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COMPANY NAME: PORTLAND GENERAL ELECTRIC COMPANY

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PGE Annual Reliability Report

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Portland General Electric
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April 30, 2026

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P.O. Box 1088
Salem, OR 97308-1088

RE: RE 113 PGE 2025 Annual Reliability Report

Pursuant to OAR 860-023-0151, PGE hereby submits the Company's 2025 Annual Reliability Report (ARR).

Attached are two ARRs 1) a Non-Confidential ARR that is customer friendly while keeping PGE's safety concerns in mind. The non-confidential version includes redaction and should be made available on the OPUC website for public viewing. 2) the Confidential version provides a full report and is submitted pursuant to OAR 860-001-0070. Because two versions are provided, the entire non-redacted document is marked confidential, although it includes both confidential and non-confidential information. This is consistent with the rule and provides for appropriate public disclosure of the non-confidential ARR information. PGE will send a separate email with a password to open the confidential file.

Should you have any questions regarding this filing, please contact Mary Widman at mary.widman@pgn.com Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com

Sincerely,

\s\ *Jay Tinker*

Jay Tinker
Senior Manager, Rates and Regulatory Affairs
Regulatory Operations

Enclosures



Portland General Electric

2025 Annual Reliability Report

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Information in this document is accurate at the time of publication but is subject to change without notice.

Portland General Electric Company
Integrated Resource Planning
121 SW Salmon Street
Portland, Oregon 97204

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Introduction

Portland General Electric (PGE) is powering our growing community with increasingly clean, safe, reliable, and affordable energy. The Annual Reliability Report provides distribution system performance information based on service interruptions to PGE customers in accordance with Oregon Administrative Rule (OAR) 860-023-0151. The report provides the reader with an overview of PGE's electric distribution system reliability performance and helps identify areas of improvement and excellence. Calculations for reliability indices are based on the Institute of Electrical and Electronic Engineers (IEEE) 1366..[1] Additionally, this report includes transmission system performance based on transmission system disturbances and interruptions. This report provides a narrative along with tables, figures, maps, and additional related information.

[1] Institute of Electrical Electronic Engineers (IEEE) Standard 1366 entitled "IEEE Guide for Electric Power Distribution Reliability Indices" (the 2012 edition), approved on May 14, 2012, by IEEE-SA Standards Board. The guide developed distribution service reliability indices to aid in consistent reporting practices among utilities. The definitions in IEEE 1366 were adopted in 2012 in the Electric Service Reliability Rules, OAR 860-023-0081 through OAR 860-023-0161, which governs the Annual Reliability Report.

Definitions and Acronyms

ADMS: Advanced Distribution Management System; a software platform allowing PGE to model, monitor, control, predict, and safely operate our distribution network in real-time.

AMI: Advanced Metering Infrastructure; a two-way communication system to collect detailed metering data that is integrated into communications networks and data management systems.

CAIDI: Customer Average Interruption Duration Index; the average duration a customer experienced per sustained interruption (greater than 5 minutes).

Customer: A metered electrical service point for which an active bill account is established at a specific location.

FLISR: Fault Location, Isolation, and Service Restoration; consists of automatable, SCADA-integrated switching devices on distribution mainlines that ADMS can command and control remotely.

IEEE: Institute of Electrical and Electronics Engineers; a technical professional organization dedicated to advancing technology for the benefit of humanity.

Interruption, Momentary: The brief loss of power delivery to one or more customers caused by the opening and closing operation of an interrupting device resulting in an interruption that lasts less than 5 minutes.

Interruption, Planned: The loss of electric power to one or more customers because of a planned interruption event. PGE requires a customer to be given at least 24-hours advanced notice for an interruption to be classified as a planned interruption.

Interruption, Sustained: Any interruption not classified as a part of a momentary event. That is, any interruption that lasts more than 5 minutes.

iTOA: Integrated Tools for Operations Applications, which provides real-time situational awareness of the transmission and distribution systems, helps operators manage power flows, and assists in maintaining grid reliability.

$MAIFI_E$: Momentary Average Interruption Event Frequency Index; the average number of momentary interruption events per customer. This index does not include the events immediately preceding a sustained interruption.

MED: Major Event Day; a day when the daily System Average Interruption Duration Index (SAIDI) exceeds a Major Event Day threshold value.

Momentary Interruption Event: An interruption with a duration limited to the time required to restore service. Multiple momentary interruptions that occur within five minutes of the initial operation are considered a single momentary interruption event.

NERC: North American Electric Reliability Corporation; a nonprofit organization responsible for ensuring the reliability and security of the bulk power system in North America, including the United States, Canada, and parts of Mexico.

OAR: Oregon Administrative Rule; created by state agencies and some boards and commissions to implement and interpret their statutory authority.

OMS: Outage Management System; platform used to collect, monitor, and manage outage information.

Operating Area: Geographic subdivision of PGE's service territory. PGE's customers and distribution infrastructure split into three operating areas: 1) Eastern, 2) Western, and 3) Southern.

OPUC: Oregon Public Utility Commission; state agency responsible for rate regulation and enforcing electric safety standards.

PSPS: Public Safety Power Shutoff; a temporary, pre-planned de-energization of a portion of a utility's infrastructure during periods of extreme fire danger to prevent the electrical system from becoming the source of an ignition that could endanger communities, residents, and the power grid.

Reliability Reporting Area: PGE's entire service territory, which encompasses the Eastern, Western, and Southern Operating Areas. Also, the area where PGE's annual T_{MED} threshold is calculated for performance.

Reporting Period: The 12-month period, based on a calendar year, for reporting reliability performance.

SAIDI: System Average Interruption Duration Index; the average duration from all sustained interruptions a customer experienced per year (greater than 5 minutes).

SAIFI: System Average Interruption Frequency Index; the average frequency of sustained interruptions a customer experienced per year (greater than 5 minutes).

SCADA: Supervisory Control and Data Acquisition; computer-based system for gathering and analyzing real-time data to monitor and control equipment.

SDDB: System Disturbance Database; a database used to record system disturbance and interruption events on protection devices. Events are recorded from the distribution circuit breaker up through the substation and transmission systems.

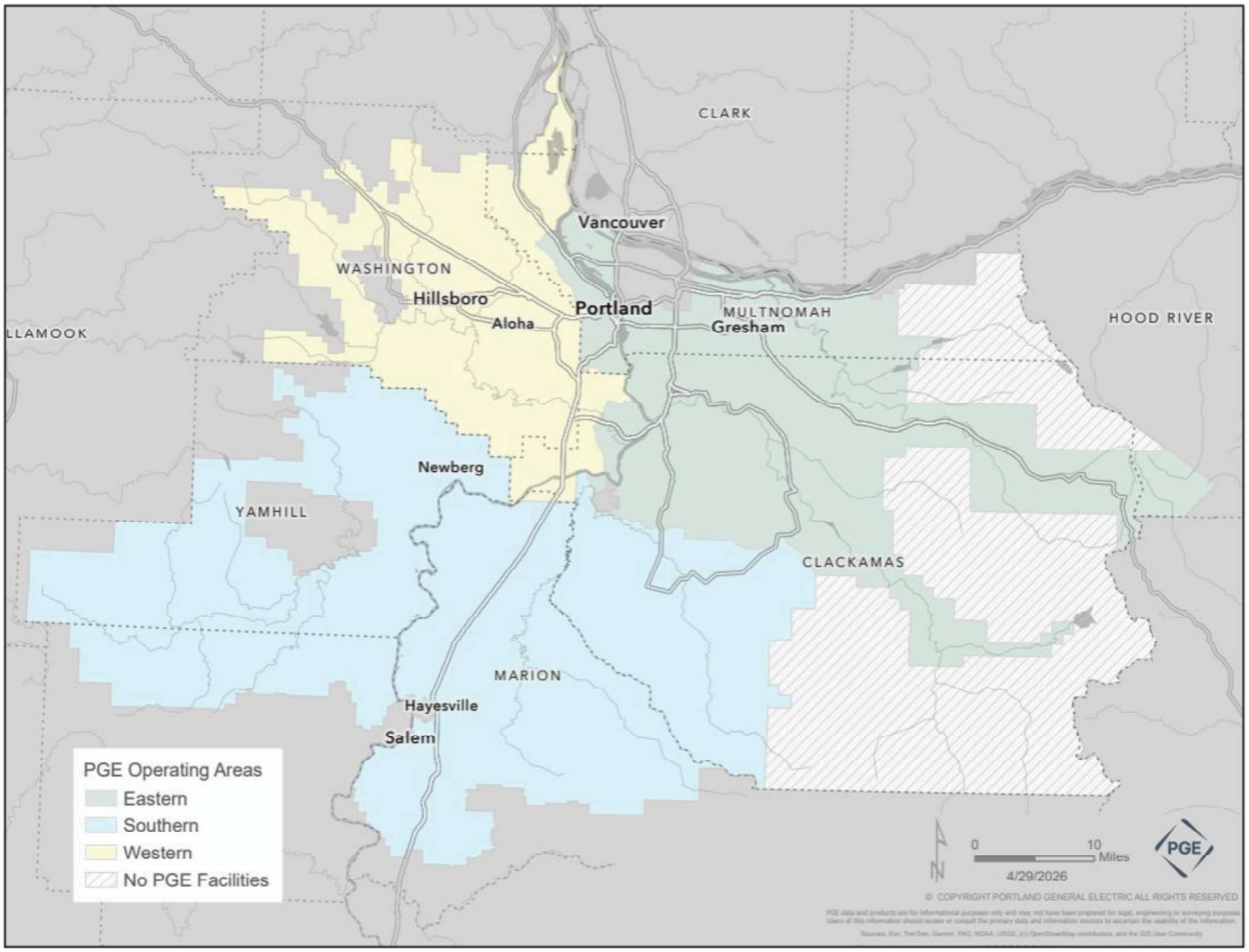
TADS: Transmission Availability Data System; system to report transmission interruption data to the NERC.

T_{MED}: A major event day threshold value.

1 System Overview

PGE has a service area population of over 1.9 million Oregonians in 51 cities, representing more than 950,000 customers over 4,000 square miles. Figure 1 shows PGE's service territory and the Reliability Reporting Area for the performance metrics captured in this report. This figure also captures the three Operating Areas PGE has established to best service customer needs and growth in the service territory: 1) Eastern, comprising approximately 50% of customers and 30% of the territory; 2) Southern, comprising approximately 20% of customers and 50% of the territory; and 3) Western, comprising approximately 30% of customers and 20% of the territory. Considerations for PGE's Operating Areas include the number of customers, response time for interruptions, geography, and system characteristics. PGE's Operating Areas are modified occasionally to meet customer needs and growth in PGE's service territory.

Figure 1. PGE's Service Territory



PGE maintains and operates tens of thousands of miles of circuits to serve our customers and communities. Table 1 captures information related to the hundreds of thousands of assets required to operate the circuits that make up PGE's system.

Table 1. PGE Circuits and Assets

Description	Quantity
Substations (transmission and distribution)	172
Substation transformers	446
Circuit breakers (transmission and distribution)	2,116
Poles and structures (transmission and distribution)	227,733
Circuit miles of transmission lines[2]	1,658
Distribution circuits	712
Circuit miles of primary overhead distribution lines	8,103
Circuit miles of primary underground distribution lines	8,609
Overhead transformers	128,855
Underground transformers	72,852
Reclosers and sectionalizers	680

Definitions and additional information for Table 1 can be found in Appendix B.

Table 2 shows PGE's customer base has experienced growth over the last 5 years. As we serve more customers, we continue to invest in our infrastructure to ensure we reliably serve the customers and communities in our service territory.

Table 2. Customer Base by Operating Areas and Reporting Area

	Customer Count				
	2021	**2022**	**2023**	**2024**	**2025**
Eastern	436,247	440,972	443,843	449,109	455,143
Southern	178,151	181,015	182,125	184,976	187,532
Western	299,403	304,014	305,569	308,211	311,514
Total Reporting Area	**913,801**	**926,001**	**931,537**	**942,296**	**954,189**

[2] PGE-owned and operated transmission lines above 57 kV. Voltages in alignment with voltages for interruptions reported in Section 7.

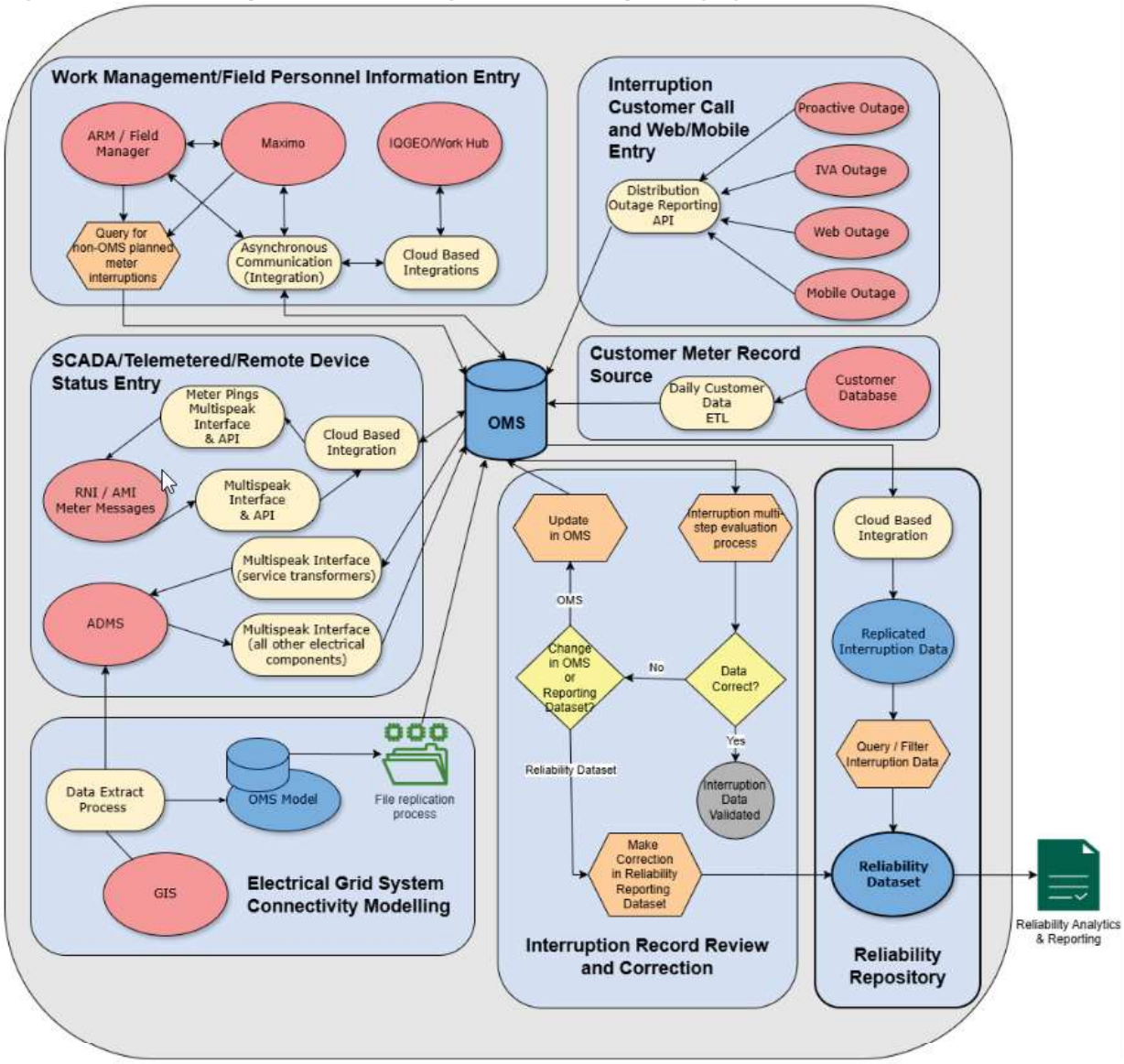
2 Reporting Methodology

2.1 Customer Interruption Data and Reliability Calculations

PGE gathers customer interruption data via field personnel, dispatchers, customer calls, web entries, Supervisory Control and Data Acquisition (SCADA)-enabled devices, and Advanced Metering Infrastructure (AMI). The data from these various sources are integrated and maintained in PGE's outage management and reporting systems.

PGE uses an Outage Management System (OMS) to track and manage power interruptions. This system captures interruption data, facilitates service restoration, and enables the collection and analysis of outage information used for reliability calculations. In addition, PGE uses cloud-based data platforms that maintain interruption, customer, and circuit data, as well as calculate reliability metrics. These data sources include interruption details such as start time, restore time, substation involved, circuits, the number of customers affected, the cause of the interruption, the protective device that made the interruption, elements involved, and step-restoration operations. For reliability metrics, customer counts are captured on January 1 of the reporting year. Figure 2 shows the interruption data systems, data flow, and reliability reporting system.

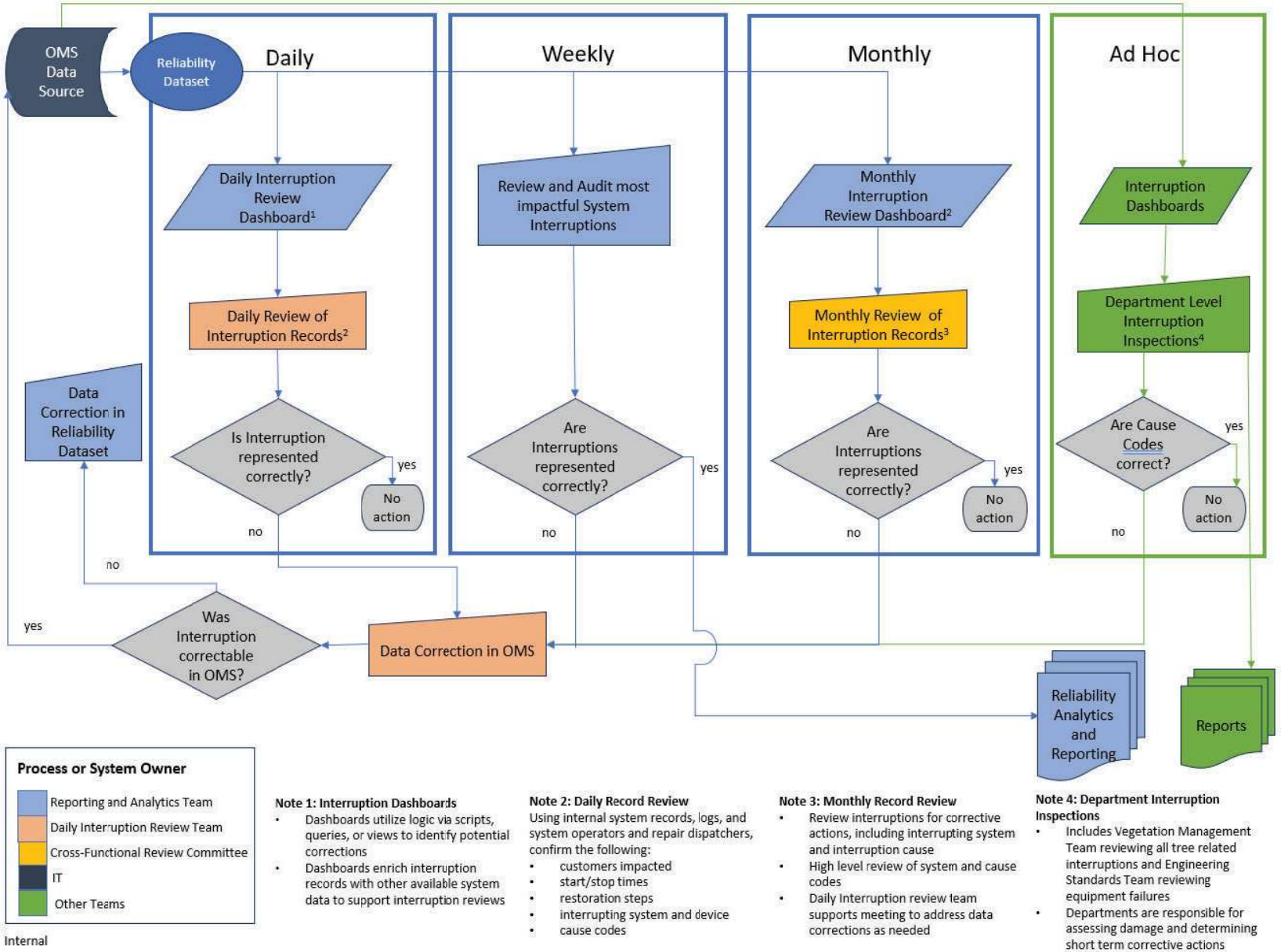
Figure 2. PGE Interruption Data Management and Reporting Systems



The interruption data and results of reliability calculations are evaluated daily and confirmed via a standardized multi-step review process. In addition to OMS data, the multi-step process involves reviewing logs maintained in other source-of-record databases, such as System Disturbance Database and iTOA (Integrated Tools for Operations Applications). PGE has a cross-functional outage review committee comprising engineers and operations personnel that review significant breaker-level outage events monthly. The goal is to understand any data discrepancies with what occurred, assess the sequence of events and understand root causes, in some instances performing material analysis, and identify the need for any corrective actions that can be taken to improve reliability. The committee focuses on complex outages that have multiple drivers. Additionally, PGE's vegetation management team inspects and investigates vegetation-related non-storm outage events. Foresters visit the location of the outage, coordinate with linemen to identify source issues, evaluate if there are any additional immediate risk to address, and document their findings in detailed reports. The investigations and reports can result in corrections made to the data in the OMS while

also providing learnings to write informed prescriptions for vegetation trimming and other reliability related work in the future.

Figure 3. Interruption Multi-Step Evaluation Process



Internal

PGE follows the guidance of IEEE 1366 to calculate System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), Momentary Average Interruption Frequency Index ($MAIFI_E$), and Customer Average Interruption Duration Index (CAIDI). The equations used to calculate SAIFI, SAIDI, $MAIFI_E$, and CAIDI are provided in Appendix A. PGE has also implemented a cause code for Public Safety Power Shutoff (PSPS) under the planned interruption cause category. For specific PSPS interruption analysis and reporting, see Section 5.2. Planned interruptions are incorporated in the calculation of the reliability indices in this report unless otherwise stated.

Reliability indices, counts, durations, and data throughout the report are presented, both including and excluding Major Event Days (MED). A MED is a day in which the daily system SAIDI exceeds a threshold value, T_{MED}. PGE uses the 2.5 Beta Methodology outlined in the IEEE 1366 to determine T_{MED} for each reporting year. This value is used for a given year's reporting period and applied to the reliability reporting area to identify days in which SAIDI exceeds the daily threshold. Days classified as a MED are separately analyzed and reported. Table 21 in Section 5.1 presents PGE's 2026 T_{MED}. The detailed steps and calculation for T_{MED} can be found in Appendix A.

To calculate momentary interruption indices, PGE has a process to review and identify momentary interruptions to define momentary events for substation circuit breakers. These momentary interruptions are used for analysis and reporting across PGE's system and distribution circuits. PGE is working to enhance the accuracy of momentary interruption data via deployment of additional intelligent devices (e.g., SCADA-operated reclosers) and advancements in AMI data analysis capabilities. PGE recognizes that these enhancements may impact momentary interruption indices and year-over-year comparisons as a result.

2.2 Changes to Data Collection and Reporting

In 2022, PGE began including planned interruption data in calculating system reliability indices. This is important to note when performing year-over-year comparisons to Annual Reliability Reports developed prior to 2022. PGE will continue to include planned interruption data in system reliability indices, as required, for all future Annual Reliability Reports. PGE requires at least 24 hours of advanced notice to customers for an interruption event to be classified as a planned interruption.

Throughout 2025, PGE made significant strides in improving the accuracy and integrity of interruption data within PGE's OMS. The company expanded and refined processes across multiple teams to enhance data auditing and correction for both planned and unplanned interruptions. To support these efforts, PGE developed new tools and automated reports to track progress, measure impact, and reduce the burden of manual data review.

In the first half of 2025, PGE completed a major OMS upgrade, modernizing the underlying toolset used to maintain interruption data and strengthening the system's overall stability and resiliency—particularly during high-demand periods such as large storm events. Building on this foundation, PGE reviewed and applied updated OMS settings to improve the accuracy of interruption locations, start times, and end times, leveraging meter alarm data to inform these

adjustments. PGE also implemented a rule-based automation tool to assist identifying and correcting inaccurate durations and customer counts within interruption records. PGE remains committed to continuously incorporating new technologies and modern methodologies to further enhance the accuracy of interruption records and support more advanced analyses.

3 Distribution System Reliability

This chapter captures reliability performance and interruption cause information for PGE's Reliability Reporting Area. The information presents the current and previous reporting years and reflects the exclusion and inclusion of Major Event Days (MED).

NOTE: Values in tables in this section are rounded to the nearest significant digit. Accordingly, certain table entries may display as zero when they represent approximate non-zero values, and aggregated totals or percentages may not sum precisely to 100 percent.

3.1 Distribution System Metrics

The following indices represent the overall performance of PGE's Reliability Reporting Area and Operating Areas.

NOTE: The 2023 values in Table 3 and Table 4 capture the same data as no Major Event Days were experienced

Table 3. PGE Multi-year Distribution System Metrics – Excluding Major Events

	Major Events Excluded														
	SAIDI					SAIFI					$MAIFI_E$				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
Eastern	118	132	109	122	98	0.65	0.77	0.70	0.80	0.64	1.57	1.27	1.35	1.35	0.92
Southern	165	151	132	174	158	0.77	0.72	0.74	0.95	0.74	0.73	0.47	0.52	0.86	0.71
Western	110	108	94	124	76	0.61	0.58	0.54	0.69	0.48	0.49	0.45	0.54	0.69	0.50
Reporting Area	125	128	109	133	103	0.66	0.70	0.65	0.79	0.61	1.05	0.84	0.92	1.04	0.74

Table 4. PGE Multi-year Distribution System Metrics – Including Major Events

	Major Events Included														
	SAIDI					SAIFI					$MAIFI_E$				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
Eastern	2,739	508	109	817	235	1.82	1.38	0.70	1.42	0.85	2.81	2.00	1.35	1.86	1.11
Southern	5,897	393	132	228	514	2.29	1.12	0.74	1.08	1.19	1.58	0.70	0.52	1.09	0.92
Western	833	367	94	1,032	183	1.19	1.01	0.54	1.16	0.76	0.86	0.84	0.54	1.10	0.66
Reporting Area	2,730	439	109	772	273	1.71	1.21	0.65	1.27	0.89	1.92	1.36	0.92	1.46	0.93

3.2 System Interruptions

Table 5 through Table 14 capture the number and duration of sustained interruptions characterized by the cause categories as defined by OAR 860-023-0151(2)(b). Interruptions can impact one to many customers.

2025

Table 5. 2025 Interruption Causes – Major Events Excluded

OAR Cause	Customer Count	2025 Major Events Excluded: Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	954,189	13	0%	1,355	0%	1,899,009	2%	23,985	4%
B Loss of Supply - Substation	954,189	33	0%	4,013	0%	8,265,899	8%	60,160	10%
C Distribution - Equipment	954,189	3,086	15%	788,274	23%	21,280,229	22%	117,279	20%
D Distribution - Lightning	954,189	17	0%	4,796	0%	83,176	0%	329	0%
E Distribution - Planned	954,189	13,608	66%	1,741,791	50%	10,926,523	11%	76,640	13%
F Distribution - Public	954,189	546	3%	143,947	4%	15,891,125	16%	77,180	13%
G Distribution - Vegetation	954,189	1,066	5%	262,457	8%	22,845,917	23%	111,669	19%
H Distribution - Weather	954,189	679	3%	326,749	9%	7,364,662	8%	29,792	5%
I Distribution - Wildlife	954,189	679	3%	72,592	2%	2,616,774	3%	27,050	5%
J Distribution - Unknown	954,189	350	2%	73,413	2%	5,773,991	6%	44,209	8%
K Distribution - Other	954,189	645	3%	55,208	2%	1,139,003	1%	11,443	2%
Grand Total	954,189	**20,722**	**100%**	**3,474,596**	**100%**	**98,086,308**	**100%**	**579,736**	**100%**

Table 6. 2025 Interruption Causes – Major Events Included

OAR Cause	Customer Count	2025 Major Events Included: Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	954,189	24	0%	8,424	0%	7,895,311	3%	43,254	5%
B Loss of Supply - Substation	954,189	39	0%	4,956	0%	8,752,128	3%	67,900	8%
C Distribution - Equipment	954,189	3,116	14%	816,302	15%	22,534,301	9%	119,575	14%
D Distribution - Lightning	954,189	18	0%	5,879	0%	124,304	0%	367	0%
E Distribution - Planned	954,189	13,705	61%	1,761,549	32%	10,973,497	4%	77,062	9%
F Distribution - Public	954,189	560	2%	159,570	3%	15,913,202	6%	77,201	9%
G Distribution - Vegetation	954,189	1,195	5%	385,693	7%	40,572,191	16%	149,436	18%
H Distribution - Weather	954,189	2,090	9%	2,185,645	39%	141,775,517	54%	224,768	27%
I Distribution - Wildlife	954,189	679	3%	72,592	1%	2,616,774	1%	27,050	3%
J Distribution - Unknown	954,189	374	2%	94,297	2%	8,243,778	3%	48,827	6%
K Distribution - Other	954,189	646	3%	55,228	1%	1,139,023	0%	11,444	1%
Grand Total	954,189	**22,446**	**100%**	**5,550,135**	**100%**	**260,540,027**	**100%**	**846,884**	**100%**

2024

Table 7. 2024 Interruption Causes – Major Events Excluded

OAR Cause	Customer Count	2024							
		Major Events Excluded							
		Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	942,296	48	0%	13,972	0%	7,024,624	6%	60,139	8%
B Loss of Supply - Substation	942,296	49	0%	8,190	0%	5,445,864	4%	59,782	8%
C Distribution - Equipment	942,296	3,319	14%	869,106	18%	30,104,109	24%	171,685	23%
D Distribution - Lightning	942,296	96	0%	36,043	1%	398,640	0%	1,772	0%
E Distribution - Planned	942,296	15,545	65%	2,189,602	45%	13,186,151	11%	83,986	11%
F Distribution - Public	942,296	684	3%	190,131	4%	17,297,828	14%	82,815	11%
G Distribution - Vegetation	942,296	1,498	6%	440,640	9%	25,875,208	21%	150,333	20%
H Distribution - Weather	942,296	1,164	5%	932,883	19%	15,945,477	13%	48,521	6%
I Distribution - Wildlife	942,296	614	3%	66,797	1%	3,585,501	3%	38,194	5%
J Distribution - Unknown	942,296	394	2%	92,222	2%	4,642,681	4%	28,404	4%
K Distribution - Other	942,296	341	1%	40,900	1%	1,459,507	1%	21,011	3%
Grand Total	942,296	**23,752**	**100%**	**4,880,486**	**100%**	**124,965,591**	**100%**	**746,642**	**100%**

Table 8. 2024 Interruption Causes – Major Events Included

OAR Cause	Customer Count	2024 Major Events Included: Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	942,296	65	0%	37,735	0%	10,797,584	1%	71,086	6%
B Loss of Supply - Substation	942,296	53	0%	19,403	0%	19,456,306	3%	65,459	5%
C Distribution - Equipment	942,296	3,426	12%	958,118	8%	36,441,081	5%	185,472	16%
D Distribution - Lightning	942,296	97	0%	36,406	0%	413,197	0%	1,812	0%
E Distribution - Planned	942,296	15,575	56%	2,194,615	17%	13,196,845	2%	84,046	7%
F Distribution - Public	942,296	688	2%	191,014	2%	17,300,220	2%	82,838	7%
G Distribution - Vegetation	942,296	1,876	7%	1,011,995	8%	69,688,942	10%	211,641	18%
H Distribution - Weather	942,296	4,598	17%	7,963,199	63%	544,386,907	75%	400,908	34%
I Distribution - Wildlife	942,296	616	2%	74,574	1%	3,609,609	0%	38,257	3%
J Distribution - Unknown	942,296	479	2%	172,561	1%	9,167,736	1%	32,417	3%
K Distribution - Other	942,296	348	1%	53,030	0%	2,544,995	0%	21,676	2%
Grand Total	942,296	**27,821**	**100%**	**12,712,651**	**100%**	**727,003,422**	**100%**	**1,195,612**	**100%**

2023

NOTE: Table 9 and Table 10 capture the same data as no Major Event Days were experienced in 2023.

Table 9. 2023 Interruption Causes – Major Events Excluded

OAR Cause	Customer Count	2023 Major Events Excluded: Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	931,537	19	0%	4,176	0%	2,524,883	2%	21,256	3%
B Loss of Supply - Substation	931,537	30	0%	3,794	0%	6,762,940	7%	53,450	9%
C Distribution - Equipment	931,537	3,319	16%	784,030	22%	23,279,793	23%	141,210	23%
D Distribution - Lightning	931,537	65	0%	22,870	1%	671,956	1%	2,467	0%
E Distribution - Planned	931,537	13,560	66%	1,951,578	55%	10,866,944	11%	75,406	12%
F Distribution - Public	931,537	653	3%	186,295	5%	14,628,884	14%	70,888	12%
G Distribution - Vegetation	931,537	1,321	6%	313,844	9%	26,353,610	26%	140,894	23%
H Distribution - Weather	931,537	394	2%	125,681	4%	8,070,363	8%	32,337	5%
I Distribution - Wildlife	931,537	625	3%	63,455	2%	1,927,131	2%	19,573	3%
J Distribution - Unknown	931,537	272	1%	55,891	2%	3,977,133	4%	25,447	4%
K Distribution - Other	931,537	299	1%	31,365	1%	2,087,908	2%	26,566	4%
Grand Total	931,537	**20,557**	**100%**	**3,542,978**	**100%**	**101,151,545**	**100%**	**609,494**	**100%**

Table 10. 2023 Interruption Causes – Major Events Included

OAR Cause	Customer Count	2023 Major Events Included: Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	931,537	19	0%	4,176	0%	2,524,883	2%	21,256	3%
B Loss of Supply - Substation	931,537	30	0%	3,794	0%	6,762,940	7%	53,450	9%
C Distribution - Equipment	931,537	3,319	16%	784,030	22%	23,279,793	23%	141,210	23%
D Distribution - Lightning	931,537	65	0%	22,870	1%	671,956	1%	2,467	0%
E Distribution - Planned	931,537	13,560	66%	1,951,578	55%	10,866,944	11%	75,406	12%
F Distribution - Public	931,537	653	3%	186,295	5%	14,628,884	14%	70,888	12%
G Distribution - Vegetation	931,537	1,321	6%	313,844	9%	26,353,610	26%	140,894	23%
H Distribution - Weather	931,537	394	2%	125,681	4%	8,070,363	8%	32,337	5%
I Distribution - Wildlife	931,537	625	3%	63,455	2%	1,927,131	2%	19,573	3%
J Distribution - Unknown	931,537	272	1%	55,891	2%	3,977,133	4%	25,447	4%
K Distribution - Other	931,537	299	1%	31,365	1%	2,087,908	2%	26,566	4%
Grand Total	931,537	**20,557**	**100%**	**3,542,978**	**100%**	**101,151,545**	**100%**	**609,494**	**100%**

2022

Table 11. 2022 Interruption Causes – Major Events Excluded

OAR Cause	Customer Count	2022							
		Major Events Excluded							
		Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	926,001	9	0%	1,489	0%	1,208,304	1%	12,476	2%
B Loss of Supply - Substation	926,001	53	0%	7,724	0%	9,905,238	8%	70,342	11%
C Distribution - Equipment	926,001	3,333	18%	846,287	22%	24,803,695	21%	126,711	20%
D Distribution - Lightning	926,001	9	0%	1,612	0%	7,708	0%	38	0%
E Distribution - Planned	926,001	10,197	56%	1,528,057	41%	10,170,588	9%	59,903	9%
F Distribution - Public	926,001	673	4%	211,189	6%	16,376,320	14%	76,375	12%
G Distribution - Vegetation	926,001	1,532	8%	430,594	11%	32,683,159	28%	181,658	28%
H Distribution - Weather	926,001	1,172	6%	534,200	14%	11,583,536	10%	42,913	7%
I Distribution - Wildlife	926,001	651	4%	68,472	2%	3,654,636	3%	36,804	6%
J Distribution - Unknown	926,001	294	2%	88,784	2%	3,956,771	3%	23,258	4%
K Distribution - Other	926,001	262	1%	45,175	1%	3,863,086	3%	17,511	3%
Grand Total	926,001	**18,185**	**100%**	**3,763,582**	**100%**	**118,213,043**	**100%**	**647,989**	**100%**

Table 12. 2022 Interruption Causes – Major Events Included

OAR Cause	Customer Count	2022							
		Major Events Included							
		Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	926,001	42	0%	39,047	0%	10,736,960	3%	32,129	3%
B Loss of Supply - Substation	926,001	61	0%	11,531	0%	14,022,103	3%	82,682	7%
C Distribution - Equipment	926,001	3,555	15%	1,007,649	10%	35,712,572	9%	157,571	14%
D Distribution - Lightning	926,001	9	0%	1,612	0%	7,708	0%	38	0%
E Distribution - Planned	926,001	11,360	47%	4,080,200	39%	83,517,858	21%	91,509	8%
F Distribution - Public	926,001	694	3%	220,743	2%	19,679,710	5%	81,129	7%
G Distribution - Vegetation	926,001	2,245	9%	990,216	10%	72,476,006	18%	291,907	26%
H Distribution - Weather	926,001	4,655	19%	3,523,530	34%	149,683,520	37%	291,075	26%
I Distribution - Wildlife	926,001	655	3%	68,845	1%	3,656,349	1%	36,829	3%
J Distribution - Unknown	926,001	388	2%	194,385	2%	7,708,690	2%	32,308	3%
K Distribution - Other	926,001	318	1%	194,255	2%	9,593,833	2%	22,815	2%
Grand Total	926,001	**23,982**	**100%**	**10,332,013**	**100%**	**406,795,310**	**100%**	**1,119,992**	**100%**

2021

Table 13. 2021 Interruption Causes – Major Events Excluded

OAR Cause	Customer Count	2021							
		Major Events Excluded							
		Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	913,801	12	0%	1,878	0%	988,602	1%	17,877	3%
B Loss of Supply - Substation	913,801	16	0%	2,121	0%	3,256,874	3%	27,267	5%
C Distribution - Equipment	913,801	3,749	27%	1,283,549	26%	26,703,327	23%	140,015	23%
D Distribution - Lightning	913,801	–	0%	–	0%	–	0%	–	0%
E Distribution - Planned	913,801	4,724	33%	811,463	17%	5,069,335	4%	29,344	5%
F Distribution - Public	913,801	655	5%	300,362	6%	19,282,569	17%	83,165	14%
G Distribution - Vegetation	913,801	2,026	14%	691,434	14%	33,542,791	29%	184,435	31%
H Distribution - Weather	913,801	1,033	7%	722,909	15%	10,207,172	9%	40,801	7%
I Distribution - Wildlife	913,801	853	6%	98,085	2%	4,137,825	4%	31,401	5%
J Distribution - Unknown	913,801	897	6%	936,846	19%	8,584,670	8%	32,374	5%
K Distribution - Other	913,801	165	1%	25,935	1%	1,998,127	2%	16,763	3%
Grand Total	913,801	**14,130**	**100%**	**4,874,582**	**100%**	**113,771,293**	**100%**	**603,442**	**100%**

Table 14. 2021 Interruption Causes – Major Events Included

OAR Cause	Customer Count	2021							
		Major Events Included							
		Sustained Interruption Count	% of Interruption Count	Total Interruption Duration	% of Total Interruption Duration	Customer Minutes of Interruption	% of Customer Minutes	Customers Interrupted	% of Customers Interrupted
A Loss of Supply - Transmission	913,801	146	0%	326,019	0%	186,796,272	7%	122,400	8%
B Loss of Supply - Substation	913,801	253	1%	505,908	0%	16,710,097	1%	48,278	3%
C Distribution - Equipment	913,801	4,090	12%	1,698,477	2%	55,455,942	2%	172,845	11%
D Distribution - Lightning	913,801	–	0%	–	0%	–	0%	–	0%
E Distribution - Planned	913,801	4,768	14%	823,264	1%	5,308,417	0%	33,593	2%
F Distribution - Public	913,801	674	2%	313,836	0%	20,169,695	1%	86,695	6%
G Distribution - Vegetation	913,801	3,033	9%	1,978,748	2%	192,497,444	8%	378,413	24%
H Distribution - Weather	913,801	7,874	22%	24,314,466	23%	1,050,851,188	42%	438,184	28%
I Distribution - Wildlife	913,801	858	2%	99,366	0%	4,146,568	0%	31,462	2%
J Distribution - Unknown	913,801	13,209	38%	76,079,771	72%	960,526,473	39%	229,052	15%
K Distribution - Other	913,801	182	1%	41,174	0%	2,103,861	0%	17,360	1%
Grand Total	913,801	**35,087**	**100%**	**106,181,028**	**100%**	**2,494,565,958**	**100%**	**1,558,282**	**100%**

4 Customer Reliability

This section presents reliability information at the individual customer level. PGE captures and evaluates reliability at the customer level to identify areas of performance not seen at the system level. The information presented captures sustained interruptions for the current and previous reporting years and reflects the exclusion and inclusion of Major Event Days (MED). These indices include planned interruption events but exclude momentary interruptions.

4.1 Individual Customer Interruptions and Durations

Figure 4 and Table 15, and Figure 5 and Table 16, reflect the number of customers that have experienced a number of interruptions. Figure 6 and Table 17, and Figure 7 and Table 18, reflect the total interruption durations. Figure 4 through Figure 7 show the raw values as well as the cumulative distribution of the data.

NOTE: The 2023 column in Table 15 through Table 18 capture the same data as no Major Event Days were experienced in 2023.

Figure 4. Individual Customer Interruptions – Excluding Major Event Days

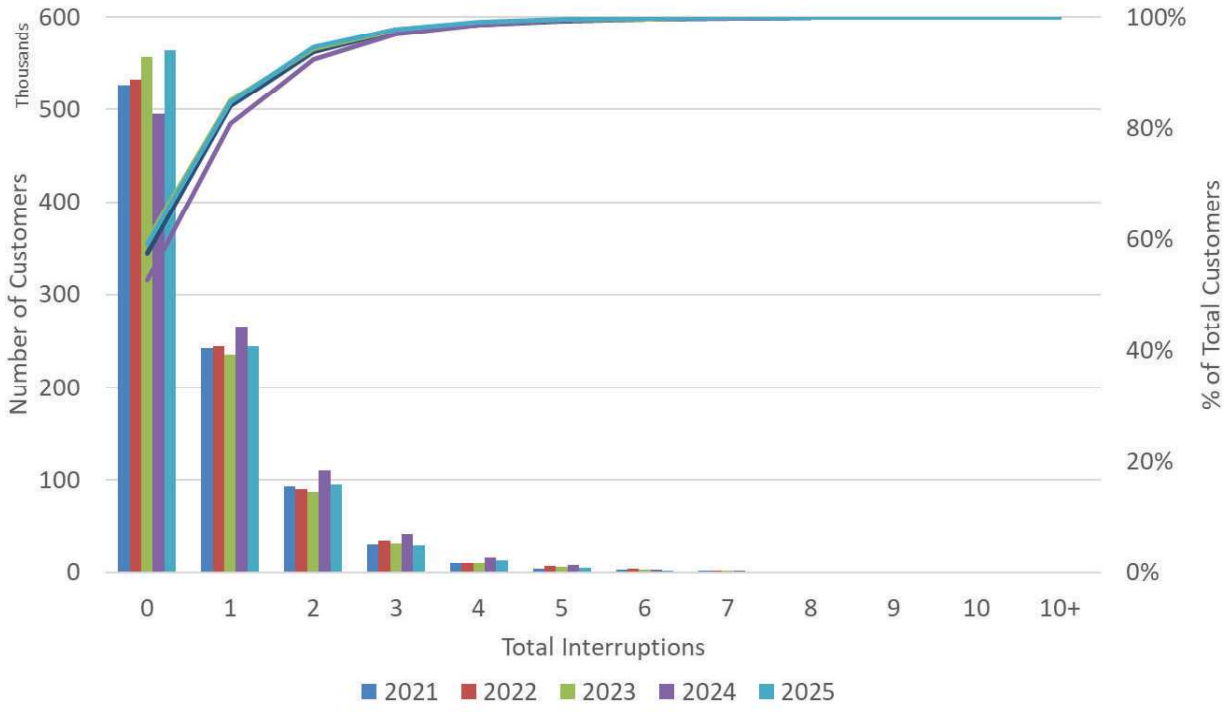


Table 15. Individual Customer Interruptions – Excluding Major Event Days

Sustained Interruptions	2021	2022	2023	2024	2025
0	526,894	532,677	556,647	495,392	563,518
1	242,334	244,619	235,081	265,365	243,956
2	93,611	90,136	86,723	110,513	95,368
3	30,680	34,900	31,363	41,502	29,917
4	10,950	10,759	10,589	16,406	13,732
5	3,687	6,116	5,459	7,699	4,315
6	2,951	3,826	2,689	3,047	1,951
7	1,074	1,395	1,850	1,091	769
8	549	623	819	416	471
9	293	490	200	279	101
10	231	174	89	250	51
>10	547	286	28	336	40

Figure 5. Individual Customer Interruptions – Including Major Event Days

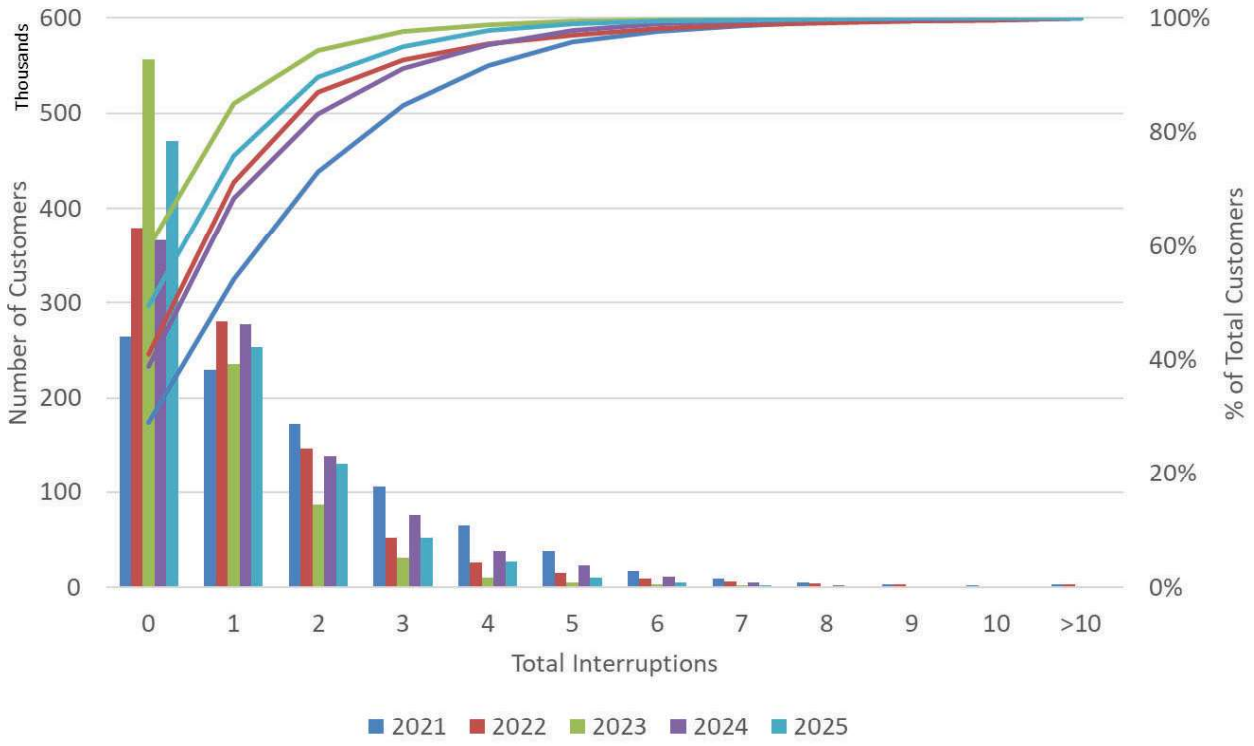


Table 16. Individual Customer Interruptions – Including Major Event Days

Sustained Interruptions	2021	2022	2023	2024	2025
0	264,766	379,296	556,647	366,500	471,174
1	229,686	279,883	235,081	277,706	253,581
2	172,642	147,109	86,723	138,873	130,344
3	105,996	51,850	31,363	76,254	51,715
4	64,675	25,923	10,589	38,269	27,162
5	38,050	14,713	5,459	23,307	10,212
6	16,916	9,500	2,689	11,440	4,653
7	8,980	6,030	1,850	4,776	2,596
8	5,015	4,165	819	2,537	1,521
9	2,785	2,653	200	1,043	716
10	1,663	1,473	89	590	266
>10	2,627	3,406	28	1,001	249

Figure 6. Individual Customer Hours – Excluding Major Event Days

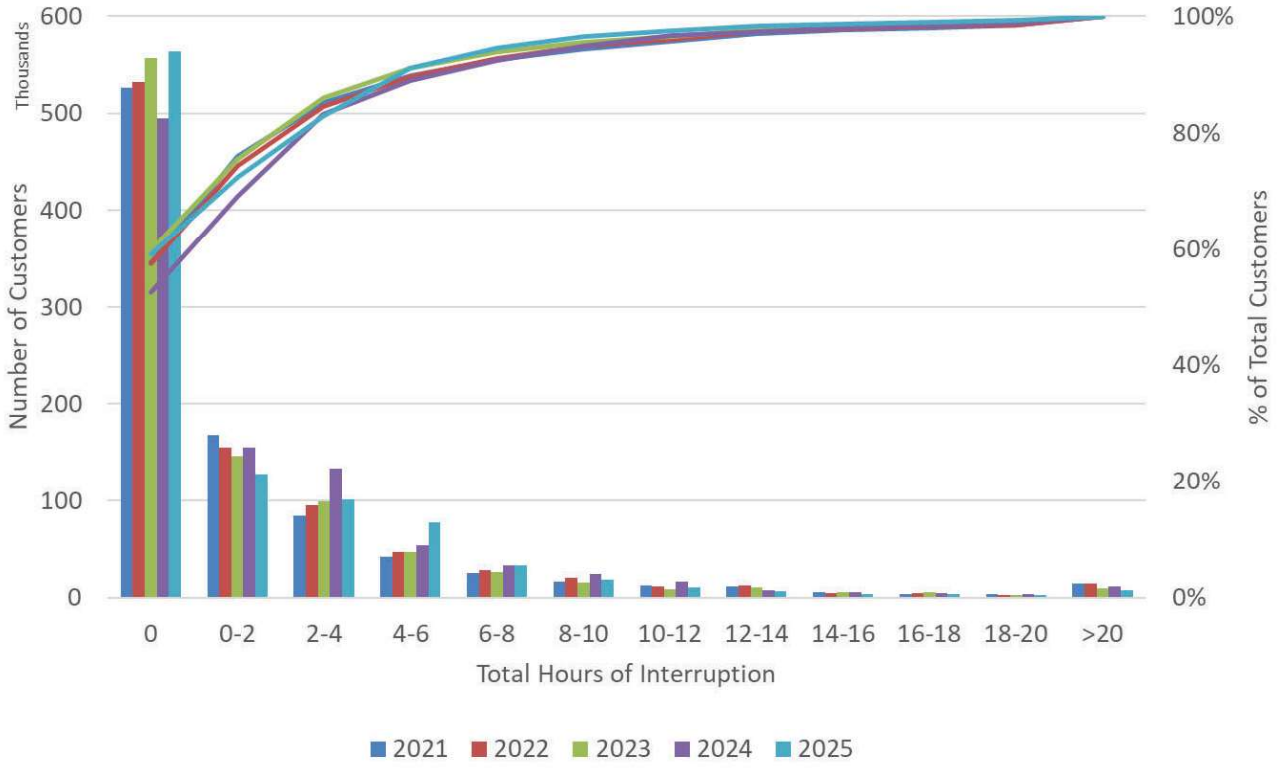


Table 17. Individual Customer Interruption Hours – Excluding Major Event Days

Sustained Interruption Hours	2021	2022	2023	2024	2025
0	526,894	532,677	556,647	495,392	563,518
0-2	167,672	155,450	146,183	155,213	127,127
2-4	84,539	95,179	98,855	133,410	100,839
4-6	41,795	46,857	46,818	53,660	77,737
6-8	25,508	28,144	26,235	33,120	33,173
8-10	16,427	19,822	15,710	23,735	18,635
10-12	12,369	10,864	8,483	15,965	10,107
12-14	11,826	11,848	10,164	7,221	6,419
14-16	5,832	4,877	5,121	5,091	3,922
16-18	3,387	4,126	5,119	4,492	3,277
18-20	3,563	2,261	2,512	3,443	2,081
>20	13,989	13,896	9,690	11,554	7,354

Figure 7. Individual Customer Hours – Including Major Event Days

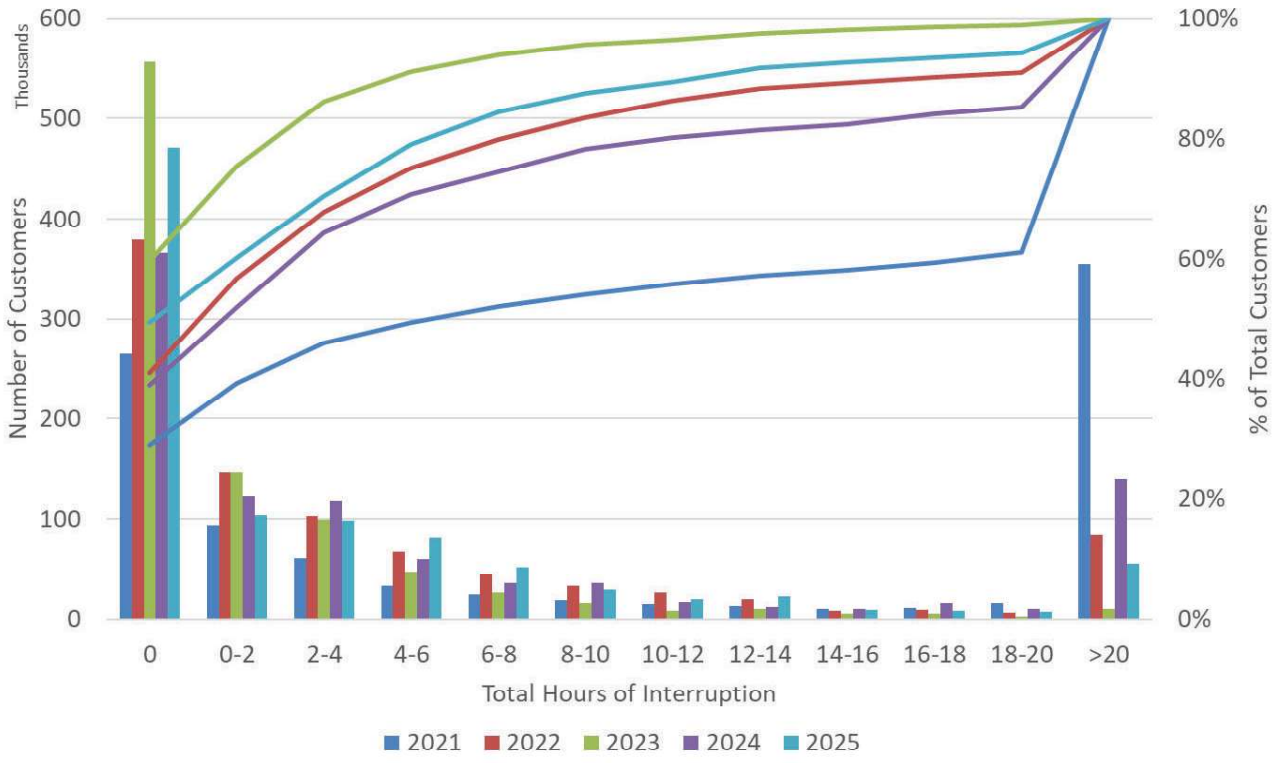


Table 18. Individual Customer Interruption Hours – Including Major Event Days

Sustained Interruption Hours	2021	2022	2023	2024	2025
0	264,766	379,296	556,647	366,500	471,174
0-2	93,965	145,724	146,183	122,852	103,517
2-4	60,665	103,168	98,855	118,203	98,066
4-6	32,126	67,703	46,818	59,688	81,690
6-8	24,126	43,640	26,235	35,764	51,338
8-10	18,799	32,714	15,710	34,966	28,786
10-12	14,895	26,265	8,483	17,009	19,177
12-14	12,862	19,910	10,164	12,187	21,845
14-16	9,630	8,020	5,121	9,644	8,952
16-18	11,296	8,708	5,119	15,539	7,948
18-20	15,894	6,492	2,512	10,396	6,938
>20	354,777	84,361	9,690	139,548	54,758

4.2 Consecutive Years Customer Reliability

Table 19 captures customers who have exceeded a target number of sustained interruptions or total interruption durations for each of the last 3 years. The thresholds are OPUC staff proposed over the period.

Table 19. Customer Counts Exceeding Reliability Targets

Immediate Primary Source of Service Operation Voltage	# of Sustained Interruptions Target	Customers Exceeding Target Interruptions in Each of the Last Three Consecutive Years (2023-2025)		Total Hours of Sustained Interruption Target	Customers Exceeding Target Hours of Total Interruption Duration in Each of the Last Three Years (2023-2025)	
		Major Events Excluded	Major Events Included		Major Events Excluded	Major Events Included
57 kV and above	3	0	0	9	0	0
Between 13 kV and 57 kV	4	0	0	12	0	0
13 kV and below	6	285	1,572	18	647	4,432

5 Major Events

5.1 Major Event Days Summary

In 2025, three MEDs were identified. PGE determines major events following IEEE 1366 which defines a MED as a day on which the SAIDI exceeds the calculated threshold, T_{MED}, and should be evaluated separately. When the T_{MED} threshold is met and CAIDI exceeds 300 minutes, a Major Event report is filed with the OPUC, in accordance with OAR 860-023-0161.

For 2025, PGE applied a T_{MED} of 8.32 minutes across the Reliability Reporting Area.

Table 20. 2024 Major Event Days Summary

Event Date(s)	Duration (Days)	Report Filed	Interruption Cause	SAIDI	SAIFI	CAIDI	T_{MED}
February 24, 2025	1	Yes	High Winds	33	0.087	383	8.32
October 25, 2025	1	No	High Winds	9	0.039	232	8.32
December 17, 2025	1	Yes	High Winds	128	0.154	831	8.32
Total PGE MED	**3**			**170**	**0.280**	**607**	**8.32**

Additional information on MED exclusion reports is in Appendix C.

Table 21. PGE T_{MED} Values

Year	T_{MED}
2026[3]	8.22
2025	8.32
2024	7.34
2023	7.01
2022	6.50

[3] 2026 T_{MED} value is calculated based on 2021–2025 daily performance, and is shown in accordance with OAR 860-023-151, which asks for a listing of the T_{MED} values that will be used for each reliability reporting area for the forthcoming annual reporting period compared with the previous four years of T_{MED} values.

5.2 Public Safety Power Shutoff Events

PGE's top priority is the safety of the customers and communities in our service territory. In the event of extreme conditions, PGE may call a Public Safety Power Shutoff (PSPS) to help protect lives, property, and public spaces..PGE executes a PSPS when severe fire potential and meteorological conditions increase the risk of utility-caused ignitions and resulting wildfires. PGE understands that turning off power causes significant challenges and hardships for customers and communities. PGE has layers of protection that facilitates the right mitigation at the right time for the risk at hand, as described in PGE's 2026–2028 Wildfire Mitigation Plan..[4]

PGE did not execute any PSPS events in 2025.

[4] For more information related to PGE's Wildfire Safety program and Wildfire Mitigation Plan, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

6 Worst Performing Circuits

This section identifies the top 10 circuits as worst performing from an interruption frequency and/or duration perspective. This information is presented for 2024 and 2025 and is also categorized by exclusion or inclusion of Major Events. There are 47 unique circuits of the 80 circuits presented in the worst performing tables for 2024 and 2025.

PGE completed over 750 compliance, safety, and/or reliability-focused work orders in 2025 on the identified worst performing circuits. Analysis of poor performance and actions taken for improvement are captured in the following tables.

NOTE: When identifying worst performing circuits, PGE focuses on drivers of unplanned interruptions to customers that should be evaluated for mitigation and targets circuits that have the most opportunity for reliability improvement. As such, the data and analysis for this section excludes planned interruptions and PSPS events. Planned interruptions often result from improvements to PGE's system and PSPS-related analysis and improvements are conducted as part of PGE's Wildfire Mitigation Plan.[5]

NOTE: Values in tables in this section are rounded to the nearest significant digit. Accordingly, certain table entries may display as zero when they represent approximate non-zero values.

[5] For more information related to PGE's Wildfire Safety program and Wildfire Mitigation Plan, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 8. 2025 Worst Performing SAIDI – Major Events Excluded Map

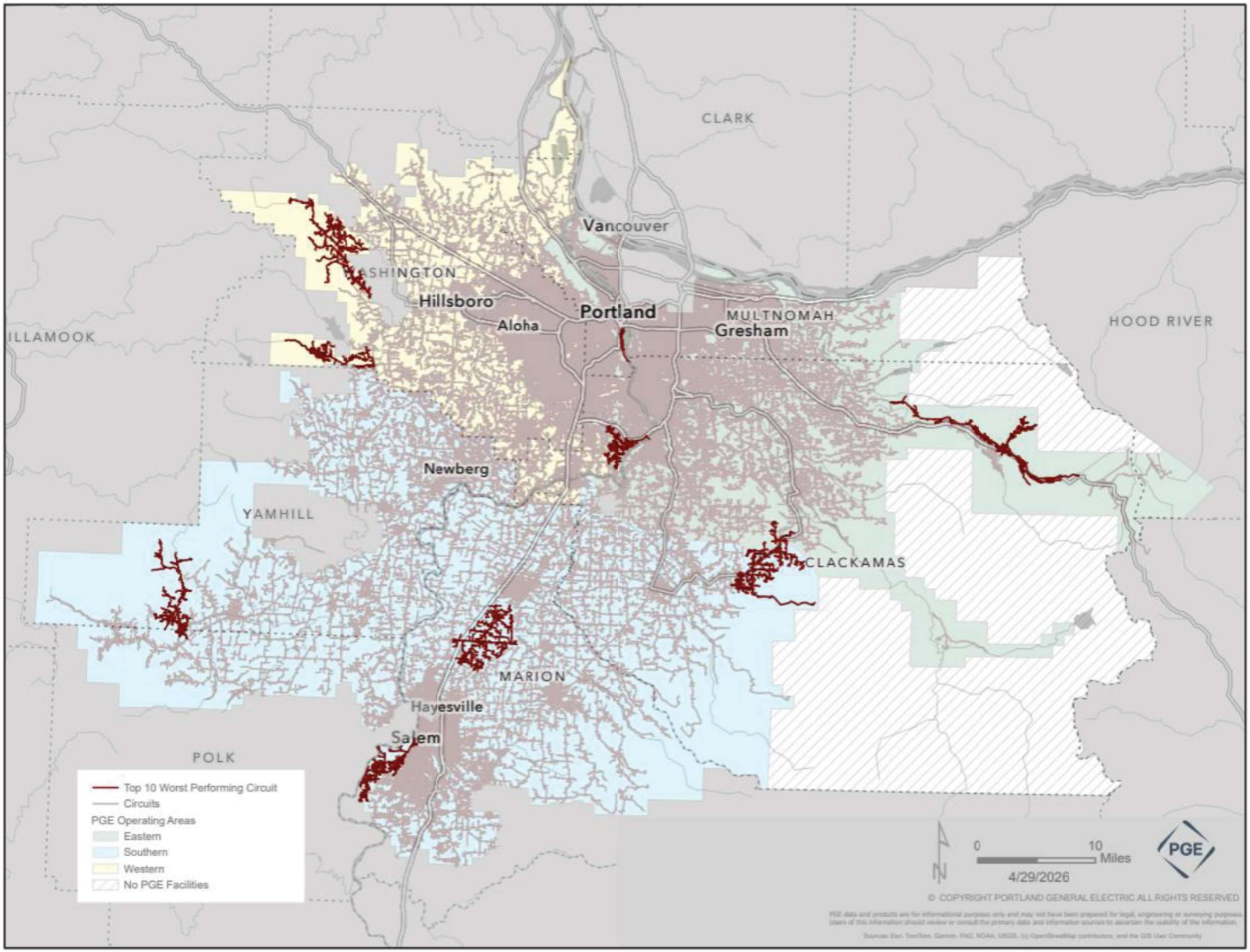


Table 22. 2025 Worst Performing SAIDI – Major Events Excluded

	2025 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
BRIGHTWOOD-NORTH BANK*	197	705	1,115	933	995	0.912	4.481	7.402	3.577	2.740	4	6	12	4	4	Interruption drivers: vegetation, weather, and public. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground primary in 2025. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024.
SULLIVAN-WILLAMETTE	315	13	420	206	973	0.416	0.078	2.171	0.478	3.338	–	–	2	2	-	Interruption drivers: vegetation, wildlife, and equipment. Improvement efforts: Completed 15 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
WELCHES-ZIG ZAG*	1,019	586	562	1,349	845	3.489	2.959	3.022	4.206	3.539	2	4	–	–	1	Interruption drivers: vegetation, public, and weather. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.

	2025 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
COLTON-GRAYS HILL* **	59	1,822	338	650	840	0.282	1.379	3.367	2.561	2.565	1	–	2	–	–	Interruption drivers: vegetation, public, and equipment. Improvement efforts: Completed 18 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed a recloser and replaced open-wire secondary. Recloser installed to accommodate automatic FLISR mode in 2025.
FAIRMOUNT-MISSION* **	245	212	53	609	832	1.654	2.142	0.276	3.111	3.294	1	1	–	2	2	Interruption drivers: vegetation, transmission (public), and equipment. Improvement efforts: Completed 37 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced 3 fuses, installed 2 reclosers, and replaced portions of overhead primary circuit and underground primary cable in 2025.
RIVERVIEW-MACADAM	343	7	–	1	723	0.840	0.026	–	0.002	3.768	4	3	1	1	1	Interruption drivers: equipment, substation (equipment), and public. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
WILLAMINA-BRIDGE*	281	675	547	439	686	1.248	3.016	1.032	2.484	1.385	1	–	–	3	3	Interruption drivers: weather, public, and vegetation. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed a recloser in 2025.

	2025 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
WACONDA-WACONDA 13	90	72	134	209	672	1.181	0.480	0.395	1.001	2.233	–	–	1	3	3	Interruption drivers: vegetation, equipment and public. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
GALES CREEK-GALES CREEK 13*	1,782	942	956	1,277	664	6.601	4.509	3.805	5.630	2.763	3	2	2	4	–	Interruption drivers: vegetation, transmission (vegetation), and weather. Improvement efforts: Completed 9 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled and replaced switching cabinet in 2025. Installed 3 reclosers in 2024.
SCOGGINS-CHERRY GROVE*	1,039	1,094	612	927	555	2.796	6.254	1.672	3.238	3.524	1	1	1	4	2	Interruption drivers: weather, vegetation, and equipment. Improvement efforts: Completed 6 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers and replaced a switch in 2025. Installed 2 reclosers and converted portions of overhead primary circuit to underground cable in 2024.

* Circuit is within or has portions within PGE's 2025 High Fire Risk Zone (HFRZ).

** Circuit is within or has portions within PGE's 2025 Area of Interest (AOI), renamed to Enhanced Fire Risk Zone (EFRZ) in 2026.

*** Circuit is within or has portions within both PGE's 2025 HFRZ and an AOI.

Devices on circuits within a HFRZ or AOI have specific settings during PGE's declared Wildfire Season during the year.[6]

[6] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 9. 2025 Worst Performing SAIDI – Major Events Included Map

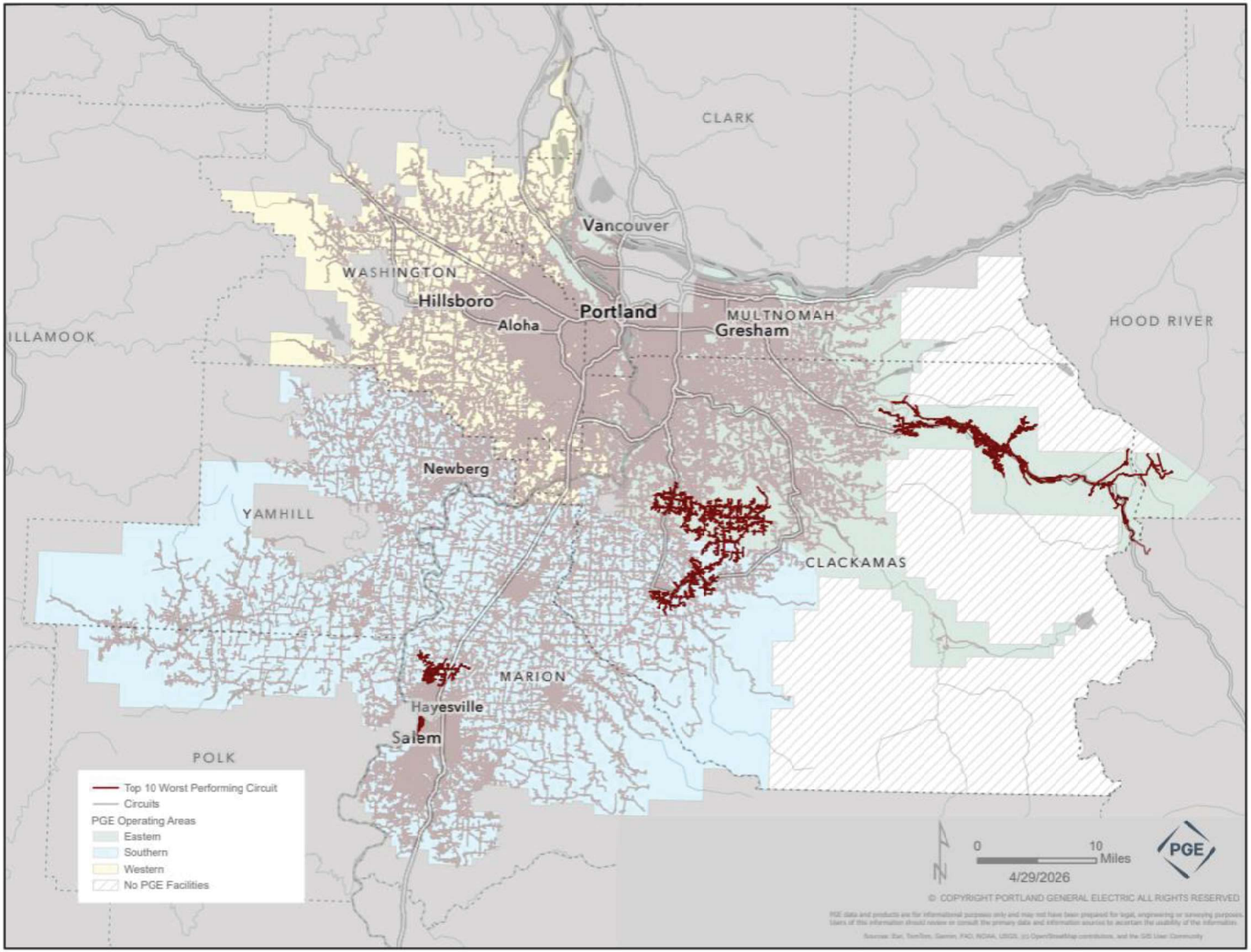


Table 23. 2025 Worst Performing SAIDI – Major Events Included

	2025 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
SUMMIT-MEADOWS*	2,852	1,158	121	4,419	7,076	3.300	4.100	1.475	3.925	1.975	8	10	2	3	–	Interruption drivers: weather. Improvement efforts: Completed 2 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced capacitor in 2025. Installed 4 Early Fault Detection devices in 2024.
WELCHES-ZIG ZAG*	6,725	3,758	562	4,297	5,183	5.707	6.111	3.022	7.207	4.557	3	7	–	–	1	Interruption drivers: weather, vegetation, and public. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.
INDIAN-NORTH	7,847	101	85	253	3,751	3.360	0.610	0.481	2.151	1.689	1	1	1	1	1	Interruption drivers: weather, equipment, and wildlife. Improvement efforts: Completed 12 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled in 2025.
WELCHES-WELCHES 13*	2,799	1,988	223	4,327	3,680	2.768	4.686	1.468	4.355	2.335	2	6	–	–	1	Interruption drivers: weather, vegetation, and equipment. Improvement efforts: Completed 5 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled in 2024.

	2025 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
SUMMIT-SUMMIT 13*	4,039	2,030	104	4,737	3,524	3.619	4.581	1.120	3.903	2.452	7	9	3	–	–	Interruption drivers: weather, vegetation, and equipment. Improvement efforts: Completed 8 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed fuses, 2 Early Fault Detection devices, and replaced 2 Early Fault Detection devices in 2024.
BRIGHTWOOD-NORTH BANK*	5,142	4,985	1,115	6,944	3,493	3.829	9.429	7.402	6.068	4.280	6	19	12	8	6	Interruption drivers: weather, vegetation, and public. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground in 2025. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024.
MOLALLA-FOREST**	6,868	1,748	301	155	3,145	1.721	1.511	1.316	0.493	2.518	1	–	1	2	1	Interruption drivers: vegetation, weather, and public. Improvement efforts: Completed 53 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled in 2024.

	2025 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
BRIGHTWOOD-BRIGHTWOOD 13*	3,010	2,080	365	4,230	2,870	3.582	4.631	2.561	3.032	4.512	7	14	8	9	1	Interruption drivers: weather, vegetation, and substation (equipment). Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled in 2024.
MCCLAIN-FRONT	883	1	137	54	2,806	0.141	0.015	1.197	1.051	1.729	–	–	–	–	–	Interruption drivers: weather, equipment, and wildlife. Improvement efforts: Completed 14 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced 2 fuses in 2025.
LELAND-CARUS***	19,734	2,051	201	100	2,698	5.857	4.477	1.559	0.846	3.850	10	6	2	4	3	Interruption drivers: vegetation, weather, and public. Improvement efforts: Completed 16 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed a recloser and replaced portions of underground primary cable in 2025. Tree wire reconductor and ductile iron pole installations were implemented in 2025. Automatic FLISR mode enabled in 2024.

* Circuit is within or has portions within PGE's 2025 High Fire Risk Zone (HFRZ).

** Circuit is within or has portions within PGE's 2025 Area of Interest (AOI), renamed to Enhanced Fire Risk Zone (EFRZ) in 2026.

*** Circuit is within or has portions within both PGE's 2025 HFRZ and an AOI.

Devices on circuits within a HFRZ or AOI have specific settings during PGE's declared Wildfire Season during the year..[7]

[7] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 10. 2025 Worst Performing SAIFI – Major Events Excluded Map

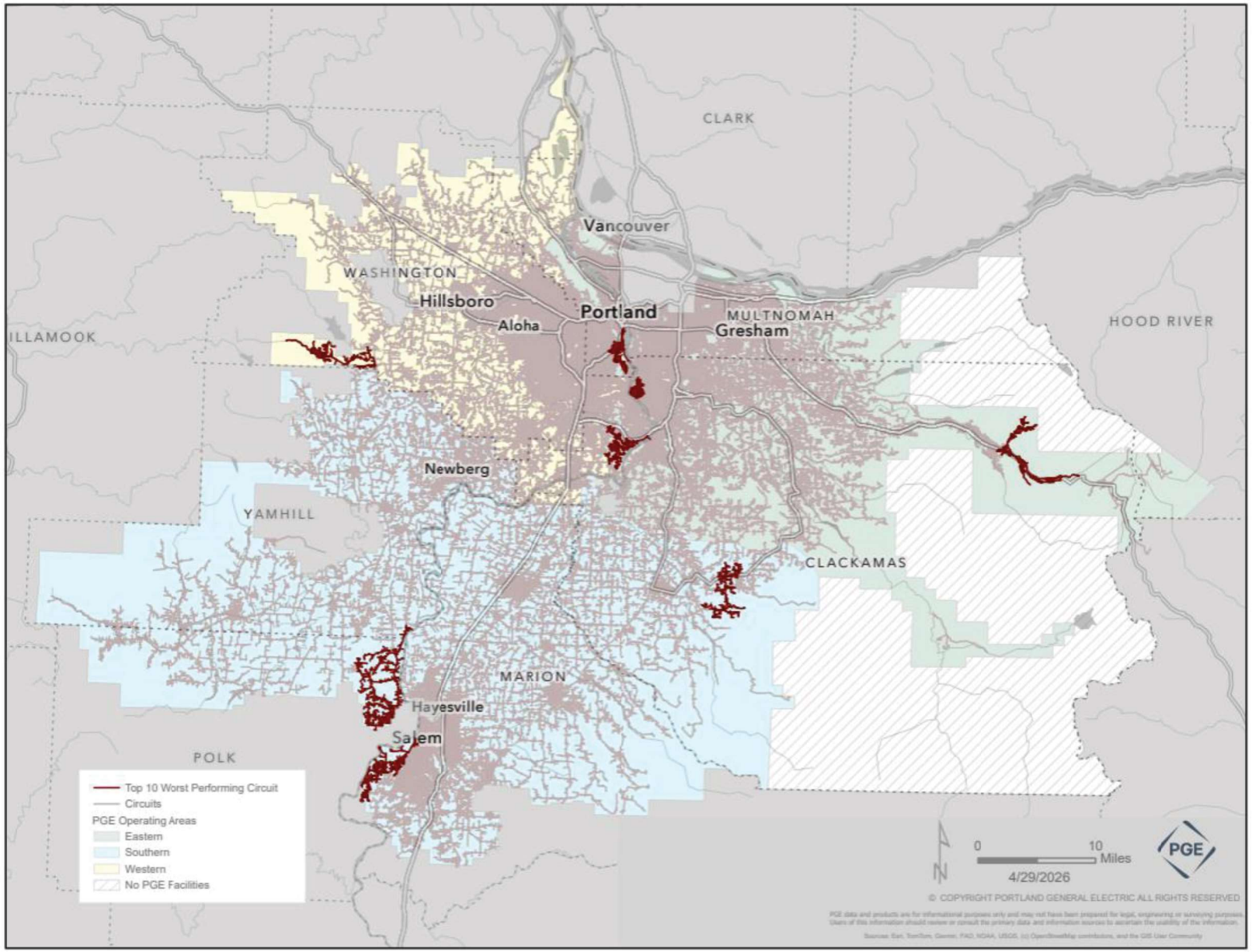


Table 24. 2025 Worst Performing SAIFI – Major Events Excluded

	2025 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
RIVERVIEW-MACADAM	343	7	–	1	723	0.840	0.026	–	0.002	3.768	4	3	1	1	1	Interruption drivers: substation (equipment), equipment, and public. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
WELCHES-ZIG ZAG*	1,019	586	562	1,349	845	3.489	2.959	3.022	4.206	3.539	2	4	–	–	1	Interruption drivers: public, vegetation, and weather. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.
SCOGGINS-CHERRY GROVE*	1,039	1,094	612	927	555	2.796	6.254	1.672	3.238	3.524	1	1	1	4	2	Interruption drivers: vegetation, equipment, and weather. Improvement efforts: Completed 6 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers and a switch in 2025. Installed 2 reclosers and converted portions of overhead primary circuit to underground cable in 2024.

	2025 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
RIVERVIEW-FULTON	86	138	367	58	352	0.433	1.120	2.140	0.326	3.458	2	1	1	1	1	Interruption drivers: substation (equipment), vegetation, and wildlife. Improvement efforts: Completed 26 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of overhead primary in 2025.
WALLACE-WALLACE 13	254	162	249	212	368	2.036	1.288	1.048	2.035	3.373	1	1	3	–	3	Interruption drivers: vegetation, public, and equipment. Improvement efforts: Completed 37 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
SULLIVAN-WILLAMETTE	315	13	420	206	973	0.416	0.078	2.171	0.478	3.338	–	–	2	2	–	Interruption drivers: vegetation, wildlife, and weather. Improvement efforts: Completed 15 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
FAIRMOUNT-MISSION* **	245	212	53	609	832	1.654	2.142	0.276	3.111	3.294	1	1	–	2	2	Interruption drivers: vegetation, transmission (public), and public. Improvement efforts: Completed 37 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced 3 fuses, installed 2 reclosers, replaced portions of overhead primary and underground primary in 2025.

	2025 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
RIVERVIEW-TERWILLIGER	274	55	7	19	327	1.519	0.293	0.053	0.118	3.150	2	1	1	1	–	Interruption drivers: substation (equipment), equipment, and weather. Improvement efforts: Completed 16 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of underground primary cable and overhead conductor in 2025.
COLTON-DHOOGHE**	153	713	505	374	496	0.823	1.101	1.617	2.240	3.129	1	–	2	–	–	Interruption drivers: vegetation, equipment, and public. Improvement efforts: Completed 7 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of overhead primary and secondary circuit in 2025.
ISLAND-13187	152	28	277	45	246	1.989	0.315	1.776	0.250	3.125	2	1	–	1	2	Interruption drivers: weather, equipment, and wildlife. Improvement efforts: Completed 12 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Automatic FLISR mode enabled in 2025.

* Circuit is within or has portions within PGE's 2025 High Fire Risk Zone (HFRZ).

** Circuit is within or has portions within PGE's 2025 Area of Interest (AOI), renamed to Enhanced Fire Risk Zone (EFRZ) in 2026.

*** Circuit is within or has portions within both PGE's 2025 HFRZ and an AOI.

Devices on circuits within a HFRZ or AOI have specific settings during PGE's declared Wildfire Season during the year.[8]

[8] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 11. 2025 Worst Performing SAIFI – Major Events Included Map

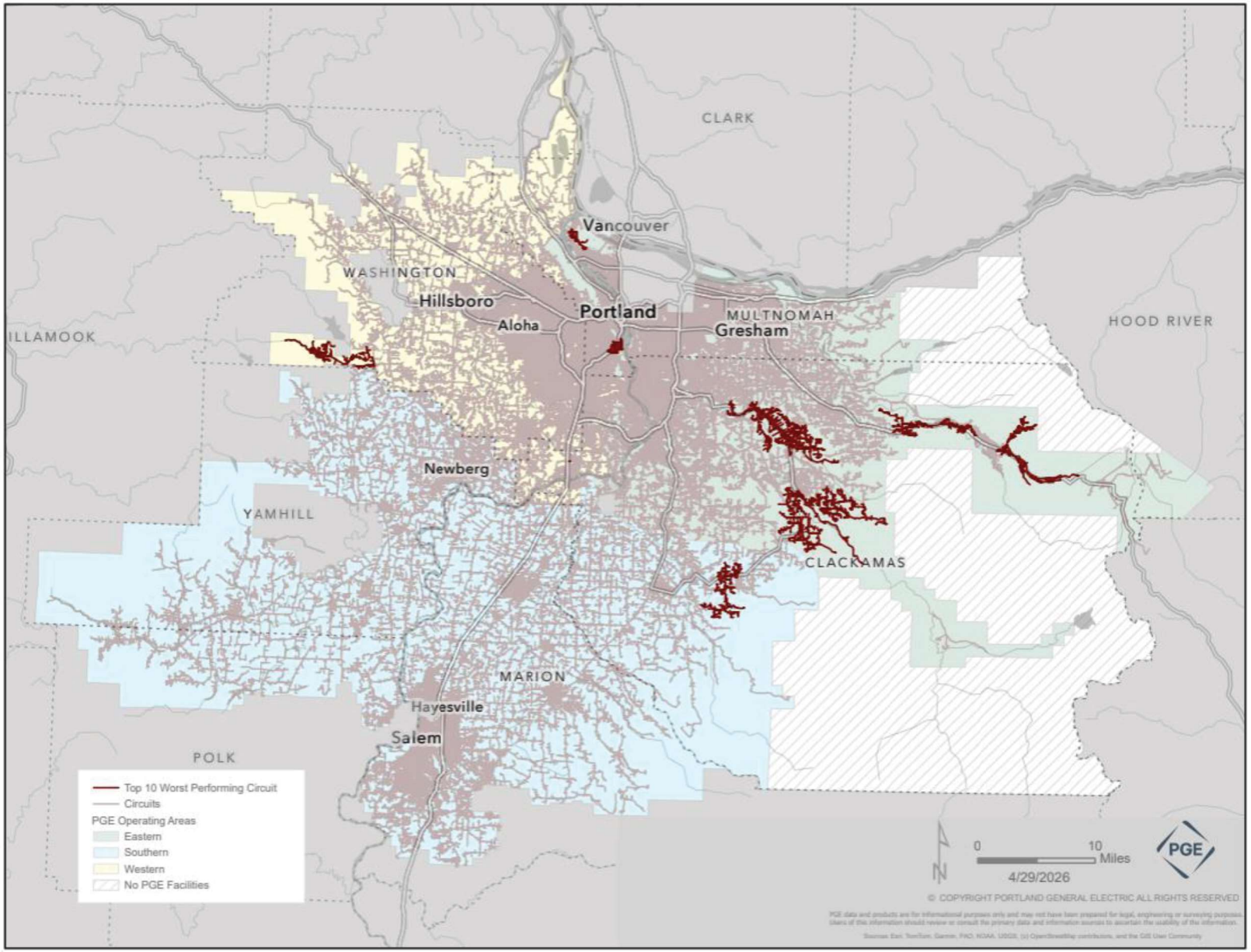


Table 25. 2025 Worst Performing SAIFI – Major Events Included

	2025 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
RIVERGATE SOUTH-SWIFT	42	3	1,235	257	2,006	0.098	0.019	9.426	1.873	8.161	–	–	2	2	1	Interruption drivers: weather and equipment. Improvement efforts: Completed 2 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
SCOGGINS-CHERRY GROVE*	1,044	3,073	612	1,092	1,603	2.800	7.706	1.672	3.319	5.730	2	4	1	5	4	Interruption drivers: weather, vegetation, and equipment. Improvement efforts: Completed 6 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers and replaced a switch in 2025. Installed 2 reclosers and converted portions of overhead primary circuit to underground cable in 2024.
EAGLE CREEK-RIVER MILL*	8,139	3,360	840	1,938	1,184	5.697	9.343	5.889	4.373	5.223	–	5	1	2	–	Interruption drivers: vegetation, weather, and transmission Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
WILSONVILLE-VILLEBOIS	166	7	17	74	798	0.056	0.600	0.123	1.618	5.171	–	–	–	1	–	Interruption drivers: transmission (weather), and weather. Improvement efforts: Completed 5 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced a recloser in 2025.

	2025 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
ESTACADA-NORTH FORK*	9,594	1,100	425	1,746	1,836	5.985	4.005	2.044	4.202	4.655	6	–	–	–	3	Interruption drivers: weather, vegetation, and equipment. Improvement efforts: Completed 27 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 6 reclosers, replaced portions of overhead primary circuit, replaced portions of open-wire secondary in 2025. Reclosers were installed in 2025 to accommodate automatic FLISR mode. Installed new recloser in 2024.
RIVERVIEW-FULTON	3,448	377	367	257	896	2.008	1.676	2.140	0.374	4.561	3	3	1	3	2	Interruption drivers: substation (equipment), weather, and vegetation. Improvement efforts: Completed 26 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of overhead primary in 2025.
WELCHES-ZIG ZAG*	6,725	3,758	562	4,297	5,183	5.707	6.111	3.022	7.207	4.557	3	7	–	–	1	Interruption drivers: public, vegetation, and weather. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.

	2025 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
BRIGHTWOOD-BRIGHTWOOD 13*	3,010	2,080	365	4,230	2,870	3.582	4.631	2.561	3.032	4.512	7	14	8	9	1	Interruption drivers: vegetation, substation (equipment), and weather. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items in 2025. Automatic FLISR mode enabled in 2024.
COLTON-DHOOGHE**	7,528	2,535	505	716	1,628	3.564	2.458	1.617	2.833	4.474	4	2	2	1	2	Interruption drivers: vegetation, weather, and equipment. Improvement efforts: Completed 7 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of overhead primary and secondary circuit in 2025.
EAGLE CREEK-BARTON*	5,757	402	–	984	1,331	5.984	2.882	–	3.516	4.445	–	5	1	2	–	Interruption drivers: weather, public, and equipment. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.

* Circuit is within or has portions within PGE's 2025 High Fire Risk Zone (HFRZ).

** Circuit is within or has portions within PGE's 2025 Area of Interest (AOI), renamed to Enhanced Fire Risk Zone (EFRZ) in 2026.

*** Circuit is within or has portions within both PGE's 2025 HFRZ and an AOI.

Devices on circuits within a HFRZ or AOI have specific settings during PGE's declared Wildfire Season during the year..[9]

[9] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 12. 2024 Worst SAIDI – Major Events Excluded Map

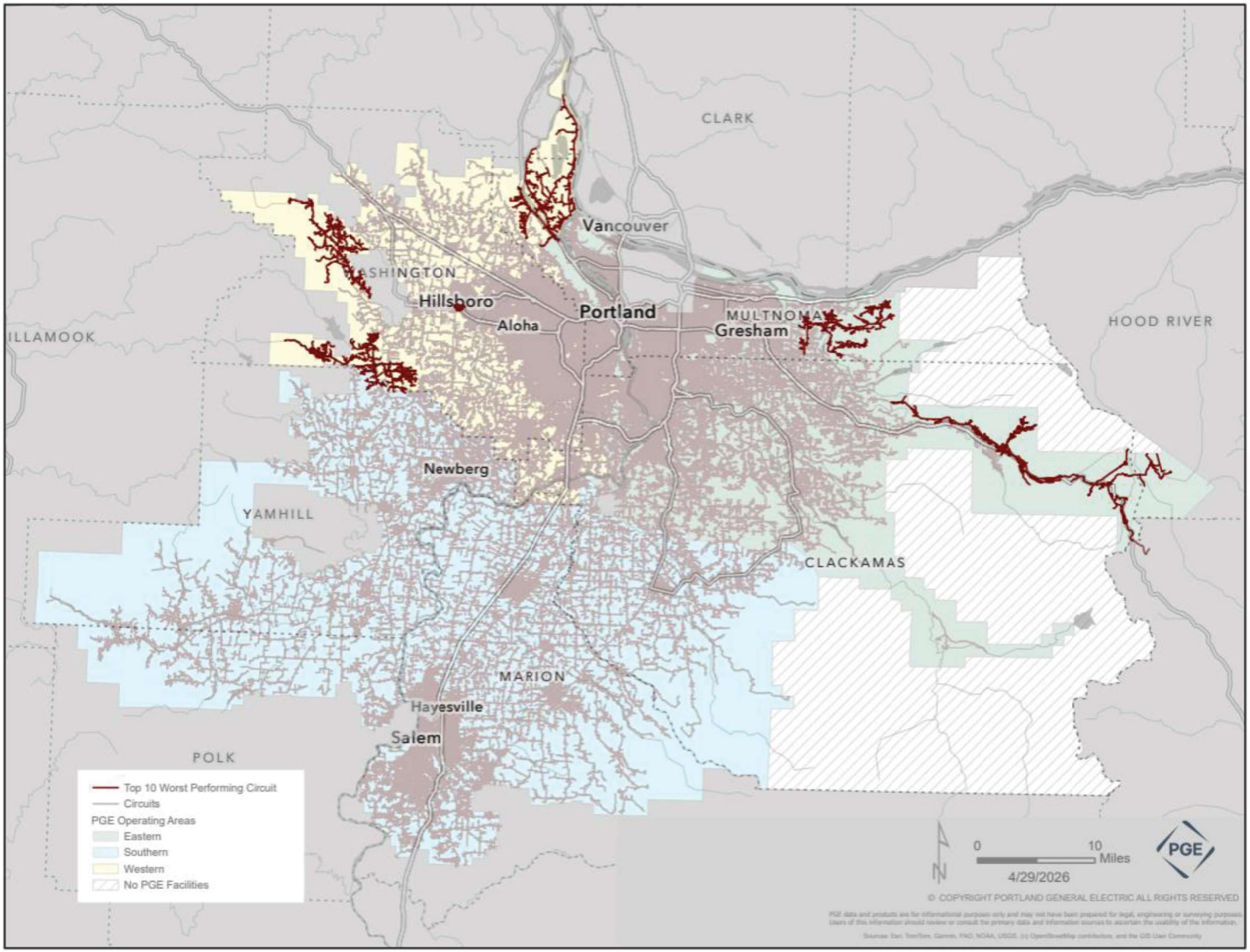


Table 26. 2024 Worst Performing SAIDI – Major Events Excluded

	2024 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
SUMMIT-SUMMIT 13*	263	685	104	2,077	276	1.324	3.305	1.120	2.686	1.315	4	6	3	–	–	Interruption drivers: weather, transmission (equipment), equipment. Improvement efforts: Completed 8 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed fuses, 2 Early Fault Detection devices, and replaced 2 Early Fault Detection devices in 2024.
SUMMIT-MEADOWS*	530	458	121	1,507	46	1.525	3.100	1.475	2.450	0.050	6	5	2	2	–	Interruption drivers: weather, vegetation, transmission (equipment). Improvement efforts: Completed 2 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced a capacitor in 2025. Installed 4 Early Fault Detection devices in 2024.
WELCHES-ZIG ZAG*	1,019	586	562	1,349	845	3.489	2.959	3.022	4.206	3.539	2	4	–	–	1	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.
GALES CREEK-GALES CREEK 13*	1,782	942	956	1,277	664	6.601	4.509	3.805	5.630	2.763	3	2	2	4	-	Interruption drivers: vegetation, equipment, transmission (vegetation). Improvement efforts: Completed 9 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced switching cabinet in 2025. Automatic FLISR mode enabled in 2025. Installed 3 reclosers in 2024.

	2024 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
ORIENT-OXBOW*	997	1,671	385	1,020	257	4.005	5.937	1.591	2.217	0.936	1	3	1	1	–	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Monitoring and evaluating potential action items in 2025. New reclosers and tree wire reconductors completed in 2024. Installed recloser, covered wire, and replaced portions of underground primary cable in 2024.
BRIGHTWOOD-NORTH BANK*	197	705	1,115	933	995	0.912	4.481	7.402	3.577	2.740	4	6	12	4	4	Interruption drivers: equipment, weather, vegetation. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024. Tree wire reconductor and reclosers installed to allow for enablement of FLISR. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024.
SCOGGINS-CHERRY GROVE*	1,039	1,094	612	927	555	2.796	6.254	1.672	3.238	3.524	1	1	1	4	2	Interruption drivers: vegetation, lightning, substation (equipment). Improvement efforts: Completed 6 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers and replaced a switch in 2025. Installed 2 reclosers and converted portions of overhead primary circuit to underground cable in 2024.

	2024 Worst Performing SAIDI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
HARBORTON-BURLINGTON*	299	404	657	906	440	0.770	1.573	3.417	3.122	1.894	1	–	4	2	–	Interruption drivers: vegetation, equipment, weather. Improvement efforts: Completed 32 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Removed portions of underground primary and overhead primary circuit. Installed 5 reclosers, replaced 1 recloser, and spacers installed in 2025.
HILLSBORO-SCHOLLS	7	51	36	902	153	0.071	0.527	0.241	2.904	1.255	–	1	2	–	1	Interruption drivers: public, equipment, weather. Improvement efforts: Completed 12 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
SCOGGINS-LAURELWOOD*	170	380	141	808	58	1.352	2.601	0.514	4.882	0.646	1	8	–	4	2	Interruption drivers: vegetation, equipment, substation. Improvement efforts: Completed 16 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers in 2025. Installed recloser, TripSaver fuse, and replaced open-wire secondary in 2024.

* Circuit is within or has portions within PGE's 2024 High Fire Risk Zone (HFRZ).
Devices on circuits within a HFRZ have specific settings during PGE's declared Wildfire Season during the year.[10]

[10] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 13. 2024 Worst SAIDI – Major Events Included Map

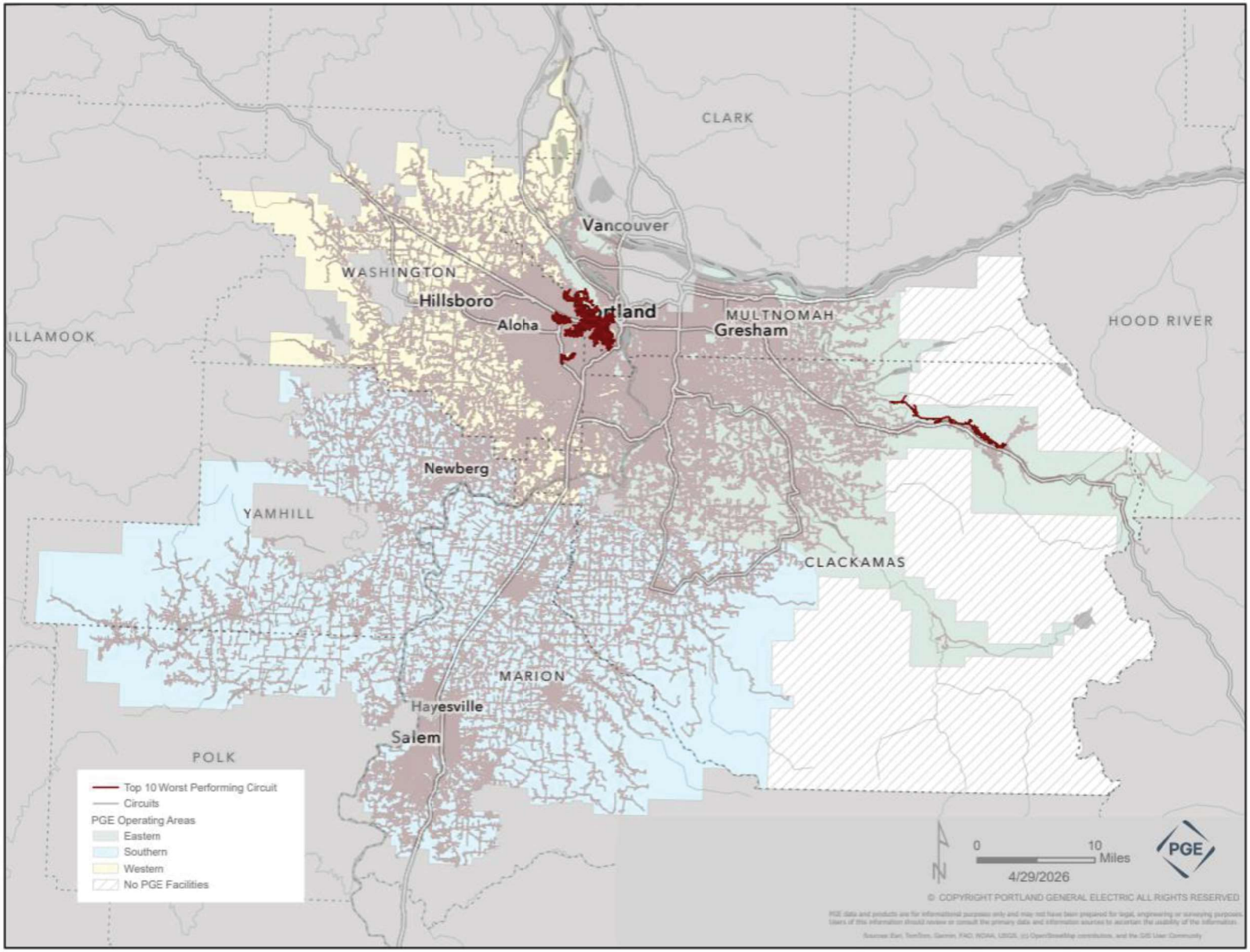


Table 27. 2024 Worst Performing SAIDI – Major Events Included

	2024 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
PROGRESS-SAWYER	149	121	0	17,729	65	0.291	1.248	0.004	6.551	0.169	1	–	–	2	–	Interruption drivers: substation (operations error), weather, public. Improvement efforts: Monitoring and evaluating potential action items in 2025. Distribution automation schema implementation in 2024.
MULTNOMAH-13181	1,680	332	22	11,188	34	1.942	0.454	0.204	2.471	0.192	2	2	1	3	1	Interruption drivers: weather, vegetation, wildlife. Improvement efforts: Completed 33 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced 1 fuse in 2025. Installed portions of overhead primary circuit and replaced fuses in 2024.
GLENCULLEN-BRIDLEMILE	3,990	1,566	194	9,236	201	3.450	3.041	1.493	2.816	1.437	–	6	5	4	2	Interruption drivers: weather, vegetation, public. Improvement efforts: Completed 60 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of overhead primary circuit and underground primary cable in 2025. Distribution Automation project for this feeder has all reclosers installed as of 2025. Installed recloser in 2024.
SYLVAN-BARNES*	945	1,144	471	8,274	330	0.446	1.854	1.308	6.140	1.956	–	3	2	–	–	Interruption drivers: weather, public, equipment. Improvement efforts: Completed 11 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of underground cable in 2025. Replaced open-wire secondary in 2024.

	2024 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
CANYON-CANYON 13	88	602	67	7,706	298	0.253	2.104	0.197	2.677	2.260	1	2	–	1	1	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Completed 41 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed recloser and fuse in 2024.
CEDAR HILLS-SHOPPING CENTER	22	406	210	7,121	330	0.165	1.694	1.418	3.259	1.635	2	5	–	3	–	Interruption drivers: weather, equipment, vegetation. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire secondary, and replaced multiple spans of underground cable in 2025. Installed new fuses, replaced open-wire secondary, and replaced portions underground cable in 2024.
BRIGHTWOOD-NORTH BANK*	5,142	4,985	1,115	6,944	3,493	3.829	9.429	7.402	6.068	4.280	6	19	12	8	6	Interruption drivers: weather, equipment, vegetation. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replace portions of underground in 2025. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024.
SYLVAN-PATTON*	1,847	2,677	436	6,706	131	3.371	5.203	0.796	5.630	1.936	1	8	3	4	–	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Completed 34 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed fuse in 2025.

	2024 Worst Performing SAIDI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
RALEIGH HILLS-DOGWOOD	37	293	19	6,612	360	0.228	0.547	0.146	2.192	1.102	1	2	1	4	1	Interruption drivers: weather, vegetation, wildlife. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire secondary and portions of underground cable in 2024.
GLENCULLEN-SUNSET	3,694	891	271	6,536	132	2.550	1.586	1.195	2.778	0.381	1	6	3	4	2	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Completed 34 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground primary in 2025.

* Circuit is within or has portions within PGE's 2024 High Fire Risk Zone (HFRZ).
Devices on circuits within a HFRZ have specific settings during PGE's declared Wildfire Season during the year..[11]

[11] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 14. 2024 Worst Performing SAIFI – Major Events Excluded Map

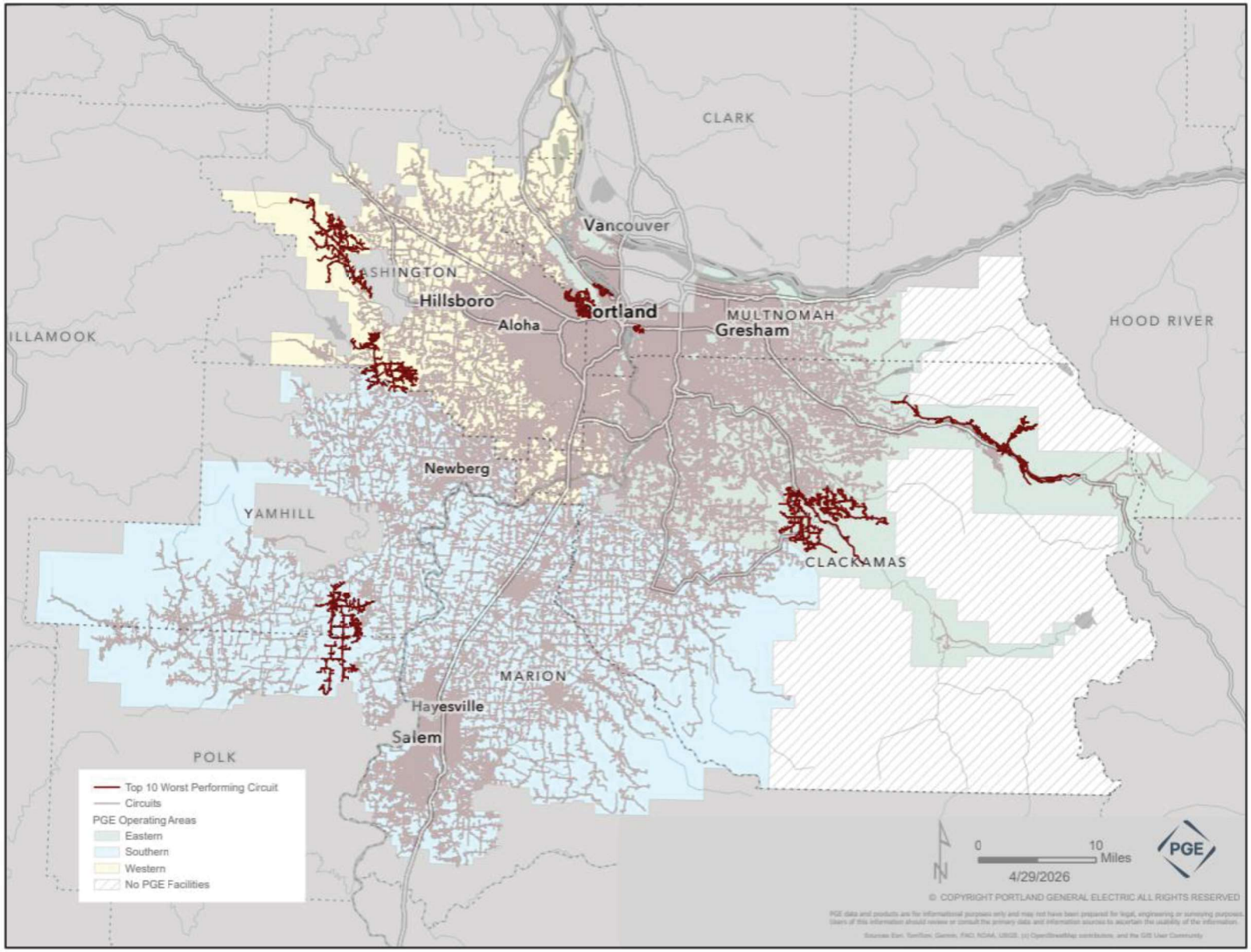


Table 28. 2024 Worst Performing SAIFI – Major Events Excluded

	2024 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
GALES CREEK-GALES CREEK 13*	1,782	942	956	1,277	664	6.601	4.509	3.805	5.630	2.763	3	2	2	4	–	Interruption drivers: vegetation, equipment, public. Improvement efforts: Completed 9 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced switching cabinet in 2025. Automatic FLISR mode enabled in 2025. Installed 3 reclosers in 2024.
HOLGATE-GIDEON	11	6	0	339	181	0.129	0.024	0.001	5.064	1.228	2	1	1	2	1	Interruption drivers: substation (equipment), vegetation, equipment. Improvement efforts: Completed 18 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
E-11047	–	302	5	524	26	–	1.020	0.013	5.027	0.053	1	1	1	1	–	Interruption drivers: substation (weather), public, weather. Improvement efforts: Monitoring and evaluating potential action items in 2025. Circuit tie replaced in 2024.
SCOGGINS-LAURELWOOD*	170	380	141	808	58	1.352	2.601	0.514	4.882	0.646	1	8	–	4	2	Interruption drivers: vegetation, substation (equipment), equipment. Improvement efforts: Completed 16 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 2 reclosers in 2025. Installed recloser, TripSaver fuse, and replaced open-wire secondary in 2024.

	2024 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
WELCHES-ZIG ZAG*	1,019	586	562	1,349	845	3.489	2.959	3.022	4.206	3.539	2	4	–	–	1	Interruption drivers: vegetation, public, transmission (equipment). Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Several pole replacements, new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.
BRIGHTWOOD-NORTH BANK*	197	705	1,115	933	995	0.912	4.481	7.402	3.577	2.740	4	6	12	4	4	Interruption drivers: equipment, vegetation, weather. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replace portions of underground primary in 2025. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024.
ESTACADA-NORTH FORK*	560	189	425	635	340	2.970	1.155	2.044	3.553	1.870	–	–	–	–	1	Interruption drivers: vegetation, weather, public. Improvement efforts: Completed 27 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Reclosers installed in 2025 to accommodate automatic FLISR mode. Installed 6 reclosers, replaced portions of overhead primary, replaced portions of open-wire secondary in 2025. Installed new recloser in 2024.

	2024 Worst Performing SAIFI – Major Events Excluded															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
E-11041	1	–	–	403	–	0.006	–	–	3.520	–	1	1	–	1	1	Interruption drivers: equipment. Improvement efforts: Monitoring and evaluating potential action items in 2025. Circuit tie replaced in 2024.
AMITY-AMITY 13	219	122	275	755	106	0.667	0.328	0.760	3.513	0.371	–	1	2	1	2	Interruption drivers: equipment, weather, public. Improvement efforts: Completed 10 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground primary cable in 2025. Replaced open-wire secondary in 2024.
SYLVAN-BARNES*	75	88	471	371	57	0.215	0.375	1.308	3.415	0.199	–	2	2	–	–	Interruption drivers: public, equipment, transmission (weather). Improvement efforts: Completed 11 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of underground cable in 2025. Replaced open-wire secondary in 2024.

* Circuit is within or has portions within PGE's 2024 High Fire Risk Zone (HFRZ).
Devices on circuits within a HFRZ have specific settings during PGE's declared Wildfire Season during the year..[12]

[12] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

Figure 15. 2024 Worst Performing SAIFI – Major Events Included Map

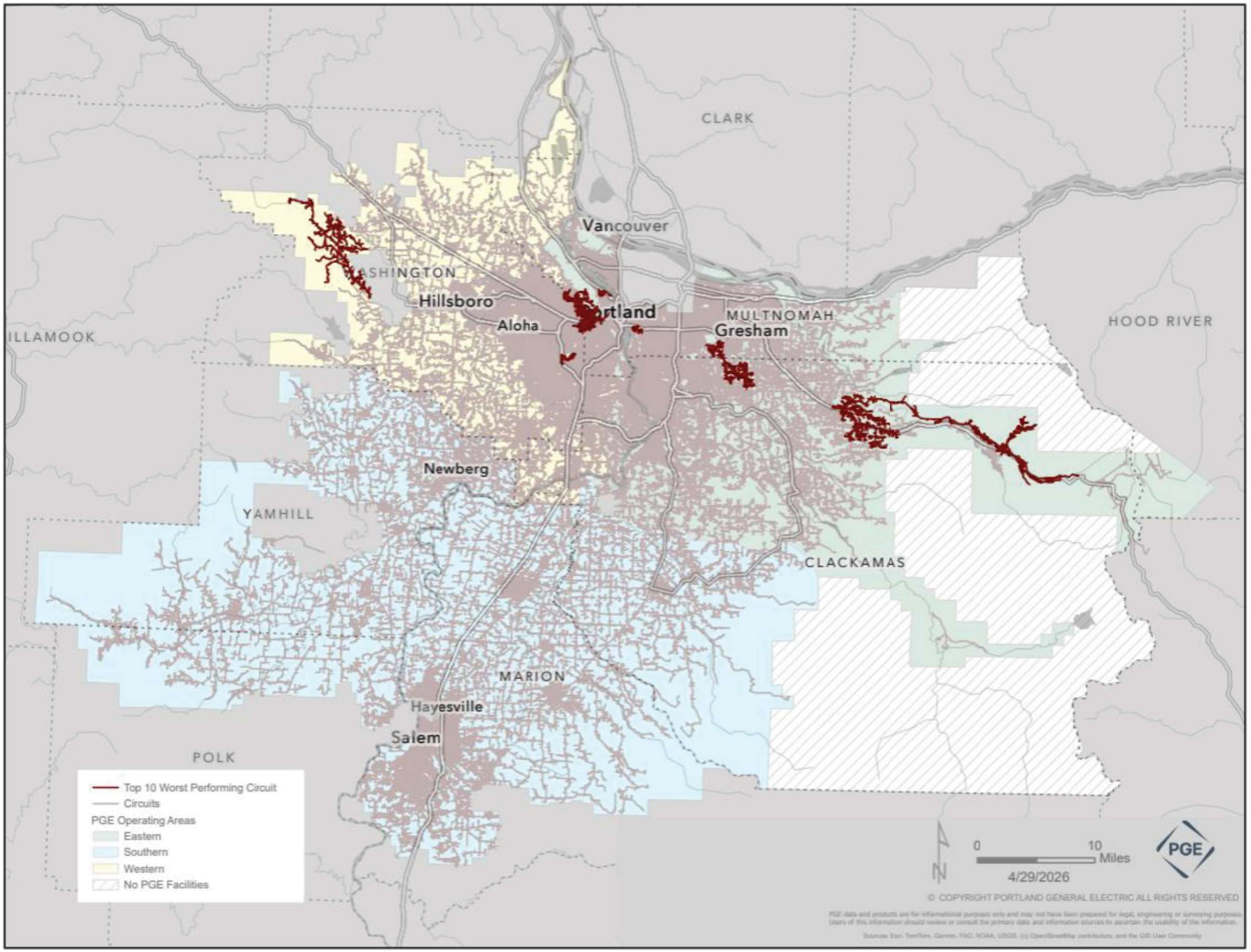


Table 29. 2024 Worst Performing SAIFI – Major Events Included

	2024 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
GALES CREEK-GALES CREEK 13*	2,736	2,783	956	1,838	1,137	7.378	5.943	3.805	7.233	3.563	3	2	2	7	–	Interruption drivers: vegetation, weather, equipment. Improvement efforts: Completed 9 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced switching cabinet in 2025. Automatic FLISR mode enabled in 2025. Installed 3 reclosers in 2024.
WELCHES-ZIG ZAG*	6,725	3,758	562	4,297	5,183	5.707	6.111	3.022	7.207	4.557	3	7	–	–	1	Interruption drivers: weather, vegetation, public. Improvement efforts: Completed 25 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced open-wire and sections of underground cable in 2025. Installed new reclosers, and Distribution Automation scheme implemented in 2024. Installed 10 Early Fault Detection devices, replaced 3 Early Fault Detection devices, and replaced open-wire secondary in 2024.
PROGRESS-SAWYER	149	121	0	17,729	65	0.291	1.248	0.004	6.551	0.169	1	–	–	2	–	Interruption drivers: weather, substation, wildlife. Improvement efforts: Monitoring and evaluating potential action items in 2025. Distribution automation schema implementation in 2024.
SYLVAN-BARNES*	945	1,144	471	8,274	330	0.446	1.854	1.308	6.140	1.956	–	3	2	–	–	Interruption drivers: weather, public, equipment. Improvement efforts: Completed 11 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced sections of underground cable in 2025. Replaced open-wire secondary in 2024.

	2024 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
BRIGHTWOOD-NORTH BANK*	5,142	4,985	1,115	6,944	3,493	3.829	9.429	7.402	6.068	4.280	6	19	12	8	6	Interruption drivers: equipment, weather, vegetation. Improvement efforts: Completed 4 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Replaced portions of underground primary in 2025. Tree wire reconductor, ductile iron pole replacements, recloser installations, Distribution Automation scheme implemented in 2024. Installed 9 Early Fault Detector devices and replaced 2 Early Fault Detector devices in 2024.
SANDY-SANDY 13*	1,011	2,431	230	4,154	495	1.820	6.947	2.284	5.712	1.335	4	4	–	2	3	Interruption drivers: weather, vegetation, equipment. Improvement efforts: Completed 31 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 3 reclosers, replaced sections of underground primary cable, and replaced open-wire in 2025. Distribution Automation scheme was implemented in 2024.
SYLVAN-PATTON*	1,847	2,677	436	6,706	131	3.371	5.203	0.796	5.630	1.936	1	8	3	4	–	Interruption drivers: public, weather, transmission (weather). Improvement efforts: Completed 34 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Installed 1 fuse in 2025.
PLEASANT VALLEY-PLEASANT VALLEY 13	–	–	–	2,373	304	–	–	–	5.342	1.688	–	–	–	4	4	Interruption drivers: vegetation, weather, public. Improvement efforts: Monitoring and evaluating potential action items in 2025.

	2024 Worst Performing SAIFI – Major Events Included															
	SAIDI					SAIFI					$MAIFI_E$					
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	Analysis & Steps Taken
HOLGATE-GIDEON	159	6	0	339	181	0.182	0.024	0.001	5.064	1.228	3	3	1	2	1	Interruption drivers: substation (equipment), vegetation, equipment. Improvement efforts: Completed 18 safety, compliance, and/or reliability focused work orders on this circuit in 2025. Monitoring and evaluating potential action items.
E-11047	23	302	5	524	26	0.007	1.020	0.013	5.027	0.053	1	1	1	1	–	Interruption drivers: substation (weather), public, weather. Improvement efforts: Monitoring and evaluating potential action items in 2025. Feeder tie was replaced in 2024.

* Circuit is within or has portions within PGE's 2024 High Fire Risk Zone (HFRZ).
Devices on circuits within a HFRZ have specific settings during PGE's declared Wildfire Season during the year..[13]

[13] For more information related to PGE's Wildfire Safety program, Wildfire Mitigation Plan, and impact from device settings, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

7 Transmission System Performance

PGE's stores Transmission Availability Data System interruption data in the System Disturbance Database (SDDB).[14] The interruption data cause structure, method of collection and maintenance, and electric system focus differs between the OMS and SDDB.

In the SDDB, interruption data is modeled from the circuit breaker upward through the substation and transmission system. In contrast, the OMS models interruption data from the circuit breaker downward to individual customer service interruptions. Relays are modeled in the SDDB but are not represented in the OMS.

Interruption data in the OMS is captured through various channels, as outlined in Section 2, Reporting Methodology. All data entered into the SDDB is verified and manually recorded. System restoration in the SDDB is tracked until the system is fully returned to its pre-interruption state, whereas in the OMS, data is tracked until individual customer service is restored.

The SDDB provides a comprehensive, long-term view of system disturbances, while the OMS focuses on customer interruptions and restoration activities.

The SDDB also tracks specific information not captured or emphasized in the OMS. The relevant zone of protection is documented in the Station and Position fields. Additionally, interruption causes are categorized at three levels—Major, Minor, and Detailed—as shown in Table 36 in Appendix D, Causes are recorded for both the Initiating Event and Disturbance Cause. The Initiating Event is the trigger that initially caused the circuit breaker to open, while the Disturbance Cause may or may not be the same. For momentary interruptions, these two are generally the same, but for sustained interruptions, they may differ.

Table 30 displays performance and reliability data for all PGE lines operated above 35 kV. The table includes Transmission Availability Data System (TADS) interruption data such as substation, interruption type, date/time, duration, initiating event, and cause.

[14] The Transmission System Performance Chapter reflects the performance of all circuits above 35 kV.

Table 30. Transmission Outages

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
CORNELIUS	Yamhill 57kV	57	Momentary	2/1/2025 7:49:26 AM	2/1/2025 7:49:31 AM	5s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	2/3/2025 2:34:12 AM	2/3/2025 5:13:54 AM	2h 39m 42s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
GRASSLAND	Slatt, BPA 500kV	500	Sustained	2/3/2025 5:09:09 AM	2/3/2025 3:50:12 PM	10h 41m 3s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
FARADAY SWYD	57/11kV Transformers BK14	57	Sustained	2/3/2025 10:30:50 AM	2/3/2025 11:07:59 AM	37m 9s	No	General	Other	Unknown	General	Other	Unknown
FARADAY SWYD	Molalla 57kV	57	Sustained	2/5/2025 4:11:53 PM	2/5/2025 10:07:59 PM	5h 56m 6s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
ST MARYS WEST	[redacted]	115	Momentary	2/13/2025 4:28:48 AM	2/13/2025 4:28:53 AM	5s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Natural Causes	High Winds
DUNNS CORNER	[redacted]	57	Momentary	2/14/2025 9:31:29 AM	2/14/2025 9:31:34 AM	5s	No	General	Other	Unknown	General	Other	Unknown
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	2/23/2025 5:25:52 PM	2/23/2025 9:01:28 PM	3h 35m 36s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
FARADAY SWYD	Molalla 57kV	57	Sustained	2/24/2025 11:40:42 AM	2/24/2025 3:19:25 PM	3h 38m 43s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
HARBORTON	St Helens 115kV	115	Momentary	2/24/2025 4:49:01 PM	2/24/2025 4:49:17 PM	16s	Yes	Equipment Failure	Line Equipment	Pole / Structure	Weather / Environment	Natural Causes	High Winds
DUNNS CORNER	[redacted]	57	Momentary	2/24/2025 5:19:29 PM	2/24/2025 5:19:34 PM	5s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
DAYTON	Sheridan 57kV	57	Momentary	2/24/2025 6:24:01 PM	2/24/2025 6:24:06 PM	5s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
DAYTON	Sheridan 57kV	57	Sustained	2/24/2025 6:27:27 PM	2/26/2025 3:54:44 PM	1d 21h 27m 17s	Yes	Equipment Failure	Line Equipment	Pole / Structure	Weather / Environment	Natural Causes	High Winds
SHERWOOD	Springbrook 115kV	115	Momentary	2/24/2025 6:44:49 PM	2/24/2025 6:44:57 PM	8s	Yes	General	Other	Under / Overbuild	Weather / Environment	Natural Causes	High Winds
SHERWOOD	Wilsonville 115kV	115	Sustained	2/24/2025 6:50:36 PM	2/24/2025 11:02:52 PM	4h 12m 16s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Natural Causes	High Winds
ORENCO	St Marys #1 115kV	115	Sustained	2/24/2025 6:51:58 PM	2/25/2025 1:27:38 PM	18h 35m 40s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Natural Causes	High Winds
BORING	River Mill 57kV	57	Sustained	2/24/2025 7:22:12 PM	2/24/2025 7:22:27 PM	15s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Natural Causes	High Winds

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
BORING	River Mill 57kV	57	Sustained	2/24/2025 7:22:55 PM	2/25/2025 12:39:54 PM	17h 16m 59s	Yes	General	Other	Unknown	General	Other	Unknown
CANYON	West Portland 115kV	115	Momentary	2/24/2025 7:48:18 PM	2/24/2025 7:48:39 PM	21s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
MCLOUGHLIN	Sellwood 115kV	115	Sustained	2/24/2025 7:56:19 PM	2/25/2025 10:28:09 AM	14h 31m 50s	Yes	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Natural Causes	High Winds
HARBORTON	St Helens 115kV	115	Sustained	2/24/2025 9:07:45 PM	2/26/2025 9:03:24 PM	1d 23h 55m 39s	Yes	Equipment Failure	Line Equipment	Pole / Structure	Weather / Environment	Natural Causes	High Winds
BORING	River Mill 57kV	57	Sustained	3/4/2025 4:41:59 AM	3/4/2025 7:20:45 AM	2h 38m 46s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
LENTS	Sellwood 57kV	57	Momentary	3/6/2025 6:22:36 AM	3/6/2025 6:22:41 AM	5s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
RHODODENDRON	Summit 57kV	57	Sustained	3/13/2025 5:47:49 AM	3/13/2025 11:15:14 AM	5h 27m 25s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
BETHEL	Salem 57kV	57	Momentary	3/13/2025 12:06:35 PM	3/13/2025 12:06:50 PM	15s	No	Weather / Environment	Natural Causes	Lightning	Weather / Environment	Natural Causes	Lightning
TABOR	Knott, PACW 57kV	57	Momentary	3/13/2025 12:14:52 PM	3/13/2025 12:14:57 PM	5s	No	General	External Entity	Foreign Utility	General	External Entity	Foreign Utility
E	[redacted]	115	Momentary	3/13/2025 3:08:59 PM	3/13/2025 3:09:04 PM	5s	No	Weather / Environment	Natural Causes	Lightning	Weather / Environment	Natural Causes	Lightning
HOGAN SOUTH	Tabor 57kV	57	Sustained	3/14/2025 10:27:40 PM	3/15/2025 11:03:55 AM	12h 36m 15s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
DUNNS CORNER	[redacted]	57	Sustained	4/8/2025 9:18:45 PM	4/9/2025 12:24:28 PM	15h 5m 43s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
GLENDOVEER	Tabor 115kV	115	Sustained	4/14/2025 7:55:11 AM	4/14/2025 9:04:32 AM	1h 9m 21s	No	General	External Entity	Foreign Utility	General	External Entity	Foreign Utility
HARBORTON	St Helens 115kV	115	Momentary	4/26/2025 7:18:41 AM	4/26/2025 7:18:57 AM	16s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
MCLOUGHLIN	Wilsonville 115kV	115	Sustained	5/7/2025 10:17:57 AM	5/7/2025 1:28:50 PM	3h 10m 53s	No	Human Factors	Operation Error	Other	Human Factors	Operation Error	Other
BORING	River Mill 57kV	57	Sustained	5/8/2025 9:41:45 PM	5/8/2025 10:05:49 PM	24m 4s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
CORNELIUS	Orenco #2 57kV	57	Momentary	5/12/2025 10:55:22 AM	5/12/2025 10:55:37 AM	15s	No	General	Other	Under / Overbuild	General	Other	Under/Over-build
HILLCREST	Mill Creek 115kV	115	Momentary	5/24/2025 2:59:06 PM	5/24/2025 2:59:21 PM	15s	No	General	Other	Unknown	General	Other	Unknown

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
HILLCREST	Liberty 115kV	115	Sustained	5/24/2025 2:59:14 PM	5/24/2025 4:20:45 PM	1h 21m 31s	No	General	Other	Unknown	General	Other	Unknown
HILLCREST	Oxford 115kV	115	Momentary	5/24/2025 2:59:14 PM	5/24/2025 2:59:19 PM	5s	No	General	Other	Power System Condition	General	Other	Power System Condition
SCOGGINS	[redacted]	57	Sustained	5/24/2025 4:25:29 PM	5/24/2025 7:05:37 PM	2h 40m 8s	No	General	Other	Unknown	General	Other	Unknown
LENTS	Sellwood 57kV	57	Momentary	5/25/2025 4:22:46 AM	5/25/2025 4:22:51 AM	5s	No	General	Other	Unknown	General	Other	Unknown
FARADAY SWYD	River Mill 57kV	57	Sustained	6/6/2025 10:21:58 PM	6/6/2025 11:17:25 PM	55m 27s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
CORNELIUS	Yamhill 57kV	57	Momentary	6/11/2025 8:31:28 AM	6/11/2025 8:31:44 AM	16s	No	Human Factors	General Public	Object Contact	Human Factors	General Public	Object Contact
DAYTON	Yamhill 57kV	57	Sustained	6/13/2025 10:09:27 PM	6/15/2025 2:43:55 PM	1d 16h 34m 28s	No	Weather / Environment	Natural Causes	Wildfire	Weather / Environment	Natural Causes	Wildfire
GLENDOVEER	Tabor 115kV	115	Sustained	6/14/2025 4:33:02 AM	6/14/2025 5:49:52 PM	13h 16m 50s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
SELLWOOD	Raleigh Hills 115kV	115	Momentary	6/20/2025 1:24:53 PM	6/20/2025 1:25:08 PM	15s	No	General	Other	Unknown	General	Other	Unknown
SELLWOOD	Urban-West Portland 115kV	115	Momentary	6/20/2025 1:24:53 PM	6/20/2025 1:25:08 PM	15s	No	General	Other	Unknown	General	Other	Unknown
DAYTON	Chemawa, BPA 57kV	57	Momentary	6/24/2025 9:53:57 PM	6/24/2025 9:54:21 PM	24s	No	General	Other	Under/Over-build	General	Other	Under/Over-build
HARBORTON	St Helens 115kV	115	Momentary	6/30/2025 9:25:45 AM	6/30/2025 9:26:01 AM	16s	No	General	Other	Unknown	General	Other	Unknown
DAYTON	[redacted]	115	Sustained	7/13/2025 4:42:15 PM	7/13/2025 11:05:05 PM	6h 22m 50s	No	Equipment Failure	Line Equipment	Other	Equipment Failure	Line Equipment	Other
SCOGGINS	[redacted]	57	Sustained	7/27/2025 1:19:59 PM	7/28/2025 5:53:19 AM	16h 33m 20s	No	General	External Entity	Customer	General	External Entity	Customer
BANKS	Cornelius 57kV	57	Sustained	8/6/2025 1:27:32 AM	8/6/2025 10:41:59 AM	9h 14m 27s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
RIVERGATE	Seaside 230kV	230	Sustained	9/3/2025 1:38:32 AM	9/3/2025 4:24:55 AM	2h 46m 23s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Equipment Failure	Line Equipment	Porcelain Insulator
HOGAN SOUTH	Tabor 57kV	57	Sustained	9/4/2025 10:56:06 AM	9/4/2025 3:15:17 PM	4h 19m 11s	No	Equipment Failure	Line Equipment	Porcelain Insulator	Human Factors	Installation Error	Line Crew
BANKS	Orenco 57kV	57	Momentary	9/6/2025 3:38:55 AM	9/6/2025 3:39:10 AM	15s	No	General	Other	Under / Overbuild	General	Other	Under/Over-build

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
DAYTON	Sheridan 57kV	57	Momentary	9/6/2025 3:58:08 AM	9/6/2025 3:58:23 AM	15s	No	General	Other	Under / Overbuild	General	Other	Under/Over-build
BETHEL	Round Butte 230kV	230	Momentary	9/8/2025 6:09:40 PM	9/8/2025 6:10:10 PM	30s	No	Weather / Environment	Natural Causes	Lightning	Weather / Environment	Natural Causes	Lightning
HORIZON	230/115kV Transformer VWR1	115	Sustained	9/9/2025 1:26:41 AM	9/9/2025 2:10:01 PM	12h 43m 20s	No	Equipment Failure	Substation Equipment	Transformer Device	Equipment Failure	Substation Equipment	Transformer Device
CARVER	McLoughlin #1 230kV	230	Temporary	9/11/2025 11:36:20 AM	9/11/2025 11:38:38 AM	2m 18s	No	Equipment Failure	Substation Equipment	Relay	Equipment Failure	Substation Equipment	Relay
CARVER	McLoughlin #2 230kV	230	Temporary	9/11/2025 11:36:20 AM	9/11/2025 11:38:17 AM	1m 57s	No	Equipment Failure	Substation Equipment	Relay	Equipment Failure	Substation Equipment	Relay
MCLOUGHLIN	230/115kV Transformer VWR5	230	Temporary	9/11/2025 11:36:20 AM	9/11/2025 11:38:50 AM	2m 30s	No	Equipment Failure	Substation Equipment	Relay	Equipment Failure	Substation Equipment	Relay
[redacted]	115/34.5kV Transformer WJ1	115	Sustained	9/17/2025 6:19:33 PM	9/20/2025 7:17:05 AM	2d 12h 57m 32s	No	Equipment Failure	Substation Equipment	Breaker	Equipment Failure	Substation Equipment	Breaker
LIBERTY	Salem, BPA 115kV	115	Momentary	9/18/2025 11:59:26 PM	9/18/2025 11:59:41 PM	15s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
LIBERTY	Salem, BPA 115kV	115	Sustained	9/19/2025 1:23:00 AM	9/19/2025 11:08:55 AM	9h 45m 55s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
RIVERGATE	230/115kV Transformer VWR1	115	Sustained	9/29/2025 2:32:00 AM	9/29/2025 10:17:00 AM	7h 45m	No	Equipment Failure	Substation Equipment	Transformer Device	Equipment Failure	Substation Equipment	Transformer Device
OSWEGO	West Portland 115kV	115	Sustained	9/30/2025 8:23:56 AM	9/30/2025 1:41:33 PM	5h 17m 37s	No	Equipment Failure	Substation Equipment	Breaker	Equipment Failure	Substation Equipment	Breaker
BLUE LAKE	Glendoveer 115kV	115	Sustained	9/30/2025 10:31:16 AM	9/30/2025 5:53:57 PM	7h 22m 41s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
[redacted]	Allston, BPA #2 230kV	230	Sustained	10/14/2025 2:06:08 PM	10/17/2025 10:57:41 AM	2d 20h 51m 33s	No	Equipment Failure	Substation Equipment	Breaker	Equipment Failure	Substation Equipment	Breaker
BETHEL	McLoughlin-Monitor 230kV	230	Sustained	10/24/2025 7:48:08 AM	10/24/2025 8:25:22 AM	37m 14s	No	General	Other	Unknown	General	Other	Unknown
MONITOR	Mt Angel 57kV	57	Momentary	10/24/2025 7:48:17 AM	10/24/2025 7:48:22 AM	5s	No	General	Other	Unknown	General	Other	Unknown
DAYTON	Sheridan 57kV	57	Momentary	10/24/2025 4:26:49 PM	10/24/2025 4:27:07 PM	18s	No	General	Other	Unknown	General	Other	Unknown
MT ANGEL	Silverton 57kV	57	Sustained	10/24/2025 4:57:43 PM	10/24/2025 10:50:29 PM	5h 52m 46s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
BORING	Hogan South-Lents 57kV	57	Momentary	10/24/2025 5:37:25 PM	10/24/2025 5:37:30 PM	5s	No	General	Other	Unknown	General	Other	Unknown
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	10/24/2025 5:55:28 PM	10/25/2025 7:04:36 AM	13h 9m 8s	No	General	Other	Unknown	General	Other	Unknown
BORING	Faraday 57kV	57	Sustained	10/25/2025 2:08:43 PM	10/25/2025 5:14:12 PM	3h 5m 29s	Yes	General	Other	Unknown	General	Other	Unknown
BORING	River Mill 57kV	57	Sustained	10/25/2025 2:11:00 PM	10/25/2025 6:01:50 PM	3h 50m 50s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
DUNNS CORNER	Brightwood 57kV	57	Momentary	10/25/2025 2:18:12 PM	10/25/2025 2:18:28 PM	16s	Yes	General	Other	Unknown	General	Other	Unknown
DUNNS CORNER	Brightwood 57kV	57	Momentary	10/25/2025 2:23:43 PM	10/25/2025 5:37:28 PM	3h 13m 45s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
DUNNS CORNER	[redacted]	57	Sustained	10/25/2025 2:26:51 PM	10/25/2025 6:45:58 PM	4h 19m 7s	Yes	General	Other	Unknown	General	Other	Unknown
LENTS	Sellwood 57kV	57	Momentary	10/25/2025 3:22:22 PM	10/25/2025 3:22:27 PM	5s	Yes	General	Other	Unknown	General	Other	Unknown
MCLOUGHLIN	Sellwood 115kV	115	Momentary	11/1/2025 1:10:42 AM	11/1/2025 1:10:57 AM	15s	No	General	Other	Under / Overbuild	General	Other	Under/Over-build
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	11/6/2025 8:17:01 PM	11/6/2025 8:17:31 PM	30s	No	General	Other	Under / Overbuild	General	Other	Under/Over-build
BORING	Faraday 57kV	57	Sustained	11/8/2025 2:29:05 PM	11/9/2025 9:59:25 AM	19h 30m 20s	No	General	Other	Unknown	General	Other	Unknown
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	11/8/2025 2:30:26 PM	11/8/2025 2:30:56 PM	30s	No	General	Other	Unknown	General	Other	Unknown
DAYTON	Chemawa, BPA 57kV	57	Sustained	11/15/2025 9:46:48 PM	11/16/2025 6:54:24 AM	9h 7m 36s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
GLENDOVEER	Tabor 115kV	115	Momentary	11/22/2025 3:11:10 PM	11/22/2025 3:11:25 PM	15s	No	Equipment Failure	Substation Equipment	Transformer / Load Tap Changer	General	External Entity	Foreign Utility
FARADAY SWYD	Molalla 57kV	57	Sustained	11/27/2025 11:35:54 AM	11/28/2025 6:45:42 PM	1d 7h 9m 48s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	12/5/2025 10:56:49 AM	12/5/2025 10:57:19 AM	30s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	12/5/2025 10:57:58 AM	12/5/2025 2:38:49 PM	3h 40m 51s	No	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Vegetation	Tree Limb
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	12/6/2025 3:34:10 AM	12/6/2025 7:22:03 AM	3h 47m 53s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
CANEMAH	Leland 57kV	57	Momentary	12/8/2025 7:42:18 AM	12/8/2025 7:42:23 AM	5s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
GRAND RONDE	Boyer, PACW 115kV	115	Momentary	12/8/2025 8:35:36 AM	12/8/2025 8:36:01 AM	25s	No	General	External Entity	Foreign Utility	General	External Entity	Foreign Utility
CANEMAH	Leland 57kV	57	Sustained	12/8/2025 10:08:13 AM	12/8/2025 1:30:29 PM	3h 22m 16s	No	Human Factors	General Public	Car hit pole	Human Factors	General Public	Car hit pole
MCLOUGHLIN	Sellwood 115kV	115	Momentary	12/8/2025 10:16:26 PM	12/8/2025 10:16:41 PM	15s	No	Equipment Failure	Line Equipment	Poly Insulator	Equipment Failure	Line Equipment	Poly Insulator
MCLOUGHLIN	Sellwood 115kV	115	Sustained	12/8/2025 10:16:52 PM	12/9/2025 1:36:59 AM	3h 20m 7s	No	Equipment Failure	Line Equipment	Poly Insulator	Equipment Failure	Line Equipment	Poly Insulator
MCLOUGHLIN	Sellwood 115kV	115	Sustained	12/9/2025 1:38:17 AM	12/9/2025 3:17:41 PM	13h 39m 24s	No	Equipment Failure	Line Equipment	Poly Insulator	Equipment Failure	Line Equipment	Poly Insulator
DUNNS CORNER	[redacted]	57	Sustained	12/9/2025 8:27:14 PM	12/10/2025 2:45:24 PM	18h 18m 10s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	12/10/2025 3:43:21 AM	12/10/2025 6:02:56 PM	14h 19m 35s	No	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Vegetation	Tree Failure
NEWBERG	Sherwood 115kV	115	Momentary	12/11/2025 2:18:57 PM	12/11/2025 2:19:02 PM	5s	No	Human Factors	General Public	Car hit pole	General	Other	Under/Over-build
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	12/15/2025 4:00:11 PM	12/15/2025 4:00:41 PM	30s	No	General	Other	Unknown	General	Other	Unknown
DAYTON	[redacted]	115	Sustained	12/17/2025 12:30:30 AM	12/19/2025 3:28:19 PM	2d 14h 57m 49s	Yes	Weather / Environment	Vegetation	Tree Limb	Weather / Environment	Natural Causes	High Winds
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	12/17/2025 12:49:24 AM	12/17/2025 12:49:54 AM	30s	Yes	Weather / Environment	Natural Causes	High Winds	Weather / Environment	Natural Causes	High Winds
ST MARYS WEST	[redacted]	115	Momentary	12/17/2025 12:54:13 AM	12/17/2025 12:54:18 AM	5s	Yes	Equipment Failure	Communications System	Other	Equipment Failure	Communications System	Other
SALEM	Chemawa, BPA 57kV	57	Sustained	12/17/2025 1:01:02 AM	12/17/2025 3:08:52 PM	14h 7m 50s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
SALEM	Chemawa, BPA 57kV	57	Momentary	12/17/2025 1:01:30 AM	12/17/2025 1:01:57 AM	27s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
DAYTON	Sheridan 57kV	57	Sustained	12/17/2025 1:02:17 AM	12/19/2025 12:19:29 AM	1d 23h 17m 12s	Yes	Weather / Environment	Vegetation	Tree Failure	Weather / Environment	Natural Causes	High Winds
MT ANGEL	Silverton 57kV	57	Sustained	12/17/2025 1:06:22 AM	12/17/2025 5:21:36 AM	4h 15m 14s	Yes	Equipment Failure	Line Equipment	Pole / Structure	Weather / Environment	Natural Causes	High Winds
BETHEL	Market 115kV	115	Sustained	12/17/2025 1:08:21 AM	12/17/2025 1:48:51 PM	12h 40m 30s	Yes	Weather / Environment	Other	Unknown	Weather / Environment	Natural Causes	High Winds

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
BETHEL	Round Butte 230kV	230	Sustained	12/17/2025 1:09:44 AM	12/21/2025 10:30:35 PM	4d 21h 20m 51s	Yes	Weather / Environment	Vegetation	Unknown	Weather / Environment	Natural Causes	High Winds
MEMORIAL	Sherwood 115kV	115	Sustained	12/17/2025 1:10:03 AM	12/17/2025 3:12:45 PM	14h 2m 42s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
CORNELIUS	Yamhill 57kV	57	Sustained	12/17/2025 1:11:17 AM	12/17/2025 8:02:40 AM	6h 51m 23s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
SHERWOOD	Springbrook 115kV	115	Sustained	12/17/2025 1:12:14 AM	12/17/2025 11:02:18 AM	9h 50m 4s	Yes	General	Other	Under / Overbuild	Weather / Environment	Natural Causes	High Winds
BETHEL	Silverton 57kV	57	Sustained	12/17/2025 1:14:04 AM	12/17/2025 7:58:46 PM	18h 44m 42s	Yes	Equipment Failure	Line Equipment	Pole / Structure	Weather / Environment	Natural Causes	High Winds
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	12/17/2025 1:18:41 AM	12/17/2025 1:19:11 AM	30s	Yes	General	Other	Unknown	General	Other	Unknown
BRIGHTWOOD	Rhododendron 57kV	57	Momentary	12/17/2025 1:28:36 AM	12/17/2025 1:29:06 AM	30s	Yes	General	Other	Unknown	General	Other	Unknown
LELAND	Molalla 57kV	57	Sustained	12/17/2025 1:31:13 AM	12/18/2025 2:39:19 PM	1d 13h 8m 6s	Yes	Weather / Environment	Natural Causes	High Winds	Weather / Environment	Natural Causes	High Winds
BRIGHTWOOD	Rhododendron 57kV	57	Sustained	12/17/2025 1:31:36 AM	12/21/2025 7:12:56 PM	4d 17h 41m 20s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
DUNNS CORNER	Welches 57kV	57	Sustained	12/17/2025 1:31:59 AM	12/18/2025 9:44:56 AM	1d 8h 12m 57s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
BORING	Faraday 57kV	57	Sustained	12/17/2025 1:33:57 AM	12/18/2025 10:16:03 AM	1d 8h 42m 6s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
BORING	River Mill 57kV	57	Sustained	12/17/2025 1:33:57 AM	12/17/2025 12:25:37 PM	10h 51m 40s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
BORING	Hogan South-Lents 57kV	57	Sustained	12/17/2025 1:41:29 AM	12/17/2025 9:54:15 PM	20h 12m 46s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
FARADAY SWYD	Molalla 57kV	57	Momentary	12/17/2025 1:48:55 AM	12/17/2025 1:49:32 AM	37s	Yes	General	Other	Unknown	Weather / Environment	Natural Causes	High Winds
OAK GROVE PLANT	Lake Harriet (Stone Creek) 115kV	115	Sustained	12/17/2025 2:05:05 AM	12/20/2025 11:11:12 AM	3d 9h 6m 7s	Yes	General	External Entity	Other	General	External Entity	Other
GRAND RONDE	Boyer, PACW 115kV	115	Sustained	12/18/2025 3:10:05 PM	12/18/2025 4:23:36 PM	1h 13m 31s	No	General	Other	Unknown	General	Other	Unknown
BETHEL	Silverton 57kV	57	Momentary	12/18/2025 4:23:24 PM	12/18/2025 4:23:29 PM	5s	No	General	Other	Unknown	General	Other	Unknown
BETHEL	Silverton 57kV	57	Sustained	12/18/2025 4:24:50 PM	12/19/2025 2:44:08 PM	22h 19m 18s	No	General	Other	Unknown	General	Other	Unknown

Station Name	Position	Voltage (kV)	Outage Type	Disturbance Date/Time	Restore Date/Time	Duration	Storm Exclusion	Initiating Event			Disturbance Causes		
FARADAY SWYD	Molalla 57kV	57	Sustained	12/18/2025 5:00:47 PM	12/20/2025 2:02:34 PM	1d 21h 1m 47s	No	General	Other	Unknown	General	Other	Unknown
LIBERTY	Salem, BPA 115kV	115	Momentary	12/20/2025 1:24:04 AM	12/20/2025 1:24:19 AM	15s	No	General	Other	Unknown	General	Other	Unknown
BORING	Hogan South-Lents 57kV	57	Momentary	12/29/2025 12:24:04 AM	12/29/2025 12:24:10 AM	6s	No	Equipment Failure	Line Equipment	OH Wire/Cable	Equipment Failure	Line Equipment	OH Wire/Cable
BORING	Hogan South-Lents 57kV	57	Momentary	12/29/2025 12:24:23 AM	12/29/2025 12:24:29 AM	6s	No	Equipment Failure	Line Equipment	OH Wire/Cable	Equipment Failure	Line Equipment	OH Wire/Cable
BORING	Hogan South-Lents 57kV	57	Momentary	12/29/2025 12:24:54 AM	12/29/2025 4:04:52 PM	15h 39m 58s	No	Equipment Failure	Line Equipment	OH Wire/Cable	Equipment Failure	Line Equipment	OH Wire/Cable
BORING	Dunns Corner 57kV	57	Momentary	12/29/2025 12:25:00 AM	12/29/2025 12:25:15 AM	15s	No	Equipment Failure	Line Equipment	OH Wire/Cable	General	Other	Power System Condition

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8 Improvement Projects and Programs

This section summarizes several of the major reliability improvement efforts PGE is currently undertaking or planning to complete within a five-year horizon.[15] The information is grouped by distribution or transmission depending on which system most of the project/program scope will be applied. The following projects and programs are all multimillion-dollar efforts aimed at maintaining and/or improving reliability for PGE's customers. PGE's wildfire mitigation projects and programs result in significant reliability improvements in addition to mitigating wildfire risk and are outlined in detail in PGE's 2026–2028 Wildfire Mitigation Plan.[16]. Projects and programs in this section are outside targeted wildfire mitigation efforts that improve reliability of PGE's system.

8.1 Major Distribution Projects/Programs

- **Distribution Automation:** PGE continues to enhance and modernize the distribution system through Fault Location, Isolation, and Service Restoration (FLISR) deployments. FLISR implementation involves installing automatable, SCADA-integrated switching devices on PGE's distribution circuits—a foundational reliability component of the grid of the future. When integrated with PGE's Advanced Distribution Management System (ADMS), the advanced FLISR application monitors system conditions and autonomously performs switching operations in the event of a sustained fault.

  Working together, ADMS and FLISR reduce the frequency and duration of sustained interruptions for PGE customers. This capability is especially valuable during large-scale events that can disrupt power across wide service areas. During major events, operators can become overwhelmed by the volume of switching operations, resulting in longer interruption event response times. ADMS and FLISR measurably improve PGE's event response time, enhancing overall electrical grid resiliency.

  To date, PGE has deployed modern switching devices across more than 26% of its circuits and activated the 55 circuits in the ADMS-FLISR advanced application. By 2030, PGE plans to expand modern switching device deployments to over 40% of its circuits while continuing to enable FLISR implementations within the ADMS, where feasible.

- **Live Front Switch Replacement Program:** This program aims to replace live front switches, which have exposed electrical components, with dead front switches, which have no exposed electrical components. These replacements offer two key benefits: enhanced reliability through a reduction in outages caused by animal intrusions as well as reducing risk associated with known material defects, and an improved safety environment for

[15] PGE's budgets are fixed each year, and many factors could cause a reprioritization of work identified, often on a year-to-year basis. The projects captured represent part of a body of work that PGE has identified for the coming years. Changes in our local environment will dictate the timing and duration over which that work is completed and whether the identified projects are displaced by other projects of higher priority.

[16] For more information related to PGE's Wildfire Safety program and Wildfire Mitigation Plan, go to https://portlandgeneral.com/outages-safety/safety/wildfire-safety

workers. At the program's inception, there were 603 live front switches identified for replacement. In 2026, the program is targeting the replacement of 37 switches, with approximately 40 switches scheduled for replacement in each subsequent year.

- **Lead Cable Replacement Program:** This multi-year program focuses on replacing aging 12.47 kV paper-insulated lead-covered (PILC) cables with modern ethylene propylene rubber (EPR) cables throughout the downtown Portland Core. PILC cable faults pose a significant risk, potentially causing major service outages to the downtown network. The program is targeting replacement of approximately 13,000 feet of cable in 2026, with the remaining ~1,200 feet scheduled for completion in 2027, marking the full conclusion of the program.
- **DPU Relay Replacement Program:** This multi-year program proactively replaces DPU relays, a specific type of substation protection relay with higher-than-normal failure rates. The proactive nature of the program results in avoided outages and improved reliability for customers. The program has replaced over 40 relays at 30 different substations to date. One DPU relay is scheduled for replacement in 2026, and PGE is targeting six more across four substations in 2027.

8.2 Major Transmission Projects

- **Grand Ronde 115/57 kV transformer replacement project**: This project replaces an aging (70-year-old) transformer at PGE's Grand Ronde substation. The new transformer will be a modern unit that is standardized with PGE's existing spare transformer fleet. It will provide more than triple the MVA capacity of the existing unit. The new transformer will allow for better voltage regulation of the 57 kV system and increased system flexibility.
- **South Milliken Project:** This multi-year project targets the replacement of 18 miles of existing, aged lattice transmission towers between PGE's Faraday and Boring substations as well as between Boring substation and Hogan Road in East Multnomah County. The project also inspects existing lattice structures and replacements as needed between Hogan Road and PGE's Stephens substation.

  The condition of the existing, aged lattice structures presents both reliability and safety concerns and looks to proactively replace these structures before failure. The rebuild of the 18-mile section of the circuit will ensure maintained reliability and allow for a future upgrade from 57 kV to 115 kV without any additional changes to the replaced sections of the circuit.
- **Monitor Substation Project:** This project will rebuild Monitor substation with 230 kV, 115 kV, and 57 kV ring buses and will accommodate future 57 kV to 115 kV conversion. A new 230/115 kV bulk power transformer will be installed, along with a new 115/57 kV transformer. A 115 kV capacitor bank will be installed for voltage support.

This project is part of a multi-phase effort known as the Willamette Valley Resiliency Project, which involves substation, transmission, and distribution system reconfiguration and asset replacements. The scope of the project includes multiple transmission lines and substations across northwestern Marion County. The design and construction of the Willamette Valley Resiliency Project will occur over the next five years and will maintain and/or support improved customer reliability, resiliency, and load growth in the area.

9 Distribution Circuit Information

Table 31, Table 32, and Table 33 provide details and reliability performance information by operating areas regarding PGE's 712 distribution circuits.

Eastern Operating Area

Table 31. Reliability Performance for PGE's Eastern Operating Area

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
ABERNETHY	6105013	ABERNETHY-CLACKAMAS HEIGHTS	7.2/12.5 kV Grounded Y	[redacted]	568	64,977	121	1.056	2	568	64,977	121	1.056	3
ABERNETHY	6105023	ABERNETHY-OREGON CITY	7.2/12.5 kV Grounded Y	[redacted]	51	12,574	6	0.023	2	353	242,409	108	0.158	3
ABERNETHY	6105033	ABERNETHY-TRANSIT	7.2/12.5 kV Grounded Y	[redacted]	401	41,052	28	0.278	2	401	41,052	28	0.278	3
ABERNETHY	6105043	ABERNETHY-WASHINGTON	7.2/12.5 kV Grounded Y	[redacted]	2,651	325,118	186	1.517	7	2,740	372,761	213	1.568	8
ALDER	1118013	ALDER-ANKENY	7.2/12.5 kV Grounded Y	[redacted]	393	103,450	29	0.111	–	393	103,450	29	0.111	–
ALDER	1118053	ALDER-IRVING	7.2/12.5 kV Grounded Y	[redacted]	5,111	592,637	132	1.143	–	5,413	773,837	173	1.210	–
ALDER	1118043	ALDER-LINCOLN	7.2/12.5 kV Grounded Y	[redacted]	519	71,913	45	0.324	–	519	71,913	45	0.324	–
ALDER	1118033	ALDER-STARK	7.2/12.5 kV Grounded Y	[redacted]	576	70,302	23	0.184	1	576	70,302	23	0.184	1
ALDER	1118063	ALDER-TAYLOR	7.2/12.5 kV Grounded Y	[redacted]	1,677	199,641	37	0.309	3	1,678	200,152	37	0.309	3
ALDER	1118073	ALDER-YAMHILL	7.2/12.5 kV Grounded Y	[redacted]	267	25,680	27	0.280	–	267	25,680	27	0.280	–
ARLETA	1125013	ARLETA-52ND	7.2/12.5 kV Grounded Y	[redacted]	4,688	765,117	210	1.289	–	4,698	773,064	212	1.291	–
ARLETA	1125033	ARLETA-FOSTER	7.2/12.5 kV Grounded Y	[redacted]	3,358	457,751	215	1.579	5	3,358	457,751	215	1.579	5

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
ARLETA	1125023	ARLETA-HAROLD	7.2/12.5 kV Grounded Y	[redacted]	4,183	661,081	187	1.185	1	4,185	661,188	187	1.186	1
ARLETA	1125043	ARLETA-POWELL	7.2/12.5 kV Grounded Y	[redacted]	818	100,864	30	0.240	–	836	101,332	30	0.245	–
ARLETA	1125053	ARLETA-STEELE	7.2/12.5 kV Grounded Y	[redacted]	5,749	719,477	199	1.589	2	8,433	1,330,857	368	2.331	2
BELL	1155073	BELL-BATTIN	7.2/12.5 kV Grounded Y	[redacted]	1,830	271,896	211	1.422	2	1,830	271,896	211	1.422	2
BELL	1155083	BELL-BRENTWOOD	7.2/12.5 kV Grounded Y	[redacted]	100	14,232	36	0.253	–	100	14,232	36	0.253	–
BELL	1155023	BELL-FLAVEL	7.2/12.5 kV Grounded Y	[redacted]	242	33,591	12	0.090	3	243	34,195	13	0.090	3
BELL	1155013	BELL-JOHNSON CREEK	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
BELL	1155053	BELL-KENDALL	7.2/12.5 kV Grounded Y	[redacted]	153	20,531	13	0.095	-	153	20,531	13	0.095	–
BELL	1155063	BELL-KING	7.2/12.5 kV Grounded Y	[redacted]	1,141	146,324	66	0.511	2	1,391	212,392	95	0.623	2
BELL	1155043	BELL-SOUTHGATE	7.2/12.5 kV Grounded Y	[redacted]	931	206,269	85	0.383	6	937	209,835	86	0.386	6
BELL	1155033	BELL-WICHITA	7.2/12.5 kV Grounded Y	[redacted]	2,182	232,076	110	1.031	1	2,191	239,338	113	1.035	1
BLUE LAKE	5156013	BLUE LAKE-BLUE LAKE 13	7.2/12.5 kV Grounded Y	[redacted]	441	94,151	39	0.183	1	441	94,151	39	0.183	1
BLUE LAKE	5156033	BLUE LAKE-SUNDIAL	7.2/12.5 kV Grounded Y	[redacted]	116	38,052	73	0.223	–	116	38,052	73	0.223	–
BLUE LAKE	5156023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
BORING	5177033	BORING-282ND	7.2/12.5 kV Grounded Y	[redacted]	846	87,183	55	0.530	–	2,548	327,794	205	1.595	–
BORING	5177023	BORING-CITY	7.2/12.5 kV Grounded Y	[redacted]	163	27,139	19	0.114	–	1,869	414,761	291	1.310	–
BORING	5177013	BORING-TELFORD	7.2/12.5 kV Grounded Y	[redacted]	247	40,528	33	0.199	–	346	100,149	81	0.279	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
BRIGHTWOOD	5174013	BRIGHTWOOD-BRIGHTWOOD 13	7.2/12.5 kV Grounded Y	[redacted]	2,510	480,574	465	2.430	–	4,773	2,972,227	2,877	4.621	1
BRIGHTWOOD	5174023	BRIGHTWOOD-NORTH BANK	7.2/12.5 kV Grounded Y	[redacted]	2,425	858,679	1,010	2.853	4	3,734	2,981,670	3,508	4.393	6
CANYON	1196113	CANYON-13114 NETWORK #1	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196123	CANYON-13115 NETWORK #1	7.2/12.5 kV Grounded Y	[redacted]	21	13,287	369	0.583	–	21	13,287	369	0.583	–
CANYON	1196133	CANYON-13116 NETWORK #1	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196143	CANYON-13117 NETWORK #1	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196153	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	1	182	0	0.002	–	1	182	0	0.002	–
CANYON	1196163	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196043	CANYON-13120	7.2/12.5 kV Grounded Y	[redacted]	3	1,037	1	0.002	–	3	1,037	1	0.002	–
CANYON	1196453	CANYON-13121	7.2/12.5 kV Grounded Y	[redacted]	5	1,179	91	0.385	–	5	1,179	91	0.385	–
CANYON	1196063	CANYON-13122 NETWORK #2	7.2/12.5 kV Grounded Y	[redacted]	6	1,878	6	0.019	–	6	1,878	6	0.019	–
CANYON	1196073	CANYON-13123 NETWORK #2	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196083	CANYON-13124 NETWORK #2	7.2/12.5 kV Grounded Y	[redacted]	1	251	1	0.005	–	1	251	1	0.005	–
CANYON	1196093	CANYON-13125 NETWORK #2	7.2/12.5 kV Grounded Y	[redacted]	45	2,400	7	0.139	–	45	2,400	7	0.139	–
CANYON	1196173	CANYON-13133 NETWORK #3	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196183	CANYON-13134 NETWORK #3	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196193	CANYON-13135 NETWORK #3	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
CANYON	1196203	CANYON-13136 NETWORK #3	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANYON	1196023	CANYON-21ST	7.2/12.5 kV Grounded Y	[redacted]	550	151,343	52	0.188	–	550	151,343	52	0.188	–
CANYON	1196103	CANYON-23RD	7.2/12.5 kV Grounded Y	[redacted]	3,433	1,300,935	415	1.094	1	5,552	2,001,833	638	1.769	3
CANYON	1196033	CANYON-BURNSIDE	7.2/12.5 kV Grounded Y	[redacted]	5,520	668,649	166	1.370	1	5,520	668,649	166	1.370	1
CANYON	1196013	CANYON-CANYON 13	7.2/12.5 kV Grounded Y	[redacted]	3,886	519,508	333	2.493	–	3,907	527,985	339	2.506	1
CARVER	5198033	CARVER-ALMOND	7.2/12.5 kV Grounded Y	[redacted]	9	1,490	1	0.005	–	9	1,490	1	0.005	–
CARVER	5198013	CARVER-CARVER 13	7.2/12.5 kV Grounded Y	[redacted]	2,294	183,038	79	0.994	1	4,689	612,905	266	2.032	1
CARVER	5198053	CARVER-NORTH	7.2/12.5 kV Grounded Y	[redacted]	8	1,827	1	0.003	–	8	1,827	1	0.003	–
CARVER	5198023	CARVER-RIVERBEND	7.2/12.5 kV Grounded Y	[redacted]	14	1,502	16	0.152	–	14	1,502	16	0.152	–
CARVER	5198063	CARVER-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	1	5	0	0.050	–	1	5	0	0.050	–
CARVER	5198043	CARVER-WOODS	7.2/12.5 kV Grounded Y	[redacted]	815	162,542	48	0.241	1	1,723	424,188	125	0.510	2
CENTENNIAL	5202053	CENTENNIAL-BARKER	7.2/12.5 kV Grounded Y	[redacted]	1,042	139,332	48	0.358	1	1,122	180,762	62	0.385	1
CENTENNIAL	5202043	CENTENNIAL-BRAECROFT	7.2/12.5 kV Grounded Y	[redacted]	532	83,861	41	0.258	–	533	84,441	41	0.259	–
CENTENNIAL	5202033	CENTENNIAL-CENTENNIAL 13	7.2/12.5 kV Grounded Y	[redacted]	427	107,707	39	0.155	–	450	136,612	50	0.164	–
CENTENNIAL	5202063	CENTENNIAL-TREELAND	7.2/12.5 kV Grounded Y	[redacted]	1,096	106,332	34	0.352	–	1,125	124,795	40	0.361	–
CLACKAMAS	6205023	CLACKAMAS-EVELYN	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	6	3,076	12	0.024	2
CLACKAMAS	6205013	CLACKAMAS-GLADSTONE	7.2/12.5 kV Grounded Y	[redacted]	367	76,230	34	0.163	1	563	188,644	84	0.250	1

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
CLACKAMAS	6205033	CLACKAMAS-JENNIFER	7.2/12.5 kV Grounded Y	[redacted]	203	39,269	49	0.251	–	330	106,205	131	0.408	–
CLACKAMAS	6205043	CLACKAMAS-TOLBERT	7.2/12.5 kV Grounded Y	[redacted]	1,683	258,569	170	1.109	–	1,684	259,316	171	1.110	–
CURTIS	1212012	CURTIS-11077	6.48/11.1 kV Grounded Y	[redacted]	297	60,438	229	1.125	1	297	60,438	229	1.125	1
CURTIS	1212013	CURTIS-CURTIS 13	7.2/12.5 kV Grounded Y	[redacted]	103	6,851	3	0.046	1	103	6,851	3	0.046	1
DELAWARE	1221013	DELAWARE-DENVER	7.2/12.5 kV Grounded Y	[redacted]	156	17,568	7	0.063	–	157	17,797	7	0.064	–
DELAWARE	1221023	DELAWARE-INTERSTATE	7.2/12.5 kV Grounded Y	[redacted]	46	4,843	3	0.032	–	64	11,300	8	0.044	1
DELAWARE	1221033	DELAWARE-LOMBARD	7.2/12.5 kV Grounded Y	[redacted]	313	38,710	11	0.086	–	316	38,808	11	0.087	–
DUNNS CORNER	5218013	DUNNS CORNER-DUNNS CORNER 13	7.2/12.5 kV Grounded Y	[redacted]	1,220	236,560	153	0.791	–	2,793	1,536,482	996	1.810	–
DUNNS CORNER	5218023	DUNNS CORNER-KELSO	7.2/12.5 kV Grounded Y	[redacted]	51	5,378	15	0.146	1	58	23,682	68	0.166	1
E	1225012	E-11021	6.48/11.1 kV Grounded Y	[redacted]	25	2,625	109	1.042	–	25	2,625	109	1.042	–
E	1225022	E-11039	6.48/11.1 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
E	1225032	E-11040	6.48/11.1 kV Grounded Y	[redacted]	9	2,666	13	0.044	–	9	2,666	13	0.044	-
E	1225042	E-11041	6.48/11.1 kV Grounded Y	[redacted]	1	107	1	0.006	1	1	107	1	0.006	1
E	1225052	E-11042	6.48/11.1 kV Grounded Y	[redacted]	2	35	17	1.000	–	2	35	17	1.000	–
E	1225062	E-11043	6.48/11.1 kV Grounded Y	[redacted]	8	2,977	56	0.151	2	8	2,977	56	0.151	2
E	1225112	E-11047	6.48/11.1 kV Grounded Y	[redacted]	19	4,721	31	0.126	–	19	4,721	31	0.126	–
E	1225122	E-11064	6.48/11.1 kV Grounded Y	[redacted]	4	133	7	0.200	–	4	133	7	0.200	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
E	1225013	E-13139	7.2/12.5 kV Grounded Y	[redacted]	294	17,854	7	0.122	4	294	17,854	7	0.122	5
E	1225023	E-13140	7.2/12.5 kV Grounded Y	[redacted]	40	5,599	2	0.014	1	40	5,599	2	0.014	1
E	1225033	E-13141	7.2/12.5 kV Grounded Y	[redacted]	9	2,644	1	0.003	–	9	2,644	1	0.003	–
E	1225093	E-13142	7.2/12.5 kV Grounded Y	[redacted]	4	415	0	0.001	–	4	415	0	0.001	–
E	1225083	E-13144	7.2/12.5 kV Grounded Y	[redacted]	1,145	280,276	99	0.404	–	1,146	280,558	99	0.404	–
E	1225043	E-13145	7.2/12.5 kV Grounded Y	[redacted]	124	11,417	9	0.096	–	124	11,417	9	0.096	–
E	1225053	E-13148	7.2/12.5 kV Grounded Y	[redacted]	1	28	0	0.001	–	1	28	0	0.001	–
E	1225063	E-13149	7.2/12.5 kV Grounded Y	[redacted]	1	7	0	0.001	–	1	7	0	0.001	–
E	1225073	E-13150	7.2/12.5 kV Grounded Y	[redacted]	412	29,608	13	0.181	–	412	29,608	13	0.181	–
EAGLE CREEK	5230013	EAGLE CREEK-BARTON	7.2/12.5 kV Grounded Y	[redacted]	933	168,230	198	1.096	–	3,812	1,134,633	1,333	4.479	–
EAGLE CREEK	5230023	EAGLE CREEK-RIVER MILL	7.2/12.5 kV Grounded Y	[redacted]	1,606	242,564	242	1.604	–	5,238	1,188,736	1,188	5.233	–
EASTPORT	1231023	EASTPORT-76TH	7.2/12.5 kV Grounded Y	[redacted]	439	47,345	14	0.130	3	439	47,345	14	0.130	3
EASTPORT	1231013	EASTPORT-PLAZA	7.2/12.5 kV Grounded Y	[redacted]	220	29,896	18	0.131	–	265	42,142	25	0.157	–
ESTACADA	5237023	ESTACADA-ESTACADA 13	7.2/12.5 kV Grounded Y	[redacted]	2,323	258,379	168	1.510	2	5,162	1,402,605	912	3.356	2
ESTACADA	5237013	ESTACADA-FARADAY	7.2/12.5 kV Grounded Y	[redacted]	3,326	726,084	238	1.092	1	7,560	4,062,520	1,334	2.483	1
ESTACADA	5237033	ESTACADA-NORTH FORK	7.2/12.5 kV Grounded Y	[redacted]	3,618	660,743	372	2.035	1	8,571	3,319,788	1,867	4.821	3
FAIRVIEW	5251033	FAIRVIEW-CLEAR CREEK	7.2/12.5 kV Grounded Y	[redacted]	1	256	1	0.003	–	1	256	1	0.003	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
FAIRVIEW	5251053	FAIRVIEW-FAIRVIEW 13	7.2/12.5 kV Grounded Y	[redacted]	811	96,231	45	0.377	–	811	96,231	45	0.377	–
FAIRVIEW	5251013	FAIRVIEW-KENNEL CLUB	7.2/12.5 kV Grounded Y	[redacted]	199	50,425	43	0.170	–	222	56,234	48	0.189	–
FAIRVIEW	5251043	FAIRVIEW-TROUTDALE	7.2/12.5 kV Grounded Y	[redacted]	412	72,530	22	0.125	–	412	72,530	22	0.125	–
FAIRVIEW	5251023	FAIRVIEW-WOOD VILLAGE	7.2/12.5 kV Grounded Y	[redacted]	31	2,294	3	0.034	–	31	2,294	3	0.034	–
GLENCOE	1277013	GLENCOE-GLISAN	7.2/12.5 kV Grounded Y	[redacted]	467	66,248	19	0.133	2	468	66,277	19	0.133	2
GLENCOE	1277023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	26	3,536	10	0.073	–	26	3,536	10	0.073	–
GLENCOE	1277033	GLENCOE-SUNNYSIDE	7.2/12.5 kV Grounded Y	[redacted]	586	49,298	16	0.190	–	586	49,298	16	0.190	–
GLENCULLEN	1278013	GLENCULLEN-BRIDLEMILE	7.2/12.5 kV Grounded Y	[redacted]	3,669	455,517	188	1.511	1	3,807	520,216	214	1.568	2
GLENCULLEN	1278023	GLENCULLEN-SUNSET	7.2/12.5 kV Grounded Y	[redacted]	1,143	283,245	114	0.458	1	1,192	354,305	142	0.478	2
GLENDOVEER	5280013	GLENDOVEER-13596	7.2/12.5 kV Grounded Y	[redacted]	119	19,897	22	0.133	–	203	49,815	56	0.227	–
GLENDOVEER	5280023	GLENDOVEER-13597	7.2/12.5 kV Grounded Y	[redacted]	166	32,540	22	0.110	–	166	32,540	22	0.110	–
GLENDOVEER	5280033	GLENDOVEER-13598	7.2/12.5 kV Grounded Y	[redacted]	227	51,359	20	0.089	1	330	75,795	30	0.130	1
GLENDOVEER	5280043	GLENDOVEER-13599	7.2/12.5 kV Grounded Y	[redacted]	128	12,420	6	0.057	–	129	12,637	6	0.058	–
GLENDOVEER	5280053	GLENDOVEER-CLIFFGATE	7.2/12.5 kV Grounded Y	[redacted]	388	33,769	16	0.187	–	438	88,488	43	0.211	–
GLENDOVEER	5280063	GLENDOVEER-NORTHEAST	7.2/12.5 kV Grounded Y	[redacted]	378	231,662	144	0.234	–	378	231,662	144	0.234	–
[redacted]	5260013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
[redacted]	5260093	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260083	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	5260073	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HARBORTON	1310023	HARBORTON-BURLINGTON	7.2/12.5 kV Grounded Y	[redacted]	2,855	651,457	465	2.038	–	3,833	1,408,015	1,005	2.736	1
HARBORTON	1310013	HARBORTON-HARBORTON 13	7.2/12.5 kV Grounded Y	[redacted]	15	885	80	1.364	–	15	885	80	1.364	–
HARBORTON	1310033	HARBORTON-LINNTON	7.2/12.5 kV Grounded Y	[redacted]	73	50,078	124	0.180	–	119	75,570	187	0.294	–
HARMONY	1313013	HARMONY-HARMONY 13	7.2/12.5 kV Grounded Y	[redacted]	652	73,359	44	0.395	–	867	203,235	123	0.526	–
HARMONY	1313053	HARMONY-INTERNATIONAL	7.2/12.5 kV Grounded Y	[redacted]	557	54,453	54	0.548	–	589	75,263	74	0.580	–
HARMONY	6313033	HARMONY-LAKE	7.2/12.5 kV Grounded Y	[redacted]	1	28	0	0.001	–	1	28	0	0.001	–
HARMONY	1313033	HARMONY-LINWOOD	7.2/12.5 kV Grounded Y	[redacted]	528	140,557	61	0.229	3	528	140,557	61	0.229	3
HARMONY	1313023	HARMONY-MILWAUKIE	7.2/12.5 kV Grounded Y	[redacted]	259	105,162	57	0.142	1	2,099	976,301	533	1.147	1
HARMONY	1313043	HARMONY-THIESSEN	7.2/12.5 kV Grounded Y	[redacted]	242	36,817	38	0.251	5	242	36,817	38	0.251	5
HARRISON	1312043	HARRISON-DAVIS	7.2/12.5 kV Grounded Y	[redacted]	181	29,469	14	0.084	–	182	29,480	14	0.085	–
HARRISON	1312053	HARRISON-HARRISON 13	7.2/12.5 kV Grounded Y	[redacted]	2,508	282,520	125	1.112	1	2,508	282,520	125	1.112	1

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HARRISON	1312013	HARRISON-IVON	7.2/12.5 kV Grounded Y	[redacted]	232	27,281	23	0.192	1	248	38,117	32	0.206	1
HARRISON	8003112	TEMP H-NEPTUNE	6.48/11.1 kV Grounded Y	[redacted]	283	35,726	38	0.301	1	283	35,726	38	0.301	1
HARRISON	8003122	TEMP H-SATURN	6.48/11.1 kV Grounded Y	[redacted]	1	40	1	0.013	–	1	40	1	0.013	–
HAYDEN ISLAND	1316033	HAYDEN ISLAND-MAINLAND	7.2/12.5 kV Grounded Y	[redacted]	20	1,658	10	0.120	–	20	1,658	10	0.120	1
HAYDEN ISLAND	1316013	HAYDEN ISLAND-NORTH SHORE	7.2/12.5 kV Grounded Y	[redacted]	575	98,928	35	0.204	–	617	147,955	53	0.219	–
HAYDEN ISLAND	1316023	HAYDEN ISLAND-SOUTH SHORE	7.2/12.5 kV Grounded Y	[redacted]	23	969	2	0.044	–	23	969	2	0.044	–
HEMLOCK	5317023	HEMLOCK-FREMONT	7.2/12.5 kV Grounded Y	[redacted]	114	16,563	7	0.050	–	1,601	174,194	77	0.707	–
HEMLOCK	5317013	HEMLOCK-HEMLOCK 13	7.2/12.5 kV Grounded Y	[redacted]	237	25,468	12	0.116	–	237	25,468	12	0.116	–
HEMLOCK	5317033	HEMLOCK-MASON	7.2/12.5 kV Grounded Y	[redacted]	69	23,326	34	0.100	–	69	23,326	34	0.100	–
HOGAN NORTH	5323023	HOGAN NORTH-BRIGADOON	7.2/12.5 kV Grounded Y	[redacted]	201	51,142	18	0.071	–	201	51,142	18	0.071	–
HOGAN NORTH	5323043	HOGAN NORTH-HOGAN NORTH 13	7.2/12.5 kV Grounded Y	[redacted]	3,697	478,947	163	1.257	1	6,764	837,844	285	2.300	1
HOGAN NORTH	5323033	HOGAN NORTH-LINKS	7.2/12.5 kV Grounded Y	[redacted]	6,941	1,176,246	342	2.016	–	7,064	1,246,474	362	2.052	–
HOGAN NORTH	5323013	HOGAN NORTH-SALQUIST	7.2/12.5 kV Grounded Y	[redacted]	258	26,244	9	0.088	1	258	26,244	9	0.088	1
HOGAN SOUTH	5324013	HOGAN SOUTH-CLEVELAND	7.2/12.5 kV Grounded Y	[redacted]	273	32,098	14	0.123	1	273	32,098	14	0.123	1
HOGAN SOUTH	5324023	HOGAN SOUTH-LAWRENCE	7.2/12.5 kV Grounded Y	[redacted]	10,788	860,074	207	2.593	–	15,180	1,519,859	365	3.649	–
HOGAN SOUTH	5324033	HOGAN SOUTH-MAIN	7.2/12.5 kV Grounded Y	[redacted]	1,762	227,256	153	1.190	–	1,762	227,256	153	1.190	–
HOGAN SOUTH	5324043	HOGAN SOUTH-PAROPA	7.2/12.5 kV Grounded Y	[redacted]	3,238	216,362	72	1.081	–	3,239	216,413	72	1.081	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
HOGAN SOUTH	5324053	HOGAN SOUTH-WALLULA	7.2/12.5 kV Grounded Y	[redacted]	6,896	820,009	258	2.171	–	6,900	820,492	258	2.172	–
HOLGATE	1325043	HOLGATE-BYBEE	7.2/12.5 kV Grounded Y	[redacted]	678	82,305	32	0.262	–	691	113,816	44	0.267	–
HOLGATE	1325013	HOLGATE-GIDEON	7.2/12.5 kV Grounded Y	[redacted]	1,665	243,010	206	1.411	1	1,665	243,010	206	1.411	1
HOLGATE	1325033	HOLGATE-HOLGATE 13	7.2/12.5 kV Grounded Y	[redacted]	1,166	180,742	48	0.311	3	1,170	181,738	48	0.312	3
HOLGATE	1325053	HOLGATE-KENILWORTH	7.2/12.5 kV Grounded Y	[redacted]	2,617	928,876	426	1.200	1	2,631	931,998	428	1.207	1
HOLGATE	1325023	HOLGATE-RHONE	7.2/12.5 kV Grounded Y	[redacted]	96	7,704	4	0.046	1	96	7,704	4	0.046	1
ISLAND	1345033	ISLAND-13180	7.2/12.5 kV Grounded Y	[redacted]	4,687	249,753	120	2.257	1	4,719	268,746	129	2.272	2
ISLAND	1345023	ISLAND-13187	7.2/12.5 kV Grounded Y	[redacted]	9,955	787,317	251	3.174	2	10,298	1,149,003	366	3.284	3
ISLAND	1345013	ISLAND-13188	7.2/12.5 kV Grounded Y	[redacted]	8,142	806,005	294	2.966	1	8,147	807,535	294	2.968	2
ISLAND	1345043	ISLAND-ISLAND 13	7.2/12.5 kV Grounded Y	[redacted]	2,702	320,881	174	1.466	2	2,987	367,643	199	1.621	3
JENNINGS LODGE	6365053	JENNINGS LODGE-ADDIE	7.2/12.5 kV Grounded Y	[redacted]	762	234,768	140	0.454	3	762	234,768	140	0.454	4
JENNINGS LODGE	6365023	JENNINGS LODGE-JENNINGS 13	7.2/12.5 kV Grounded Y	[redacted]	997	327,321	127	0.388	3	997	327,321	127	0.388	4
JENNINGS LODGE	6365033	JENNINGS LODGE-MELDRUM	7.2/12.5 kV Grounded Y	[redacted]	218	26,811	12	0.095	2	2,522	443,835	193	1.096	3
JENNINGS LODGE	6365013	JENNINGS LODGE-OAK GROVE	7.2/12.5 kV Grounded Y	[redacted]	2,364	357,580	256	1.690	2	2,364	357,580	256	1.690	3
JENNINGS LODGE	6365043	JENNINGS LODGE-WEBSTER	7.2/12.5 kV Grounded Y	[redacted]	338	43,493	21	0.167	2	338	43,493	21	0.167	3
KELLEY POINT	1367013	KELLEY POINT-KELLEY POINT 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
KELLEY POINT	1367043	KELLEY POINT-LEDBETTER	7.2/12.5 kV Grounded Y	[redacted]	1	194	6	0.033	–	1	194	6	0.033	–

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
KELLEY POINT	1367023	KELLEY POINT-MARINE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
KELLEY POINT	1367033	KELLEY POINT-SIMMONS	7.2/12.5 kV Grounded Y	[redacted]	3	33	1	0.064	–	3	33	1	0.064	–
KELLEY POINT	1367053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
KELLEY POINT	1367063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
KELLY BUTTE	1370023	KELLY BUTTE-BINNSMEAD	7.2/12.5 kV Grounded Y	[redacted]	4,744	903,435	257	1.351	–	4,877	919,613	262	1.389	–
KELLY BUTTE	1370033	KELLY BUTTE-FAIRLAWN	7.2/12.5 kV Grounded Y	[redacted]	505	81,193	60	0.372	–	505	81,193	60	0.372	–
KELLY BUTTE	1370043	KELLY BUTTE-MALL 205	7.2/12.5 kV Grounded Y	[redacted]	6,120	461,544	158	2.097	–	6,153	493,404	169	2.108	–
KELLY BUTTE	1370013	KELLY BUTTE-MCGREW	7.2/12.5 kV Grounded Y	[redacted]	691	112,152	35	0.216	2	761	170,509	53	0.238	3
LELAND	6402013	LELAND-BEAVERCREEK	7.2/12.5 kV Grounded Y	[redacted]	286	46,199	14	0.086	3	1,419	621,927	187	0.427	4
LELAND	6402023	LELAND-CARUS	7.2/12.5 kV Grounded Y	[redacted]	3,055	1,186,353	480	1.236	2	9,885	6,723,440	2,721	4.000	3
LELAND	6402033	LELAND-KELM	7.2/12.5 kV Grounded Y	[redacted]	142	46,360	24	0.075	1	142	46,360	24	0.075	1
LENTS	1405013	LENTS-13101	7.2/12.5 kV Grounded Y	[redacted]	595	73,301	28	0.227	–	604	75,162	29	0.231	–
LENTS	1405043	LENTS-HAPPY VALLEY	7.2/12.5 kV Grounded Y	[redacted]	466	60,734	16	0.124	1	475	62,159	17	0.127	1
LENTS	1405023	LENTS-MT SCOTT	7.2/12.5 kV Grounded Y	[redacted]	12	2,251	24	0.129	3	12	2,251	24	0.129	3
LENTS	1405033	LENTS-NORTH	7.2/12.5 kV Grounded Y	[redacted]	328	48,373	27	0.180	–	328	48,373	27	0.180	-
MARQUAM	1430133	MARQUAM-MCCALL #10 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MARQUAM	1430083	MARQUAM-MCCALL #11 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
MARQUAM	1430033	MARQUAM-MCCALL #12 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MARQUAM	1430183	MARQUAM-MCCALL #9 NETWORK	12.8 kV Grounded Y	[redacted]	1	206	2	0.011	–	1	206	2	0.011	–
MARQUAM	1430213	MARQUAM-MEADE	7.2/12.5 kV Grounded Y	[redacted]	2,070	455,542	325	1.478	–	2,340	578,672	413	1.670	–
MARQUAM	1430253	MARQUAM-ORANGE	7.2/12.5 kV Grounded Y	[redacted]	390	91,693	219	0.931	–	390	91,693	219	0.931	–
MARQUAM	1430263	MARQUAM-PORTER	7.2/12.5 kV Grounded Y	[redacted]	22	2,016	5	0.055	–	22	2,016	5	0.055	–
MARQUAM	1430163	MARQUAM-SPIRIT #1 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MARQUAM	1430113	MARQUAM-SPIRIT #2 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MARQUAM	1430063	MARQUAM-SPIRIT #3 NETWORK	12.8 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MARQUAM	1430013	MARQUAM-SPIRIT #4 NETWORK	12.8 kV Grounded Y	[redacted]	11	310	3	0.110	–	11	310	3	0.110	–
MARQUAM	1430303	MARQUAM-TILIKUM	7.2/12.5 kV Grounded Y	[redacted]	1	20	0	0.002	–	1	20	0	0.002	–
MCGILL	5440123	MCGILL-HORSETAIL	7.2/12.5 kV Grounded Y	[redacted]	49	5,515	4	0.035	–	51	7,498	5	0.036	–
MCGILL	5440113	MCGILL-LATOURELL	7.2/12.5 kV Grounded Y	[redacted]	251	35,162	16	0.114	–	251	35,162	16	0.114	–
MCGILL	5440023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MCGILL	5440073	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MCGILL	5440013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MCGILL	5440063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MCGILL	5440133	MCGILL-TOKETEE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
MIDWAY	5455013	MIDWAY-DIVISION	7.2/12.5 kV Grounded Y	[redacted]	595	57,808	25	0.255	3	1,226	268,605	115	0.525	3
MIDWAY	5455023	MIDWAY-DOUGLAS	7.2/12.5 kV Grounded Y	[redacted]	745	72,258	24	0.245	2	798	89,643	29	0.262	2
MIDWAY	5455033	MIDWAY-LYNCH	7.2/12.5 kV Grounded Y	[redacted]	3,212	383,812	162	1.354	–	3,531	648,379	273	1.489	–
MIDWAY	5455043	MIDWAY-POWELLHURST	7.2/12.5 kV Grounded Y	[redacted]	4,082	493,636	148	1.220	–	4,384	598,627	179	1.310	–
MT PLEASANT	6475023	MT PLEASANT-CLAIRMONT	7.2/12.5 kV Grounded Y	[redacted]	770	112,872	34	0.235	–	4,077	882,674	269	1.242	–
MT PLEASANT	6475043	MT PLEASANT-MT VIEW	7.2/12.5 kV Grounded Y	[redacted]	5,376	494,009	218	2.374	3	5,377	494,484	218	2.374	3
MT PLEASANT	6475053	MT PLEASANT-RIVERCREST	7.2/12.5 kV Grounded Y	[redacted]	786	90,946	71	0.610	–	919	297,800	231	0.714	–
MT PLEASANT	6475033	MT PLEASANT-SOUTH END	7.2/12.5 kV Grounded Y	[redacted]	3,946	417,671	118	1.113	–	4,043	509,411	144	1.141	–
MULTNOMAH	1480023	MULTNOMAH-13176	7.2/12.5 kV Grounded Y	[redacted]	1,231	206,225	71	0.425	5	1,537	255,192	88	0.531	7
MULTNOMAH	1480033	MULTNOMAH-13177	7.2/12.5 kV Grounded Y	[redacted]	689	77,354	21	0.185	2	749	126,846	34	0.201	2
MULTNOMAH	1480013	MULTNOMAH-13181	7.2/12.5 kV Grounded Y	[redacted]	815	102,375	43	0.341	1	818	103,901	43	0.342	1
MULTNOMAH	1480063	MULTNOMAH-MULTNOMAH 13	7.2/12.5 kV Grounded Y	[redacted]	578	121,561	41	0.197	2	765	277,551	95	0.261	3
NORTHERN	1495143	NORTHERN-11009	11.4kV Grounded Y	[redacted]	85	11,121	6	0.045	–	86	11,543	6	0.045	–
NORTHERN	1493163	NORTHERN-11016	11.1 kV Grounded Y	[redacted]	17	2,125	5	0.043	–	17	2,125	5	0.043	–
NORTHERN	1495153	NORTHERN-11071	11.4kV Grounded Y	[redacted]	411	44,658	20	0.180	–	411	44,658	20	0.180	–
OAK GROVE	5515033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
OAK GROVE	5515013	OAK GROVE-LAKE HARRIET	7.2/12.5 kV Grounded Y	[redacted]	293	118,820	1,335	3.292	–	293	118,820	1,335	3.292	2

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OAK GROVE	5515023	OAK GROVE-WHITE WATER	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	1514913	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ORIENT	5517023	ORIENT-BARLOW	7.2/12.5 kV Grounded Y	[redacted]	262	46,138	22	0.125	–	263	47,275	22	0.125	–
ORIENT	5517013	ORIENT-ORIENT 13	7.2/12.5 kV Grounded Y	[redacted]	225	60,166	74	0.275	2	285	195,172	239	0.348	4
ORIENT	5517033	ORIENT-OXBOW	7.2/12.5 kV Grounded Y	[redacted]	841	224,448	283	1.059	–	1,009	357,356	450	1.271	–
PELTON	9999990	PELTON-ROUND BUTTE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
PENINSULA PARK	1545021	PENINSULA PARK-OCKLEY GREEN	7.2/12.5 kV Grounded Y	[redacted]	221	31,261	7	0.047	–	222	31,432	7	0.047	–
PENINSULA PARK	1545011	PENINSULA PARK-PENINSULA PARK 13	7.2/12.5 kV Grounded Y	[redacted]	28	1,782	1	0.017	–	28	1,782	1	0.017	–
PLEASANT VALLEY	5553023	PLEASANT VALLEY-BAXTER	7.2/12.5 kV Grounded Y	[redacted]	2,419	410,375	187	1.105	2	2,429	426,443	195	1.110	2
PLEASANT VALLEY	5553053	PLEASANT VALLEY-CLATSOP	7.2/12.5 kV Grounded Y	[redacted]	56	5,884	2	0.023	–	56	5,884	2	0.023	–
PLEASANT VALLEY	5553033	PLEASANT VALLEY-MOON	7.2/12.5 kV Grounded Y	[redacted]	244	52,399	16	0.073	3	262	69,668	21	0.079	3
PLEASANT VALLEY	5553013	PLEASANT VALLEY-PLEASANT VALLEY 13	7.2/12.5 kV Grounded Y	[redacted]	3,034	544,754	306	1.702	4	3,051	545,468	306	1.711	4
PLEASANT VALLEY	5553043	PLEASANT VALLEY-SUN	7.2/12.5 kV Grounded Y	[redacted]	318	70,669	18	0.082	–	4,211	1,566,016	404	1.085	–
[redacted]	1557911	[redacted]	4.16 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
PORTSMOUTH	1558013	PORTSMOUTH-CARBIDE	7.2/12.5 kV Grounded Y	[redacted]	400	65,878	26	0.157	–	400	65,878	26	0.157	–
PORTSMOUTH	1558053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	4	720	80	0.444	–	13	3,495	388	1.444	–
PORTSMOUTH	1558033	PORTSMOUTH-WILLIS	7.2/12.5 kV Grounded Y	[redacted]	2,664	732,303	304	1.105	–	2,666	734,255	305	1.106	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
RAMAPO	5575023	RAMAPO-EMERALD	7.2/12.5 kV Grounded Y	[redacted]	282	60,075	25	0.117	–	283	61,715	26	0.117	–
RAMAPO	5575013	RAMAPO-GILBERT	7.2/12.5 kV Grounded Y	[redacted]	2,678	387,880	174	1.200	–	2,809	446,907	200	1.259	–
RAMAPO	5575033	RAMAPO-RAMAPO 13	7.2/12.5 kV Grounded Y	[redacted]	607	103,746	33	0.195	–	752	211,475	68	0.241	–
REDLAND	6581023	REDLAND-HENRICI	7.2/12.5 kV Grounded Y	[redacted]	3,126	351,902	183	1.629	–	4,655	1,845,879	962	2.426	–
REDLAND	6581013	REDLAND-REDLAND 13	7.2/12.5 kV Grounded Y	[redacted]	558	98,099	40	0.225	–	1,611	501,735	202	0.649	–
RIVERGATE SOUTH	1598012	RIVERGATE SOUTH-11010	6.66/11.4 kV Grounded Y	[redacted]	24	3,779	157	1.000	–	24	3,779	157	1.000	–
RIVERGATE SOUTH	1598022	RIVERGATE SOUTH-11011	6.66/11.4 kV Grounded Y	[redacted]	193	21,472	17	0.150	3	193	21,472	17	0.150	4
RIVERGATE SOUTH	1598023	RIVERGATE SOUTH-PEARCY	7.2/12.5 kV Grounded Y	[redacted]	45	13,984	274	0.882	1	45	13,984	274	0.882	1
RIVERGATE SOUTH	1598013	RIVERGATE SOUTH-SWIFT	7.2/12.5 kV Grounded Y	[redacted]	520	12,776	25	1.034	1	4,121	1,009,557	2,007	8.193	1
RIVERVIEW	1600033	RIVERVIEW-FULTON	7.2/12.5 kV Grounded Y	[redacted]	8,849	903,062	358	3.503	1	11,635	2,274,908	901	4.606	2
RIVERVIEW	1600023	RIVERVIEW-MACADAM	7.2/12.5 kV Grounded Y	[redacted]	6,077	1,163,211	726	3.793	1	6,077	1,163,211	726	3.793	1
RIVERVIEW	1600013	RIVERVIEW-TERWILLIGER	7.2/12.5 kV Grounded Y	[redacted]	3,611	383,617	346	3.259	–	3,617	388,757	351	3.264	–
ROCKWOOD	5602053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	1	141	47	0.333	–	1	141	47	0.333	–
ROCKWOOD	5602063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ROCKWOOD	5602023	ROCKWOOD-INDUSTRIAL	7.2/12.5 kV Grounded Y	[redacted]	4	485	3	0.027	1	4	485	3	0.027	1
ROCKWOOD	5602033	ROCKWOOD-REYNOLDS	7.2/12.5 kV Grounded Y	[redacted]	142	37,424	55	0.210	–	142	37,424	55	0.210	–
ROCKWOOD	5602013	ROCKWOOD-ROCKWOOD 13	7.2/12.5 kV Grounded Y	[redacted]	3,826	944,330	272	1.103	–	3,864	952,308	274	1.114	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
ROCKWOOD	5602043	ROCKWOOD-WILKES	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ROSEMONT	4604123	ROSEMONT-HIDDEN SPRINGS	7.2/12.5 kV Grounded Y	[redacted]	978	180,558	87	0.471	-	1,104	302,239	145	0.531	–
ROSEMONT	4604113	ROSEMONT-MOSSY BRAE	7.2/12.5 kV Grounded Y	[redacted]	321	84,913	87	0.331	1	422	177,736	183	0.435	1
ROSEMONT	4604133	ROSEMONT-OVERLOOK	7.2/12.5 kV Grounded Y	[redacted]	1,541	355,912	227	0.984	2	2,212	1,115,993	713	1.413	3
ROUND BUTTE	9999923	ROUND BUTTE-SPILLWAY	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ROUND BUTTE	9999913	ROUND BUTTE-SWITCHING STATION	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
RUBY	5620113	RUBY-CAR LINE	7.2/12.5 kV Grounded Y	[redacted]	466	86,621	29	0.156	1	466	86,621	29	0.156	1
RUBY	5620123	RUBY-JUNCTION	7.2/12.5 kV Grounded Y	[redacted]	152	19,803	5	0.038	2	161	28,428	7	0.040	2
SANDY	5640043	SANDY-362ND	7.2/12.5 kV Grounded Y	[redacted]	174	36,799	21	0.101	–	1,648	1,343,169	777	0.953	–
SANDY	5640013	SANDY-BLUFF	7.2/12.5 kV Grounded Y	[redacted]	357	31,094	19	0.215	–	357	31,094	19	0.215	–
SANDY	5640033	SANDY-SANDY 13	7.2/12.5 kV Grounded Y	[redacted]	1,062	204,073	83	0.431	2	3,399	1,235,065	501	1.378	3
SANDY	5640023	SANDY-WILDCAT	7.2/12.5 kV Grounded Y	[redacted]	1,794	255,335	79	0.556	–	4,017	1,457,580	452	1.245	–
SELLWOOD	1655013	SELLWOOD-KELLOGG PARK	7.2/12.5 kV Grounded Y	[redacted]	2,716	199,649	113	1.536	6	2,719	202,650	115	1.538	7
SELLWOOD	1655033	SELLWOOD-SELLWOOD 13	7.2/12.5 kV Grounded Y	[redacted]	887	99,857	20	0.179	–	890	101,479	20	0.179	–
SELLWOOD	1655023	SELLWOOD-WAVERLY	7.2/12.5 kV Grounded Y	[redacted]	1,558	83,346	67	1.250	–	1,558	83,346	67	1.250	–
SULLIVAN	6675013	SULLIVAN-ROBINWOOD	7.2/12.5 kV Grounded Y	[redacted]	308	36,116	17	0.148	–	338	80,367	39	0.163	–
SULLIVAN	6675053	SULLIVAN-SALAMO	7.2/12.5 kV Grounded Y	[redacted]	323	78,917	40	0.165	–	430	170,411	87	0.220	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
SULLIVAN	6675033	SULLIVAN-SUSSEX	7.2/12.5 kV Grounded Y	[redacted]	84	15,374	14	0.079	–	114	29,484	28	0.107	–
SULLIVAN	6675023	SULLIVAN-TANNER	7.2/12.5 kV Grounded Y	[redacted]	586	109,357	49	0.260	–	2,902	3,630,474	1,611	1.288	–
SULLIVAN	6675043	SULLIVAN-WILLAMETTE	7.2/12.5 kV Grounded Y	[redacted]	5,784	1,610,215	985	3.540	–	7,432	1,700,172	1,040	4.548	–
[redacted]	1676913	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	1676914	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUMMIT	5677023	SUMMIT-GOVERNMENT CAMP	7.2/12.5 kV Grounded Y	[redacted]	132	12,998	26	0.266	–	578	1,025,857	2,068	1.165	–
SUMMIT	5677013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	3	1,848	46	0.075	–	80	283,038	7,076	2.000	–
SUMMIT	5677033	SUMMIT-SUMMIT 13	7.2/12.5 kV Grounded Y	[redacted]	516	99,298	340	1.767	–	848	1,047,791	3,588	2.904	–
SWAN ISLAND	1680073	SWAN ISLAND-BASIN	7.2/12.5 kV Grounded Y	[redacted]	136	16,993	136	1.088	–	136	16,993	136	1.088	–
SWAN ISLAND	1680123	SWAN ISLAND-DOLPHIN	7.2/12.5 kV Grounded Y	[redacted]	7	1,487	16	0.074	–	7	1,487	16	0.074	–
SWAN ISLAND	1680153	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	9	1,698	51	0.273	–	9	1,698	51	0.273	–
SWAN ISLAND	1680133	SWAN ISLAND-GOING	7.2/12.5 kV Grounded Y	[redacted]	36	4,331	80	0.667	–	36	4,331	80	0.667	–
SWAN ISLAND	1680143	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TABOR	1690013	TABOR-82ND	7.2/12.5 kV Grounded Y	[redacted]	485	62,868	27	0.207	–	489	67,812	29	0.209	–
TABOR	1690033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	22	919	1	0.020	–	22	919	1	0.020	–
TABOR	1690023	TABOR-TABOR 13	7.2/12.5 kV Grounded Y	[redacted]	426	56,047	14	0.108	–	426	56,047	14	0.108	–
TEMP B	1707103	TEMP B-NORTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
TEMP B	1707113	TEMP B-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TOWN CENTER	6696023	TOWN CENTER-LAWNFIELD	7.2/12.5 kV Grounded Y	[redacted]	5	1,688	1	0.003	–	5	1,688	1	0.003	-
TOWN CENTER	6696053	TOWN CENTER-MONTEREY	7.2/12.5 kV Grounded Y	[redacted]	228	67,289	20	0.067	1	230	67,710	20	0.068	1
TOWN CENTER	6696073	TOWN CENTER-NORTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TOWN CENTER	6696043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	4	1,559	520	1.333	–	4	1,559	520	1.333	–
TOWN CENTER	6696013	TOWN CENTER-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	5	1,465	77	0.263	–	5	1,465	77	0.263	–
TOWN CENTER	6696063	TOWN CENTER-SUNNYBROOK	7.2/12.5 kV Grounded Y	[redacted]	1,273	478,836	444	1.180	–	1,273	478,836	444	1.180	–
TOWN CENTER	6696033	TOWN CENTER-VALLEY VIEW	7.2/12.5 kV Grounded Y	[redacted]	276	28,059	123	1.211	–	276	28,059	123	1.211	–
TWILIGHT	6699033	TWILIGHT-BREMER	7.2/12.5 kV Grounded Y	[redacted]	490	108,328	75	0.341	–	1,519	1,485,531	1,032	1.056	–
URBAN	1707053	URBAN-BARBUR	7.2/12.5 kV Grounded Y	[redacted]	69	10,621	47	0.307	–	69	10,621	47	0.307	–
URBAN	1707083	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
URBAN	1707013	URBAN-CORBETT	7.2/12.5 kV Grounded Y	[redacted]	109	11,225	8	0.078	–	112	14,558	10	0.080	–
URBAN	1707063	URBAN-GAINES	7.2/12.5 kV Grounded Y	[redacted]	512	94,348	72	0.389	–	522	95,830	73	0.396	–
URBAN	1707043	URBAN-GIBBS	7.2/12.5 kV Grounded Y	[redacted]	14	798	2	0.029	–	14	798	2	0.029	–
URBAN	1707073	URBAN-KELLY	7.2/12.5 kV Grounded Y	[redacted]	88	7,230	8	0.099	1	88	7,230	8	0.099	1
URBAN	1707023	URBAN-LANDING	7.2/12.5 kV Grounded Y	[redacted]	11	2,166	1	0.006	–	11	2,166	1	0.006	–
URBAN	1707033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
URBAN	1707093	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	1743013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	1743023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WELCHES	5727013	WELCHES-WELCHES 13	7.2/12.5 kV Grounded Y	[redacted]	3,738	579,298	307	1.978	1	6,313	7,077,357	3,745	3.340	1
WELCHES	5727023	WELCHES-ZIG ZAG	7.2/12.5 kV Grounded Y	[redacted]	6,097	1,373,146	913	4.054	1	7,628	7,897,647	5,251	5.072	1
[redacted]	6666912	[redacted]	6.48/11.1 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WILLBRIDGE	1741052	WILLBRIDGE-SALMONBERRY	6.66/11.4 kV Grounded Y	[redacted]	4	670	6	0.036	–	4	670	6	0.036	–
WILLBRIDGE	1741062	WILLBRIDGE-WILDWOOD	6.66/11.4 kV Grounded Y	[redacted]	4	838	10	0.048	–	4	838	10	0.048	–

Southern Operating Area

Table 32. Reliability Performance for PGE's Southern Operating Area

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
AMITY	2120013	AMITY-AMITY 13	7.2/12.5 kV Grounded Y	[redacted]	662	169,644	120	0.468	2	3,570	2,883,612	2,039	2.525	2
AMITY	2120023	AMITY-BELLEVUE	7.2/12.5 kV Grounded Y	[redacted]	825	172,495	157	0.753	2	3,222	1,924,740	1,756	2.940	2
BARNES	2140043	BARNES-BATTLE CREEK	7.2/12.5 kV Grounded Y	[redacted]	3,161	712,659	251	1.115	–	3,177	729,637	257	1.121	–
BARNES	2140013	BARNES-BOONE	7.2/12.5 kV Grounded Y	[redacted]	1,855	440,740	247	1.039	–	1,855	440,740	247	1.039	–
BARNES	2140023	BARNES-COMMERCIAL	7.2/12.5 kV Grounded Y	[redacted]	4,486	1,081,806	273	1.131	–	4,490	1,083,519	273	1.132	–
BARNES	2140033	BARNES-SUNNYSIDE	7.2/12.5 kV Grounded Y	[redacted]	4,909	1,381,943	383	1.359	–	10,096	3,037,182	841	2.795	–
BETHEL	2151023	BETHEL-FRUITLAND	7.2/12.5 kV Grounded Y	[redacted]	614	106,637	38	0.217	–	6,291	1,914,215	675	2.219	–
BETHEL	2151033	BETHEL-GEER	7.2/12.5 kV Grounded Y	[redacted]	710	120,357	77	0.457	–	2,406	618,027	397	1.547	–
BETHEL	2151013	BETHEL-MACLEAY	7.2/12.5 kV Grounded Y	[redacted]	277	70,029	36	0.142	–	279	82,511	42	0.143	–
CANBY	6190013	CANBY-13643	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANBY	6190023	CANBY-13644	7.2/12.5 kV Grounded Y	[redacted]	122	24,530	53	0.263	–	438	432,854	935	0.946	–
CANBY	6190043	CANBY-BUTTEVILLE	7.2/12.5 kV Grounded Y	[redacted]	1,436	323,411	276	1.224	2	1,616	795,028	678	1.378	2
CANBY	6190033	CANBY-FILBERT	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CANBY	6190053	CANBY-ZIMMERMAN	7.2/12.5 kV Grounded Y	[redacted]	662	149,801	103	0.455	–	1,140	531,855	366	0.784	–
CLAXTAR	2207013	CLAXTAR-CLAXTAR 13	7.2/12.5 kV Grounded Y	[redacted]	10	1,236	3	0.022	–	10	1,236	3	0.022	–
CLAXTAR	2207023	CLAXTAR-HAYESVILLE	7.2/12.5 kV Grounded Y	[redacted]	339	24,413	11	0.147	1	339	24,413	11	0.147	1

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
CLAXTAR	2207033	CLAXTAR-RIDGE	7.2/12.5 kV Grounded Y	[redacted]	352	63,473	33	0.184	–	357	74,939	39	0.186	–
COLTON	6208013	COLTON-DHOOGHE	7.2/12.5 kV Grounded Y	[redacted]	1,901	300,522	498	3.147	–	2,713	984,235	1,630	4.492	2
COLTON	6208023	COLTON-GRAYS HILL	7.2/12.5 kV Grounded Y	[redacted]	2,920	948,440	848	2.609	–	4,159	1,585,604	1,417	3.717	2
CULVER	2211143	CULVER-CULVER 13	7.2/12.5 kV Grounded Y	[redacted]	5	651	5	0.035	–	9	5,172	36	0.063	–
CULVER	2211113	CULVER-GAFFIN	7.2/12.5 kV Grounded Y	[redacted]	15	5,832	23	0.059	–	799	123,680	489	3.158	–
CULVER	2211123	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	3	1,521	507	1.000	–	3	1,521	507	1.000	–
CULVER	2211133	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
DAYTON	4220013	DAYTON-EAST	7.2/12.5 kV Grounded Y	[redacted]	2,850	729,564	471	1.840	3	3,004	834,088	538	1.939	4
DAYTON	4220033	DAYTON-LAFAYETTE	7.2/12.5 kV Grounded Y	[redacted]	208	19,292	9	0.098	–	298	152,955	72	0.140	1
DAYTON	4220023	DAYTON-SOUTHWEST	7.2/12.5 kV Grounded Y	[redacted]	278	42,458	96	0.626	–	409	161,582	364	0.921	–
ELMA	2233013	ELMA-ELMA 13	7.2/12.5 kV Grounded Y	[redacted]	24	2,671	2	0.016	–	24	2,671	2	0.016	–
ELMA	2233023	ELMA-FOUR CORNERS	7.2/12.5 kV Grounded Y	[redacted]	754	216,416	81	0.281	–	754	216,416	81	0.281	–
ELMA	2233043	ELMA-HUDSON	7.2/12.5 kV Grounded Y	[redacted]	262	70,097	28	0.105	–	262	70,097	28	0.105	–
ELMA	2233033	ELMA-STATE	12.5 kV Grounded Y	[redacted]	85	25,475	74	0.249	1	85	25,475	74	0.249	1
FAIRMOUNT	2250013	FAIRMOUNT-CANDALARIA	7.2/12.5 kV Grounded Y	[redacted]	3,971	467,846	166	1.405	2	3,992	546,643	193	1.413	2
FAIRMOUNT	2250023	FAIRMOUNT-MISSION	7.2/12.5 kV Grounded Y	[redacted]	9,022	2,258,765	872	3.483	2	10,023	2,799,879	1,081	3.870	2
FARGO	2253013	FARGO-FARGO 13	7.2/12.5 kV Grounded Y	[redacted]	2,122	531,994	295	1.175	–	4,281	2,616,041	1,449	2.370	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
[redacted]	2900013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	57	118,425	2,078	1.000	–	171	182,411	3,200	3.000	–
GRAND RONDE	2285033	GRAND RONDE-AGENCY	7.2/12.5 kV Grounded Y	[redacted]	309	46,004	74	0.498	–	554	101,568	164	0.892	–
GRAND RONDE	2285023	GRAND RONDE-FORTHILL	7.2/12.5 kV Grounded Y	[redacted]	487	112,778	161	0.697	6	722	273,672	392	1.033	14
HILLCREST	2318033	HILLCREST-CASCADIA	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HILLCREST	2318023	HILLCREST-HILLCREST 13	7.2/12.5 kV Grounded Y	[redacted]	29	4,885	11	0.064	–	29	4,885	11	0.064	–
HILLCREST	2318043	HILLCREST-REED	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
HILLCREST	2318013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HILLCREST	2318223	HILLCREST-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	2188013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
INDIAN	2340023	INDIAN-KEIZER	7.2/12.5 kV Grounded Y	[redacted]	840	149,476	69	0.388	1	871	227,339	105	0.402	1
INDIAN	2340013	INDIAN-LABISH	7.2/12.5 kV Grounded Y	[redacted]	274	91,294	32	0.096	–	6,083	2,409,135	848	2.141	–
INDIAN	2340043	INDIAN-NORTH	7.2/12.5 kV Grounded Y	[redacted]	2,157	65,208	20	0.666	–	5,572	12,163,890	3,754	1.720	1
INDIAN	2340033	INDIAN-STATION	7.2/12.5 kV Grounded Y	[redacted]	70	7,937	5	0.043	–	1,662	2,739,225	1,679	1.019	–
INDIAN	2340053	INDIAN-WEST	7.2/12.5 kV Grounded Y	[redacted]	5,657	996,272	280	1.588	2	6,208	1,425,096	400	1.743	2
[redacted]	2400911	[redacted]	4.16 kV Grounded Y	[redacted]	–	–	–	–	–	1	3,849	3,849	1.000	–
LIBERAL	6464013	LIBERAL-LIBERAL 13	7.2/12.5 kV Grounded Y	[redacted]	247	68,510	64	0.230	1	1,452	468,658	437	1.354	2
LIBERAL	6464023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	1

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
LIBERTY	2410013	LIBERTY-BROWNING	7.2/12.5 kV Grounded Y	[redacted]	10	1,789	3	0.016	1	634	1,526,244	2,446	1.016	1
LIBERTY	2410043	LIBERTY-LONE OAK	7.2/12.5 kV Grounded Y	[redacted]	227	43,987	17	0.089	2	273	207,112	82	0.107	2
LIBERTY	2410053	LIBERTY-MORNINGSIDE	7.2/12.5 kV Grounded Y	[redacted]	287	33,734	15	0.124	2	287	33,734	15	0.124	2
LIBERTY	2410023	LIBERTY-ROSEDALE	7.2/12.5 kV Grounded Y	[redacted]	2,332	356,374	133	0.869	2	2,418	398,740	149	0.901	2
LIBERTY	2410063	LIBERTY-SKYLINE	7.2/12.5 kV Grounded Y	[redacted]	625	157,027	45	0.178	2	655	277,525	79	0.186	2
LIBERTY	2410033	LIBERTY-VISTA	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
MARKET	2425013	MARKET-ENGLEWOOD	7.2/12.5 kV Grounded Y	[redacted]	256	42,937	31	0.187	–	278	96,374	70	0.203	–
MARKET	2425033	MARKET-FAIRGROUNDS	7.2/12.5 kV Grounded Y	[redacted]	536	78,695	39	0.265	–	546	80,803	40	0.270	–
MARKET	2425023	MARKET-HAWTHORNE	7.2/12.5 kV Grounded Y	[redacted]	270	41,802	35	0.223	–	270	41,802	35	0.223	–
MARKET	2425043	MARKET-PARK	7.2/12.5 kV Grounded Y	[redacted]	1,742	227,941	158	1.205	1	1,743	228,070	158	1.205	1
MCCLAIN	2435033	MCCLAIN-COTTAGE	7.2/12.5 kV Grounded Y	[redacted]	477	74,227	47	0.301	–	714	480,481	303	0.450	1
MCCLAIN	2435013	MCCLAIN-FRONT	7.2/12.5 kV Grounded Y	[redacted]	379	101,066	103	0.388	–	1,880	2,775,001	2,837	1.922	–
MCCLAIN	2435043	MCCLAIN-HOLLYWOOD	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MIDDLE GROVE	2450023	MIDDLE GROVE-BROWN	7.2/12.5 kV Grounded Y	[redacted]	371	98,651	47	0.178	–	2,457	516,164	248	1.178	–
MIDDLE GROVE	2450043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	109	9,708	9	0.103	–	1,239	134,741	127	1.171	–
MIDDLE GROVE	2450033	MIDDLE GROVE-CORDON	7.2/12.5 kV Grounded Y	[redacted]	3,930	1,464,853	490	1.314	–	7,097	2,567,819	858	2.372	–
MIDDLE GROVE	2450013	MIDDLE GROVE-SWEGLE	7.2/12.5 kV Grounded Y	[redacted]	20	3,379	2	0.009	–	2,212	296,686	137	1.021	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
MIDDLE GROVE	2450053	MIDDLE GROVE-WEST	7.2/12.5 kV Grounded Y	[redacted]	185	27,774	7	0.049	–	4,021	1,029,031	270	1.055	–
MILL CREEK	2540013	MILL CREEK-EASTLAND	7.2/12.5 kV Grounded Y	[redacted]	964	206,337	220	1.028	–	964	206,337	220	1.028	–
MILL CREEK	2540023	MILL CREEK-KUEBLER	7.2/12.5 kV Grounded Y	[redacted]	14	1,120	2	0.023	–	619	186,481	311	1.033	–
MILL CREEK	2540033	MILL CREEK-MILL CREEK 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MOLALLA	6466023	MOLALLA-BUCKAROO	7.2/12.5 kV Grounded Y	[redacted]	2,750	765,273	238	0.857	–	2,782	815,482	254	0.867	–
MOLALLA	6466043	MOLALLA-FOREST	7.2/12.5 kV Grounded Y	[redacted]	2,005	389,219	231	1.191	1	4,600	5,339,141	3,172	2.733	1
MOLALLA	6466013	MOLALLA-MARQUAM	7.2/12.5 kV Grounded Y	[redacted]	1,890	384,352	257	1.266	–	3,346	1,557,772	1,043	2.241	1
MOLALLA	6466033	MOLALLA-YODER	7.2/12.5 kV Grounded Y	[redacted]	721	181,677	114	0.451	3	756	244,892	153	0.473	4
MT ANGEL	2470013	MT ANGEL-EAST	7.2/12.5 kV Grounded Y	[redacted]	40	7,189	11	0.061	–	40	7,189	11	0.061	–
MT ANGEL	2470023	MT ANGEL-WEST	7.2/12.5 kV Grounded Y	[redacted]	404	127,161	71	0.226	1	439	206,500	115	0.245	1
MULINO	6478013	MULINO-NORTH	7.2/12.5 kV Grounded Y	[redacted]	32	7,440	21	0.091	–	418	538,039	1,533	1.191	–
MULINO	6478023	MULINO-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	397	84,735	92	0.429	7	1,383	896,461	969	1.495	10
NEWBERG	4485033	NEWBERG-CHEHALEM	7.2/12.5 kV Grounded Y	[redacted]	6,384	896,601	287	2.040	2	7,392	1,739,122	556	2.362	2
NEWBERG	4485023	NEWBERG-DUNDEE	7.2/12.5 kV Grounded Y	[redacted]	3,258	985,674	385	1.272	2	3,888	1,946,137	760	1.518	4
NEWBERG	4485053	NEWBERG-HOOVER PARK	7.2/12.5 kV Grounded Y	[redacted]	436	61,281	25	0.175	–	436	61,281	25	0.175	–
NEWBERG	4485043	NEWBERG-NORTH COLLEGE	7.2/12.5 kV Grounded Y	[redacted]	777	173,967	71	0.316	3	825	297,514	121	0.335	3
NORTH MARION	2505043	NORTH MARION-CROSBY	7.2/12.5 kV Grounded Y	[redacted]	157	21,796	9	0.065	–	163	48,476	20	0.068	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
NORTH MARION	2505033	NORTH MARION-FRONT	7.2/12.5 kV Grounded Y	[redacted]	62	16,087	29	0.111	1	62	16,087	29	0.111	1
NORTH MARION	2505013	NORTH MARION-HUBBARD	7.2/12.5 kV Grounded Y	[redacted]	381	63,156	40	0.241	–	961	92,276	58	0.607	–
NORTH MARION	2505023	NORTH MARION-MCLAREN	7.2/12.5 kV Grounded Y	[redacted]	2,639	188,606	173	2.419	–	3,246	470,148	431	2.975	–
OXFORD	2523013	OXFORD-FAIRVIEW	7.2/12.5 kV Grounded Y	[redacted]	467	66,653	25	0.173	–	467	66,653	25	0.173	–
OXFORD	2523063	OXFORD-LEE	7.2/12.5 kV Grounded Y	[redacted]	497	37,532	44	0.586	–	497	37,532	44	0.586	–
OXFORD	2523033	OXFORD-MADRONA	7.2/12.5 kV Grounded Y	[redacted]	70	8,308	26	0.223	–	401	187,707	598	1.277	–
OXFORD	2523043	OXFORD-OXFORD 13	7.2/12.5 kV Grounded Y	[redacted]	1,137	289,980	295	1.157	–	1,137	289,980	295	1.157	–
OXFORD	2523053	OXFORD-RURAL	7.2/12.5 kV Grounded Y	[redacted]	13	1,153	5	0.054	–	13	1,153	5	0.054	–
OXFORD	2523023	OXFORD-SHELTON	7.2/12.5 kV Grounded Y	[redacted]	290	35,870	48	0.387	–	346	133,684	178	0.461	–
SALEM	2637013	SALEM-13260	7.2/12.5 kV Grounded Y	[redacted]	65	6,957	107	1.000	–	65	6,957	107	1.000	–
SALEM	2637023	SALEM-13261	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SALEM	2637033	SALEM-13262	7.2/12.5 kV Grounded Y	[redacted]	1	243	2	0.010	–	1	243	2	0.010	–
SALEM	2637043	SALEM-13263	7.2/12.5 kV Grounded Y	[redacted]	446	46,992	107	1.011	–	446	46,992	107	1.011	–
SALEM	2637063	SALEM-13264	7.2/12.5 kV Grounded Y	[redacted]	5	688	76	0.556	–	5	688	76	0.556	–
SALEM	2637053	SALEM-UNION	7.2/12.5 kV Grounded Y	[redacted]	236	25,095	106	1.000	–	236	25,095	106	1.000	–
SCOTTS MILLS	2652013	SCOTTS MILLS-SCOTTS MILLS 13	7.2/12.5 kV Grounded Y	[redacted]	4,686	1,012,463	544	2.519	1	6,743	2,924,151	1,572	3.625	1
SHERIDAN	2660023	SHERIDAN-EAST	7.2/12.5 kV Grounded Y	[redacted]	3,936	762,661	555	2.865	–	4,044	977,575	711	2.943	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
SHERIDAN	2660013	SHERIDAN-KADELL	7.2/12.5 kV Grounded Y	[redacted]	440	90,551	53	0.257	–	514	173,520	101	0.300	–
SILVERTON	2665013	SILVERTON-NORTH	7.2/12.5 kV Grounded Y	[redacted]	567	67,998	21	0.177	–	3,806	1,650,383	516	1.190	–
SILVERTON	2665023	SILVERTON-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	1,820	558,852	228	0.743	–	5,051	1,993,161	814	2.062	–
SILVERTON	2665033	SILVERTON-WEST	7.2/12.5 kV Grounded Y	[redacted]	2,501	632,455	324	1.279	–	5,540	2,275,092	1,164	2.834	–
SPRINGBROOK	4672043	SPRINGBROOK-FERNWOOD	7.2/12.5 kV Grounded Y	[redacted]	275	43,126	20	0.125	–	581	331,456	150	0.263	2
SPRINGBROOK	4672023	SPRINGBROOK-ST PAUL	7.2/12.5 kV Grounded Y	[redacted]	1,328	238,331	243	1.356	1	1,885	869,771	888	1.925	1
SPRINGBROOK	4672013	SPRINGBROOK-VILLA	7.2/12.5 kV Grounded Y	[redacted]	4,185	436,456	211	2.028	1	4,185	436,456	211	2.028	1
SPRINGBROOK	4672063	SPRINGBROOK-ZIMRI	7.2/12.5 kV Grounded Y	[redacted]	1,335	456,937	284	0.829	–	1,391	528,340	328	0.863	–
ST LOUIS	2630013	ST LOUIS-EAST	7.2/12.5 kV Grounded Y	[redacted]	880	131,322	40	0.268	–	880	131,322	40	0.268	–
ST LOUIS	2630033	ST LOUIS-NORTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ST LOUIS	2630023	ST LOUIS-WEST	7.2/12.5 kV Grounded Y	[redacted]	227	33,951	38	0.252	–	893	167,002	185	0.990	–
TEMP G	8007033	TEMP G-HERMES	7.2/12.5 kV Grounded Y	[redacted]	895	130,686	160	1.093	–	1,890	1,484,778	1,813	2.308	–
TURNER	2698023	TURNER-CASCADE	7.2/12.5 kV Grounded Y	[redacted]	434	122,205	135	0.480	–	538	183,354	203	0.594	–
TURNER	2698013	TURNER-TURNER 13	7.2/12.5 kV Grounded Y	[redacted]	330	84,627	51	0.200	–	330	84,627	51	0.200	–
UNIONVALE	4700013	UNIONVALE-UNIONVALE 13	7.2/12.5 kV Grounded Y	[redacted]	2,572	435,804	394	2.323	1	2,717	511,052	462	2.454	1
UNIVERSITY	2705013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	56	5,681	11	0.108	–	56	5,681	11	0.108	–
UNIVERSITY	2705023	UNIVERSITY-TRADE	7.2/12.5 kV Grounded Y	[redacted]	727	115,562	46	0.291	1	727	115,562	46	0.291	1

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
WACONDA	2720033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WACONDA	2720023	WACONDA-RIVER	7.2/12.5 kV Grounded Y	[redacted]	267	119,190	234	0.524	–	334	146,182	287	0.655	–
WACONDA	2720013	WACONDA-WACONDA 13	7.2/12.5 kV Grounded Y	[redacted]	4,847	1,444,191	678	2.275	3	4,875	1,484,110	696	2.288	4
WALLACE	2725013	WALLACE-WALLACE 13	7.2/12.5 kV Grounded Y	[redacted]	5,215	571,282	381	3.477	3	5,473	850,836	567	3.649	3
WALLACE	2725023	WALLACE-WILLOW LAKE	7.2/12.5 kV Grounded Y	[redacted]	10	1,366	1	0.008	2	12	10,772	8	0.009	2
WILLAMINA	2740033	WILLAMINA-BRIDGE	7.2/12.5 kV Grounded Y	[redacted]	2,295	1,021,688	725	1.629	3	3,780	1,421,491	1,009	2.683	4
WILLAMINA	2740023	WILLAMINA-BUELL	7.2/12.5 kV Grounded Y	[redacted]	495	78,395	117	0.741	–	891	162,835	244	1.334	–
WILLAMINA	2740013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	4	1,429	238	0.667	–	4	1,429	238	0.667	–
WOODBURN	2753033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	2,091	236,368	124	1.094	1	3,979	1,938,438	1,014	2.081	2
WOODBURN	2753013	WOODBURN-EAST	7.2/12.5 kV Grounded Y	[redacted]	303	64,990	167	0.777	–	340	161,507	414	0.872	–
WOODBURN	2753023	WOODBURN-TOMLIN	7.2/12.5 kV Grounded Y	[redacted]	363	83,660	34	0.148	1	416	111,136	45	0.170	1
WOODBURN	2753043	WOODBURN-WEST	7.2/12.5 kV Grounded Y	[redacted]	300	35,942	23	0.194	–	302	40,148	26	0.195	–
YAMHILL	4760023	YAMHILL-CARLTON	7.2/12.5 kV Grounded Y	[redacted]	1,179	318,045	142	0.527	–	2,006	1,902,992	851	0.897	–
YAMHILL	4760013	YAMHILL-YAMHILL 13	7.2/12.5 kV Grounded Y	[redacted]	1,069	263,538	138	0.561	–	3,655	2,523,736	1,323	1.917	–

Western Operating Area

Table 33. Reliability Performance for PGE's Western Operating Area

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
BANKS	4135013	BANKS-BANKS 13	7.2/12.5 kV Grounded Y	[redacted]	557	22,220	33	0.839	–	1,168	364,474	549	1.759	–
BANKS	4135023	BANKS-CEDAR CANYON	7.2/12.5 kV Grounded Y	[redacted]	1,556	392,462	220	0.871	–	2,228	1,432,503	802	1.247	–
[redacted]	4146013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
BEAVERTON	4150013	BEAVERTON-ALLEN	7.2/12.5 kV Grounded Y	[redacted]	1,189	151,548	52	0.410	–	1,788	658,716	227	0.617	–
BEAVERTON	4150023	BEAVERTON-JAMIESON	7.2/12.5 kV Grounded Y	[redacted]	158	31,593	33	0.163	–	158	31,593	33	0.163	–
BEAVERTON	4150033	BEAVERTON-NORTHWEST	7.2/12.5 kV Grounded Y	[redacted]	366	60,655	35	0.213	–	366	60,655	35	0.213	–
BEAVERTON	4150053	BEAVERTON-WEST SLOPE	7.2/12.5 kV Grounded Y	[redacted]	703	142,175	67	0.332	–	704	142,513	67	0.333	–
BETHANY	4157043	BETHANY-BURTON	7.2/12.5 kV Grounded Y	[redacted]	30	3,161	3	0.027	–	30	3,161	3	0.027	–
BETHANY	4157013	BETHANY-GERMANTOWN	7.2/12.5 kV Grounded Y	[redacted]	2	199	0	0.001	–	3	1,073	0	0.001	–
BETHANY	4157023	BETHANY-KAISER	7.2/12.5 kV Grounded Y	[redacted]	39	7,020	5	0.025	–	39	7,020	5	0.025	–
BETHANY	4157053	BETHANY-LAIDLAW	7.2/12.5 kV Grounded Y	[redacted]	736	130,909	54	0.303	–	738	138,327	57	0.304	–
BETHANY	4157063	BETHANY-SPRINGVILLE	7.2/12.5 kV Grounded Y	[redacted]	3,036	666,494	168	0.766	–	3,036	666,494	168	0.766	–
BETHANY	4157033	BETHANY-THOMPSON	7.2/12.5 kV Grounded Y	[redacted]	327	62,607	29	0.153	–	328	63,785	30	0.153	–
[redacted]	4160913	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4160923	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4160933	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
BOONES FERRY	1170043	BOONES FERRY-GOODALL	7.2/12.5 kV Grounded Y	[redacted]	1,775	382,658	217	1.007	–	1,777	385,332	219	1.009	–
BOONES FERRY	1170013	BOONES FERRY-KRUSE	7.2/12.5 kV Grounded Y	[redacted]	584	229,683	107	0.271	–	584	229,683	107	0.271	–
BOONES FERRY	1170033	BOONES FERRY-LAKE GROVE	7.2/12.5 kV Grounded Y	[redacted]	903	236,978	104	0.395	–	913	263,528	115	0.399	–
BOONES FERRY	1170053	BOONES FERRY-MOUNTAIN PARK	7.2/12.5 kV Grounded Y	[redacted]	1,157	236,739	76	0.372	–	1,158	237,524	76	0.372	–
BOONES FERRY	1170023	BOONES FERRY-WEMBLEY PARK	7.2/12.5 kV Grounded Y	[redacted]	477	118,469	75	0.303	–	794	700,674	445	0.504	1
BROOKWOOD	4185353	BROOKWOOD-BORWICK	7.2/12.5 kV Grounded Y	[redacted]	5	332	0	0.002	–	5	332	0	0.002	–
BROOKWOOD	4185213	BROOKWOOD-BROOKWOOD 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
BROOKWOOD	4185243	BROOKWOOD-CRATER	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
BROOKWOOD	4185313	BROOKWOOD-SUNRISE	7.2/12.5 kV Grounded Y	[redacted]	2,638	754,650	351	1.226	–	2,638	754,650	351	1.226	–
BROOKWOOD	4185323	BROOKWOOD-TRILLIUM	7.2/12.5 kV Grounded Y	[redacted]	3,479	484,619	149	1.069	–	3,481	486,607	150	1.070	–
CEDAR HILLS	4200033	CEDAR HILLS-CEDAR HILLS 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
CEDAR HILLS	4200063	CEDAR HILLS-LEAHY	7.2/12.5 kV Grounded Y	[redacted]	2,901	799,839	289	1.049	1	2,915	850,207	307	1.054	1
CEDAR HILLS	4200013	CEDAR HILLS-SHOPPING CENTER	7.2/12.5 kV Grounded Y	[redacted]	3,635	658,858	303	1.674	–	3,876	804,106	370	1.785	–
CEDAR HILLS	4200043	CEDAR HILLS-SKYLINE	7.2/12.5 kV Grounded Y	[redacted]	270	83,526	85	0.274	1	271	84,469	86	0.275	1
CEDAR HILLS	4200053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	–	–	–	–	1
CEDAR HILLS	4200023	CEDAR HILLS-SYLVAN	7.2/12.5 kV Grounded Y	[redacted]	1,776	169,652	66	0.689	1	4,358	974,880	378	1.690	1
COFFEE CREEK	4209023	COFFEE CREEK-FREEMAN	7.2/12.5 kV Grounded Y	[redacted]	22	4,371	21	0.104	–	22	4,371	21	0.104	–

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
COFFEE CREEK	4209013	COFFEE CREEK-HOLIDAY	7.2/12.5 kV Grounded Y	[redacted]	91	32,816	94	0.260	–	91	32,816	94	0.260	–
COFFEE CREEK	4209033	COFFEE CREEK-STORAGE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
CORNELIUS	4210033	CORNELIUS-ADAIR	7.2/12.5 kV Grounded Y	[redacted]	170	36,782	21	0.098	–	170	36,782	21	0.098	–
CORNELIUS	4210013	CORNELIUS-CORNELIUS 13	7.2/12.5 kV Grounded Y	[redacted]	3,725	1,020,205	359	1.313	1	5,251	1,396,606	492	1.850	2
CORNELIUS	4210023	CORNELIUS-VERBOORT	7.2/12.5 kV Grounded Y	[redacted]	166	36,207	19	0.088	–	169	51,513	27	0.090	–
CORNELL	4206023	CORNELL-BLUFFS	7.2/12.5 kV Grounded Y	[redacted]	733	89,322	24	0.196	–	733	89,322	24	0.196	–
CORNELL	4206013	CORNELL-SALTZMAN	7.2/12.5 kV Grounded Y	[redacted]	602	71,649	40	0.338	–	602	71,649	40	0.338	–
CORNELL	4206033	CORNELL-WESTLAWN	7.2/12.5 kV Grounded Y	[redacted]	312	75,388	41	0.170	–	312	75,388	41	0.170	–
DENNY	4222043	DENNY-EAST	7.2/12.5 kV Grounded Y	[redacted]	312	57,922	35	0.191	–	315	59,564	36	0.193	–
DENNY	4222013	DENNY-NORTH	7.2/12.5 kV Grounded Y	[redacted]	81	8,076	19	0.189	–	81	8,076	19	0.189	1
DENNY	4222033	DENNY-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	568	76,826	29	0.218	2	568	76,826	29	0.218	2
DENNY	4222023	DENNY-WEST	7.2/12.5 kV Grounded Y	[redacted]	1,936	417,348	127	0.589	3	5,219	1,302,773	396	1.588	3
DILLEY	4223023	DILLEY-CARPENTER	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	1	2	762	381	1.000	1
DILLEY	4223013	DILLEY-DILLEY 13	7.2/12.5 kV Grounded Y	[redacted]	1,498	263,784	419	2.382	2	2,237	739,051	1,175	3.556	2
DURHAM	4224043	DURHAM-BONITA	7.2/12.5 kV Grounded Y	[redacted]	188	90,368	112	0.234	1	188	90,368	112	0.234	1
DURHAM	4224053	DURHAM-BRIDGEPORT	7.2/12.5 kV Grounded Y	[redacted]	16	1,456	1	0.013	–	17	2,245	2	0.014	–
DURHAM	4224013	DURHAM-DURHAM 13	7.2/12.5 kV Grounded Y	[redacted]	35	4,912	12	0.088	–	35	4,912	12	0.088	–

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
DURHAM	4224913	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
DURHAM	4224023	DURHAM-SATTLER	7.2/12.5 kV Grounded Y	[redacted]	223	28,517	12	0.093	–	223	28,517	12	0.093	–
DURHAM	4224033	DURHAM-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
GALES CREEK	4275013	GALES CREEK-GALES CREEK 13	7.2/12.5 kV Grounded Y	[redacted]	2,242	541,727	684	2.831	–	2,876	916,380	1,157	3.631	–
GARDEN HOME	4276023	GARDEN HOME-MCKAY	7.2/12.5 kV Grounded Y	[redacted]	699	220,968	81	0.255	–	3,439	1,627,128	593	1.253	–
GARDEN HOME	4276013	GARDEN HOME-METZGER	7.2/12.5 kV Grounded Y	[redacted]	1,750	733,883	238	0.567	2	4,849	902,630	292	1.570	2
HELVETIA	4335094	HELVETIA-BACHELOR	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HELVETIA	4335104	HELVETIA-SACAJAWEA	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HELVETIA	4335034	HELVETIA-STEENS	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HELVETIA	4335044	HELVETIA-STRAWBERRY	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
HILLSBORO	4320013	HILLSBORO-DAIRY CREEK	7.2/12.5 kV Grounded Y	[redacted]	252	45,920	11	0.058	1	2,942	649,902	149	0.677	1
HILLSBORO	4320053	HILLSBORO-DENNIS	7.2/12.5 kV Grounded Y	[redacted]	21	5,051	20	0.081	1	21	5,051	20	0.081	1
HILLSBORO	4320033	HILLSBORO-JACKSON	7.2/12.5 kV Grounded Y	[redacted]	122	11,553	4	0.044	1	122	11,553	4	0.044	1
HILLSBORO	4320023	HILLSBORO-LAUREL	7.2/12.5 kV Grounded Y	[redacted]	2,807	651,295	402	1.731	2	2,898	796,832	491	1.787	3
HILLSBORO	4320043	HILLSBORO-SCHOLLS	7.2/12.5 kV Grounded Y	[redacted]	1,553	194,602	170	1.360	1	1,553	194,602	170	1.360	1
HUBER	4330053	HUBER-BANY	7.2/12.5 kV Grounded Y	[redacted]	2,757	53,752	19	0.977	–	2,758	54,977	19	0.977	–
HUBER	4330023	HUBER-FARMINGTON	7.2/12.5 kV Grounded Y	[redacted]	736	142,139	41	0.213	–	737	146,063	42	0.214	–

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
HUBER	4330013	HUBER-HUBER 13	7.2/12.5 kV Grounded Y	[redacted]	405	46,306	11	0.095	1	415	56,670	13	0.097	1
HUBER	4330033	HUBER-KINNAMAN	7.2/12.5 kV Grounded Y	[redacted]	364	82,379	33	0.146	–	364	82,379	33	0.146	–
HUBER	4330043	HUBER-MARYVILLE	7.2/12.5 kV Grounded Y	[redacted]	5,373	699,564	154	1.185	–	5,373	699,564	154	1.185	–
KING CITY	4378023	KING CITY-BULL MOUNTAIN	7.2/12.5 kV Grounded Y	[redacted]	2,865	284,587	108	1.084	–	2,865	284,587	108	1.084	–
KING CITY	4378013	KING CITY-FISCHER	7.2/12.5 kV Grounded Y	[redacted]	210	24,174	8	0.066	–	1,493	568,734	179	0.469	–
KING CITY	4378043	KING CITY-HAZELBROOK	7.2/12.5 kV Grounded Y	[redacted]	91	16,041	9	0.051	–	204	211,791	118	0.114	1
KING CITY	4378053	KING CITY-NORTH	7.2/12.5 kV Grounded Y	[redacted]	221	51,173	23	0.099	1	221	51,173	23	0.099	1
KING CITY	4378063	KING CITY-SOUTH	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
KING CITY	4378033	KING CITY-SUMMERFIELD	7.2/12.5 kV Grounded Y	[redacted]	197	8,310	3	0.073	–	197	8,310	3	0.073	–
MAIN	4422023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	397	50,601	28	0.221	2	407	51,036	28	0.226	2
MAIN	4422033	MAIN-BENTLEY	7.2/12.5 kV Grounded Y	[redacted]	631	199,472	91	0.288	1	632	200,339	92	0.289	1
MAIN	4422053	MAIN-EXPRESS	7.2/12.5 kV Grounded Y	[redacted]	214	43,061	14	0.069	–	657	137,941	44	0.212	–
MAIN	4422073	MAIN-GRIFFIN OAKS	7.2/12.5 kV Grounded Y	[redacted]	179	28,264	28,264	179.000	–	179	28,264	28,264	179.000	–
MAIN	4422063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MAIN	4422043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MAIN	4422013	MAIN-RIVER	7.2/12.5 kV Grounded Y	[redacted]	3,238	254,963	96	1.223	1	5,145	739,396	279	1.944	2
[redacted]	4430913	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

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MEMORIAL	4444313	MEMORIAL-BOBERG	12.5 kV Grounded Y	[redacted]	1,855	122,872	149	2.257	–	1,855	122,872	149	2.257	–
MERIDIAN	4447083	MERIDIAN-65TH	7.2/12.5 kV Grounded Y	[redacted]	4	888	1	0.004	–	4	888	1	0.004	–
MERIDIAN	4447053	MERIDIAN-BORLAND	7.2/12.5 kV Grounded Y	[redacted]	123	24,808	27	0.136	–	132	59,647	66	0.146	–
MERIDIAN	4447093	MERIDIAN-CHILDS	7.2/12.5 kV Grounded Y	[redacted]	1	34	0	0.001	–	1	34	0	0.001	–
MERIDIAN	4447063	MERIDIAN-LAKEVIEW	7.2/12.5 kV Grounded Y	[redacted]	38	5,309	14	0.101	–	40	6,859	18	0.106	–
MERIDIAN	4447013	MERIDIAN-MERIDIAN 13	7.2/12.5 kV Grounded Y	[redacted]	517	107,878	68	0.327	–	2,736	1,382,450	876	1.733	–
MERIDIAN	4447073	MERIDIAN-NYBERG	7.2/12.5 kV Grounded Y	[redacted]	3	1,580	11	0.021	–	3	1,580	11	0.021	–
MERIDIAN	4447043	MERIDIAN-PILKINGTON	7.2/12.5 kV Grounded Y	[redacted]	341	87,053	37	0.144	–	2,270	843,929	355	0.956	–
MERIDIAN	4447033	MERIDIAN-SAGERT	7.2/12.5 kV Grounded Y	[redacted]	769	144,330	50	0.265	–	862	441,347	152	0.297	–
MURRAYHILL	4482033	MURRAYHILL-KINTON	7.2/12.5 kV Grounded Y	[redacted]	4	343	0	0.001	–	4	343	0	0.001	–
MURRAYHILL	4482013	MURRAYHILL-MURRAYHILL 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	1	481	0	0.000	–
MURRAYHILL	4482053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
MURRAYHILL	4482043	MURRAYHILL-REUSSER	7.2/12.5 kV Grounded Y	[redacted]	830	241,028	112	0.386	–	830	241,028	112	0.386	–
MURRAYHILL	4482023	MURRAYHILL-TEAL	7.2/12.5 kV Grounded Y	[redacted]	472	95,872	24	0.120	1	472	95,872	24	0.120	1
NORTH PLAINS	4510023	NORTH PLAINS-MASON HILL	7.2/12.5 kV Grounded Y	[redacted]	2,030	393,472	181	0.936	1	3,043	1,668,566	769	1.403	1
NORTH PLAINS	4510013	NORTH PLAINS-NORTH PLAINS 13	7.2/12.5 kV Grounded Y	[redacted]	1,133	260,019	144	0.627	1	2,061	839,096	465	1.141	3
OAK HILLS	4516033	OAK HILLS-FIVE OAKS	7.2/12.5 kV Grounded Y	[redacted]	42	8,448	4	0.021	–	42	8,448	4	0.021	–

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OAK HILLS	4516053	OAK HILLS-GREENBRIER	7.2/12.5 kV Grounded Y	[redacted]	493	81,677	166	1.004	–	493	81,677	166	1.004	–
OAK HILLS	4516013	OAK HILLS-OAK HILLS 13	7.2/12.5 kV Grounded Y	[redacted]	73	16,093	12	0.053	–	73	16,093	12	0.053	–
OAK HILLS	4516023	OAK HILLS-SOMERSET	7.2/12.5 kV Grounded Y	[redacted]	221	14,722	9	0.137	1	1,617	925,923	575	1.004	1
OAK HILLS	4516043	OAK HILLS-WALKER	7.2/12.5 kV Grounded Y	[redacted]	1,672	375,295	186	0.830	–	1,672	375,295	186	0.830	–
ORENCO	4518433	ORENCO-231ST	7.2/12.5 kV Grounded Y	[redacted]	7	626	0	0.003	–	7	626	0	0.003	1
ORENCO	4518543	ORENCO-AMBERGLEN	7.2/12.5 kV Grounded Y	[redacted]	31	1,411	0	0.008	–	31	1,411	0	0.008	–
ORENCO	4518523	ORENCO-BASELINE	7.2/12.5 kV Grounded Y	[redacted]	489	37,539	11	0.138	–	489	37,539	11	0.138	–
ORENCO	4518313	ORENCO-ORENCO 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ORENCO	4518323	ORENCO-PRIMATE	7.2/12.5 kV Grounded Y	[redacted]	1,590	181,599	70	0.613	–	1,590	181,599	70	0.613	–
ORENCO	4518443	ORENCO-WILKINS	7.2/12.5 kV Grounded Y	[redacted]	4	750	0	0.002	–	4	750	0	0.002	–
OSWEGO	1520013	OSWEGO-IRON MOUNTAIN	7.2/12.5 kV Grounded Y	[redacted]	261	49,732	42	0.220	–	768	217,393	183	0.648	–
OSWEGO	1520033	OSWEGO-MARYLHURST	7.2/12.5 kV Grounded Y	[redacted]	5,283	644,733	289	2.365	–	5,866	772,437	346	2.626	–
OSWEGO	1520043	OSWEGO-PALATINE	7.2/12.5 kV Grounded Y	[redacted]	4,245	631,323	355	2.385	3	6,326	988,849	556	3.554	3
OSWEGO	1520023	OSWEGO-STAFFORD	7.2/12.5 kV Grounded Y	[redacted]	145	15,824	8	0.075	–	184	48,262	25	0.095	–
PROGRESS	4565053	PROGRESS-GREENBURG	7.2/12.5 kV Grounded Y	[redacted]	862	222,595	108	0.417	1	1,337	782,745	379	0.647	2
PROGRESS	4565063	PROGRESS-HALL	7.2/12.5 kV Grounded Y	[redacted]	91	29,996	161	0.489	–	91	29,996	161	0.489	–
PROGRESS	4565013	PROGRESS-ROBINSON	7.2/12.5 kV Grounded Y	[redacted]	890	232,734	78	0.299	6	890	232,734	78	0.299	6

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Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
PROGRESS	4565023	PROGRESS-SAWYER	7.2/12.5 kV Grounded Y	[redacted]	151	54,794	68	0.189	–	151	54,794	68	0.189	–
PROGRESS	4565033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	1	638	15	0.024	–	1	638	15	0.024	–
PROGRESS	4565043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	43	2,072	77	1.593	–	43	2,072	77	1.593	–
RALEIGH HILLS	4570073	RALEIGH HILLS-DOGWOOD	7.2/12.5 kV Grounded Y	[redacted]	390	81,262	46	0.223	–	2,168	682,175	389	1.237	1
RALEIGH HILLS	4570053	RALEIGH HILLS-MONTCLAIR	7.2/12.5 kV Grounded Y	[redacted]	426	51,600	34	0.279	–	426	51,600	34	0.279	–
RALEIGH HILLS	4570063	RALEIGH HILLS-OLESON	7.2/12.5 kV Grounded Y	[redacted]	610	109,084	51	0.285	–	682	115,339	54	0.319	–
REEDVILLE	4583083	REEDVILLE-AUGUSTA	0	[redacted]	872	91,739	28	0.268	1	1,320	194,331	60	0.406	1
REEDVILLE	4583033	REEDVILLE-BLANTON	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	1
REEDVILLE	4583013	REEDVILLE-HAZELDALE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583043	[redacted]	0	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583053	[redacted]	0	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583063	[redacted]	0	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583073	[redacted]	0	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583093	[redacted]	0	[redacted]	–	–	–	–	–	–	–	–	–	–
REEDVILLE	4583023	REEDVILLE-TV	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ROCK CREEK	4598023	ROCK CREEK-185TH	7.2/12.5 kV Grounded Y	[redacted]	325	36,759	13	0.115	1	325	36,759	13	0.115	1
ROCK CREEK	4598033	ROCK CREEK-FOREST PARK	7.2/12.5 kV Grounded Y	[redacted]	341	66,772	30	0.152	–	430	248,827	111	0.192	–
ROCK CREEK	4598013	ROCK CREEK-NEWBERRY	7.2/12.5 kV Grounded Y	[redacted]	1,272	287,258	288	1.277	1	1,569	394,995	397	1.575	1
ROSEWAY	4605033	ROSEWAY-ALEXANDER	7.2/12.5 kV Grounded Y	[redacted]	747	264,259	149	0.422	2	748	266,833	151	0.422	2
ROSEWAY	4605063	ROSEWAY-BUTTERNUT	7.2/12.5 kV Grounded Y	[redacted]	2,680	281,276	61	0.582	–	3,013	548,053	119	0.654	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
ROSEWAY	4605043	ROSEWAY-CENTURY	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ROSEWAY	4605023	ROSEWAY-ESPLANADE	7.2/12.5 kV Grounded Y	[redacted]	1,036	179,261	82	0.474	3	1,036	179,261	82	0.474	3
ROSEWAY	4605013	ROSEWAY-ROSEWAY 13	7.2/12.5 kV Grounded Y	[redacted]	19	828	0	0.010	–	2,021	402,029	207	1.039	–
ROSEWAY	4605053	ROSEWAY-SOHI	7.2/12.5 kV Grounded Y	[redacted]	1,470	112,182	23	0.307	–	1,487	179,275	37	0.310	–
[redacted]	9999013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	19	1,078	57	1.000	–	19	1,078	57	1.000	–
SCHOLLS FERRY	4645113	SCHOLLS FERRY-KEMMER	7.2/12.5 kV Grounded Y	[redacted]	819	174,097	71	0.335	–	3,467	1,177,571	482	1.420	–
SCHOLLS FERRY	4645123	SCHOLLS FERRY-RAINBOW	7.2/12.5 kV Grounded Y	[redacted]	556	127,118	63	0.274	–	3,414	2,602,753	1,282	1.682	2
SCHOLLS FERRY	4645133	SCHOLLS FERRY-ROY ROGERS	7.2/12.5 kV Grounded Y	[redacted]	59	11,166	5	0.027	–	65	31,502	15	0.030	–
SCOGGINS	4650023	SCOGGINS-CHERRY GROVE	7.2/12.5 kV Grounded Y	[redacted]	1,716	270,420	562	3.568	2	2,777	774,214	1,610	5.773	4
SCOGGINS	4650013	SCOGGINS-LAURELWOOD	7.2/12.5 kV Grounded Y	[redacted]	787	73,917	64	0.687	2	1,981	898,758	784	1.729	2
SHUTE	4660034	SHUTE-ASPEN	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660174	SHUTE-AZALEA	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660064	SHUTE-BIRCH	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660184	SHUTE-CARNATION	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660124	SHUTE-DAISY	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660074	SHUTE-FERN	34.5 kV Grounded Y	[redacted]	1	19	19	1.000	–	1	19	19	1.000	–
SHUTE	4660194	SHUTE-FREESIA	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
SHUTE	4660134	SHUTE-IRIS	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660144	SHUTE-JASMINE	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660114	SHUTE-JUNIPER	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660044	SHUTE-LARCH	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660154	SHUTE-LILAC	34.5 kV Grounded Y	[redacted]	1	282	141	0.500	–	1	282	141	0.500	–
SHUTE	4660084	SHUTE-MAPLE	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660014	SHUTE-NOBLE	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660204	SHUTE-ORCHID	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660054	SHUTE-PINE	34.5 kV Grounded Y	[redacted]	2	16	16	2.000	–	2	16	16	2.000	–
SHUTE	4660024	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660164	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660104	SHUTE-SPRUCE	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SHUTE	4660094	SHUTE-TULIP	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SIX CORNERS	4670013	SIX CORNERS-13359	7.2/12.5 kV Grounded Y	[redacted]	472	169,684	82	0.229	4	1,915	865,634	420	0.928	6
SIX CORNERS	4670023	SIX CORNERS-13360	7.2/12.5 kV Grounded Y	[redacted]	1,676	320,028	280	1.469	1	1,676	320,028	280	1.469	3
SIX CORNERS	4670043	SIX CORNERS-BORCHERS	7.2/12.5 kV Grounded Y	[redacted]	509	307,623	160	0.265	–	2,469	445,288	232	1.284	2
SIX CORNERS	4670033	SIX CORNERS-CHAPMAN	7.2/12.5 kV Grounded Y	[redacted]	3,391	273,900	82	1.020	–	3,413	296,594	89	1.027	3

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
SIX CORNERS	4670053	SIX CORNERS-SIX CORNERS 13	7.2/12.5 kV Grounded Y	[redacted]	738	80,847	118	1.081	–	738	80,847	118	1.081	2
[redacted]	4674911	[redacted]	4.16 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ST HELENS	9999023	ST HELENS-HOULTON	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ST MARYS EAST	4635023	ST MARYS EAST-BETHANY	7.2/12.5 kV Grounded Y	[redacted]	2	246	0	0.003	–	2	246	0	0.003	–
ST MARYS EAST	4635053	ST MARYS EAST-BUTNER	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
ST MARYS EAST	4635033	ST MARYS EAST-ELMONICA	7.2/12.5 kV Grounded Y	[redacted]	249	37,924	10	0.068	–	249	37,924	10	0.068	–
ST MARYS EAST	4635013	ST MARYS EAST-JENKINS	7.2/12.5 kV Grounded Y	[redacted]	9	2,389	70	0.265	–	9	2,389	70	0.265	–
ST MARYS EAST	4635063	ST MARYS EAST-MILLIKAN	7.2/12.5 kV Grounded Y	[redacted]	5	689	0	0.003	–	5	689	0	0.003	–
ST MARYS EAST	4635043	ST MARYS EAST-ST MARYS 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4255911	[redacted]	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679313	SUNSET-BLANCHET	7.2/12.5 kV Grounded Y	[redacted]	3	517	24	0.136	–	3	517	24	0.136	–
SUNSET	4679453	SUNSET-COLFAX	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679133	SUNSET-CORNELL	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679124	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679244	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679364	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679343	SUNSET-DAWSON	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	$MAIFI_E$
SUNSET	4679123	SUNSET-DORION	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679153	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679253	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679353	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679553	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679653	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679753	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679853	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679513	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679613	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679713	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679813	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679523	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679623	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679723	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679823	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679533	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
SUNSET	4679633	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679733	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679833	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679114	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679234	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679354	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679143	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	12	2,155	269	1.500	–	12	2,155	269	1.500	–
SUNSET	4679243	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679463	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679223	SUNSET-LANE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679284	[redacted]	34.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679433	SUNSET-MCCALL	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679423	SUNSET-MEEK	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679413	SUNSET-NIXON	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679333	SUNSET-OLCOTT	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SUNSET	4679213	SUNSET-PAULING	7.2/12.5 kV Grounded Y	[redacted]	121	12,115	101	1.008	–	121	12,115	101	1.008	–
SUNSET	4679323	SUNSET-SPALDING	7.2/12.5 kV Grounded Y	[redacted]	3	817	9	0.033	–	3	817	9	0.033	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
SUNSET	4679233	SUNSET-WHITMAN	7.2/12.5 kV Grounded Y	[redacted]	3	666	9	0.040	–	3	666	9	0.040	–
SUNSET	4679113	SUNSET-YOUNG	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
SYLVAN	1685013	SYLVAN-BARNES	7.2/12.5 kV Grounded Y	[redacted]	2,049	238,985	90	0.769	–	6,733	967,549	363	2.526	–
SYLVAN	1685023	SYLVAN-PATTON	7.2/12.5 kV Grounded Y	[redacted]	2,709	252,999	90	0.962	–	5,683	399,926	142	2.017	–
[redacted]	4693093	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4693063	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	267	34,725	74	0.569	–	268	35,876	76	0.571	–
[redacted]	4693083	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	597	189,589	62	0.195	–	693	221,135	72	0.226	–
[redacted]	4693053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	20	14,584	972	1.333	–	20	14,584	972	1.333	–
[redacted]	4693033	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	378	90,505	52	0.218	–	480	176,183	101	0.276	–
[redacted]	4693043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	4,734	505,338	142	1.326	1	4,816	585,301	164	1.349	1
[redacted]	4693023	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	21	6,859	10	0.030	–	725	78,628	113	1.040	–
[redacted]	4693073	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	6	1,857	232	0.750	–	6	1,857	232	0.750	–
[redacted]	4693013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	8	3,841	192	0.400	–	8	3,841	192	0.400	–
TIGARD	4695013	TIGARD-13336	7.2/12.5 kV Grounded Y	[redacted]	85	17,161	14	0.071	–	85	17,161	14	0.071	–
TIGARD	4695043	TIGARD-13337	7.2/12.5 kV Grounded Y	[redacted]	118	41,205	29	0.083	–	604	1,168,484	818	0.423	–
TIGARD	4695023	TIGARD-13361	7.2/12.5 kV Grounded Y	[redacted]	120	39,423	34	0.105	–	125	50,898	44	0.109	–
TIGARD	4695033	TIGARD-13362	7.2/12.5 kV Grounded Y	[redacted]	4,680	448,354	176	1.837	–	4,931	503,510	198	1.935	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFIE
TIGARD	4695053	TIGARD-TIGARD 13	7.2/12.5 kV Grounded Y	[redacted]	1,497	240,803	112	0.699	–	1,498	243,251	114	0.699	–
TONQUIN	4675153	TONQUIN-BASALT CREEK	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TONQUIN	4675253	TONQUIN-BLAKE	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TONQUIN	4675123	TONQUIN-CRYSTAL	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TONQUIN	4675213	TONQUIN-DRIVER	12.5 kV Grounded Y	[redacted]	8	3,286	19	0.046	–	179	65,513	379	1.035	–
TONQUIN	4675113	TONQUIN-HOODVIEW	12.5 kV Grounded Y	[redacted]	110	21,722	10	0.051	–	377	113,622	52	0.174	–
TONQUIN	4675223	TONQUIN-SPRINGS	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4999013	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
[redacted]	4999023	[redacted]	12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TUALATIN	4697023	TUALATIN-AVERY	7.2/12.5 kV Grounded Y	[redacted]	831	83,092	38	0.384	–	3,554	967,340	447	1.642	–
TUALATIN	4697063	TUALATIN-CIPOLE	7.2/12.5 kV Grounded Y	[redacted]	11	2,769	14	0.055	–	13	6,304	32	0.065	–
TUALATIN	4697043	TUALATIN-HERMAN	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
TUALATIN	4697013	TUALATIN-IBACH	7.2/12.5 kV Grounded Y	[redacted]	106	32,618	21	0.069	–	145	82,606	53	0.094	–
TUALATIN	4697053	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	5	254	5	0.093	–	5	254	5	0.093	–
TUALATIN	4697033	TUALATIN-TUALATIN 13	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WEST PORTLAND	4735033	WEST PORTLAND-72ND	7.2/12.5 kV Grounded Y	[redacted]	330	41,043	30	0.238	–	330	41,043	30	0.238	–
WEST PORTLAND	4735043	WEST PORTLAND-NORTH	7.2/12.5 kV Grounded Y	[redacted]	312	46,869	17	0.115	–	319	47,202	17	0.117	–

2025					Major Events Excluded					Major Events Included				
Substation Name	Circuit Id	Circuit Name	Voltage	Circuit Customer Count	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$	Customers Interrupted	Customer Minutes Interrupted	SAIDI	SAIFI	MAIFI$_E$
WEST PORTLAND	4735023	WEST PORTLAND-PACIFIC	7.2/12.5 kV Grounded Y	[redacted]	486	71,393	27	0.181	2	486	71,393	27	0.181	2
WEST PORTLAND	4735013	WEST PORTLAND-WEST PORTLAND 13	7.2/12.5 kV Grounded Y	[redacted]	389	59,429	55	0.362	–	390	59,812	56	0.363	–
WEST UNION	4737033	WEST UNION-ALOCLEK	7.2/12.5 kV Grounded Y	[redacted]	3	562	18	0.097	–	3	562	18	0.097	–
WEST UNION	4737013	WEST UNION-CORNELIUS PASS	7.2/12.5 kV Grounded Y	[redacted]	84	29,989	31	0.086	–	1,058	130,019	134	1.087	–
WEST UNION	4737053	WEST UNION-IMBRIE	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WEST UNION	4737043	WEST UNION-JACOBSON	7.2/12.5 kV Grounded Y	[redacted]	–	–	–	–	–	–	–	–	–	–
WEST UNION	4737023	WEST UNION-WEST UNION 13	7.2/12.5 kV Grounded Y	[redacted]	558	78,159	31	0.218	2	3,332	744,482	291	1.301	2
WILSONVILLE	4745073	WILSONVILLE-BOECKMAN	7.2/12.5 kV Grounded Y	[redacted]	3,774	375,689	252	2.528	3	5,119	1,000,713	670	3.429	3
WILSONVILLE	4745063	WILSONVILLE-CHARBONNEAU	7.2/12.5 kV Grounded Y	[redacted]	3,101	154,397	60	1.207	–	7,975	1,349,207	525	3.103	–
WILSONVILLE	4745013	WILSONVILLE-CITY	7.2/12.5 kV Grounded Y	[redacted]	4,358	259,860	65	1.092	–	8,436	1,609,938	403	2.114	–
WILSONVILLE	4745043	[redacted]	7.2/12.5 kV Grounded Y	[redacted]	29	1,494	52	1.000	–	58	12,796	441	2.000	–
WILSONVILLE	4745023	WILSONVILLE-PARKWAY	7.2/12.5 kV Grounded Y	[redacted]	1,240	59,851	71	1.473	–	2,515	762,771	906	2.987	–
WILSONVILLE	4745033	WILSONVILLE-VILLEBOIS	7.2/12.5 kV Grounded Y	[redacted]	2,426	111,143	119	2.589	–	4,852	748,951	799	5.178	–
WILSONVILLE	4745093	WILSONVILLE-WEST	7.2/12.5 kV Grounded Y	[redacted]	2,949	187,843	58	0.908	–	6,574	1,701,101	524	2.024	–

Appendix A Reliability Index Equations

SAIDI

The system average interruption duration index defined as the sustained interruption duration time (in minutes) an average customer experiences during the year. It is determined by dividing the sum of all customer-sustained interruption durations by the total number of customers served.

$$SAIDI = \frac{Sum\ of\ customer\ sustained\ interruption\ durations}{Total\ number\ of\ customers\ served}$$

SAIFI

The system average sustained interruption frequency index. This index is the number of times an average customer experiences a sustained interruption during a year. It is determined by dividing the sum of the total number of customer-sustained interruptions by the total number of customers served.

$$SAIFI = \frac{Sum\ of\ total\ number\ of\ customer\ sustained\ interruptions}{Total\ number\ of\ customers\ served}$$

$MAIFI_E$

The momentary average interruption event frequency index. This index is the number of times that an average customer experiences momentary interruption events during a year. It is determined by dividing the sum of the total number of customer momentary interruption events by the total number of customers served. Note that this index does not include the events immediately preceding a sustained interruption.

$$MAIFI_E = \frac{Sum\ of\ total\ number\ of\ customer\ momentary\ interruption\ events}{Total\ number\ of\ customers\ served\ on\ circuits\ with\ MV90\ or\ SCADA}$$

CAIDI

The customer average interruption duration index represents the average time required to restore service. It is determined by dividing the sum of customer minutes interrupted by the total number of customers served.

$$CAIDI = \frac{Sum\ of\ customer\ minutes\ of\ interruption}{Total\ number\ of\ customers\ interrupted}$$

T_{MED}

The SAIDI index is used as the basis of this definition. In calculating the daily system SAIDI, any interruption that spans multiple days is accrued to the day on which the interruption begins. The MED identification T_{MED} value is calculated at the end of each reporting period (typically one year) for use during the next reporting period, as follows:

1. Collect values of daily SAIDI for 5 sequential years, ending on the last day of the last complete reporting period. If fewer than 5 years of historical data are available, use all available historical data until 5 years of historical data are available.
2. Only those days that have a SAIDI/Day value will be used to calculate T_{MED} (do not include days that did not have any interruptions).
3. Take the natural logarithm (ln) of each daily SAIDI value in the data set.
4. Find α (Alpha), the average of the logarithms (also known as the log-average) of the data set.
5. Find β (Beta), the standard deviation of the logarithms (also known as the log-standard deviation) of the data set.
6. Compute the MED threshold, T_{MED}, using:

$$T_{MED} = e^{(\alpha+2.5\beta)}$$

7. Any day with daily SAIDI greater than the threshold value T_{MED} that occurs during the subsequent reporting period is classified as a MED.

Activities that occur on days classified as MEDs should be separately analyzed and reported.

Appendix B Asset Class Definitions

Substations: Sites containing critical equipment to transform electricity between the transmission and distribution systems. Electricity voltages are either stepped-up for the transmission system or down for the distribution system to transport electricity.

Substation transformers: These assets change the relationship between the incoming voltage and current and the outgoing voltage and current. They are rated on their primary and secondary voltage relationship and their power-carrying capacity.

Circuit breakers: Each one of these assets is the combination of a thermostat and a switch. It has a bimetal strip that heats and bends during a circuit overload. When the strip bends, it trips the breaker and opens the switch, thus breaking the circuit.

Poles and structures: Poles are used to support electric circuits and are typically made of wood. Structures are generally used for transmission circuits. They can consist of single or multiple sets and are typically made of wood, steel, or lattice towers.

Transmission circuit: Transmission circuits transport high voltage (e.g., 115 kV) electricity from large generation sources to substations for the transmission of electricity to the distribution system.

Distribution circuit: Distribution circuits deliver electricity from a substation to local areas where the voltage is transformed via overhead or underground transformers to levels that customers can use. Most PGE's distribution circuits are operated at nominal voltage level of 13kV.

Overhead transformers: One of a set of 1 to 3 pole-mounted distribution transformers. Overhead transformers step down the distribution voltage to levels that customers can use.

Underground transformers: Underground transformers – also called "pad-mounted" transformers – are electrically the same as pole mounted units, but packed in a box-like, oil-filled metal enclosure and installed on a ground-level concrete foundation, or "pad." These transformers step down the distribution voltage to levels that customers can use.

Sectionalizers and reclosers: Sectionalizers and reclosers are protective devices on the distribution system. The sectionalizer automatically isolates a faulted section on the circuit, while a recloser interrupts the current on the faulted section.

Appendix C MED Report Filings with OPUC

The following MED reports in Table 34 were filed with the OPUC in accordance with OAR 860-023-0161.

Since 2012, PGE has calculated T_{MED} and reported MEDs at the service-territory level, defined in this report as the Reliability Reporting Area. Prior to 2012, MEDs were evaluated at the Operating Area and each area was a Reliability Reporting Area. However, from 2012 – 2022, the MED Reports filed inaccurately referenced Reliability Reporting Areas in lieu of Operating areas. The inaccurate reference was addressed in 2023 with proceeding MED filings using the Operating and Reliability Reporting Area definitions outlined in the Definitions and Acronyms section of the annual Reliability Report.

Table 34. MED Report Filings

Event Date	Description	Available at:
February 24, 2025	PGE's Supplemental Major Event Exclusion for February 24, 2025	https://edocs.puc.state.or.us/edocs
December 17, 2025	PGE's Supplemental Major Event Exclusion for December 17, 2025	https://edocs.puc.state.or.us/edocs

Appendix D Outage Management System and System Disturbance Database Cause Code Mapping

Table 35 provides an overview of how PGE maps the detailed OMS cause codes to the high-level reporting interruption causes as required in OAR 860-023-0151(2)(b). It also provides a mapping to the cause codes provided to customers via outage maps and outage notifications. The customer-facing cause codes provide a brief reason for the interruption.

Table 35. Cause Code Mapping

OAR Cause	OMS Cause Code	PGE Outage Map/Text Cause Code
A Loss of Supply - Transmission	Multiple[1]	Multiple[1]
B Loss of Supply - Substation	Multiple[1]	Multiple[1]
B Loss of Supply - Substation	Other - Substation Equipment Failure	Equipment Issue
B Loss of Supply - Substation	Protection System	Equipment Issue
B Loss of Supply - Substation	Terminal Equipment	Equipment Issue
C Distribution - Equipment	Anchor / Guying	Equipment Issue
C Distribution - Equipment	Arrestor	Equipment Issue
C Distribution - Equipment	Capacitor	Equipment Issue
C Distribution - Equipment	Cross Arm	Equipment Issue
C Distribution - Equipment	Elbow	Equipment Issue
C Distribution - Equipment	Fuse / Cutout	Equipment Issue
C Distribution - Equipment	Insulator	Equipment Issue
C Distribution - Equipment	Lateral	Equipment Issue
C Distribution - Equipment	Meter	Equipment Issue
C Distribution - Equipment	Network Protector	Equipment Issue
C Distribution - Equipment	OH Connector / Clamp / Jumper	Equipment Issue
C Distribution - Equipment	Other - Pole Hardware Failure	Equipment Issue
C Distribution - Equipment	Other - Underground Hardware Failure	Equipment Issue
C Distribution - Equipment	Overhead Transformer	Equipment Issue
C Distribution - Equipment	Overloaded Service	Equipment Overload
C Distribution - Equipment	Padmount Transformer	Equipment Issue
C Distribution - Equipment	Pole / Structure	Equipment Issue
C Distribution - Equipment	Primary Cable	Equipment Issue
C Distribution - Equipment	Primary Conductor	Equipment Issue
C Distribution - Equipment	Primary Splice	Equipment Issue

C Distribution - Equipment	Recloser / Sectionalizer	Equipment Issue
C Distribution - Equipment	Regulator	Equipment Issue
C Distribution - Equipment	Secondary Cable	Equipment Issue
C Distribution - Equipment	Secondary Conductor	Equipment Issue
C Distribution - Equipment	Secondary Dead-end	Equipment Issue
C Distribution - Equipment	Secondary Splice	Equipment Issue
C Distribution - Equipment	Sleeve	Equipment Issue
C Distribution - Equipment	Stress Cone	Equipment Issue
C Distribution - Equipment	Submersible Transformer	Equipment Issue
C Distribution - Equipment	Switch	Equipment Issue
C Distribution - Equipment	UG Connector / Clamp / Jumper	Equipment Issue
D Distribution - Lightning	Lightning	Lightning
E Distribution - Planned	Planned Outage	System Upgrades
E Distribution - Planned	Public Safety Power Shutoff	Public Safety Power Shutoff
E Distribution - Planned	Rotating Outage	Rotating Outage
F Distribution - Public	Car Hit Equipment	Traffic Accident
F Distribution - Public	Electrical Contact	Public accident
F Distribution - Public	Felled Tree / Limb	Tree on Line
F Distribution - Public	Non-Residential Fire	Fire
F Distribution - Public	Object Contact	Public accident
F Distribution - Public	Other - Public	Public accident
F Distribution - Public	Residential Fire	House Fire
F Distribution – Public	Police or Fire Request	Safety Shutdown
F Distribution - Public	Underground Dig In	Construction accident
F Distribution - Public	Vandalism / Theft	Vandalism
G Distribution - Vegetation	Limb on Line	Tree on Line
G Distribution - Vegetation	Tree / Limb Burning	Tree on Line
G Distribution - Vegetation	Tree Uprooted	Tree on Line
H Distribution - Weather	Earthquake	Earthquake
H Distribution - Weather	Flooding	Flooding
H Distribution - Weather	Forest Fire	Forest Fire
H Distribution - Weather	High Winds	High winds
H Distribution - Weather	Severe Heat	Hot Weather
H Distribution - Weather	Snow / Ice	Heavy Snow/Ice
I Distribution - Wildlife	Bird	Animal Contact
I Distribution - Wildlife	Other - Animal	Animal Contact
I Distribution - Wildlife	Squirrel	Animal Contact

J Distribution - Unknown	Other - Environment / Weather	Weather
J Distribution - Unknown	Pole Fire	Equipment Issue
J Distribution - Unknown	Substation Fire	Equipment Issue
K Distribution - Other	Design Error	Equipment Issue
K Distribution - Other	Installation Error - Improper Install	Equipment Issue
K Distribution - Other	Installation Error - Wrong Equipment	Equipment Issue
K Distribution - Other	Operational Error	Equipment Issue
K Distribution - Other	Other - PGE Intentional Outage	System Upgrades
K Distribution - Other	Unplanned - Safety	Safety Shutdown
K Distribution - Other	Utility Made Contact	Equipment Issue

[1] Any outage event in which the system field is captured as "Transmission" or "Substation" will be assigned to the Loss of Supply – Transmission or Loss of Supply – Substation cause categories, respectively. The appropriate cause code will also be assigned.

Table 36. SDDB Cause Code Mapping

Major Cause	Minor Cause	Detailed Cause
Equipment Failure	Comm. System	Channel Bank
Equipment Failure	Comm. System	Fiber
Equipment Failure	Comm. System	Leased Line
Equipment Failure	Comm. System	Microwave
Equipment Failure	Comm. System	Other
Equipment Failure	Comm. System	Unknown
Equipment Failure	Line Equipment	Arrestor
Equipment Failure	Line Equipment	Auto-Sleeve
Equipment Failure	Line Equipment	Capacitor
Equipment Failure	Line Equipment	Compression-Sleeve
Equipment Failure	Line Equipment	Fuse / Cutout
Equipment Failure	Line Equipment	Hardware
Equipment Failure	Line Equipment	Line Switch
Equipment Failure	Line Equipment	Meter
Equipment Failure	Line Equipment	OH Wire / Cable
Equipment Failure	Line Equipment	Other
Equipment Failure	Line Equipment	Pole / Structure
Equipment Failure	Line Equipment	Poly Insulator
Equipment Failure	Line Equipment	Porcelain Insulator
Equipment Failure	Line Equipment	Recloser
Equipment Failure	Line Equipment	Transformer
Equipment Failure	Line Equipment	UG Wire / Cable
Equipment Failure	Line Equipment	Unknown

Major Cause	Minor Cause	Detailed Cause
Equipment Failure	Station Equip	Arrestor
Equipment Failure	Station Equip	Breaker
Equipment Failure	Station Equip	Capacitor
Equipment Failure	Station Equip	Circuit Switcher
Equipment Failure	Station Equip	Current Transformer
Equipment Failure	Station Equip	Disconnect Switch
Equipment Failure	Station Equip	Fuse / Cutout
Equipment Failure	Station Equip	Insulator
Equipment Failure	Station Equip	Motor Operated Disconnect
Equipment Failure	Station Equip	Other
Equipment Failure	Station Equip	Potential Transformer / Potential Transformer Fuse
Equipment Failure	Station Equip	Reactor
Equipment Failure	Station Equip	Regulator
Equipment Failure	Station Equip	Relay
Equipment Failure	Station Equip	SCADA / Programmable Logic Controller
Equipment Failure	Station Equip	Transformer / Load Tap Changer
Equipment Failure	Station Equip	Transformer Device
Equipment Failure	Station Equip	Unknown
Equipment Failure	Station Equip	Wire / Cable
General	External Entity	Customer
General	External Entity	Foreign Utility
General	External Entity	Other
General	Other	Associated Trip
General	Other	Cascading Event
General	Other	Insulator Flashover
General	Other	Power System Condition
General	Other	PSPS
General	Other	Under / Over-build
General	Other	Unknown
Human Factors	Design Error	Circuit Design
Human Factors	Design Error	Current Transformer Circuit
Human Factors	Design Error	Equip. Application
Human Factors	Design Error	Line Design
Human Factors	Design Error	Other
Human Factors	Design Error	Protection Scheme
Human Factors	Design Error	Relay Settings
Human Factors	Design Error	Wiring

Major Cause	Minor Cause	Detailed Cause
Human Factors	General Public	Car hit pole
Human Factors	General Public	Felled Tree
Human Factors	General Public	Fire / Smoke
Human Factors	General Public	Human Contact
Human Factors	General Public	Object Contact
Human Factors	General Public	Other
Human Factors	General Public	Sabotage
Human Factors	General Public	Underground Dig-in
Human Factors	General Public	Vandalism / Theft
Human Factors	Installation Error	Construction Plan
Human Factors	Installation Error	Contractor
Human Factors	Installation Error	Current Transformer Circuit
Human Factors	Installation Error	Line Crew
Human Factors	Installation Error	Other
Human Factors	Installation Error	Station Crew
Human Factors	Installation Error	Test Personnel
Human Factors	Installation Error	Test Procedure
Human Factors	Installation Error	Wiring
Human Factors	Operation Error	Close into ground
Human Factors	Operation Error	Contractor
Human Factors	Operation Error	Line Crew
Human Factors	Operation Error	Maintenance Testing
Human Factors	Operation Error	Other
Human Factors	Operation Error	Overload / Line Sag
Human Factors	Operation Error	Station Crew
Human Factors	Operation Error	Switching Error
Human Factors	Operation Error	UG Dig-In
Weather / Environment	Natural Causes	Animal Contact
Weather / Environment	Natural Causes	Earthquake
Weather / Environment	Natural Causes	Flood
Weather / Environment	Natural Causes	High Winds
Weather / Environment	Natural Causes	Lightning
Weather / Environment	Natural Causes	Other
Weather / Environment	Natural Causes	Snow / Ice
Weather / Environment	Natural Causes	Wildfire
Weather / Environment	Vegetation	Tree Failure
Weather / Environment	Vegetation	Tree Limb



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