVER	5D5	CULVER	5,546	480,433	1,864	257.7	2.975
Central OR	MADRAS	MADRAS	5D52	MADRAS RURAL	1,241	240,836	1,064	226.3	1.166
Central OR	MADRAS	MADRAS	5D53	AGATE	1,943	93,842	1,423	65.9	1.365
Central OR	MADRAS	MADRAS	5D57	QUARTZ	80	11,459	1,543	7.4	0.052
Central OR	MADRAS	MADRAS	5D61	MADRAS CITY	23	3,919	1,277	3.1	0.018
Central OR	MADRAS	POWELL BUTTE	5D1	POWELL BUTTE	1,407	157,708	685	230.2	2.054
Central OR	MADRAS	PRINEVILLE	5D126	RIMROCK	952	215,944	883	244.6	1.078
Central OR	MADRAS	PRINEVILLE	5D167	NORTHVILLE	589	71,871	2,810	25.6	0.210
Central OR	MADRAS	PRINEVILLE	5D25	OCHOCO	2,610	312,036	1,019	306.2	2.561
Central OR	MADRAS	PRINEVILLE	5D47	MC KAY (PRINEVILLE)	543	22,773	1,171	19.4	0.464
Central OR	MADRAS	PRINEVILLE	5D48	LAMONTA	173	10,132	642	15.8	0.269
Central OR	MADRAS	PRINEVILLE	5D50	PINE CONE	544	71,403	905	78.9	0.601
Central OR	MADRAS	PRINEVILLE	5D69	GRIMES FLAT	2,695	196,303	1,660	118.3	1.623
Central OR	MADRAS	WARM SPRINGS	4D68	WARM SPRINGS (OR)	6,621	778,754	961	810.4	6.890
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A10	HAYSTACK	10,679	1,126,664	1,636	688.7	6.528
CoastPlus	CLATSOP (ASTORIA)	CANNON BEACH	5A8	ECOLA	6,409	289,190	1,218	237.4	5.262
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A51	JOHN DAY	781	193,011	272	709.6	2.871
CoastPlus	CLATSOP (ASTORIA)	FERN HILL SUB	5A52	SCANDINAVIAN	688	110,992	384	289.0	1.792
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A92	SVENSEN	1,574	230,497	732	314.9	2.150
CoastPlus	CLATSOP (ASTORIA)	KNAPPA SVENSEN	5A93	BRADWOOD	4,590	521,545	937	556.6	4.899
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A80	GROVE	12,389	717,072	2,388	300.3	5.188
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A81	CENTRAL	5,173	83,672	1,615	51.8	3.203
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A82	NECANICUM	5,147	699,383	1,236	565.8	4.164
CoastPlus	CLATSOP (ASTORIA)	SEASIDE	5A83	GEARHART	15,456	452,283	3,531	128.1	4.377
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A15	CITY	665	240,235	270	889.8	2.463
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A16	MILL (WARRENTON)	6,020	1,908,341	2,297	830.8	2.621
CoastPlus	CLATSOP (ASTORIA)	WARRENTON	5A20	SOUTH (WARRENTON)	3,802	1,420,209	1,754	809.7	2.168
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A202	PORT DOCK	1,620	99,847	1,184	84.3	1.368
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A204	MOO COW	970	102,677	1,208	85.0	0.803
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A205	FIFTH STREET	1,546	89,847	999	89.9	1.548
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A206	YOUNGS BAY #6	345	15,605	331	47.1	1.042
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A210	YOUNGS BAY #10	43	3,392	938	3.6	0.046
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A211	OLNEY	1,348	371,323	1,103	336.6	1.222
CoastPlus	CLATSOP (ASTORIA)	YOUNGS BAY	5A213	INDUSTRIAL	2,207	158,770	1,391	114.1	1.587
CoastPlus	COOS BAY/COQUILLE	BANDON TIE (BPA)	L804	BANDON	581	91,726	767	119.6	0.757

Oregon 2023 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	COOS BAY/COQUILLE	COOS RIVER	4C106	COOS RIVER	5,776	873,032	1,354	644.8	4.266
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C41	HENRY STREET	814	192,419	1,669	115.3	0.488
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C42	TERRES HGHTS	1,042	115,528	1,545	74.8	0.674
CoastPlus	COOS BAY/COQUILLE	COQUILLE	4C43	INDUSTRIAL	164	14,373	149	96.5	1.101
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C108	EMPIRE	445	70,313	1,734	40.5	0.257
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C89	SCOTT	48	6,174	1,427	4.3	0.034
CoastPlus	COOS BAY/COQUILLE	EMPIRE	4C90	CHARLESTON	718	89,344	2,078	43.0	0.346
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C11	WEYCO#2	1	133	1	133.0	1.000
CoastPlus	COOS BAY/COQUILLE	JORDAN POINT	5C6	SAND DUNES (JORDAN POINT)	35	4,662	32	145.7	1.094
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C48	CITY CENTER	134	16,335	1,465	11.2	0.091
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C49	EASTSIDE	9	926	772	1.2	0.012
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C50	BUNKERHILL	5,667	443,374	1,847	240.1	3.068
CoastPlus	COOS BAY/COQUILLE	LOCKHART	4C97	ENGLEWOOD	133	10,328	1,379	7.5	0.096
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C36	NORTH (MYRTLE POINT)	564	118,005	332	355.4	1.699
CoastPlus	COOS BAY/COQUILLE	MYRTLE POINT	4C37	MAPLE STREET	3,386	506,861	2,071	244.7	1.635
CoastPlus	COOS BAY/COQUILLE	SOUTH DUNES	5C9	DOUGLAS CHIP	3	385	3	128.5	1.000
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C112	WOODLAND	2,143	282,078	1,796	157.1	1.193
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C66	BAYSHORE	3,344	329,088	1,718	191.6	1.946
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C67	INDUSTRIAL	3,491	434,886	2,190	198.6	1.594
CoastPlus	COOS BAY/COQUILLE	STATE STREET	4C86	BANGOR	2,164	286,246	1,786	160.3	1.212
CoastPlus	HOOD RIVER	GORDON HOLLOW	4K1	SHERMAN 208	1,787	350,882	710	494.2	2.517
CoastPlus	HOOD RIVER	HOOD RIVER	5K37	RESIDENTIAL	5,046	210,010	2,093	100.3	2.411
CoastPlus	HOOD RIVER	HOOD RIVER	5K43	BELMONT	33	6,490	1,274	5.1	0.026
CoastPlus	HOOD RIVER	HOOD RIVER	5K44	NORTH (HOOD RIVER)	64	22,265	2,006	11.1	0.032
CoastPlus	HOOD RIVER	HOOD RIVER	5K70	EASTSIDE	472	69,955	1,009	69.3	0.468
CoastPlus	HOOD RIVER	HOOD RIVER	5K74	SOUTH (HOOD RIVER)	264	28,700	1,461	19.6	0.181
CoastPlus	HOOD RIVER	KENWOOD	5K50	OAKGROVE	891	50,014	782	64.0	1.139
CoastPlus	HOOD RIVER	WASCO	7K1	WASCO	880	149,692	285	525.2	3.088
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A310	INLAND FEEDER	5,338	812,171	2,293	354.2	2.328
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A312	OCEAN	8,662	336,480	3,083	109.1	2.810
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A316	LAKE (DEVILS LAKE)	5,043	2,423,920	4,571	530.3	1.103
CoastPlus	LINCOLN CITY	DEVILS LAKE	4A338	SIUSLAW	1,343	520,210	665	782.3	2.020
CoastPlus	LINCOLN CITY	GLENEDEN	7A364	GLENEDEN	411	26,224	713	36.8	0.576
CoastPlus	LINCOLN CITY	GLENEDEN	7A366	SALISHAN	27	3,058	361	8.5	0.075
CoastPlus	LINCOLN CITY	WECOMA BEACH	7A354	WECOMA	1,010	18,888	719	26.3	1.405
CoastPlus	PORTLAND	ALBINA	5P111	ALBINA 11C01-UG	1	401	577	0.7	0.002
CoastPlus	PORTLAND	ALBINA	5P91	11C11-UG	1	506	254	2.0	0.004

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Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P22	ALDERWOOD #2	41	16,711	199	84.0	0.206
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P33	ALDERWOOD #4	18	5,643	179	31.5	0.101
CoastPlus	PORTLAND	ALDERWOOD 115/12.5	5P604	ALDERWOOD #3	6	1,846	195	9.5	0.031
CoastPlus	PORTLAND	COLUMBIA (OR)	5P266	COLUMBIA #2	1	81	2,641	0.0	0.000
CoastPlus	PORTLAND	COLUMBIA (OR)	5P268	COLUMBIA #1	367	28,519	349	81.7	1.052
CoastPlus	PORTLAND	COLUMBIA (OR)	5P474	COLUMBIA #6	21	4,475	542	8.3	0.039
CoastPlus	PORTLAND	COLUMBIA (OR)	5P476	COLUMBIA #3	82	23,022	838	27.5	0.098
CoastPlus	PORTLAND	COLUMBIA (OR)	5P478	COLUMBIA #4	6	850	1,133	0.8	0.005
CoastPlus	PORTLAND	CULLY	5P288	CULLY #3-UG	22	11,312	746	15.2	0.029
CoastPlus	PORTLAND	CULLY	5P290	CULLY #2	86	13,681	1,009	13.6	0.085
CoastPlus	PORTLAND	CULLY	5P292	CULLY #1	285	34,454	2,899	11.9	0.098
CoastPlus	PORTLAND	HOLLADAY (OR)	5P158	HOLLADAY #6	853	66,223	907	73.0	0.940
CoastPlus	PORTLAND	HOLLYWOOD	5P203	HOLLYWOOD #3	111	20,430	1,520	13.4	0.073
CoastPlus	PORTLAND	HOLLYWOOD	5P204	HOLLYWOOD #2	6	1,747	450	3.9	0.013
CoastPlus	PORTLAND	HOLLYWOOD	5P205	HOLLYWOOD #1	118	12,754	2,358	5.4	0.050
CoastPlus	PORTLAND	HOLLYWOOD	5P208	HOLLYWOOD #5	599	105,885	3,640	29.1	0.165
CoastPlus	PORTLAND	HOLLYWOOD	5P209	HOLLYWOOD #4	860	325,800	2,339	139.3	0.368
CoastPlus	PORTLAND	KENNEDY	5P12	CB 5P12	121	8,190	1,377	5.9	0.088
CoastPlus	PORTLAND	KENNEDY	5P14	CB 5P14	279	49,316	1,993	24.7	0.140
CoastPlus	PORTLAND	KENNEDY	5P15	CB 5P15	309	52,721	1,310	40.2	0.236
CoastPlus	PORTLAND	KILLINGSWORTH	5P123	KILLINGSWORTH #3	3	533	453	1.2	0.007
CoastPlus	PORTLAND	KILLINGSWORTH	5P217	KILLINGSWORTH #5	307	25,930	304	85.3	1.010
CoastPlus	PORTLAND	KILLINGSWORTH	5P41	KILLINGSWORTH #4	55	5,711	998	5.7	0.055
CoastPlus	PORTLAND	KILLINGSWORTH	5P89	KILLINGSWORTH #2	23	2,335	1,796	1.3	0.013
CoastPlus	PORTLAND	KNOTT	5P231	KNOTT #1	80	8,316	3,496	2.4	0.023
CoastPlus	PORTLAND	KNOTT	5P232	KNOTT #2	53	7,012	2,433	2.9	0.022
CoastPlus	PORTLAND	KNOTT	5P233	KNOTT #3	29	2,156	2,437	0.9	0.012
CoastPlus	PORTLAND	KNOTT	5P366	11010	1,786	427,065	53	8,057.8	33.698
CoastPlus	PORTLAND	KNOTT	5P372	11046	7	514	787	0.7	0.009
CoastPlus	PORTLAND	KNOTT	5P374	11020	27	1,953	1,004	1.9	0.027
CoastPlus	PORTLAND	MALLORY	5P162	MALLORY #1	222	23,070	2,347	9.8	0.095
CoastPlus	PORTLAND	MALLORY	5P164	MALLORY #2	19	4,433	3,274	1.4	0.006
CoastPlus	PORTLAND	PARKROSE	5P244	PARKROSE#4	2,062	475,477	3,103	153.2	0.665
CoastPlus	PORTLAND	PARKROSE	5P246	PARKROSE#3	345	83,177	3,090	26.9	0.112
CoastPlus	PORTLAND	PARKROSE	5P250	PARKROSE#2	97	40,946	633	64.7	0.153
CoastPlus	PORTLAND	PARKROSE	5P252	PARKROSE#1	123	33,414	1,768	18.9	0.070
CoastPlus	PORTLAND	PARKROSE	5P717	PARKROSE 5	21	1,210	136	8.9	0.154
CoastPlus	PORTLAND	RUSSELLVILLE	5P274	RUSSELLVILLE #3	3,103	280,203	3,084	90.9	1.006

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CoastPlus	PORTLAND	RUSSELLVILLE	5P276	RUSSELLVILLE #4	2,623	299,773	2,432	123.3	1.079
CoastPlus	PORTLAND	RUSSELLVILLE	5P278	RUSSELLVILLE #1	3,353	404,922	3,292	123.0	1.019
CoastPlus	PORTLAND	RUSSELLVILLE	5P280	RUSSELLVILLE #2	3,987	710,277	1,385	512.8	2.879
CoastPlus	PORTLAND	VERNON	5P391	VERNON #1	397	52,680	2,007	26.2	0.198
CoastPlus	PORTLAND	VERNON	5P392	VERNON NO. 2	473	71,578	2,582	27.7	0.183
CoastPlus	PORTLAND	VERNON	5P393	VERNON #3	114	14,619	3,418	4.3	0.033
CoastPlus	PORTLAND	VERNON	5P394	VERNON # 4	6,465	494,172	3,546	139.4	1.823
CoastPlus	PORTLAND	VERNON	5P395	VERNON # 5	64	8,276	2,264	3.7	0.028
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	4W8	CREIGHTON LN	1,727	101,542	1,515	67.0	1.140
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W15	CITY	1,021	52,130	953	54.7	1.071
Northeast OR	ENTERPRISE	ENTERPRISE (OR)	5W26	RURAL (ENTERPRISE)	2,500	357,543	1,122	318.7	2.228
Northeast OR	ENTERPRISE	JOSEPH	5W21	PRAIRIE	952	45,972	876	52.5	1.087
Northeast OR	ENTERPRISE	MINAM	5W18	MINAM	53	7,562	13	581.7	4.077
Northeast OR	ENTERPRISE	PALLETTE	4W14	PALLETTE NORTH	344	105,710	175	604.1	1.966
Northeast OR	ENTERPRISE	PALLETTE	4W15	PALLETTE SOUTH	144	38,229	58	659.1	2.483
Northeast OR	ENTERPRISE	WALLOWA	5W28	CITY	2,460	189,482	884	214.3	2.783
Northeast OR	HERMISTON	ARLINGTON	5K25	ARLINGTON	613	189,797	523	362.9	1.172
Northeast OR	HERMISTON	BLALOCK	5K40	BLALOCK	32	12,545	21	597.4	1.524
Northeast OR	HERMISTON	DALREED	4K16	WILLOW COVE	73	5,740	72	79.7	1.014
Northeast OR	HERMISTON	DALREED	4K36	SIMTAG	14	3,705	21	176.4	0.667
Northeast OR	HERMISTON	DALREED	4K46	BOEING	863	129,858	177	733.7	4.876
Northeast OR	HERMISTON	HERMISTON	5W602	RURAL (HERMISTON)	4,316	423,802	1,436	295.1	3.006
Northeast OR	HERMISTON	HINKLE	5W82	MEADOWS	1,146	129,978	377	344.8	3.040
Northeast OR	HERMISTON	UMATILLA	5W658	UMATILLA	101	17,873	1,442	12.4	0.070
Northeast OR	HERMISTON	UMATILLA	5W660	MCNARY	434	75,700	945	80.1	0.459
Northeast OR	HERMISTON	UMATILLA	5W664	PORT FEEDER	3	1,383	59	23.4	0.051
Northeast OR	PENDLETON	ATHENA	5W703	CITY	2,649	227,771	841	270.8	3.150
Northeast OR	PENDLETON	ATHENA	5W705	HELIX	564	36,102	421	85.8	1.340
Northeast OR	PENDLETON	BUCKAROO	5W201	STATE HOSP.	845	83,668	390	214.5	2.167
Northeast OR	PENDLETON	BUCKAROO	5W202	REITH	401	33,783	712	47.4	0.563
Northeast OR	PENDLETON	BUCKAROO	5W203	MONTEE	186	24,425	1,065	22.9	0.175
Northeast OR	PENDLETON	MCKAY (OR)	5W856	MCKAY	3,536	183,136	1,803	101.6	1.961
Northeast OR	PENDLETON	MCKAY (OR)	5W857	WILDHORSE	49	7,474	181	41.3	0.271
Northeast OR	PENDLETON	PENDLETON	5W401	WEST HILLS	1,758	41,366	1,482	27.9	1.186
Northeast OR	PENDLETON	PENDLETON	5W402	HARRIS HTS	613	65,793	2,032	32.4	0.302
Northeast OR	PENDLETON	PENDLETON	5W403	MISSION	1,012	37,900	909	41.7	1.113
Northeast OR	PENDLETON	PENDLETON	7W451	BUSINESS	285	5,455	267	20.4	1.067
Northeast OR	PENDLETON	PENDLETON	7W452	NORTHWEST	17	2,044	524	3.9	0.032
Northeast OR	PENDLETON	PENDLETON	7W453	SOUTHWEST	1	70	318	0.2	0.003

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Northeast OR Northeast OR Northeast OR Northeast OR Northeast OR	PENDLETON			(PENDELTON)					
		PILOT ROCK	5W406	PILOT ROCK CITY	2,185	292,641	1,320	221.7	1.655
	PENDLETON	WESTON NEW (OR)	5W40	WESTON CANNERY	1	190	15	12.6	0.067
	PENDLETON	WESTON NEW (OR)	5W7	SCOTTS FEEDER	939	79,534	449	177.1	2.091
	WALLA WALLA	UMAPINE	5W105	UMAPINE FEEDER	2,951	349,519	965	362.2	3.058
	WALLA WALLA	UMAPINE	5W106	FERNDALE	1,942	97,417	1,355	71.9	1.433
Southern OR	GRANTS PASS	AGNESS AVE	5R172	SPALDING MILL	6,992	617,653	882	700.3	7.927
Southern OR	GRANTS PASS	AGNESS AVE	5R173	JONES CREEK	976	35,210	878	40.1	1.112
Southern OR	GRANTS PASS	AGNESS AVE	5R322	ANTEATER	1,043	21,872	1,005	21.8	1.038
Southern OR	GRANTS PASS	APPLEGATE	5R267	MURPHY	2,755	373,885	1,063	351.7	2.592
Southern OR	GRANTS PASS	APPLEGATE	5R278	HIGHWAY	8,091	1,227,633	1,331	922.3	6.079
Southern OR	GRANTS PASS	BEACON	5R104	SAVAGE ST	2,611	85,086	1,265	67.3	2.064
Southern OR	GRANTS PASS	BEACON	5R105	BEACON ST	880	57,378	836	68.6	1.053
Southern OR	GRANTS PASS	CAVE JUNCTION	5R52	FREE& EASY	10,080	2,286,357	2,444	935.5	4.124
Southern OR	GRANTS PASS	CAVE JUNCTION	5R53	ROUGH &READY	4,179	629,473	1,518	414.7	2.753
Southern OR	GRANTS PASS	CAVEMAN	5R295	QUAIL	148	10,786	1,110	9.7	0.133
Southern OR	GRANTS PASS	CAVEMAN	5R82	WASHINGTON	1,247	15,320	1,203	12.7	1.037
Southern OR	GRANTS PASS	CAVEMAN	5R98	MANZANITA	611	10,651	585	18.2	1.044
Southern OR	GRANTS PASS	CAVEMAN	5R99	CAVEMAN	3,726	69,993	1,231	56.9	3.027
Southern OR	GRANTS PASS	DOWELL	5R331	DOVE	1,518	207,669	1,486	139.8	1.022
Southern OR	GRANTS PASS	DOWELL	5R334	DUCK	2,926	666,626	2,654	251.2	1.102
Southern OR	GRANTS PASS	EASY VALLEY	5R123	G STREET	7,501	863,050	2,229	387.2	3.365
Southern OR	GRANTS PASS	EASY VALLEY	5R125	ROGUE	1,946	41,141	1,813	22.7	1.073
Southern OR	GRANTS PASS	EASY VALLEY	5R259	CHINOOK	6,059	763,100	1,338	570.3	4.528
Southern OR	GRANTS PASS	FIELDER CREEK	4R33	ELK FDR.	4,726	482,446	1,852	260.5	2.552
Southern OR	GRANTS PASS	FIELDER CREEK	4R34	BEAR FDR	6,003	1,226,882	869	1,411.8	6.908
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R133	GLENDALE	8,029	1,786,073	1,877	951.6	4.278
Southern OR	GRANTS PASS	GLENDALE SUBSTATION	5R143	INDUSTRIAL	1,226	137,914	638	216.2	1.922
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R62	WILD PRAIRIE	8,117	1,477,806	1,636	903.3	4.961
Southern OR	GRANTS PASS	JEROME PRAIRIE	5R63	WOOD RIVER	10,382	1,542,444	1,609	958.6	6.452
Southern OR	GRANTS PASS	MERLIN	5R232	MERLIN-HUGO	8,816	701,695	1,034	678.6	8.526
Southern OR	GRANTS PASS	MERLIN	5R234	PARADISE	1,684	129,335	1,192	108.5	1.413
Southern OR	GRANTS PASS	MERLIN	5R248	PLEASANT VALLEY-MERLIN FEEDER	16,138	1,188,529	1,128	1,053.7	14.307
Southern OR	GRANTS PASS	MERLIN	5R251	BADGER	1,101	55,021	933	59.0	1.180
Southern OR	GRANTS PASS	MERLIN	5R288	MONARCH	6,700	105,996	1,771	59.9	3.783
Southern OR	GRANTS PASS	OBRIEN	5R106	O'BRIEN	1,719	315,582	422	747.8	4.073
Southern OR	GRANTS PASS	PARK STREET (OR)	5R114	FRUITDALE	8,191	990,789	2,197	451.0	3.728
Southern OR	GRANTS PASS	PARK STREET (OR)	5R115	ALLEN CREEK	3,981	310,001	993	312.2	4.009

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Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Southern OR	GRANTS PASS	PARK STREET (OR)	5R121	NEW HOPE	10,653	992,970	2,193	452.8	4.858
Southern OR	GRANTS PASS	PARK STREET (OR)	5R164	EXPRESS	334	6,934	325	21.3	1.028
Southern OR	GRANTS PASS	PARK STREET (OR)	5R169	PORTOLA	4,144	272,159	1,380	197.2	3.003
Southern OR	GRANTS PASS	PROVOLT	5R67	NORTH-SOUTH	7,892	498,130	1,448	344.0	5.450
Southern OR	GRANTS PASS	ROGUE RIVER	5R77	SAVAGE/WIMER	4,613	769,613	1,884	408.5	2.449
Southern OR	GRANTS PASS	ROGUE RIVER	5R78	ROCKY POINT (ROGUE RIVER)	3,639	937,451	1,054	889.4	3.453
Southern OR	GRANTS PASS	SELMA	5R65	DEER CREEK	5,353	1,409,794	1,176	1,198.8	4.552
Southern OR	KLAMATH FALLS	BEATTY	5L1	BEATTY	2,049	270,371	386	700.4	5.308
Southern OR	KLAMATH FALLS	BLY	5L14	TOWN (BLY)	1,544	179,017	414	432.4	3.729
Southern OR	KLAMATH FALLS	BONANZA (OR)	5L7	POE VALLEY	826	31,791	467	68.1	1.769
Southern OR	KLAMATH FALLS	BRYANT	5L2	GARY STREET	2,185	189,362	2,130	88.9	1.026
Southern OR	KLAMATH FALLS	BRYANT	5L3	WASHBURN	2,240	121,240	1,813	66.9	1.236
Southern OR	KLAMATH FALLS	BRYANT	5L4	SUMMERS LANE	1,999	82,380	1,934	42.6	1.034
Southern OR	KLAMATH FALLS	BRYANT	5L5	MOYINA HTS.	2,645	110,118	2,474	44.5	1.069
Southern OR	KLAMATH FALLS	CASEBEER SUB	4L16	LANGELL VLY	2,451	147,555	1,180	125.0	2.077
Southern OR	KLAMATH FALLS	CHILOQUIN	5L57	CRATER LAKE	5,263	774,863	1,046	740.8	5.032
Southern OR	KLAMATH FALLS	CHILOQUIN MRKT	5L37	WILLIAMSON	583	118,298	568	208.3	1.026
Southern OR	KLAMATH FALLS	DAIRY	5L42	SWAN LAKE	541	36,359	259	140.4	2.089
Southern OR	KLAMATH FALLS	DAIRY	5L43	DAIRY	1,104	510,143	497	1,026.4	2.221
Southern OR	KLAMATH FALLS	HAMAKER	5L55	KENO	3,708	357,125	1,698	210.3	2.184
Southern OR	KLAMATH FALLS	HAMAKER	5L56	MOUNTAIN	6	318	163	1.9	0.037
Southern OR	KLAMATH FALLS	HENLEY	5L58	HENLEY	584	59,688	229	260.6	2.550
Southern OR	KLAMATH FALLS	HENLEY	5L59	WEST	587	214,841	533	403.1	1.101
Southern OR	KLAMATH FALLS	HORNET	5L44	HOMEDALE	7,993	495,058	2,894	171.1	2.762
Southern OR	KLAMATH FALLS	HORNET	5L45	CRYSTAL SPR	4,202	537,557	1,506	356.9	2.790
Southern OR	KLAMATH FALLS	LAKEPORT	5L49	WOCUS	9	493	249	2.0	0.036
Southern OR	KLAMATH FALLS	LAKEPORT	5L54	SOUTH (LAKEPORT)	840	86,121	2,435	35.4	0.345
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L26	LAKE (MERRILL)	1,334	63,322	968	65.4	1.378
Southern OR	KLAMATH FALLS	MERRILL (OR)	5L27	NORTH (MERRILL)	247	17,850	551	32.4	0.448
Southern OR	KLAMATH FALLS	MODOC	5L36	MODOC	5,178	638,906	859	743.8	6.028
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L46	ELDORADO	1,352	57,303	1,384	41.4	0.977
Southern OR	KLAMATH FALLS	ROSS AVENUE	5L48	BROAD ST.	1,179	45,775	1,173	39.0	1.005
Southern OR	KLAMATH FALLS	RUNNING Y	4L50	ROCKY POINT FEEDER (RUNNING Y)	7,398	1,281,222	1,502	853.0	4.925
Southern OR	KLAMATH FALLS	SHASTA WAY	7L25	SHASTA WAY	412	70,718	423	167.2	0.974
Southern OR	KLAMATH FALLS	SPRAGUE RIVER	5L8	SPRAGUE RIVER	2,081	222,023	525	422.9	3.964
Southern OR	KLAMATH FALLS	TEXUM	5L112	ANDERSON	980	176,107	1,206	146.0	0.813
Southern OR	KLAMATH FALLS	TEXUM	5L113	TOWER	293	50,075	281	178.2	1.043

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Southern OR	KLAMATH FALLS	TEXUM	5L116	ALTAMONT	7,938	569,056	1,475	385.8	5.382
Southern OR	KLAMATH FALLS	TURKEY HILL	5L20	MALIN CITY	184	17,800	824	21.6	0.223
Southern OR	KLAMATH FALLS	TURKEY HILL	5L23	RURAL (TURKEY HILL)	143	17,236	320	53.9	0.447
Southern OR	KLAMATH FALLS	WEST SIDE	5L12	ORINDALE	24	3,864	804	4.8	0.030
Southern OR	KLAMATH FALLS	WEST SIDE	5L15	CALIFORNIA	2,681	270,076	1,332	202.8	2.013
Southern OR	KLAMATH FALLS	WEST SIDE	5L16	MAIN ST (WEST SIDE HE PLANT)	7	1,882	110	17.1	0.064
Southern OR	KLAMATH FALLS	WEST SIDE	5L17	PINE ST (WEST SIDE HE PLANT)	16	2,948	494	6.0	0.032
Southern OR	KLAMATH FALLS	WEST SIDE	5L18	RIVERSIDE (WEST SIDE HE PLANT)	39	6,054	585	10.3	0.067
Southern OR	KLAMATH FALLS	WEST SIDE	5L19	LAKESHORE	16	1,880	305	6.2	0.052
Southern OR	LAKEVIEW	MILE-HI	5L104	INDUSTRIAL	2,164	105,574	706	149.5	3.065
Southern OR	LAKEVIEW	MILE-HI	5L105	BUSINESS	691	89,971	1,721	52.3	0.402
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R241	CITY	19	4,865	12	405.4	1.583
Southern OR	MEDFORD	ASHLAND (MTN.AVE, PUD)	5R245	VALLEY VIEW	2,417	404,200	935	432.3	2.585
Southern OR	MEDFORD	BEALL LANE	5R361	BULLDOG	73	17,621	1,750	10.1	0.042
Southern OR	MEDFORD	BEALL LANE	5R364	BOBCAT	2,942	307,301	2,150	142.9	1.368
Southern OR	MEDFORD	BELKNAP	5R1	KOGAP	257	53,762	995	54.0	0.258
Southern OR	MEDFORD	BELKNAP	5R2	RIVERSIDE (BELKNAP)	419	9,616	662	14.5	0.633
Southern OR	MEDFORD	BELKNAP	5R3	BARNETT	212	62,407	1,625	38.4	0.130
Southern OR	MEDFORD	BELKNAP	5R47	STEWART	205	26,709	2,292	11.7	0.089
Southern OR	MEDFORD	BROOKHURST	5R118	SPRINGBROOK	225	40,396	1,924	21.0	0.117
Southern OR	MEDFORD	BROOKHURST	5R135	ROBERTS (BROOKHURST)	82	8,097	1,768	4.6	0.046
Southern OR	MEDFORD	BROOKHURST	5R32	ROXY	57	10,020	1,844	5.4	0.031
Southern OR	MEDFORD	BROOKHURST	5R33	CRATER LAKE	428	102,931	1,711	60.2	0.250
Southern OR	MEDFORD	BROOKHURST	5R75	SUNRISE (BROOKHURST)	20	948	1,257	0.8	0.016
Southern OR	MEDFORD	CAMPBELL	5R218	PHOENIX	101	23,719	906	26.2	0.111
Southern OR	MEDFORD	CAMPBELL	5R227	FERN VALLEY	177	89,966	1,344	66.9	0.132
Southern OR	MEDFORD	CAMPBELL	5R312	COBRA	1,532	544,685	1,530	356.0	1.001
Southern OR	MEDFORD	DODGE BRIDGE	4R1	SALMON	12,411	2,166,648	1,623	1,335.0	7.647
Southern OR	MEDFORD	DODGE BRIDGE	4R35	MEADOWS ROAD	3,190	1,017,257	1,390	731.8	2.295
Southern OR	MEDFORD	FOOTHILLS	5R38	HOSPITAL	189	32,874	775	42.4	0.244
Southern OR	MEDFORD	FOOTHILLS	5R39	PIERCE ROAD	340	86,221	1,162	74.2	0.293
Southern OR	MEDFORD	FRALEY	5R87	TABLE ROCK	1,567	209,953	513	409.3	3.055

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Southern OR	MEDFORD	FRALEY	5R88	DODGE BRIDGE	313	67,966	253	268.6	1.237
Southern OR	MEDFORD	GOLD HILL	5R103	GOLD HILL	4,163	442,372	2,046	216.2	2.035
Southern OR	MEDFORD	GRIFFIN CREEK	5R204	HULL RD	9,284	395,847	2,727	145.2	3.404
Southern OR	MEDFORD	GRIFFIN CREEK	5R206	GRIFFIN CREEK	6,156	329,123	1,774	185.5	3.470
Southern OR	MEDFORD	HUMBUG CREEK	5R287	HUMMINGBIRD	6,449	1,047,520	681	1,538.2	9.470
Southern OR	MEDFORD	JACKSONVILLE	5R284	STAGE RD	10,501	2,436,077	2,122	1,148.0	4.949
Southern OR	MEDFORD	JACKSONVILLE	5R285	JACKSONVILLE HWY	14,895	4,984,328	2,220	2,245.2	6.709
Southern OR	MEDFORD	MEDFORD	5R21	MELROSE	2,140	355,383	1,563	227.4	1.369
Southern OR	MEDFORD	MEDFORD	5R23	SPRING ST.	3,819	638,399	1,602	398.5	2.384
Southern OR	MEDFORD	MEDFORD	5R250	BIG Y	1,072	140,259	1,869	75.0	0.574
Southern OR	MEDFORD	MEDFORD	5R253	APPLE	1,196	91,461	1,103	82.9	1.084
Southern OR	MEDFORD	MEDFORD	5R257	PEAR	5	1,733	780	2.2	0.006
Southern OR	MEDFORD	MEDFORD	5R659	MCLEAN	95	36,874	672	54.9	0.141
Southern OR	MEDFORD	OAK KNOLL	5R55	SISKIYOU	6,318	1,267,469	1,518	835.0	4.162
Southern OR	MEDFORD	OAK KNOLL	5R56	HIGHWAY 99	29	7,752	111	69.8	0.261
Southern OR	MEDFORD	PROSPECT CNTRL	5R40	CASCADE GORGE COTTAGES	818	268,117	330	812.5	2.479
Southern OR	MEDFORD	RED BLANKET	7R5	PROSPECT	2,423	398,385	394	1,011.1	6.150
Southern OR	MEDFORD	ROXY ANN	5R350	St. Bernard	48	14,681	1,339	11.0	0.036
Southern OR	MEDFORD	ROXY ANN	5R354	RACCOON	48	12,102	1,602	7.6	0.030
Southern OR	MEDFORD	RUCH	5R68	APPLEGATE	10,780	1,748,710	942	1,856.4	11.444
Southern OR	MEDFORD	RUCH	5R69	RUCH	2,203	219,900	544	404.2	4.050
Southern OR	MEDFORD	SAGE ROAD (OR)	5R211	COLUMBUS	1,781	79,491	1,784	44.6	0.998
Southern OR	MEDFORD	SAGE ROAD (OR)	5R226	BOISE	6	934	919	1.0	0.007
Southern OR	MEDFORD	SAGE ROAD (OR)	5R28	ROSS	76	7,605	2,144	3.5	0.035
Southern OR	MEDFORD	SAGE ROAD (OR)	5R29	EDWARDS	15	916	712	1.3	0.021
Southern OR	MEDFORD	SCENIC	5R174	UPTON	7,283	872,333	2,219	393.1	3.282
Southern OR	MEDFORD	SCENIC	5R180	HEAD RD	105	26,894	969	27.8	0.108
Southern OR	MEDFORD	SCENIC	5R182	TAYLOR RD	2,341	225,712	1,595	141.5	1.468
Southern OR	MEDFORD	SCENIC	5R184	CHENEY	2,019	110,099	1,909	57.7	1.058
Southern OR	MEDFORD	STEVENS ROAD	4R13	HENRY MILLER	2,889	158,396	2,453	64.6	1.178
Southern OR	MEDFORD	STEVENS ROAD	4R17	Stingray	2,877	87,625	2,630	33.3	1.094
Southern OR	MEDFORD	STEVENS ROAD	4R41	ANTELOPE	3,320	426,708	1,158	368.5	2.867
Southern OR	MEDFORD	TAKELMA	4R9	LOST CK. (TAKELMA)	8,871	773,194	2,658	290.9	3.337
Southern OR	MEDFORD	TALENT	5R237	TALENT	262	29,453	2,248	13.1	0.117
Southern OR	MEDFORD	TALENT	5R238	ANDERSON CRK	1,402	155,008	1,669	92.9	0.840
Southern OR	MEDFORD	TALENT	5R239	HARTLEY ROAD	1,070	92,083	1,552	59.3	0.689
Southern OR	MEDFORD	TALENT	5R240	NORTH HWY	31	2,597	991	2.6	0.031

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Southern OR	MEDFORD	TOLO	5R90	TBL ROCK LBR	3	686	158	4.3	0.019
Southern OR	MEDFORD	TOLO	5R91	SAMS VALLEY	4,276	817,935	653	1,252.6	6.548
Southern OR	MEDFORD	TOLO	5R92	KIRTLAND RD	33	10,921	216	50.6	0.153
Southern OR	MEDFORD	VILAS ROAD	5R110	MCLAUGHLIN	559	39,330	960	41.0	0.582
Southern OR	MEDFORD	VILAS ROAD	5R146	KING CENTER	1,580	50,315	1,462	34.4	1.081
Southern OR	MEDFORD	VILAS ROAD	5R305	WEBFOOT	34	2,858	926	3.1	0.037
Southern OR	MEDFORD	WHITE CITY	5R11	EAGLE POINT	59	13,055	1,482	8.8	0.040
Southern OR	MEDFORD	WHITE CITY	5R13	FIR-PLY	28	7,798	27	288.8	1.037
Southern OR	MEDFORD	WHITE CITY	5R14	AGATE	5	223	231	1.0	0.022
Southern OR	MEDFORD	WHITE CITY	5R19	3M	134	9,435	134	70.4	1.000
Southern OR	MEDFORD	WHITE CITY	5R66	4 CORNERS	716	116,327	1,958	59.4	0.366
Southern OR	MEDFORD	WHITE CITY	5R76	AVE C	1	83	83	1.0	0.012
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U46	CANYONVILLE	1,166	398,592	383	1,040.7	3.044
Southern OR	ROSEBURG/MYRTLECREEK	CANYONVILLE	5U52	BEALS CREEK FEEDER	4,282	585,317	870	672.8	4.922
Southern OR	ROSEBURG/MYRTLECREEK	CARNES	5U44	RND PRARIE	464	54,544	433	126.0	1.072
Southern OR	ROSEBURG/MYRTLECREEK	CLEARWATER #2 SUB	6U33	CLEARWATER	243	86,180	93	926.7	2.613
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U38	HARVARD	3,409	192,591	2,972	64.8	1.147
Southern OR	ROSEBURG/MYRTLECREEK	CLOAKE	4U39	GOEDECK	6,714	576,732	1,281	450.2	5.241
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U80	EDENBOWER	35	8,381	798	10.5	0.044
Southern OR	ROSEBURG/MYRTLECREEK	GARDEN VALLEY	4U81	VALLEY	6,779	548,252	1,405	390.2	4.825
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U83	IDLEYLD	3,095	185,781	926	200.6	3.342
Southern OR	ROSEBURG/MYRTLECREEK	GLIDE SUBSTATION	5U84	LITTLE RIVER	12,726	2,263,242	1,376	1,644.8	9.249
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U32	SAFARI	284	29,680	2,253	13.2	0.126
Southern OR	ROSEBURG/MYRTLECREEK	GREEN SUBSTATION	5U33	SUNNYSLOPE	3,340	1,131,172	1,637	691.0	2.040
Southern OR	ROSEBURG/MYRTLECREEK	ILLAHEE FLATS	6U13	ILLAHEE FLATS SINGLE PHASE RECLOSER	54	12,128	27	449.2	2.000
Southern OR	ROSEBURG/MYRTLECREEK	LEMOLO # 1	5U920	DIAMOND LAKE	184	76,983	179	430.1	1.028
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U76	SUPER Y	822	194,047	1,525	127.2	0.539
Southern OR	ROSEBURG/MYRTLECREEK	MYRTLE CREEK	5U77	BOOMER HILL	1,300	37,700	1,211	31.1	1.073
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U11	UMPQUA	1,365	145,434	1,310	111.0	1.042
Southern OR	ROSEBURG/MYRTLECREEK	OAKLAND (OR)	5U12	STAGECOACH	567	66,218	553	119.7	1.025
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U1	TRI CITY	2,239	214,728	2,117	101.4	1.058
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U2	COW CREEK	1,803	877,807	1,560	562.7	1.156
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE	5U3	HANNA	370	124,789	283	441.0	1.307
Southern OR	ROSEBURG/MYRTLECREEK	RIDDLE-VENEER	5U50	RFP-LVL (EWP)	15	425	30	14.2	0.500
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U10	DIAMOND	6,269	1,912,356	2,503	764.0	2.505
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U22	DIXON	217	35,239	1,242	28.4	0.175
Southern OR	ROSEBURG/MYRTLECREEK	ROSEBURG	4U5	DOUGLAS	7,178	746,790	2,141	348.8	3.353
Southern OR	ROSEBURG/MYRTLECREEK	SLIDE CREEK	6U76	SLIDE CREEK CAMP	4	1,220	4	305.0	1.000

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Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U30	SHADY POINT	10,831	1,688,789	1,622	1,041.2	6.678
Southern OR	ROSEBURG/MYRTLECREEK	SOUTHGATE	4U31	BOOTH	3,350	494,189	1,536	321.7	2.181
Southern OR	ROSEBURG/MYRTLECREEK	STEAMBOAT	6U18	STEAMBOAT	42	10,868	21	517.5	2.000
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U35	NON-PAREIL	302	23,460	1,310	17.9	0.231
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U36	DEADY	320	38,732	1,357	28.5	0.236
Southern OR	ROSEBURG/MYRTLECREEK	SUTHERLIN	5U56	Industrial	97	5,773	534	10.8	0.182
Southern OR	ROSEBURG/MYRTLECREEK	TILLER	5U89	JACKSON CRK	173	86,775	295	294.2	0.586
Southern OR	ROSEBURG/MYRTLECREEK	TOKETEE	8U12	TOKETEE CITY	66	29,202	22	1,327.4	3.000
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	4U18	WILBUR	12,458	1,805,065	1,640	1,100.6	7.596
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U15	NEWTON CREEK	156	30,841	1,792	17.2	0.087
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U17	FISHER	2,327	350,443	785	446.4	2.964
Southern OR	ROSEBURG/MYRTLECREEK	WINCHESTER	5U19	EVANS	947	108,743	740	147.0	1.280
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U48	BROCKWAY	879	208,040	861	241.6	1.021
Southern OR	ROSEBURG/MYRTLECREEK	WINSTON	5U49	DILLARD	1,774	510,306	1,432	356.4	1.239
Willamette Valley	ALBANY	HAZELWOOD	4M335	WEST HIGH	26	2,529	841	3.0	0.031
Willamette Valley	ALBANY	HAZELWOOD	4M336	RIVERVIEW (HAZELWOOD)	2,174	447,922	1,236	362.4	1.759
Willamette Valley	ALBANY	JEFFERSON (OR)	4M117	MARION	113	8,306	718	11.6	0.157
Willamette Valley	ALBANY	JEFFERSON (OR)	4M125	MINT	3,679	367,097	2,508	146.4	1.467
Willamette Valley	ALBANY	MURDER CREEK	4M243	SCRAVEL HILL	11,025	1,284,732	4,127	311.3	2.671
Willamette Valley	ALBANY	MURDER CREEK	4M245	RURAL NW	367	50,722	2,382	21.3	0.154
Willamette Valley	ALBANY	MURDER CREEK	4M249	DURA-PACIFIC	4,352	849,509	177	4,799.5	24.588
Willamette Valley	ALBANY	OREMET	4M295	OAK CREEK	26	6,880	97	70.9	0.268
Willamette Valley	ALBANY	OREMET	4M296	ROGERSDALE	301	53,488	2,145	24.9	0.140
Willamette Valley	ALBANY	QUEEN AVE	4M217	SANTIAM	134	22,851	1,857	12.3	0.072
Willamette Valley	ALBANY	QUEEN AVE	4M258	HILL STREET	831	196,479	2,857	68.8	0.291
Willamette Valley	ALBANY	QUEEN AVE	4M261	WAVERLY	443	93,176	3,745	24.9	0.118
Willamette Valley	ALBANY	QUEEN AVE	4M262	GEARY STREET	273	43,988	2,622	16.8	0.104
Willamette Valley	ALBANY	VINE STREET	4M15	FERRY	138	20,660	3,195	6.5	0.043
Willamette Valley	ALBANY	VINE STREET	4M16	WATER STREET	5,822	517,674	4,397	117.7	1.324
Willamette Valley	CORVALLIS	BUCHANAN	4M130	HEWLETT PACKARD	159	26,508	2,960	9.0	0.054
Willamette Valley	CORVALLIS	BUCHANAN	4M133	PEORIA	709	114,490	2,419	47.3	0.293
Willamette Valley	CORVALLIS	BUCHANAN	4M134	N. NINTH ST.	2,883	347,226	2,587	134.2	1.114
Willamette Valley	CORVALLIS	DIXON	7M26	FOURTH ST.	6	782	226	3.5	0.027
Willamette Valley	CORVALLIS	DIXON	7M29	SECOND ST.	9	585	271	2.2	0.033
Willamette Valley	CORVALLIS	GRANT ST	4M265	HIGH SCHOOL	86	9,040	2,476	3.7	0.035
Willamette Valley	CORVALLIS	GRANT ST	4M266	CHINTIMINI	126	30,699	2,486	12.3	0.051
Willamette Valley	CORVALLIS	GRANT ST	4M268	KINGS ROAD	2,629	241,785	2,498	96.8	1.052

Oregon 2023 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Willamette Valley	CORVALLIS	GRANT ST	4M269	29TH STREET	611	118,560	3,623	32.7	0.169
Willamette Valley	CORVALLIS	HILLVIEW	4M180	WEST HILLS	626	156,634	1,908	82.1	0.328
Willamette Valley	CORVALLIS	HILLVIEW	4M181	PHILOMATH	48	4,200	1,300	3.2	0.037
Willamette Valley	CORVALLIS	HILLVIEW	4M182	SUNSET	2,539	767,837	1,755	437.5	1.447
Willamette Valley	CORVALLIS	HILLVIEW	4M185	PLYMOUTH	7,019	382,853	2,185	175.2	3.212
Willamette Valley	CORVALLIS	MARYS RIVER	4M151	GREENBERRY	4,306	826,307	3,575	231.1	1.204
Willamette Valley	CORVALLIS	MARYS RIVER	4M152	AVERY	369	39,187	185	211.8	1.995
Willamette Valley	CORVALLIS	MARYS RIVER	4M153	GALLAGHER	162	29,249	156	187.5	1.038
Willamette Valley	COTTAGE GROVE/J.CITY	COBURG	4M220	DETERING	845	274,589	596	460.7	1.418
Willamette Valley	COTTAGE GROVE/J.CITY	GOSHEN (OR)	4M360	GOSHEN FDR	8,022	736,321	1,608	457.9	4.989
Willamette Valley	COTTAGE GROVE/J.CITY	HARRISBURG SUB	4M400	TERRITORIAL	4,163	303,795	1,854	163.9	2.245
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M102	6TH STREET	2,357	35,137	1,152	30.5	2.046
Willamette Valley	COTTAGE GROVE/J.CITY	JUNCTION CITY	4M99	PRAIRIE ROAD	2,614	266,807	997	267.6	2.622
Willamette Valley	COTTAGE GROVE/J.CITY	LANCASTER	4M209	MONROE	4,597	511,042	1,141	447.9	4.029
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M84	NORTH SIDE	2,731	1,638,368	2,380	688.4	1.147
Willamette Valley	COTTAGE GROVE/J.CITY	VILLAGE GREEN	4M86	MADISON	5,205	1,230,313	1,608	765.1	3.237
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M100	RURAL (DALLAS)	2,825	297,532	2,171	137.0	1.301
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M201	INDUSTRIAL	2,598	350,053	3,152	111.1	0.824
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M202	ELLENDALE	801	123,385	3,066	40.2	0.261
Willamette Valley	DALLAS/INDEPENDENCE	DALLAS	4M238	DALLAS	6,975	1,614,714	2,359	684.5	2.957
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M22	RICKREAL	9,636	1,408,694	3,153	446.8	3.056
Willamette Valley	DALLAS/INDEPENDENCE	INDEPENDENCE	4M25	BUENA VISTA	14,812	1,064,154	2,294	463.9	6.457
Willamette Valley	LEBANON	BROWNSVILLE	4M17	CALAPOOIA	3,601	352,519	1,695	208.0	2.124
Willamette Valley	LEBANON	CALAPOOYA	4M850	SPAULDING	3,548	291,065	1,195	243.6	2.969
Willamette Valley	LEBANON	CALAPOOYA	4M851	BEAR	33	1,581	31	51.0	1.065
Willamette Valley	LEBANON	CROWFOOT	4M204	CROWFOOT	746	161,837	1,516	106.8	0.492
Willamette Valley	LEBANON	CROWFOOT	4M206	US PLYWOOD (LEBANON)	270	34,299	2,059	16.7	0.131
Willamette Valley	LEBANON	LEBANON	4M61	TANGENT	5,891	1,179,119	2,630	448.3	2.240
Willamette Valley	LEBANON	LEBANON	4M62	RALSTON	2,863	617,281	2,015	306.3	1.421
Willamette Valley	LEBANON	LEBANON	4M63	TENNESSEE	5,261	1,059,180	1,790	591.7	2.939
Willamette Valley	LEBANON	LEBANON	4M79	CROWN Z	1,313	357,700	1,265	282.8	1.038
Willamette Valley	LEBANON	SWEET HOME	4M37	HOLLEY	3,981	665,289	2,033	327.2	1.958
Willamette Valley	LEBANON	SWEET HOME	4M38	NARROWS	4,111	795,804	995	799.8	4.132
Willamette Valley	LEBANON	SWEET HOME	4M93	AMES CREEK	2,140	186,056	1,747	106.5	1.225
Willamette Valley	LEBANON	SWEET HOME	4M94	FOSTER	4,190	1,075,543	2,468	435.8	1.698
Willamette Valley	STAYTON	LYONS	4M120	MILL CITY	757	45,659	692	66.0	1.094
Willamette Valley	STAYTON	LYONS	4M70	MEHAMA	6,917	677,962	2,081	325.8	3.324
Willamette Valley	STAYTON	SCIO	5M126	THOMAS	3,017	340,933	1,573	216.7	1.918

Oregon 2023 Circuit Metrics (Including major events)

Oregon Regions	Op Area Name	Substation Name	Circuit Id	Circuit Name	Customers in Incident Sustained	Customer Minutes Lost	Circuit Customer Count	SAIDI	SAIFI
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	3,164	387,971	3,501	110.8	0.904
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	10,058	1,468,760	3,549	413.9	2.834
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	528	64,701	1,574	41.1	0.335
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	960	253,389	917	276.3	1.047
Willamette Valley	STAYTON	STAYTON	4M19	AUMSVILLE	693	119,932	3,504	34.2	0.198
Willamette Valley	STAYTON	STAYTON	4M353	WEST STAYTON	4,302	449,307	3,586	125.3	1.200
Willamette Valley	STAYTON	STAYTON	4M370	CASCADE	2,759	310,983	1,579	196.9	1.747
Willamette Valley	STAYTON	STAYTON	4M50	3RD STREET	264	48,999	924	53.0	0.286

VEGETATION MANAGEMENT

	OREGON								
	Tree Program Reporting								
	Report as of Dec 31, 2023								
	Distribution Three Year Cycle Jan 1,2022 - Dec 31,2024								
	Total					Total Cycle Reporting			
Total Line Miles	1/1/2023 - 12/31/2023 Miles Planned	1/1/2023 - 12/31/2023 Miles Actual	1/1/2023 - 12/31/2023 Remaining	1/1/2023 - 12/31/2023 % Complete	1/1/2022 through end of cycle Miles Planned	1/1/2022 through end of cycle Miles Actual	1/1/2022 through end of cycle Remaining	1/1/2022 through end of cycle % Complete	
<i>column a</i>	<i>column b</i>	<i>column c</i>	<i>column d</i>	<i>column e</i>	<i>column f</i>	<i>column g</i>	<i>column h</i>	<i>column i</i>	
Oregon	13,934	4,747	4,759	12	100%	14,121	9,461	(4,659)	67%
ALBANY	538	-	-	-	0%	538	214	(324)	40%
CENTRAL OREGON	1,347	475	487	12	102%	1,347	929	(418)	69%
CLATSOP	375	137	137	0	100%	375	261	(114)	70%
COOS BAY	645	239	239	(0)	100%	645	471	(174)	73%
CORVALLIS	305	219	219	(0)	100%	305	219	(86)	72%
COTTAGE GROVE	52	-	-	-	0%	52	52	-	100%
DALLAS	408	232	232	0	100%	408	232	(176)	57%
ENTERPRISE	429	72	72	0	100%	429	266	(163)	62%
GRANTS PASS	1,627	557	557	(0)	100%	1,627	1,094	(533)	67%
HERMISTON	254	56	56	0	100%	254	162	(92)	64%
HOOD RIVER	320	77	77	0	100%	320	245	(75)	77%
JUNCTION CITY	155	-	-	-	0%	155	155	-	100%
KLAMATH FALLS	1,831	621	621	(0)	100%	1,831	1,253	(578)	68%
LAKEVIEW	61	-	-	-	0%	61	22	(39)	36%
LEBANON	696	-	-	-	0%	696	386	(310)	55%
LINCOLN CITY	164	46	46	(0)	99%	164	127	(37)	77%
MEDFORD	1,010	342	342	(0)	100%	1,010	667	(343)	66%
MILTON FREEWATER/WALLA WALLA(OR)	131	78	78	(0)	99%	131	119	(12)	91%
NO MEDFORD	894	300	300	0	100%	894	598	(297)	67%
PENDLETON	610	201	201	0	100%	610	314	(296)	52%
PORTLAND*	445	259	259	0	100%	632	446	(187)	70%
ROSEBURG	1,193	392	392	0	100%	1,193	787	(407)	66%
STAYTON	444	444	444	0	100%	444	444	0	100%

***Portland is on a two-year cycle**

Notes:

Column a: Total overhead pole miles by district

Column b: Total overhead pole miles planned for the year reported for performance from Jan 1, 2023, through Dec 31 2023

Column c: Actual overhead pole miles worked for the year during the performance period Jan 1, 2023, through Dec 31 2023

Column d: Miles remaining for the period Jan 1, 2023, through Dec 31, 2023 (column c-column b)

Column e: Percent complete for the period Jan 1 2023 through Dec 31 2023 ((column c÷b)×100)

Column f: Total overhead pole miles planned for the period Jan 1, 2022, through end of cycle

Column g: Actual overhead pole miles worked during the period Jan 1, 2022, through end of cycle

Column h: Miles remaining for the period Jan 1, 2022, through end of cycle (column g-column f)

Column i: Percent complete for the period Jan 1 2022 through end of cycle ((column g÷f)×100)

* Conversion calculation for sq ft of brush to a tree was changed for in 2014 from 10 sq ft of brush = 1 tree to 100 sq ft of brush = 1 tree.

VEGETATION MANAGEMENT OREGON

Tree Program Reporting (C)

	2023	2024 est	2025 est	2026 est	2027 est	2028 est
Distribution						
Tree Budget	79,943,018	78,882,865	81,254,418	79,943,018	78,882,865	81,254,418
Transmission						
Tree Budget	6,059,365	5,734,673	6,012,389	6,059,365	5,734,673	6,012,389
Total Tree Budget	\$ 86,002,383	\$ 84,617,538	\$ 87,266,807	\$ 86,002,383	\$ 84,617,538	\$ 87,266,807

	2017	2018	2019	2020	2021	2022
Distribution						
Tree Actuals	18,646,639	18,502,712	22,848,077	34,190,176	42,336,338	77,118,337
Transmission						
Tree Actuals	2,660,821	2,528,003	2,524,520	2,267,173	2,392,704	4,064,943
Total Tree Actuals	\$ 21,307,460	\$ 21,030,715	\$ 25,372,597	\$ 36,457,349	\$ 44,729,042	\$ 81,183,280

Calendar Year 2023	Distribution		
	Actuals	Budget	Variance
Jan	\$ 6,595,072	\$ 3,741,915	\$ 2,853,157
Feb	\$ 7,945,491	\$ 5,343,150	\$ 2,602,341
Mar	\$ 9,284,732	\$ 6,751,574	\$ 2,533,157
Apr	\$ 6,889,011	\$ 5,948,397	\$ 940,614
May	\$ 6,852,840	\$ 6,679,692	\$ 173,149
Jun	\$ 6,353,479	\$ 7,038,152	\$ (684,673)
Jul	\$ 5,098,460	\$ 7,231,523	\$ (2,133,063)
Aug	\$ 5,531,991	\$ 8,404,932	\$ (2,872,941)
Sep	\$ 5,280,818	\$ 7,599,702	\$ (2,318,884)
Oct	\$ 6,159,051	\$ 7,875,965	\$ (1,716,913)
Nov	\$ 5,127,848	\$ 7,075,762	\$ (1,947,915)
Dec	\$ 7,893,520	\$ 6,252,254	\$ 1,641,266
Total	\$ 79,012,313	\$ 79,943,018	\$ (930,705)

Transmission		
Actuals	Budget	Variance
\$ 58,936	\$ 226,209	\$ (167,272)
\$ 391,340	\$ 196,709	\$ 194,631
\$ 474,615	\$ 444,150	\$ 30,465
\$ 154,266	\$ 474,401	\$ (320,136)
\$ 652,367	\$ 504,273	\$ 148,094
\$ 692,055	\$ 514,923	\$ 177,132
\$ 703,456	\$ 551,076	\$ 152,380
\$ 698,793	\$ 617,600	\$ 81,193
\$ 711,756	\$ 976,736	\$ (264,980)
\$ 1,050,616	\$ 905,470	\$ 145,146
\$ 976,267	\$ 335,201	\$ 641,066
\$ 620,520	\$ 312,615	\$ 307,905
\$ 7,184,989	\$ 6,059,365	\$ 1,125,623

Average # Tree Crews on Property (YTD)	99
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INSPECTION AND MAINTENANCE PROGRAMS

Inspection and Repairs

In Calendar Year 2023 (January 01 through December 31, 2023), among distribution and transmission facilities (both overhead and underground), 3,036 'A' Priority conditions were recorded and 2,657 were corrected.

For 'B' priority conditions, 21,151 were identified and 16,337 were corrected in CY2023.

Reporting of 'C' priority conditions was terminated early 2014, however some are still occasionally entered into the inspection system inadvertently. 279 were identified in 2023 and these will be reviewed and reprioritized as required. 17 of 'C' priority conditions were corrected.

SUMMARY OF CONDITIONS FOUND AND CORRECTED IN 2023

PRIORITY	FHCA		NON-FHCA		ALL	
	FOUND	CORRECTED	FOUND	CORRECTED	FOUND	CORRECTED
A	311	263	2,725	2,394	3,036	2,657
B	3,049	3,923	18,102	12,414	21,151	16,337
C	208	1	71	16	279	17

Pole and Overhead Facilities

- PacifiCorp is currently on a 10-year cycle for the Detail inspection and treatment of overhead Distribution and Transmission facilities. In CY2023, 56,973 Distribution, 4,942 Local Transmission and 6,277 Main Grid Transmission Detailed inspections were performed. Detailed inspections were performed on 15.24% of the total 447,326 overhead facilities.
- 37,865 Distribution poles, 3,821 Local Transmission poles and 256 Main Grid Transmission poles were Tested and Treated. Test and Treatment were performed on 9.38% of the total 447,326 overhead facilities.
- PacifiCorp replaced or reinforced 1,387 poles that were rejected through the Test and Treat inspection program. The CY2023 rejection rate was 2.51%.
- The visual inspection of the Distribution and Transmission system is on a 2-year cycle. In CY2023, 208,306 Distribution, 26,207 Local Transmission and 11,639 Main Grid inspections were performed for a total of 246,152 inspections which equates to 55.03% of the total overhead facilities. Random re-inspections were performed by operations managers to ensure uniform results and adherence.

INSPECTION AND MAINTENANCE PROGRAMS

2023 INSPECTION COUNTS AND REJECTION PERCENTAGE OF OVERHEAD STRUCTURES

FHCA	TOTAL	INSPECTION COUNTS				REJECTED POLES		PERCENTAGES			
	STRUCTURES	SAFETY	DETAIL	PTT	DETAILED	FOUND	CORRECTED	% SAFETY	% DETAILED	% PTT	% REJECTED
OVERHEAD_DISTRIBUTION	76,114	63,536	8,272	2,568	10,840	273	371	83.47%	14.24%	3.37%	2.52%
LOCAL_TRANSMISSION	6,598	6,340	143	113	256	10	25	96.09%	3.88%	1.71%	3.91%
MAIN_GRID_TRANSMISSION	<u>2,585</u>	<u>2,585</u>	<u>704</u>	<u>27</u>	<u>731</u>	<u>5</u>	<u>5</u>	<u>100.00%</u>	<u>28.28%</u>	<u>1.04%</u>	<u>0.68%</u>
ALL OH	85,297	72,461	9,119	2,708	11,827	288	401	84.95%	13.87%	3.17%	2.44%

NON-FHCA	TOTAL	INSPECTION COUNTS				REJECTED POLES		PERCENTAGES			
	STRUCTURES	SAFETY	DETAIL	PTT	DETAILED	FOUND	CORRECTED	% SAFETY	% DETAILED	% PTT	% REJECTED
OVERHEAD_DISTRIBUTION	325,671	144,770	10,836	35,297	46,133	1,152	787	44.45%	14.17%	10.84%	2.50%
LOCAL_TRANSMISSION	27,297	19,867	978	3,708	4,686	214	164	72.78%	17.17%	13.58%	4.57%
MAIN_GRID_TRANSMISSION	<u>9,061</u>	<u>9,054</u>	<u>5,317</u>	<u>229</u>	<u>5,546</u>	<u>58</u>	<u>35</u>	<u>99.92%</u>	<u>61.21%</u>	<u>2.53%</u>	<u>1.05%</u>
ALL OH	362,029	173,691	17,131	39,234	56,365	1,424	986	47.98%	15.57%	10.84%	2.53%

ALL	TOTAL	INSPECTION COUNTS				REJECTED POLES		PERCENTAGES			
	STRUCTURES	SAFETY	DETAIL	PTT	DETAILED	FOUND	CORRECTED	% SAFETY	% DETAILED	% PTT	% REJECTED
OVERHEAD_DISTRIBUTION	401,785	208,306	19,108	37,865	56,973	1,425	1,158	51.85%	14.18%	9.42%	2.50%
LOCAL_TRANSMISSION	33,895	26,207	1,121	3,821	4,942	224	189	77.32%	14.58%	11.27%	4.53%
MAIN_GRID_TRANSMISSION	<u>11,646</u>	<u>11,639</u>	<u>6,021</u>	<u>256</u>	<u>6,277</u>	<u>63</u>	<u>40</u>	<u>99.94%</u>	<u>53.90%</u>	<u>2.20%</u>	<u>1.00%</u>
ALL OH	447,326	246,152	26,250	41,942	68,192	1,712	1,387	55.03%	15.24%	9.38%	2.51%

A. Underground Facilities

The inspection of underground facilities is on a 10-year cycle. It includes a detail inspection of primary underground facilities and an infrared inspection of accessible terminals and splices. During CY2023, 11,500 inspections were performed: 9.32% of 123,416 underground facilities.

UNDERGROUND STRUCTURES BY TYPE AND INSPECTION COUNTS

	FHCA	NON-FHCA	ALL
Cabinet	1,944	8,433	10,377
Junction Box	3,886	43,461	47,347
Manhole	4	397	401
Pad Only	58	325	383
Switch Gear	60	644	704
Transformer	10,990	41,548	52,538
Vault	316	2,766	3,082
Unknown	<u>573</u>	<u>8,011</u>	<u>8,584</u>
ALL UG	17,831	105,585	123,416
UG Inspections	1,106	10,394	11,500
% of UG Structures	6.20%	9.84%	9.32%

B. Marina Inspection Program

The inspection of marinas is annual. In CY2023, 100% of marinas were inspected.

C. Line Equipment Maintenance

Line Equipment – Overhead Reclosers, Sectionalizers, Regulators, Switches

Line equipment is inspected during the 2-year cycle Visual Survey; therefore, inspection requirements have been met for Reclosers, Sectionalizers, Regulators and Switches.

INSPECTION AND MAINTENANCE PROGRAMS

SUBSTATION MAINTENANCE PROGRAMS

A. Performance Measure X3 Substation Maintenance Programs

1. Description - Substations are critical utility network facilities requiring more frequent inspections and testing of all its equipment. The Company will provide, at the annual meetings, information of its Substation maintenance programs.
2. Program Interval - The program interval will be dictated by the substation equipment operational requirements.
3. Program Expenditures - PacifiCorp is to submit an annual actual versus budgeted expenditures for all substations equipment maintenance programs.

B. Substation Security Inspections

Substation security inspections are performed on cycles based on policy. This includes a detailed inspection of the fence, gates, warning signs, grounding systems, etc. The inspector is trained to look for security violations and public hazards. Copies of the inspection results are filed at the substation and field office. Field personnel are instructed to immediately correct all perimeter security violations.

Reference PacifiCorp Maintenance Policy 034 - Substation Inspection Policy and form 3274F-Substation Inspection.

PacifiCorp operates 282 substation and communication facilities in Oregon. PacifiCorp performed 96.68% of the planned substation security inspections in CY2023.

C. Substation Equipment Inspections

Batteries, Capacitor Banks, Circuit Breakers, Switches, LTC's, Regulators, Transformers, and protective relays are inspected on cycles based on policy. Inspections check pressure, temperature, voltage, LTC and regulator operation, cooling equipment, insulators, relay targets, etc.

Reference PacifiCorp Maintenance Policy 034 - Substation Inspection Policy and form 3274F-Substation Inspection.

PacifiCorp performed 96.68% of the planned substation equipment inspections in Oregon in CY2023.

INSPECTION AND MAINTENANCE PROGRAMS

BUDGET

Inspection and Maintenance Budget

Pole Inspect & Treat			ACTUALS	BUDGET
Distribution	T&T	515	\$3,322,990	\$3,814,742
	Detail	520	\$579,817	\$587,333
Transmission	T&T	843, 883	\$418,943	\$588,528
	Detail	840, 880	\$537,810	\$472,965
Total			\$4,859,560	\$5,463,568

Pole Replacements		ACTUALS	BUDGET
Distribution		\$17,110,707	\$9,671,332
Transmission		\$8,682,396	\$5,521,958
Total		\$25,793,103	\$15,193,290

Repair and Replace Facilities		ACTUALS	BUDGET
Distribution	500, 501, 502, 503, 504,505, 509, 518, 526, 527, 595, 624,625, 626, 905	\$18,333,595	\$15,379,917
Transmission	845, 847, 846, 865, 884,886, 848, 889	\$2,496,042	\$2,121,360
Total		\$20,829,637	\$17,501,277

Visual Inspections (Includes Equipment Inspections)		ACTUALS	BUDGET
Distribution	521	\$1,329,260	\$1,236,974
Transmission	841, 881	\$716,929	\$835,783
Total		\$2,046,190	\$2,072,757

Underground Inspections		ACTUALS	BUDGET
Distribution	508	\$724,348	\$637,798
Total		\$724,348	\$637,798

Substation Maintenance		ACTUALS	BUDGET
Distribution Preventative Maintenance		\$2,624,186	\$2,499,113
Distribution Corrective Maintenance		\$1,609,782	\$1,259,684
Transmission Preventative Maintenance		\$2,374,142	\$2,350,731
Transmission Corrective Maintenance		\$1,145,198	\$1,362,765
Total		\$7,753,308	\$7,472,293