The United Illuminating Company's
Transmission and Distribution System for 2025

Annual Report 2026

FINAL REPORT
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I. Executive Summary

This is the thirty-ninth annual submission of the Transmission and Distribution Reliability Performance (TDRP) report filed by The United Illuminating Company (UI) to the Connecticut Public Utilities Regulatory Authority ("PURA" or "Authority") as required by the Authority's Docket No. 86-12-03, Order No. 1. This report provides an assessment of the service reliability provided to UI's customers during the calendar year of 2025, as measured by the frequency and duration of service outages.

During the one-year period from January 1, 2025 to December 31, 2025, UI's achieved system average interruption frequency index (SAIFI) was 0.46. UI's achieved system average interruption duration index (SAIDI) was 35 minutes. The achieved customer average interruption duration index (CAIDI) was 76 minutes. The achieved All-in momentary average interruption frequency index (MAIFI) was 1.22. The availability of service index (ASAI) achieved for UI was 99.993%. The reliability statistics are shown in Table I.1 below.

Per Docket 15-07-38, "Joint Application of Iberdrola, S.A., Iberdrola USA, Inc., Iberdrola USA Networks, Inc., Green Merger Sub, Inc., and UIL Holdings Corporation for Approval of a Change of Control", Order 17, UI met with the Authority on April 11, 2016 to establish a methodology for determining SAIDI and SAIFI reliability commitments. As a result of that meeting, the performance commitments are based on the average of the four years preceding the merger, 2011 – 2014. The commitments are as follows: 66 minutes for SAIDI and 0.64 for SAIFI. As shown in Table I.1 below, the SAIFI and SAIDI reliability statistics for 2025 indicate an increase in reliability performance when compared to the average of the previous four years, and all indices are better than the merger commitments.

	SAIFI	SAIDI	CAIDI	MAIFI	ASAI
2021	0.46	40	86	-	99.993
2022	0.44	39	88	-	99.993
2023	0.58	43	74	-	99.992
2024	0.61	49	79	-	99.991
Four-Year Average ('21 – '24)	0.52	43	82	-	99.992
2025	0.46	35	76	0.88	99.993

Table I.1

	SAIFI IEEE-1366	SAIDI IEEE-1366	CAIDI IEEE-1366	MAIFI IEEE-1366
2021	0.51	44	86	-
2022	0.49	46	95	-
2023	0.62	50	80	-
2024	0.62	49	80	-
Four-Year Average (’21 – ’24)	0.56	47	85	-
2025	0.51	39	77	0.94

Table IV.2

There were six major storms during 2025. (Refer to Appendix 7, “Excluded Storm Summary”).

Aging infrastructure and tree related outages continue to be major concerns with regard to system performance. UI continuously reviews its standards and specifications to ensure the most cost-effective technologies and tree-trimming practices are being utilized to maintain a high level of reliability. As a result, the Company takes proactive measures to manage this concern and potential risks. These measures include executing the scope of aging infrastructure replacement programs, continued implementation of Enhanced Tree Trimming (ETT) practices using a Utility Protection Zone (UPZ) and expanding inspection and analysis capabilities to provide the decision-making framework for future investment.

II. Introduction

This is the thirty-ninth annual submission of the Transmission and Distribution Reliability Performance (TDRP) report filed by The United Illuminating Company ("UI" or "Company") to the Connecticut Public Utilities Regulatory Authority ("PURA" or "Authority") as required by the Authority's Docket No. 86-12-03, Order No. 1. This report provides an assessment of the service reliability provided to UI's customers during calendar year 2025, as measured by the frequency and duration of service outages.

There are changes the Authority will note in this filing to years' prior as this TDRP filing has been restructured to both meet the requirements of the 17-12-03RE08 Final Order from August 2021 as well as make more comprehensive sense for the reader. There are changes to the submitted appendices as well; historically blank appendices have been eliminated and new appendices added to provide required data and Authority requested tables. Finally, the appendices have been reordered for categorical clarity.

Changes can be seen starting at Section IV with the addition of new reliability metrics. Following the new Section IV, UI has added additional tables for CEMI, CELID, CEMM, and CEMSMI metrics. This section includes CEMI and CELID calculations based on primary vs. secondary breakdowns, repeat CEMI-5 and CELID-6 customers, as well as All-In SAIDI. The previous Sections VI and VII have been consolidated into a comprehensive *Reliability Improvement Programs Impact & Budget* section, which includes the programs sorted based on the reliability driver category. Power Quality and Equitable Modern Grid Initiatives Sections have been added to the TDRP report prior to the Summary (now Section X.). A new Appendix 19 was added for the Power Restoration After Major Storms Metric sub-metrics.

III. Description of UI's Geographic Area

The United Illuminating Company is located in the southwest region of Connecticut along the Long Island Sound. UI serves approximately 349,000 customers in the seventeen towns surrounding the principal cities of New Haven and Bridgeport. (Refer to Appendix 3, "Customers Served"). The service territory is approximately 335 square miles, equal to approximately 7% of the state's total geographical area. The 2025 peak load was 1,282 MW, established on July 29, 2025. Appendix 1 contains a map illustrating UI's territory as it is situated in the state and the municipalities that UI serves.

To serve its customers in 2025, the Company maintained a total of 31 substations. This list includes both customer and generator interconnects. It does not include taps, transmission line equipment, or private stations. The last remaining 13.8/4.16 kV distribution substation, Whitney Ave, was decommissioned in 2025 and is not included in this count. The breakdown is as follows:

- 24 - 115/13.8 kV bulk distribution substations with a capacity of 1,948 MVA
- 1 - 345/115/13.8 kV substation with a capacity of 1,172 MVA
- 3 - 115 kV transmission switching stations
- 1 - 345/115 kV transmission substation
- 1 - 115 kV generator interconnection station
- 1 - 115 kV interconnection station to railroad owned 115/26.4 kV

The Company has approximately 3,281 pole-line miles of overhead distribution lines (single phase, three phase, and secondary), 226 miles of underground conduit banks and 766 miles of underground primary cables, (single phase and three phase), consisting of direct-buried as well as underground duct and splicing chamber construction. The majority of the distribution system load is fed at 13,800 volts. (A list of circuits is contained in Appendix 10: "Excel File of Substation/Circuit Reliability Data for the Year 2025"). The downtown areas of New Haven and Bridgeport are supplied by underground network systems with interconnected secondary cables (208Y/120 volt) designed primarily for high density urban areas. Some of the larger downtown loads are supplied by 480Y/277-volt systems that are not interconnected and are called "spot networks."

The UI transmission system consists of approximately 110 circuit miles of overhead lines and approximately 29 circuit miles of underground lines, all operated at 345 kV or 115 kV and substantially located within or immediately adjacent to the territory served by UI.

A summary of the conductor types used in the UI system is found in Appendix 4. This table contains mileage of conductor types categorized by voltage level. Complete definitions of each conductor type can be found in the Glossary, Appendix 2.

The Company's service area is composed of urban, suburban, and, to a lesser extent, rural areas. The urban areas are located in the downtown centers of Bridgeport and New Haven, as well as in the smaller downtown areas of Fairfield, Shelton, Derby, Ansonia, Stratford, Milford, West Haven, Hamden, and East Haven.

The remaining service area is almost entirely suburban and is in the towns of Easton, North Branford, North Haven, Orange, Trumbull, and Woodbridge. Most of UI's commercial customers occupy land adjoining the major intercity highways, such as US #1 from Fairfield to East Haven, Route #8 from Bridgeport to Ansonia, US #5 from New Haven to North Haven and Route #10 from New Haven to Hamden. Most of the large industrial customers are situated along the Metro North right-of-way on the shoreline, and into the Housatonic and Quinnipiac River Valleys.

Almost all of the non-commercial areas are suburban residential tracts. Except for scattered farms in North Haven, North Branford, and Orange, and state and local park lands, the only true rural area left in the service territory is in Easton. Much of the rural, suburban, and residential areas just outside the urban centers are heavily treed.

Service reliability is of utmost importance for all our customers. Industrial and commercial customers need high reliability for their processes and operations. Service reliability, without question, is of vital importance to the viability of our customers, the Company, and the local economy. In particular, the very existence of our commercial and industrial customers, which comprise approximately 55% of our sales base, depends on UI’s ability to provide reliable service.

UI’s MWh sales mix for the period 2023 – 2026 is shown below in Table III.1.

Customer Class	2023 Actuals (%)	2024 Actuals (%)	2025 Actuals (%)	2026 Forecast (%)
Residential	43.21	43.41	44.15	45.47
Industrial	7.97	7.78	7.36	7.53
Commercial	48.36	48.37	48.05	46.60
Street Lighting	0.46	0.44	0.43	0.40
Total	**100.00**	**100.00**	**100.00**	**100.00**

Table III.1

IV. Reliability Performance in 2025

UI's achieved system average interruption frequency index (SAIFI) was 0.46, an indication of an improvement in reliability performance as compared to the average of the previous four years. UI's achieved system average interruption duration index (SAIDI) was 35 minutes, representing an eight-minute improvement relative to the average of the previous four years. The achieved customer average interruption duration index (CAIDI) was 76 minutes, representing a six-minute improvement relative to the average of the previous four years. UI achieved an All-in momentary average interruption frequency index (MAIFI) of 1.22. The availability of service index (ASAI) achieved for UI was 99.993%.

The reliability statistics shown in Table IV.1 below indicate that the 2025 SAIFI and SAIDI were better than the reliability performance goals set-forth within the merger commitments based on current calculation structures. Table IV.2 reflects, as Table IV.1, that the 2025 SAIFI and SAIDI were better than the reliability performance goals set-forth within the merger commitments based on the IEEE-1366 Major Storm Classification methodology. This impact is outlined in Chart IV-1.2 System Average Interruption Frequency Index (2021–2025).

Per Docket 15-07-38, "Joint Application of Iberdrola, S.A., Iberdrola USA, Inc., Iberdrola USA Networks, Inc., Green Merger Sub, Inc., and UIL Holdings Corporation for Approval of a Change of Control", Order 17, UI met with the Authority on April 11, 2016 to establish a methodology for determining SAIDI and SAIFI reliability commitments. As a result of that meeting, the performance commitments are based on the average of the four years preceding the merger, 2011 – 2014. The commitments are as follows: 66 minutes SAIDI, 0.64 SAIFI.

	SAIFI	SAIDI	CAIDI	MAIFI	ASAI
2021	0.46	40	86	-	99.993
2022	0.44	39	88	-	99.993
2023	0.58	43	74	-	99.992
2024	0.61	49	79	-	99.991
Four-Year Average ('21 – '24)	0.52	43	82	-	99.992
2025	0.46	35	76	0.88	99.993

Table IV.1

As can be seen from Table IV.1, UI's reliability performance for 2025 based upon SAIDI and SAIFI indices meet and exceed the merger commitment goals.

	SAIFI IEEE-1366	SAIDI IEEE-1366	CAIDI IEEE-1366	MAIFI IEEE-1366
2021	0.51	44	86	-
2022	0.49	46	95	-
2023	0.62	50	80	-
2024	0.62	49	80	-
Four-Year Average ('21 – '24)	0.56	47	85	-
2025	0.51	39	77	0.94

Table IV.2

As shown on Table IV.1, the CAIDI performance in 2025 was 76 minutes. The CAIDI goal as derived from the SAIDI and SAIFI merger performance commitment goals is 103 minutes. One driver for the CAIDI performance in 2025 is due to the continued proactive reliability–focused Company practices. These practices include: troubleshooter staffing and schedule modification, as warranted, the deployment of additional isolating devices in order to improve partial restoration capabilities, and system dispatcher training in the utilization of fault data analytics in order to assist in the determination of fault location.

Table IV.3 below presents CAIDI year-by-year targets for the next four years. These targets are calculated based on the Company's performance commitments for SAIDI and SAIFI.

	CAIDI Target (Minutes)
2026	103
2027	103
2028	103
2029	103

Table IV.3

As can be seen in Appendix 5, "Reliability Performance against Goals," UI continues to provide its customers with highly reliable electric service. All indices indicate that UI's customers are generally receiving adequate service, which meets or exceeds the levels set by the Company's Reliability Criteria.

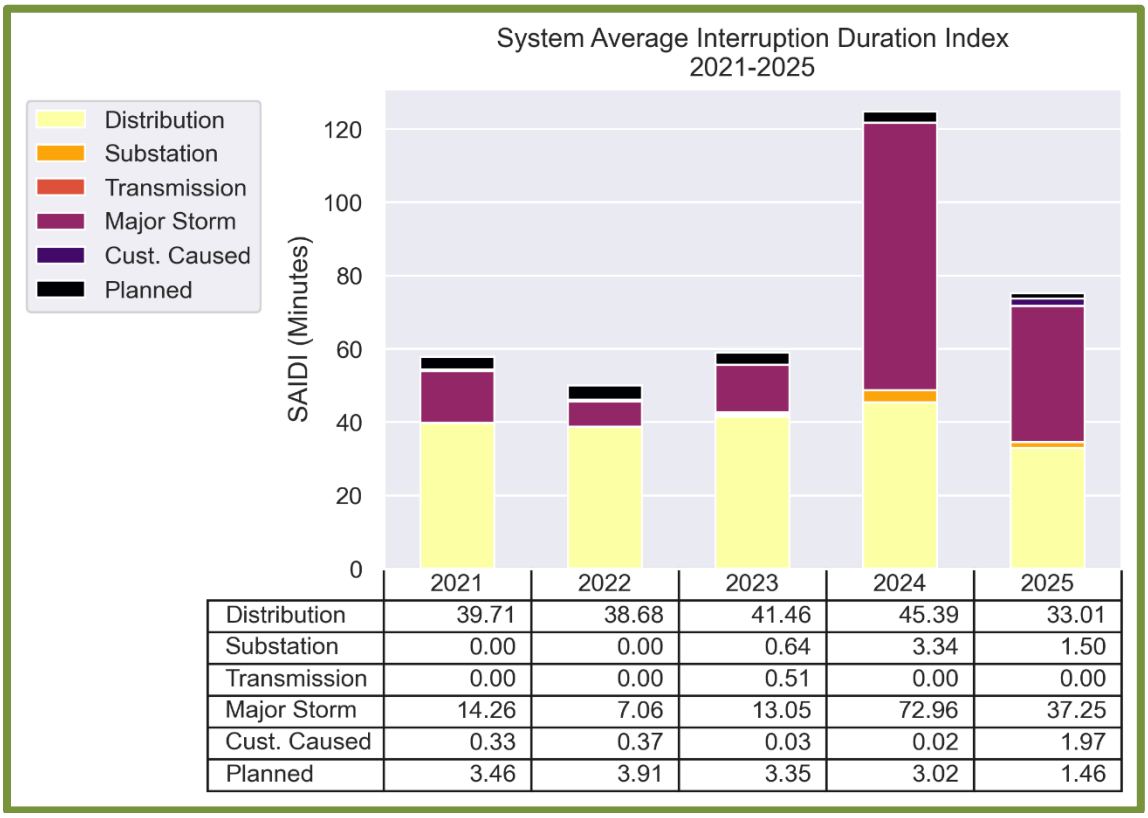
Per the Department's definition of "major storms", there were six "major storms" during 2025 as defined by Docket 86-12-03 (see Appendix 7: Excluded Storm Summary).

In compliance with PURA's Final Decision dated May 15, 2019 on Docket Number 18-05-13: PURA 2018 Reliability Report to the General Assembly on Electric Distribution Company System

Reliability, Order 1 states: “Each year, the EDC shall update the Table on its Response to Interrogatory EL-4 and file it with its annual TDRP Report”.

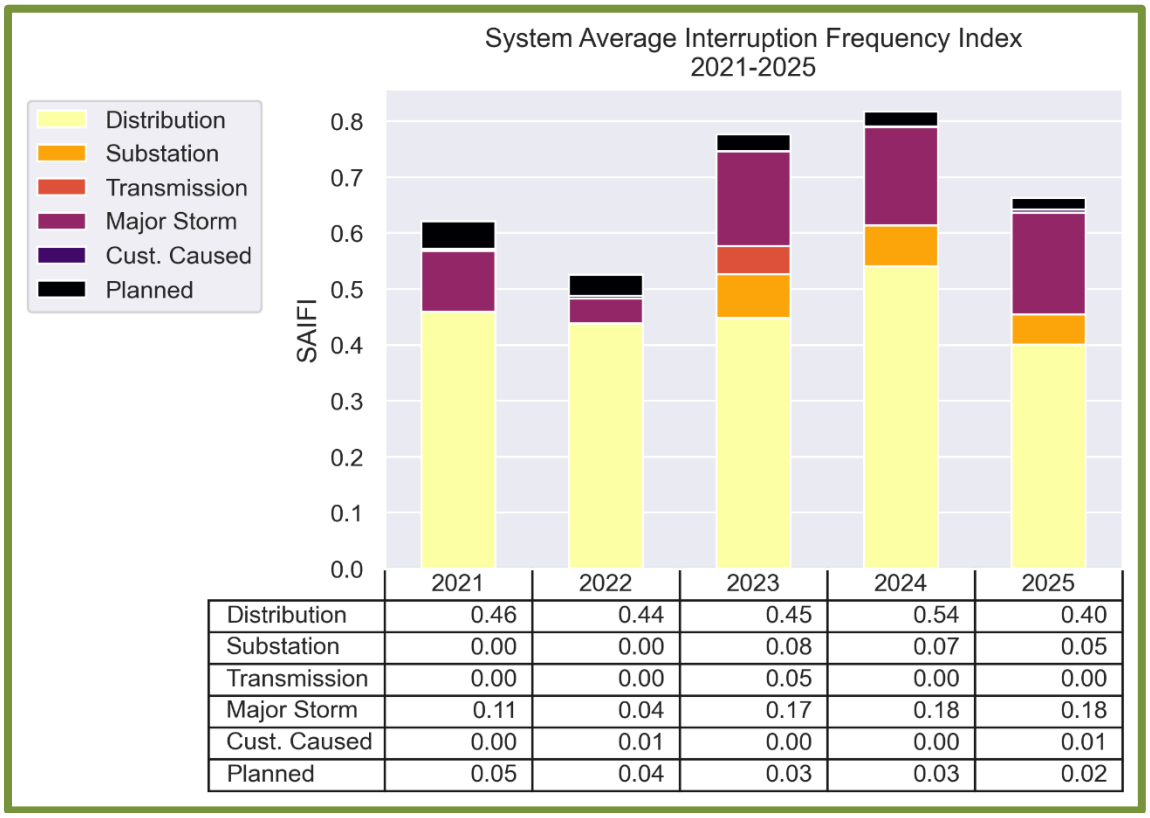
The updated major storm information noted in Order 1 is provided in Appendix 9.

Charts IV-1.1: System Average Interruption Duration Index (2021-2025) and IV-1.2: System Average Interruption Frequency Index (2021-2025) are shown on the next two pages. These charts illustrate calendar year 2025 and previous years' SAIDI and SAIFI indices categorized by outage type. Coupled with Appendix 5, “Reliability Performance against Goals,” 2025 reliability performance can be "benchmarked" against past performance.



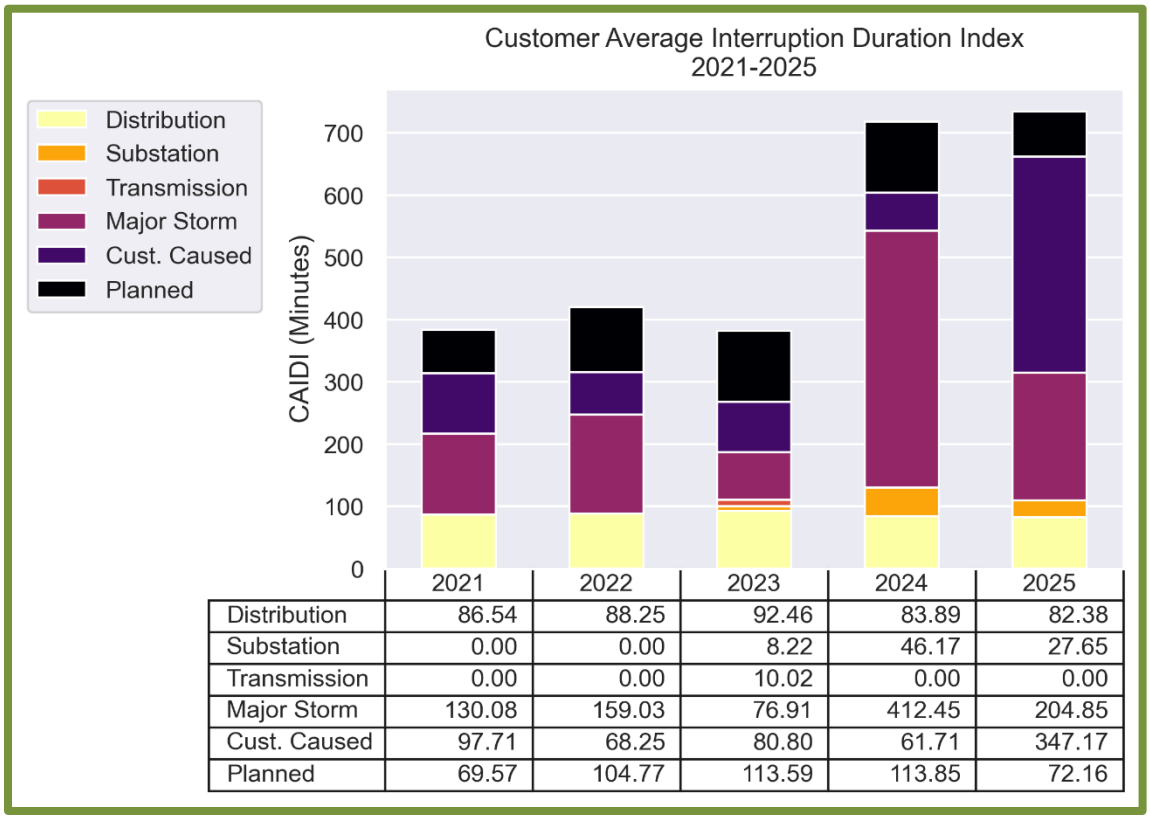
	2021	2022	2023	2024	2025
Distribution	39.71	38.68	41.46	45.39	33.01
Substation	0.00	0.00	0.64	3.34	1.50
Transmission	0.00	0.00	0.51	0.00	0.00
Major Storm	14.26	7.06	13.05	72.96	37.25
Cust. Caused	0.33	0.37	0.03	0.02	1.97
Planned	3.46	3.91	3.35	3.02	1.46

Chart IV-1.1 System Average Interruption Duration Index (2021–2025)



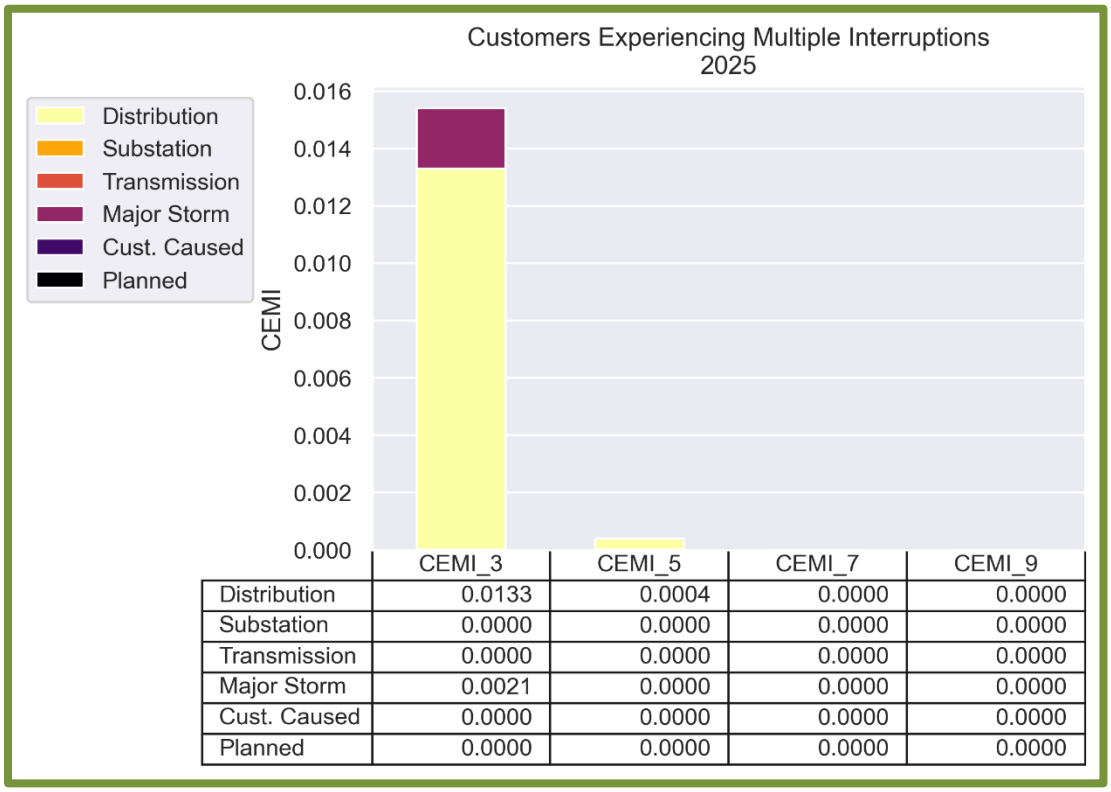
	2021	2022	2023	2024	2025
Distribution	0.46	0.44	0.45	0.54	0.40
Substation	0.00	0.00	0.08	0.07	0.05
Transmission	0.00	0.00	0.05	0.00	0.00
Major Storm	0.11	0.04	0.17	0.18	0.18
Cust. Caused	0.00	0.01	0.00	0.00	0.01
Planned	0.05	0.04	0.03	0.03	0.02

Chart IV-1.2 System Average Interruption Frequency Index (2021–2025)



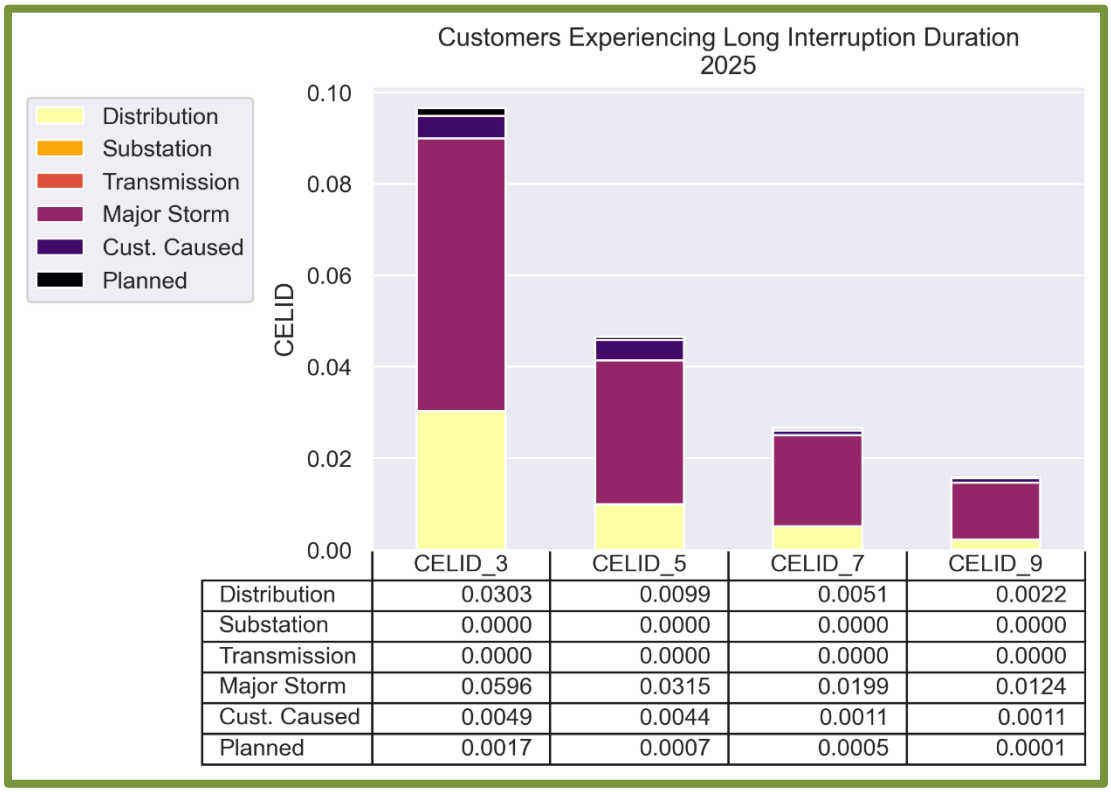
	2021	2022	2023	2024	2025
Distribution	86.54	88.25	92.46	83.89	82.38
Substation	0.00	0.00	8.22	46.17	27.65
Transmission	0.00	0.00	10.02	0.00	0.00
Major Storm	130.08	159.03	76.91	412.45	204.85
Cust. Caused	97.71	68.25	80.80	61.71	347.17
Planned	69.57	104.77	113.59	113.85	72.16

Chart IV-1.3 Customer Average Interruption Duration Index (2021–2025)



	CEMI_3	CEMI_5	CEMI_7	CEMI_9
Distribution	0.0133	0.0004	0.0000	0.0000
Substation	0.0000	0.0000	0.0000	0.0000
Transmission	0.0000	0.0000	0.0000	0.0000
Major Storm	0.0021	0.0000	0.0000	0.0000
Cust. Caused	0.0000	0.0000	0.0000	0.0000
Planned	0.0000	0.0000	0.0000	0.0000

Chart IV-1.4 Customers Experiencing Multiple Interruptions (2025)



	CELID_3	CELID_5	CELID_7	CELID_9
Distribution	0.0303	0.0099	0.0051	0.0022
Substation	0.0000	0.0000	0.0000	0.0000
Transmission	0.0000	0.0000	0.0000	0.0000
Major Storm	0.0596	0.0315	0.0199	0.0124
Cust. Caused	0.0049	0.0044	0.0011	0.0011
Planned	0.0017	0.0007	0.0005	0.0001

Chart IV-1.5 Customers Experiencing Long Interruption Duration (2025)

Per Docket No. 17-12-03RE08, UI is to include reliability metrics calculated with and without the inclusion of major storms and planned outages in its annual report. Table IV.4 below provides the SAIDI, SAIFI, CAIDI, MAIFI, CEMI, CELID, CEMM, and CEMSMI values for 2025. The four customer-centric metrics are further segmented into tranches of three or more, five or more, seven or more, and nine or more.

	Excluding Major Storm & Planned	Excluding Major Storm	Including Major Storm	All Outages
SAIDI	35	36	72	73
SAIFI	0.46	0.48	0.64	0.66
CAIDI	76	76	113	111
MAIFI	0.88	0.89	1.22	1.22
CEMI-3	0.0239	0.0268	0.0465	0.0507
CEMI-5	0.0005	0.0007	0.0027	0.0030
CEMI-7	0.0000	0.0000	0.0003	0.0004
CEMI-9	0.0000	0.0000	0.0000	0.0000
CELID-3	0.0304	0.0318	0.0875	0.0889
CELID-5	0.0100	0.0107	0.0409	0.0416
CELID-7	0.0051	0.0056	0.0249	0.0254
CELID-9	0.0022	0.0023	0.0146	0.0147
CEMM-3	0.0957	0.0961	0.1605	0.1609
CEMM-5	0.0184	0.0186	0.0352	0.0355
CEMM-7	0.0061	0.0061	0.0112	0.0113
CEMM-9	0.0037	0.0037	0.0057	0.0057
CEMSMI-3	0.1680	0.1736	0.2668	0.2723
CEMSMI-5	0.0417	0.0435	0.0843	0.0866
CEMSMI-7	0.0103	0.0109	0.0241	0.0253
CEMSMI-9	0.0050	0.0051	0.0103	0.0105

Table IV.4

Per Docket No. 24-08-09, UI is to report on the number of CEMI-3, CEMI-5, CEMI-7, CELID-3, CELID-6, CELID-9, and CELID-12 customers as a ratio of total customers served consistent with the IEEE-1366 standard. The CEMI and CELID data are to both include and exclude major storms. Both the IEEE-1366 (Major Event Day) and General Statutes § 16-245y(a) (major storms, scheduled interruptions, power supply outages, and customer-caused) methodologies are to be utilized. Additionally, the CEMI and CELID data is to be broken out by outages on the secondary and primary distribution system, both separately and as a whole. A four-year rolling average of CEMI and CELID interruptions from the four years preceding the year in question is also to be included.

Table IV.5 below lists a breakdown of primary vs. secondary classification based on outage voltage descriptions.

Voltage Description	Primary / Secondary
Secondary	Secondary
Service	Secondary
Net 120/208V	Secondary
Net 277/480V	Secondary
2.4kV	Primary
4.16kV	Primary
13.8kV	Primary
115kV	Primary
345kV	Primary
Sub 2.4/4kV	Primary
Sub 13.8kV	Primary

Table IV.5

Table IV.6 below gives the CEMI and CELID breakdown for 2025 and four-year rolling average per Docket No. 24-08-09.

		All-In		IEEE-1366		Non-Excluded	
Primary / Secondary	**KPI**	**2025**	**Average ('21 – '24)**	**2025**	**Average ('21 – '24)**	**2025**	**Average ('21 – '24)**
Primary	CEMI-3	0.0480	0.0513	0.0239	0.0366	0.0228	0.0322
	CEMI-5	0.0027	0.0083	0.0014	0.0035	0.0004	0.0029
	CEMI-7	0.0004	0.0005	0.0002	0.0004	0.0000	0.0004
	CELID-3	0.0866	0.0756	0.0338	0.0523	0.0291	0.0444
	CELID-6	0.0299	0.0271	0.0086	0.0132	0.0072	0.0109
	CELID-9	0.0139	0.0136	0.0021	0.0048	0.0020	0.0033
	CELID-12	0.0087	0.0096	0.0009	0.0018	0.0008	0.0010
Secondary	CEMI-3	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	CEMI-5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	CEMI-7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	CELID-3	0.0026	0.0021	0.0014	0.0015	0.0012	0.0013
	CELID-6	0.0011	0.0007	0.0005	0.0006	0.0003	0.0005
	CELID-9	0.0008	0.0004	0.0003	0.0003	0.0002	0.0003
	CELID-12	0.0004	0.0002	0.0001	0.0001	0.0001	0.0001
Both	CEMI-3	0.0507	0.0539	0.0255	0.0378	0.0238	0.0331
	CEMI-5	0.0030	0.0086	0.0015	0.0036	0.0005	0.0030
	CEMI-7	0.0004	0.0006	0.0003	0.0004	0.0000	0.0004
	CELID-3	0.0889	0.0773	0.0352	0.0536	0.0303	0.0456
	CELID-6	0.0310	0.0278	0.0090	0.0138	0.0075	0.0114
	CELID-9	0.0147	0.0140	0.0024	0.0051	0.0022	0.0036
	CELID-12	0.0091	0.0098	0.0010	0.0019	0.0009	0.0012

Table IV.6

IEEE-1366 removes the following:

- Scheduled Outages
- Major Event Days

Non-Excluded removes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

Per Docket No. 21-05-15RE02, the revised proposal for the Equitable Reliability PIM is comprised of the following four sub-metrics: (1) CEMI 5; (2) Percent of repeat CEMI 5 customers; (3) CELID 6; (4) Percent of repeat CELID 6 customers. The CEMI 5 and CELID 6 sub-metrics shall be calculated as directed in Order Nos. 1 and 2, respectively, of the 2024 Reliability and Resilience Decision. The percent of repeat CEMI 5 customers shall be calculated as the number of CEMI 5 customers who appear on the CEMI 5 lists for both the current year and the prior year divided by the total number of CEMI 5 customers in the current year. The percent of repeat CELID 6 customers shall be calculated as the number of CELID 6 customers who appear on the CELID 6 lists for both the current year and the prior year divided by the total number of CELID 6 customers in the current year.

Table IV.7 below lists the CEMI-5 and CELID-6 breakdown of current and repeating customers.

Method	Year	CEMI-5	Repeat CEMI-5	CELID-6	Repeat CELID-6	Average
All-In	2025	0.0030	0.3365	0.0310	0.2323	0.1507
	2024	0.0122	0.3873	0.0605	0.0564	0.1291
	2023	0.0150	0.0245	0.0163	0.0666	0.0306
	2022	0.0044	0.1039	0.0171	0.0374	0.0407
	2021	0.0027	0.1665	0.0173	0.4848	0.1678
	2020	0.0229	0.0667	0.3550	0.1095	0.1385
IEEE-1366	2025	0.0015	0.6277	0.0090	0.0500	0.1720
	2024	0.0038	0.2681	0.0092	0.0628	0.0860
	2023	0.0059	0.0534	0.0153	0.0709	0.0364
	2022	0.0031	0.1382	0.0164	0.0348	0.0481
	2021	0.0014	0.0000	0.0141	0.0629	0.0196
	2020	0.0064	0.0042	0.0127	0.0237	0.0118
Non-Excluded	2025	0.0005	0.6000	0.0075	0.0588	0.1667
	2024	0.0037	0.2719	0.0090	0.0615	0.0865
	2023	0.0058	0.0305	0.0109	0.0456	0.0232
	2022	0.0013	0.0131	0.0141	0.0243	0.0132
	2021	0.0012	0.0000	0.0118	0.0372	0.0125
	2020	0.0055	0.0005	0.0087	0.0071	0.0055

Table IV.7

IEEE-1366 removes the following:

- Scheduled Outages
- Major Event Days

Non-Excluded removes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

Per Docket No. 21-05-15RE02, the Authority maintains its Original Straw Proposal recommendation to include an All-in SAIDI Scorecard in the PBR Performance Mechanism portfolio. This additional scorecard provides a high-level view of each of the EDC's resilience performance by showing the duration of service interruptions across all weather conditions. The Authority suggests that the All-in SAIDI calculation should follow the IEEE methodology, including all weather events but excluding loss of supply and customer-side events. The Authority also proposes two benchmarks for the All-in SAIDI scorecard, both a 10-year historical rolling average and a five-year historical rolling.

Table IV.8 below lists the historical All-in SAIDI following the IEEE methodology.

Year	SAIDI (Minutes)	5-Year Average SAIDI (Minutes)	10-Year Average SAIDI (Minutes)
2025	71	317	226
2024	125	333	220
2023	58	375	222
2022	50	381	494
2021	57	385	676
2020	1293	136	581

Table IV.8

UI's All-in SAIDI values are heavily skewed by major storms. The calculated values from Table IV.8 include major storms that date back all the way to 2010. Chart IV.6 below gives more insight into this. While 2018 had the greatest number of storm days in a single year at 22, the total customer hours impacted was negligible compared to other years. The most notable storms in this range include Tropical Storm Isaias in 2020 (7-day UI storm totaling around 6,435,808-meter hours affected), Hurricane Sandy in 2012 (9-day UI storm totaling around 14,215,106-meter hours affected), and Tropical Storm Irene in 2011 (6-day UI storm totaling around 8,579,929-meter hours affected). The 10-Year averages start seeing significant drops once some of these respective years start falling off.

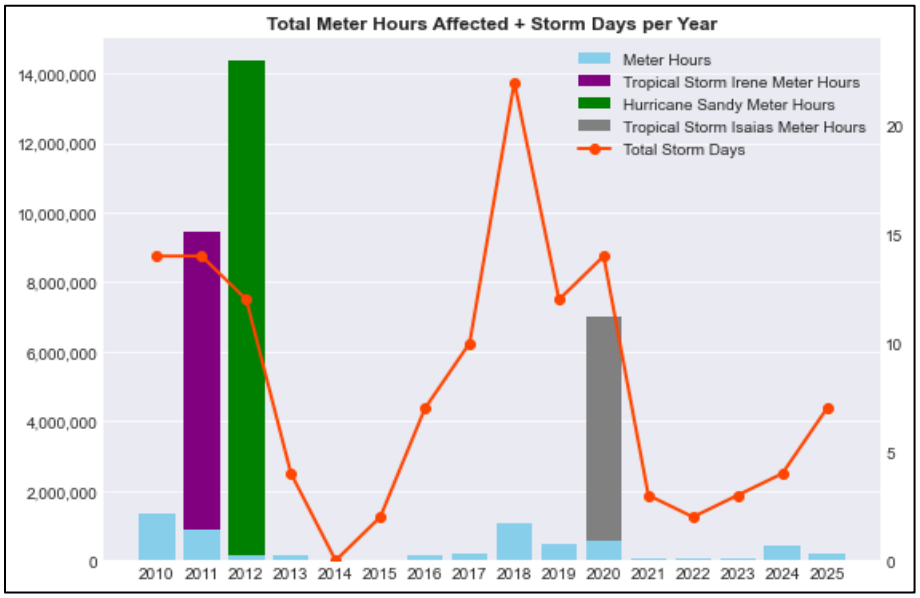


Chart IV-2 – Total Meter Hours Affected + Storm Days per Year

V. Blue-Sky, Gray-Sky, Blue-Sky + Gray-Sky, and Dark-Sky (All-In) Performance

		Blue-Sky	Planned	Gray-Sky	Blue + Gray-Sky	Dark-Sky	All-In
2021	SAIDI	0.66	0.06	0.24	0.90	0.00	0.96
	SAIFI	0.46	0.05	0.11	0.57	0.00	0.62
	CAIDI	1.44	1.16	2.17	1.58	0.00	1.55
2022	SAIDI	0.64	0.07	0.12	0.76	0.00	0.83
	SAIFI	0.44	0.04	0.04	0.48	0.00	0.53
	CAIDI	1.47	1.75	2.65	1.58	0.00	1.59
2023	SAIDI	0.71	0.06	0.22	0.93	0.00	0.98
	SAIFI	0.58	0.03	0.17	0.75	0.00	0.78
	CAIDI	1.23	1.89	1.28	1.24	0.00	1.27
2024	SAIDI	0.81	0.05	1.22	2.03	0.00	2.08
	SAIFI	0.61	0.03	0.18	0.79	0.00	0.82
	CAIDI	1.32	1.90	6.87	2.57	0.00	2.54
2025	SAIDI	0.58	0.02	0.62	1.20	0.00	1.22
	SAIFI	0.46	0.02	0.18	0.64	0.00	0.66
	CAIDI	1.26	1.20	3.41	1.88	0.00	1.86

Table V.1

IEEE-1366 Blue-Sky, Gray-Sky, Blue-Sky + Gray-Sky, and Dark-Sky*

		Blue-Sky	Gray-Sky	Blue + Gray-Sky	Dark-Sky
2021	SAIDI	0.66	0.07	0.73	0.17
	SAIFI	0.46	0.05	0.51	0.06
	CAIDI	1.44	1.33	1.43	2.91
2022	SAIDI	0.65	0.12	0.77	0.00
	SAIFI	0.44	0.04	0.49	0.00
	CAIDI	1.47	2.65	1.57	0.00
2023	SAIDI	0.71	0.12	0.83	0.10
	SAIFI	0.58	0.05	0.62	0.12
	CAIDI	1.23	2.64	1.34	0.77
2024	SAIDI	0.81	0.01	0.82	1.21
	SAIFI	0.61	0.00	0.62	0.17
	CAIDI	1.32	2.40	1.33	6.96
2025	SAIDI	0.58	0.08	0.65	0.54
	SAIFI	0.46	0.05	0.51	0.13
	CAIDI	1.26	1.51	1.29	4.15

Table V.2

*IEEE-1366 calculation excludes planned outages

VI. Causes of Outages

The causes of service interruptions have been classified into five categories in accordance with Docket 86-12-03, Order 1.b. These categories are as follows:

1. Forced Transmission & Power Supply Related Outages
2. Scheduled or Prearranged Outages for Maintenance & Construction
3. Major Storm Related Outages
4. Customer Caused Outages
5. Distribution System

The components of the "Distribution System", (“All Others”) category is as follows:

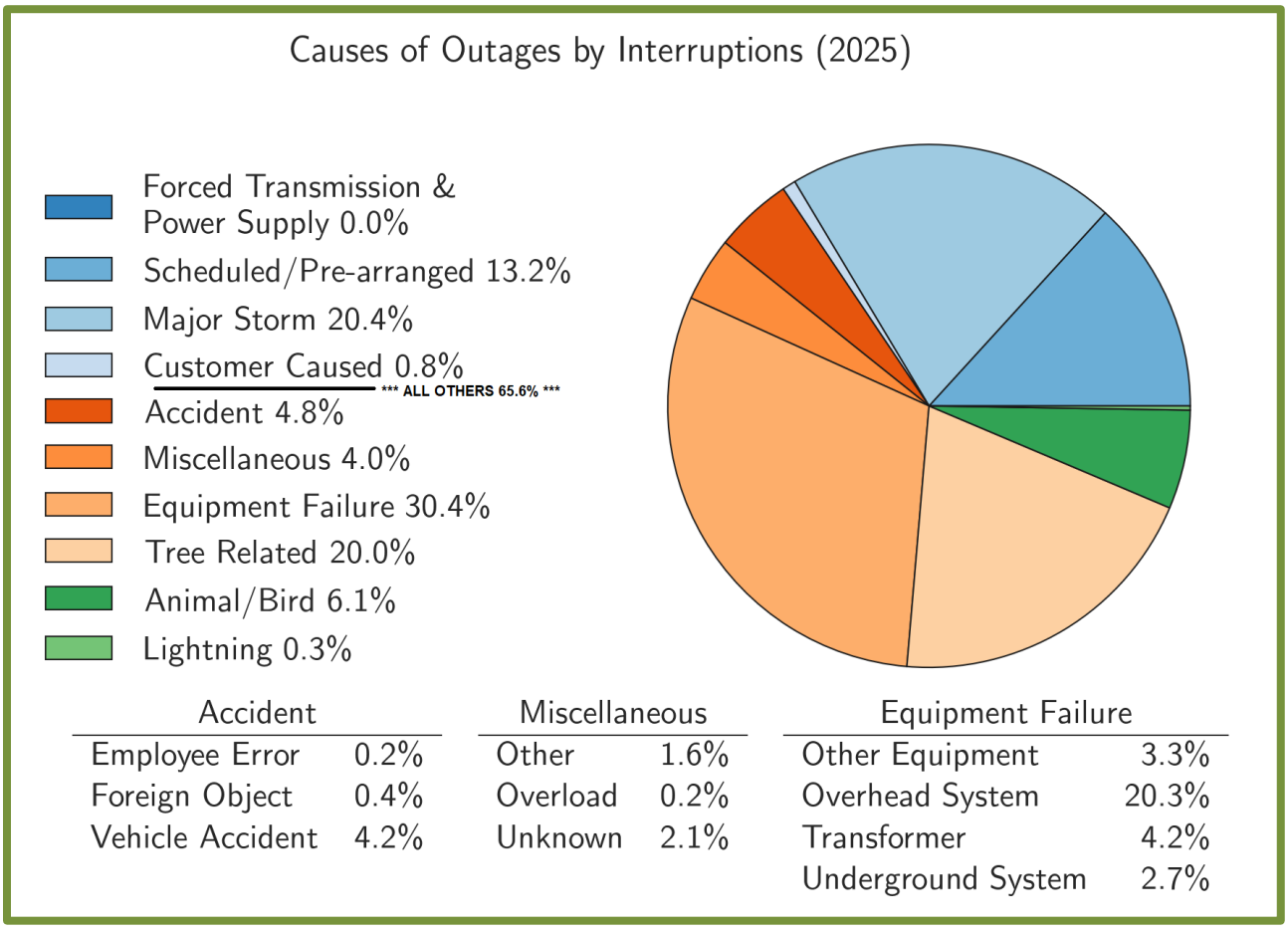
- Animal/Bird Contact
- Lightning
- Tree Contact
- Accident
  a. Vehicle
  b. Foreign Objects
  c. Employee Error
- Equipment Failure
  a. Overhead System
  b. Underground Cable
  c. Direct-Buried Cable
  d. Transformer
  e. Substation
  f. Transmission
  g. Other Equipment
- Miscellaneous
  a. Overload
  b. Other
  c. Unknown

Detailed definitions of the categories are in Appendix 12: “Common Categories for Causes of Outages”

Percentage of outages caused by each category can be seen below on Charts V-1.1 and 1.2, V-2.1 and 2.2, and V-3.1 and 3.2. As is evident from these charts, excluding major storms, the category "All Others," which corresponds to "Distribution System," contains the majority of customer interruptions and lost meters. Lost meter-time can be greatly affected by major storms; barring a

major storm, lost meter-time is also affected to the greatest degree by the "Distribution System" category.

Cause of Outages
2025
By Interruptions



Accident		Miscellaneous		Equipment Failure	
Employee Error	0.2%	Other	1.6%	Other Equipment	3.3%
Foreign Object	0.4%	Overload	0.2%	Overhead System	20.3%
Vehicle Accident	4.2%	Unknown	2.1%	Transformer	4.2%
				Underground System	2.7%

Chart VI-1.1 - Causes of Outages by Interruptions (2025)

Cause of Outages
2021 - 2024
By Interruptions

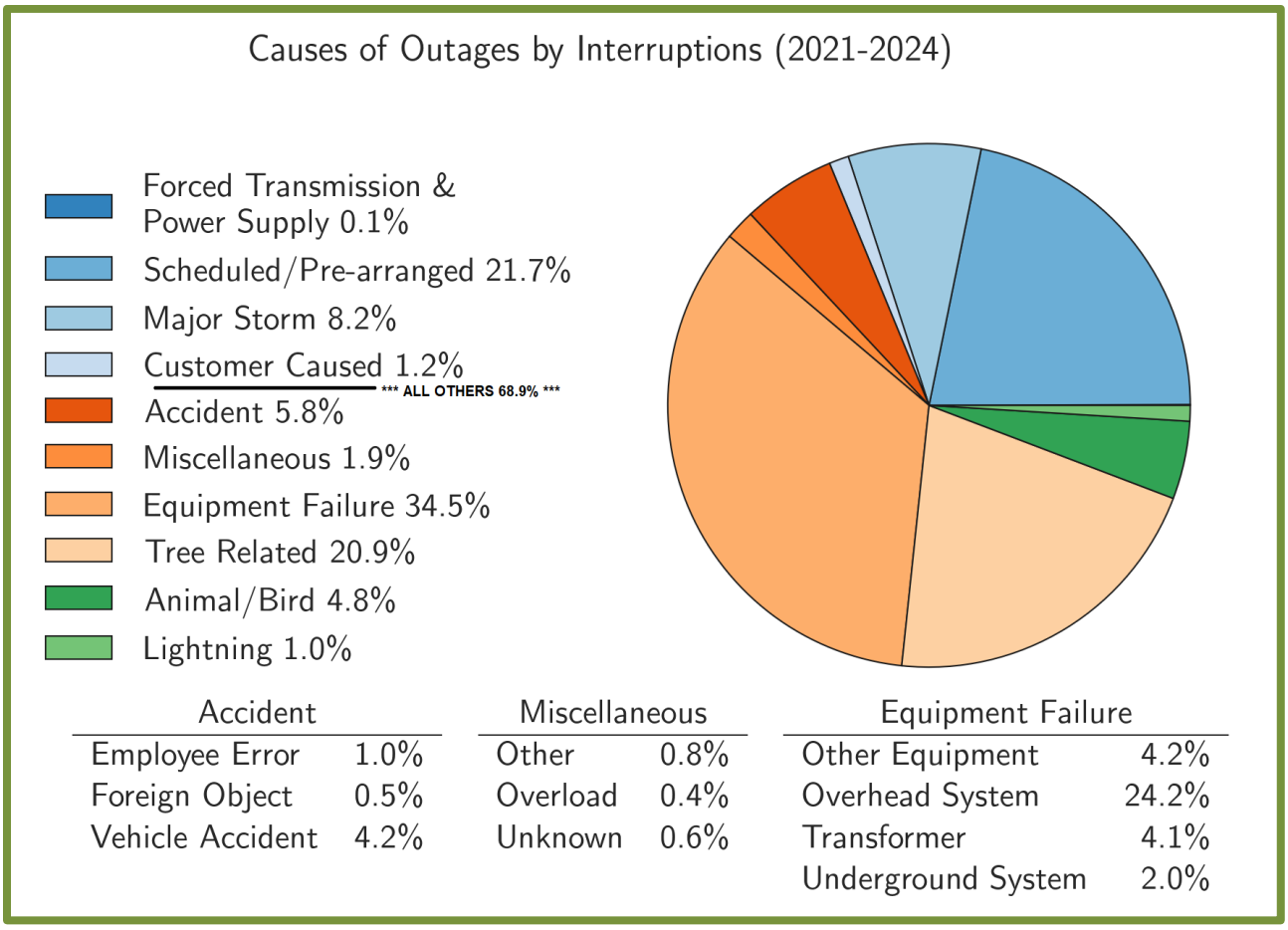


Chart VI-1.2 - Causes of Outages by Interruptions (2021 - 2024)

Cause of Outages
2025
By Meter Outages

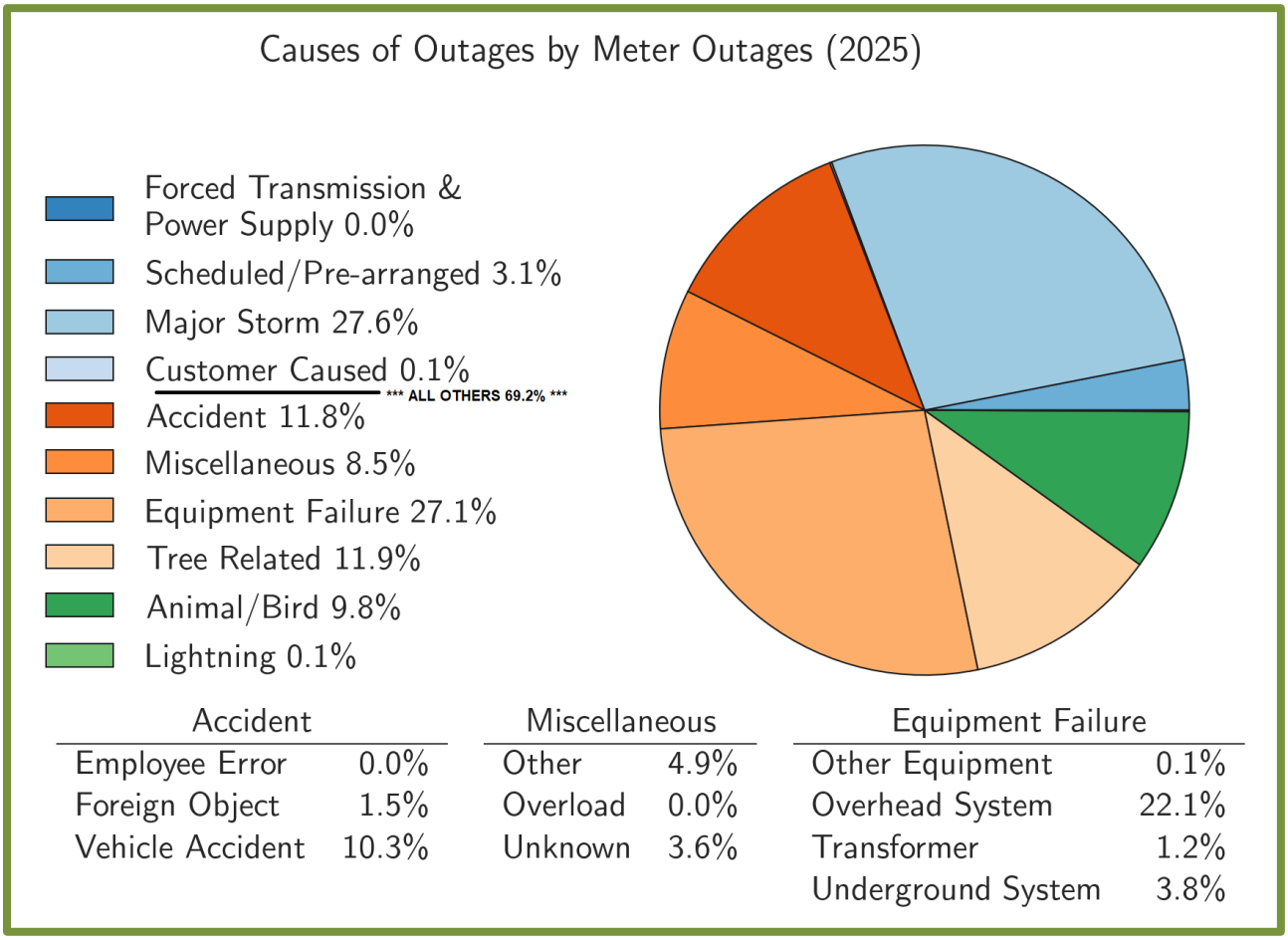
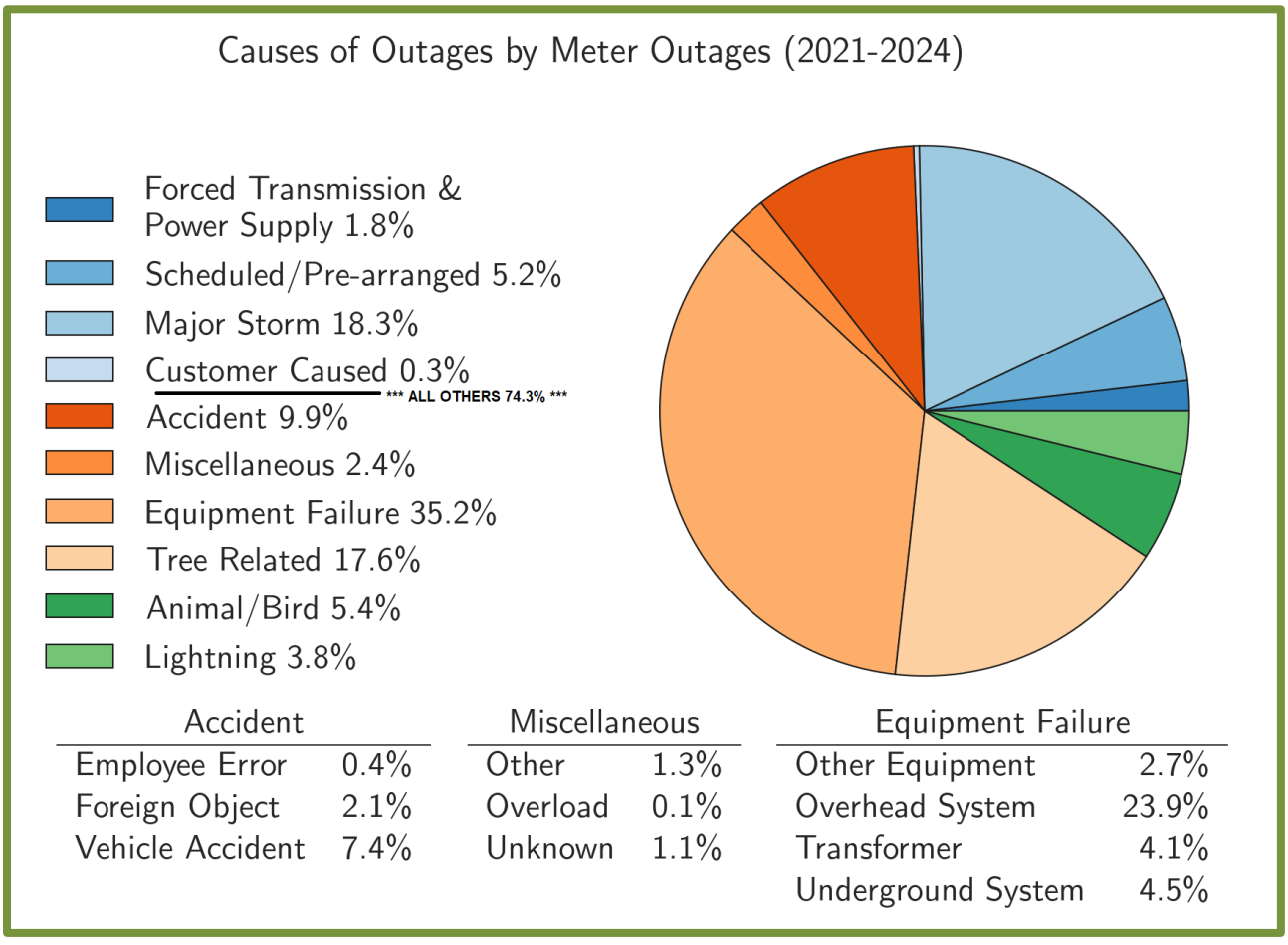


Chart VI-2.1 - Causes of Outages by Meter Outages (2025)

Cause of Outages
2021 - 2024
By Meter Outages



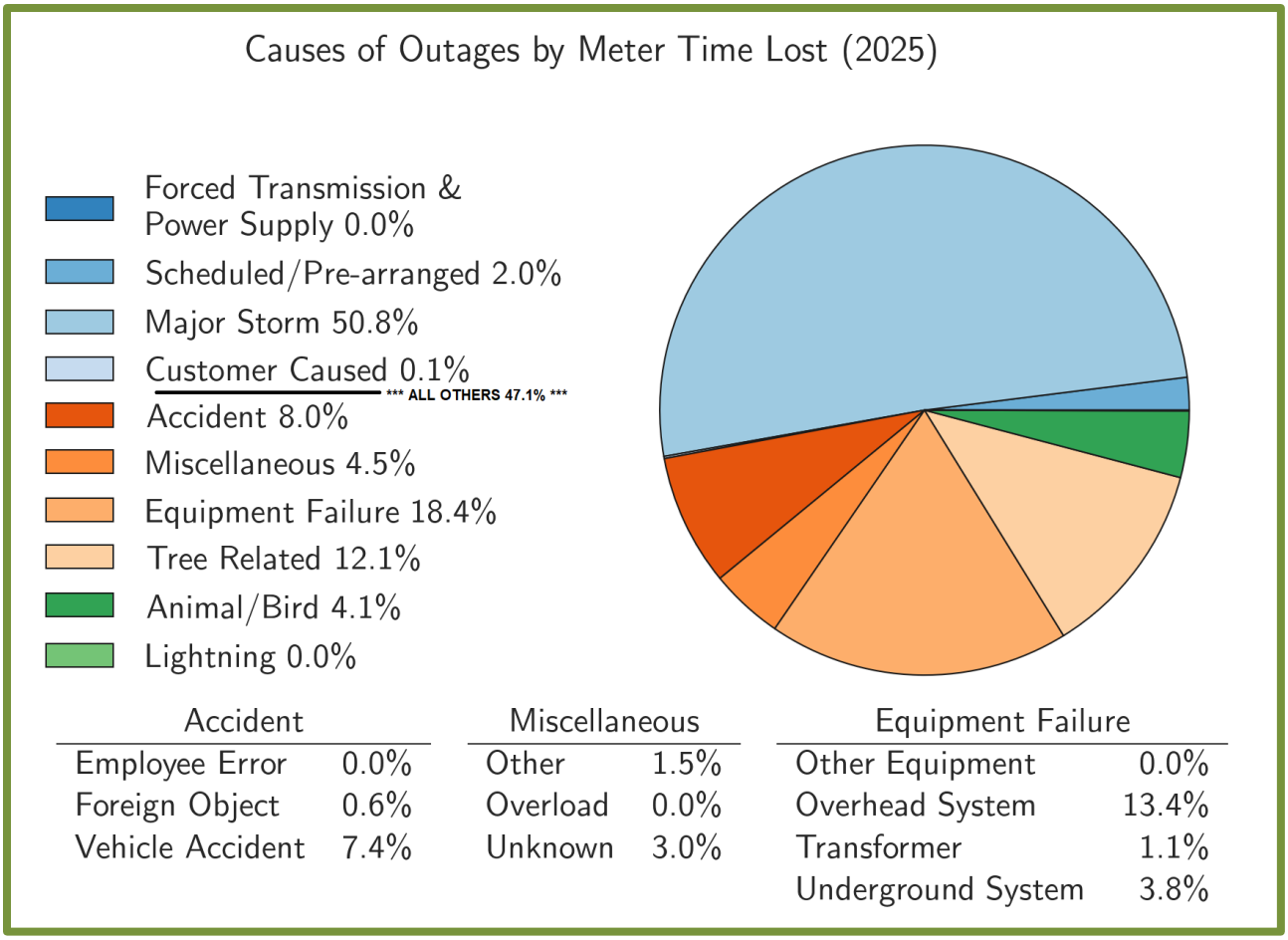
Accident	
Employee Error	0.4%
Foreign Object	2.1%
Vehicle Accident	7.4%

Miscellaneous	
Other	1.3%
Overload	0.1%
Unknown	1.1%

Equipment Failure	
Other Equipment	2.7%
Overhead System	23.9%
Transformer	4.1%
Underground System	4.5%

Chart VI-2.2 - Causes of Outages by Meter Outages (2021 - 2024)

Cause of Outages
2025
By Meter Time Lost



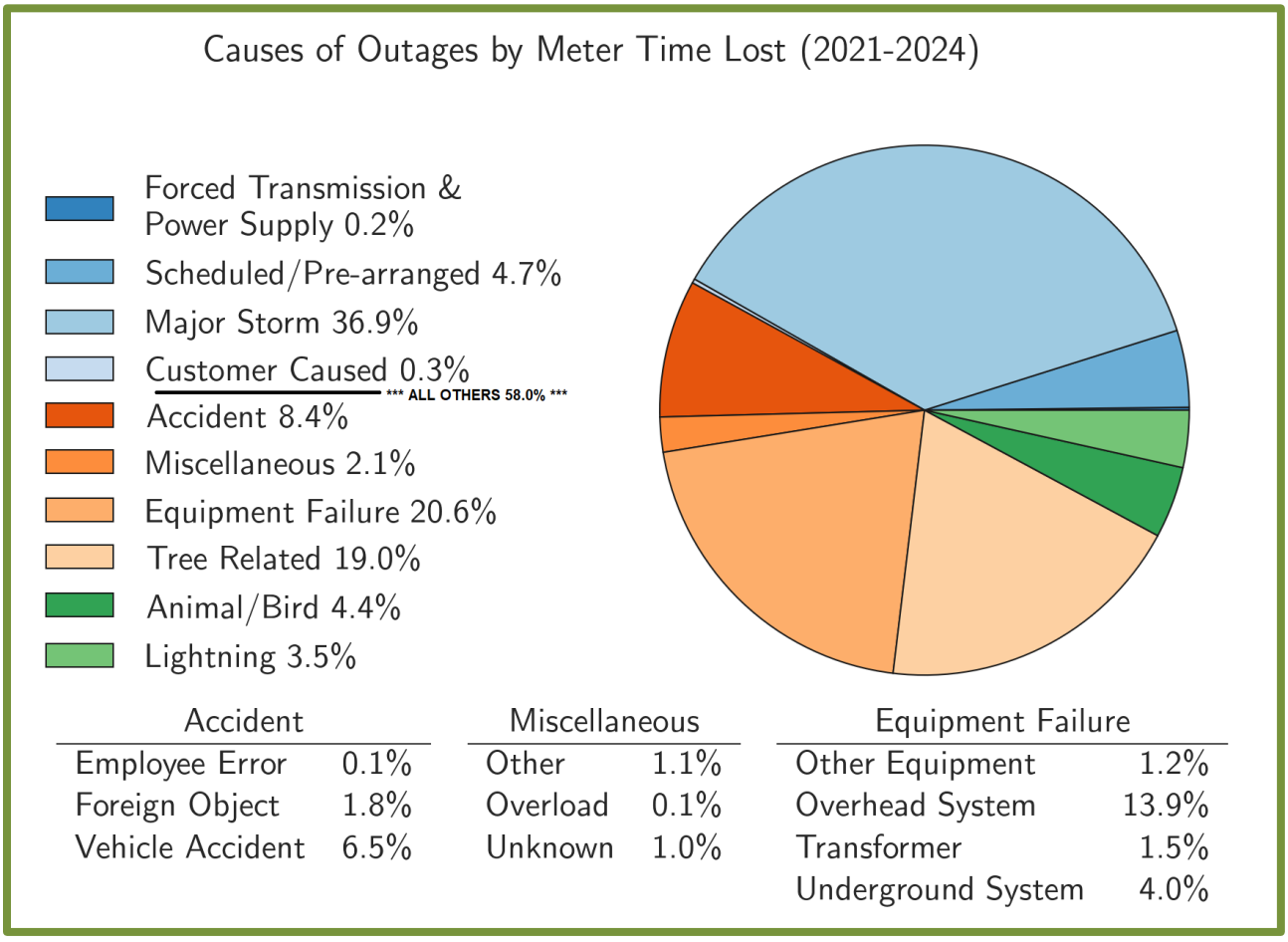
Accident	
Employee Error	0.0%
Foreign Object	0.6%
Vehicle Accident	7.4%

Miscellaneous	
Other	1.5%
Overload	0.0%
Unknown	3.0%

Equipment Failure	
Other Equipment	0.0%
Overhead System	13.4%
Transformer	1.1%
Underground System	3.8%

Chart V-3.1 - Causes of Outages by Meter Time Lost (2025)

Cause of Outages
2021 - 2024
By Meter Time Lost



Accident	
Employee Error	0.1%
Foreign Object	1.8%
Vehicle Accident	6.5%

Miscellaneous	
Other	1.1%
Overload	0.1%
Unknown	1.0%

Equipment Failure	
Other Equipment	1.2%
Overhead System	13.9%
Transformer	1.5%
Underground System	4.0%

Chart V-3.2 - Causes of Outages by Meter Time Lost (2021 - 2024)

The outage category in which the Company can exercise significant influence is the "Distribution System" category. Although the actual number of interruptions, meter outages, and lost meter-time vary from year to year, UI believes that through continued efforts, outages in this category can be managed, with a balanced concern for economics.

The percentages cited in the following paragraphs relate to the “Distribution System” sub-category, (“All Others” on the Pie Charts), and exclude outages related to major storms, forced transmission and power supply, planned outages and customer caused outages.

In 2025, the number of wildlife contact incidents, as a percentage of the Distribution System (“All Others”) subcategory, 9.3%, (Chart V-1.1), as in previous years, 7%, (Chart V-1.2), has maintained a relatively level impact since completion of the project. The post-program impact of wildlife contacts has remained a reduction to the pre-program wildlife contact contribution to customer impact (SAIFI); this maintained status is a direct result of the three-year program (2015-2017) to replace wildlife guards. UI will continue to install wildlife guards on new transformer installations as well as coat the tops of critical overhead equipment, such as regulators and specific types of reclosers, with an insulating coating designed to minimize the potential for phase-to-ground squirrel or bird contacts.

In response to Docket No. 13-01-19, “Application of The United Illuminating Company to Increase Rates and Charges”, PURA approved $100 million for an 8-year plan for vegetation management during 2014-2021. In response to Docket No. 16-06-04, “Application of The United Illuminating Company to Increase Rates and Charges”, PURA approved $162 million for a 12-year plan for vegetation management extending the program to 2025. In Docket No. 22-08-08, “Application of The United Illuminating Company to Increase Rates and Charges”, the Authority approved a one-year rate plan, directed the Company to maintain the current annual funding levels for the UPZ program, and stipulated changes in the way the UPZ Program is being prioritized and executed, via Order 21, that: *“UI shall develop and submit for Authority review and approval in Docket No. 23-08-09, Annual Electric Distribution Company Reliability and Resilience Framework Review a four-year work plan to implement the UPZ priorities for years 2024 to 2027 and to transition to a four-year trimming cycle by 2027.”* Order 21 further stipulates that this work plan shall also demonstrate compliance with the following priorities (as outlined in section VI.A.15 of its Ruling).

- Start the transition to four-year cycle trimming
- Address first pass of remining single-phase system
- Perform a second pass of full UPZ clearance of three-phase systems

The Company has modified the priorities, annual scope, schedule, and the annual cost of the program to align with the Authority’s directives. The modifications are underway and being effectuated without any increase to the approved annual expenditure levels. The vegetation management work plan for 2024 through 2027 emphasizes transitioning to a 4-year trimming

cycle; preserving the clearances where the UPZ Spec has already been applied; completing approximately 60% of the remining single phase circuit miles; and maintaining a total annual cost that is consistent with the approved expenditure levels. In Docket No. 24-10-04 the Authority subsequently determined the Company's UPZ plan complied with direction given in the 22-08-08 Decision. Motion No.5 Ruling, Oct. 27, 2023, Docket No. 23-08-09, Annual Electric Distribution Company and Reliability and Resiliency Framework Review. The major components of UI's proposed program are:

1. Utility Protection Zone Specification, (UPZ), is UI's storm resiliency tree work specification, creating an eight-foot side clearance ground to sky, retaining desirable low height or ornamental trees within the zone or those that are planted under the Right Tree – Right Place program. Additionally, the Company identifies and removes whole or parts of hazardous trees from outside of the zone that could fall causing damage to utility infrastructure, facilities, or equipment.

2. Utility Protection Zone Maintenance (UPZM) maintains the previously established UPZ, or clearance within the rectangular area extending horizontally for a distance of eight feet from any outermost primary electrical conductor. Additionally, removal in whole or in part of hazardous trees that could fall from inside or outside of the zone causing damage to utility infrastructure, facilities or equipment.

3. UI documents and tracks all objections, requests for modification and decisions made by municipal tree wardens and the State Department of Transportation through the full execution of Public Act 14-151 that cause nonconformities, or areas where UI is not able to meet these specifications within and outside of the Utility Protection Zone (UPZ). Instances of outages caused by nonconforming trees will be documented and considered a reportable performance attribute.

In 2025, tree contact incidents continue as a significant cause of customer outages in terms of the number of customers impacted. For 2025, tree contact incidents accounted for 17.2% of the outages within the Distribution System subcategory. The average of tree contact incidents as a percentage of the Distribution System subcategory during previous years, (2021-2024) totals 23.7%.

Excluding transformer failures which are not a major source of customer minutes interrupted**,** equipment failures on the overhead system for 2025, as a percentage of the Distribution System subcategory, (28.5%), as in previous years, (24%), continue as a significant contributor to customer minutes interrupted. UI recognizes this situation, and is cautious in its selection of new equipment, so that it selects durable equipment and material to construct and maintain its overhead

and underground distribution system. UI has taken steps to analyze assets throughout their life cycle.

One such analysis is the periodic in-service inspection of equipment to determine where the assets reside on their life cycle curves. This aids in making prudent asset replacement and/or rehabilitation decisions before customer reliability is impacted. Also, UI analyzes certain equipment failures to determine what type of equipment has a significant failure rate and is negatively impacting customer reliability.

Referring to Appendix 11, "Five-Year Outage by Cause Summary (excluding major storms)," a comparison of 2025 data with previous years' data (2021 - 2024) reveals the following:

- Distribution system outages, defined as all outages other than Transmission/Power Supply, Customer Caused, Scheduled/Prearranged, or Major Storm, historically account for the majority of customer interruptions and customer minutes of interruption.

- Within the distribution system subset, tree-related incidents, wildlife contacts, and failure of overhead equipment continue to comprise the majority of outage events.

VII. Reliability Improvement Programs and Budget

Reliability programs are deterministic / reactive or probabilistic / proactive in nature, or a combination of both. Deterministic or reactive programs are designed to address circuit reliability or customer reliability outlier performance. Probabilistic or proactive programs are designed to prevent circuit or customer reliability performance from becoming an outlier.

UI's policy is to design all distribution systems to meet the Company's Reliability Criteria (DEG 80). Each project is analyzed to determine what features (for example, tree-wire, buried cable, line reclosers, sectionalizing switches, lightning arresters, additional fusing, wildlife protection, etc.) are necessary to produce the desired level of reliability. Repair time and circuit backup requirements are analyzed such that rapid service restoration is possible through switching and sectionalizing to minimize the extent of an actual outage. Construction design standards provide additional details of how reliability is incorporated as a part of every project. This principal element is probabilistic in nature.

Enhancements to the existing distribution system are based on both deterministic and probabilistic performance. In addition to the design of reliability into the systems themselves, UI reliability programs consist of five principal elements. Some programs significantly overlap the principal element types, such as:

Installation of advanced two-way meters is exceeding current budgets for meter purchases. Meter exchanges are utilized for aging meters (meters greater than 20 years old and fully depreciated), power outage applications (Two-Meters per Transformer), Disconnect for Non-Payment (DNP), Get Customer Name (GCN) and Move in/Move Out orders (performs remote connect/disconnect activities without rolling a vehicle), estimates/consecutive estimate meter replacements (current population of one-way meters 14 years old and beginning to show signs of failure) and general exchanges to enhance the operation of the two-way network and customer service expectations.

This is a customer facing activity which provides service to customers where accurately functioning meters is critical. L&G will stop supporting AMR meters by the end of 2026. Based on historical data and projected deployment strategy the 2026 scope for this project is as follows:

- New Customers: This is a reactive program that has been consistently deploying ~3,500 units yearly and a similar figure is expected for 2026.
- Defective Equipment: Reactive program anticipating ~4,500 failures per year based on forecast.
- AMR/AMI Program: Plan to replace ~13,050 AMR meters in this category in 2026.
- Solar/DG: UI saw ~3,000 solar requests in 2025, but due to the increasing volume of DG requests, the estimates have increased to around ~3,500 requests for 2026.

Scope	2026 Units	Unit Price	Total
New Customer	3,500	$287.37	$1M
Defective Equipment	4,500	$325.22	$1.5M
AMR/AMI	13,050	$325.22	$4.2M
Solar/DG	3,500	$287.37	$1M
Load Ctrl Adaptor	0	$447.72	-

The 2026 CAPEX budget for installing advanced two-way meters is approximately $7,719,173.

Distribution line repairs ensure a safe and reliable electric distribution system by maintaining the infrastructure and performing maintenance and restoration activities. This is an on-going program which includes all overhead and underground distribution system work for customer connections, emergency repairs, corrective/reactive work, customer restoration resulting from failures, compliance work to meet company standards of construction, reliability improvements for red circuits and work related to replacing items found during infrared inspections, and all minor storm work. Types of work include, pole replacements, NESC adjustments, cable faults, equipment failure, and damage to electric system plant. The source of this work comes from customer requests, trouble calls, outages, emergency response, damage to electric infrastructure, preventive maintenance inspections and field inspections to meet standards and compliance.

The 2026 CAPEX budget for distribution line repairs is approximately $15,029,646.

The programs that can be clearly categorized within the five principal elements are as follows:

A. New Customers Added

UI is obligated to connect all customers within its franchise area to the electric distribution system in accordance with specific Terms & Conditions, Construction Standards, the National Electrical Safety Code (NESC), UI's Guidebook of Requirements for Electric Service, policies, and procedures, etc. as approved by the Connecticut Public Utilities Regulatory Authority (PURA). This is an annual blanket program covering hundreds of individual customer related service requests for a given year.

Construction work for services to commercial & industrial customers supplied by either overhead or underground powerlines for new, increase, replacement, removal, or demolition electric services. Each individual customer request is a unique project which has its own design scope of work, schedule, and cost. The scope of the job can include distribution primary system upgrades to serve the new customer by installing, new poles, transformers, primary wires, and other system equipment. The average cost from the last three years for this program has been used to determine the high-level cost estimate.

The COVID years showed a decline in industrial and commercial development activity between 2020 and 2023. However, starting in 2024, the Company has seen a rebound in such development, especially in the downtown Bridgeport and New Haven areas (averaging ~$7m per year after CIAC). The Company's current forecast reflects the planned project cost for known projects and provides a level of funding for future ones.

The 2026 budget for New Customer installations is approximately $6,770,000. The planned P26 budget amount is actually around $9.52M. This amount is being reduced by about $2.755M, as offsets are being provided to four specific projects under this category. These customer projects were originally planned to be completed by the end of 2025 but are now rolling into 2026. The following projects are:

- 19 Elm St - New Network Vault ($855k)
- 300 State St - New Customer Service ($1.03M)
- 855 Main St Bridgeport - Office to Condo ($219k)
- Steelpointe Harbor - New Residential/Retail ($651k)

i. Residential Line

UI has an obligation to serve all customers within its franchise area. This project is required for new customer connections. This includes service work for temporary and permanent construction (new, increases, replacements, removals, and demolitions). The work is required to satisfy customer needs to purchase new or additional power for their consumption.

This is an on-going program for residential overhead and underground new services, underground residential cable repairs, rebuilds, secondary line extension, initial installation of equipment for every subdivision on-going program for commercial and residential overhead and underground new services, underground residential cable repairs, rebuilds, secondary line extension, initial installation of equipment for every subdivision (single phase or multiple phases).

The scope, designs, estimates and construction is based on customer requests that come in throughout the year. This includes new residential service for 3-phase primary overhead or underground, single premise which would be for a multi-unit apartment building with separate metering, requiring a 3-phase transformer. This would include distribution primary system upgrades to serve this new customer. The scope of the construction may include installing new poles, transformers, and primary/secondary/service wires. Additionally, the scope would include interconnecting with a neighboring Utility.

The 2026 budget for Residential Line is approximately $4,507,719.

ii. Street Lights

This is an on-going program to install/replace/relocate/remove existing customer private area lighting. The scope includes lights that are fed from overhead and underground, secondary and service wire work, poles and light heads and civil work for bases and conduit and miscellaneous hardware. The sources of the work come from customer requests to install new lighting, repair damaged lighting and from routine inspections. The 2026 scope will include any new requests or notifications of damaged lights that come in throughout the year.

The Company ensures that equipment is installed to meet customer commitment and ensuring it is maintained to provide the service the customer is paying for. Customer satisfaction. State Statutes require utilities to repair 'Light Out' calls within 3 business days. UI receives notifications for Light-Out and schedules the next day through mobility.

The 2026 budget for Street Light CAP is approximately $1,954,265.

B. Infrastructure Replacement

i. Bulk Substation Replacement

UI currently operates 25 – 115/13.8 kV substations to deliver electricity to its customers. These substations transform power from the 115-kV transmission system down to the 13.8 kV level to be distributed on utility poles. The performance of a single substation can impact up to 10,000 to 20,000 customers. Many of the substations are nearing the end of their useful life. In 2025, a large number of UI's 115/13.8 kV substations were forty years old or older. This concentration of assets in the fourth quartile of their useful life represents a significant risk to the Company and its customers.

It takes four years or longer to bring a new 115/13.8 kV substation project from planning to design, siting approval and construction and requires many engineering, project management, and construction resources to complete. As a result, the Company's ability to site and build 115/13.8 kV substations is finite. The Company continues a proactive replacement program to address this situation, through component replacement programs or entire substation rebuilds if warranted.

The Pequonnock Substation was placed into service in 1956 and is located in Bridgeport, CT immediately adjacent to the Long Island Sound. The substation serves approximately 8,240 customers. The site experienced flooding one to two feet above the yard elevation during Tropical Storm Irene and approximately 10 feet NAVD 88 (North American Vertical Datum of 1988) during Superstorm Sandy or within inches of the control room floor. Along with the flooding concerns, there were several known asset condition deficiencies at this site. The Pequonnock project called for the rebuilding of the existing substation further inland. The project is expected to be completed this year.

A set of comprehensive evaluations were performed to determine the future viability of the Old Town Substation. The substation serves approximately 18,000 customers. The Full Replacement solution was selected based on a review of all of the factors associated with maintaining adequate, safe and reliable service to the Old Town distribution area. This solution is superior in the key areas of construction outage requirements, minimization of construction hazards, future expansion capabilities, overall project cost as well as in the area of life of equipment. The life of equipment concerns for Old Town Substation stemmed from the age of the station. The work for this project is still ongoing.

The 2026 budget for the Old Town Substation Rebuild is approximately $11,608,131 ($10,384,472 Transmission + $1,223,659 Distribution).

ii. Low Voltage Distribution Substation Removal

Low Voltage Distribution substations originated at the dawn of the utility industry in the early 1900's. These substations transform the voltage down from 13.8 kV to the 4.16 kV or 2.4 kV voltages that were predominantly the distribution voltages during the 1920s, 1930s and 1940s. The program objective is to complete the removal of service and retirement of assets associated with all 4.16 kV and 2.4 kV substations on the distribution system due to the age of the equipment and the inability to maintain this obsolete equipment. The age range of these substations is 50-70 years old. Removal of low voltage (4.16kV) substations is accomplished through either total conversion of the distribution infrastructure supported by the low substation to 13.8kV or through partial conversion to 13.8kV and the utilization of Step Down Banks where there is significant remaining life in the distribution infrastructure.

The Low Voltage Substation Removal program was developed as a result of a formal condition assessment of all low voltage substations in 2006. The main concerns resulting from this assessment were:

- Potential safety hazards associated with the risk of failure of equipment that has exceeded its useful life
- The risk of long duration power outages related to obsolete or end of useful life substation equipment
- Continued maintenance required to keep obsolete substation equipment operational

This program mitigates the risks associated with age, obsolescence, inadequate maintenance practices, and exposure to adverse/harsh service conditions. Harsh service conditions or inadequate maintenance practices can accelerate the aging process, and can cause failures to occur. Obsolescence can result in long lead times, high costs, or complete unavailability for repair parts, and could result in long outages if equipment fails. From the perspective of operability and maintainability, in some cases, the condition of the equipment and the clearances around it can make access to the equipment difficult and can raise potential safety concerns for the Company's field personnel. Overall, this program helps to maintain reliability and reduces hazards to our employees and the public by reducing the risk of failure of equipment that has exceeded its useful life.

Due to equipment condition, obsolescence, and maintenance issues, the Company has been implementing the removal of distribution substations for many years. Originally, the Company had over 100 of these substations in service. Whitney Ave was the last one remaining and was finally de-energized in 2025. This was originally slated to take place in 2026 due to capital budget constraints. The increasing risks and dangers that the substation equipment posed to UI crews increased its prioritization. The Low Voltage Distribution Substation Removal program is now complete.

iii. Splicing Chambers

The Company owns and maintains over 3,000 underground splicing chambers, the vast majority of which are located in public roads. Fifteen hundred of these splicing chambers are greater than 60 years old including many constructed with roofs supported by steel railroad rails that are susceptible to corrosion. Additionally, prior to the 1950s, these structures were typically constructed with dimensions that do not meet current working clearance requirements.

The Splice Chamber Rebuild Program replaces underground cable splicing structures before they fail which could cause bodily injury or an extended system outage. By prioritizing these structures based on an annual inspection program, a systematic approach can be taken to design, procure, and construct the replacement structures before failure. Replaced structures comply with the latest version of the NESC and the latest advances in materials. The pace of the program is intended to remediate the remaining steel rail structures over the next 20-30 years. These projects are costly, complicated and impactful to the local communities because they impact busy urban roadways. The Company's strategy is to mitigate these risk steadily over a long period of time to avoid lengthy widespread outages and public and employee safety impacts.

Maintenance inspections for every splice chamber are performed on a 10-year basis. Every year 300 are inspected by this program and another 100 are inspected as part of other inspections. Depending on the deficiency and severity a complete replacement or partial remediation will be required. Structures that have only a deteriorated roof require only a roof replacement. Splice chambers that have significant structural deterioration present in the walls or floor or are not in compliance with the latest version of the NESC for horizontal working clearance must be wholly replaced.

UI has inspected all of its splicing chambers. Inspections determined the need to remediate almost 500 chambers and as of the end of 2025 approximately 481 splicing chambers (an increase of 0) have been remediated. For 2026, UI does not have plans for any complete splice chamber replacements. The 2026 budget is planned to address three emergency roof replacements listed below, and to develop the plan for 2027. The three proposed locations are:

- SC 91 at 49 Cannon St, Bridgeport
- SC's 754 and 753 on Willow St, New Haven

The estimated cost for Splicing Chamber Inspections in 2026 is approximately $90,000.

The 2026 budget for Splicing Chamber Remediation is approximately $876,637.

iv. Utility Poles

UI is the custodian of roughly 147,000 poles in the service territory.

This program replaces deteriorated poles identified in the UI maintenance pole inspection program that do not meet established NESC standards for the amount of solid wood remaining at the base of the pole. Additionally, this program also replaces poles identified by visual inspections or resulting from field visits by UI field personnel. The volume of pole replacements is forecast based on the planned number of poles to be inspected multiplied by the historical average failure rate per year (typically 3.1%).

This program is necessary to achieve compliance with NESC requirements, which maintains safety for the public and utility workers. Additionally, the UI distribution system reliability and resiliency are improved, as poles are replaced based on current standards and as pole loading analysis determines (per the NESC Northeast NESC wind and radial ice modeling parameters). In 2025, approximately 34 poles were replaced. A total of 26 were replaced as part of the Pole Management Program and an additional 8 Non-Program Poles were replaced as well.

The inspections that were conducted in 2023, 2024 and 2025 have produced a reject rate of 1.10% which equates to a backlog of 2023 (86 poles), 2024 (87 poles) and 2025 (98 poles), totaling 271 poles. The rejects identified have inspection ratings varying in severity. In 2026, the Company plans to complete a portion of the backlog of pole replacements originating from 2023-2025. The replacements will be prioritized based on the severity rating from the inspections.

For 2026, approximately 138 poles will be replaced based on the severity rating for poles identified from the 2023-2025 inspections. The estimate includes 102 single phase pole replacements at $8,394/pole and 36 three phase pole replacements at $13,440/pole. The estimated cost of these replacements is approximately $1.34M. The inspection program in 2026 will identify ~20 emergency priority rejects which will require around an additional $225k.

In 2026, in addition to the ground line deteriorated pole inspections, the Company will also be commencing an overhead inspection cycle, and it is expected that investment will be required to remediate critical deficiencies such as cracked pole tops, primary cable off pins, etc. Additional funding may be required for these items and will be monitored as the overhead inspections are completed.

The pole replacement program budget for 2026 is approximately $1,550,574.

v. Circuit Performance Correction

UI employs an incident-based outage reporting system to help determine the need for corrective action on circuits whose reliability has fallen outside of UI's Reliability Criteria. The Company has found this system to be highly responsive in that it minimizes the cycle time between outages, determination of a reliability problem, and corrective action. The trigger for circuit performance correction is deterministic; however, the corrective action typically involves construction and/or maintenance which will help minimize the probability of a future interruption.

Each March, TDRP upgrades are planned to enhance reliability performance on the worst 4% of UI circuits. By addressing existing reliability issues, this program helps provide reliability improvements. The Company also monitors outage trends to identify and address threats to reliability as needed. The RE08-defined Worst Performing Circuit Program 2.0 now identifies TDRP circuits using CEMI (Customers Experiencing Multiple Interruptions) and CELID (Customers Experiencing Long Interruption Durations). This new approach focuses on outlier customers to bring them up to system-wide reliability targets, unlike the previous method, which targeted circuits most impacting system-level reliability.

The scope includes:

1. Circuit Identification: Utilize CEMI and CELID metrics to identify customers in tier-9 and tier-7 priority lists requiring reliability improvement.
2. Inspection and Analysis: Conduct thorough inspections and analyses to determine the root causes of reliability issues.
3. Tree-Trimming Coordination: Address targeted tree trimming work at circuit sections that are impacting outlier customers. In many cases, tree trimming refusals correlate with high CEMI rates, and the Company ability to control may be limited by customer permissions.
4. Upgrade Planning: Develop and implement upgrade plans for identified locations, focusing on enhancing reliability and reducing outage durations for outlier customers.
5. Monitoring and Reporting: Continuously monitor the performance of upgraded circuits and report on improvements and remaining challenges.

The 2026 Budget for Circuit Performance Correction is approximately $361,941.

vi. Network Infrastructure

The United Illuminating Company Network Infrastructure Program project consists of the installation of the underground network monitoring system including transformer ruggedized telemetry Link, Liquid temperature gauge, pressure gauge, vault water float switch, ambient

temperature probe, HMI screen, cisco ethernet switches, fiber optic, G&W network primary switches, replacement of deteriorated network transformer and network protector. This project also targets and replaces all the network transformers and protectors that are deteriorated to prevent any failure in the network.

The United Illuminating Company has installed a microprocessor-controlled network relays in the underground network vaults within the City of New Haven and the City of Bridgeport. The MPCV relays are equipped with communication capabilities that allow remote monitoring and control of the network protector. Currently, United Illumination Company has no systems in place in the underground network system that can provide the communication link between the grid devices and operators in remote locations. United Illuminating Company's objective is to analyze several of the available communication technologies in order to determine the solution best suited for this application

The need for network monitoring system in UI's underground distribution secondary networks is very important since there is limited visibility into this part of the distribution system. This need became evident during an unscheduled outage in 2010 when a fault in the New Haven Network led to a fire at a customer vault. The initial feeder fault occurred and escalated into a two-feeder fault as a result of a stuck network protector that caused an alive on backfeed condition. This incident caused prolonged customer outage and the Company incurred approximately $1.2 million dollars in cost to remediate the situation. Incidents such as the one just described pose a safety risk for the general public and UI workers.

A monitoring and control system for the secondary networks can be used to prevent such incidents from becoming major events. A communication system is also extremely beneficial to the Company day-to-day operation. This can be used by the System Operators to identify stuck network protectors and attempt to open remotely or dispatch a crew to the identified location to open locally. Currently, when a network protector gets stuck, UI crews must go to each network vault to find the protector that is stuck closed and open it manually. Locating the stuck protector can take several hours depending on the number of vaults on the feeder and the time of the day.

This program is reactive in nature based on findings in the field so this scope may change. During the course of the inspections, crews typically discover problems that need to be addressed for worker and public safety. For 2026, UI is forecasting the following work:

- Replace two ventilation grates @ $20,000 each
- Replace one access hatch @ $50,000 each
- Replace one transformer / protector @ $160,000 each

The 2026 budget for Network Infrastructure is approximately $249,777.

vii. Switchgear Replacement

There are over 100 high voltage non-network services (greater than 600 volts) across UI's service territory. The Company operates, maintains, and in many cases owns the switching demarcations. Through a specific inspection plan, UI will identify and prioritize the locations that have reached the end of their useful life, and/or present concerns ranging from safety, operational difficulties, code/access issues, and environmental. The Company will prepare engineering designed solutions for addressing these issues, up to and including replacement of service demarcations.

Work plans will be executed alongside each customer as the program continues until all locations have been identified, and shortfalls have been addressed. Each plan will need customer involvement and acceptance, as the majority of UI equipment and construction will be on private property. There will also be locations that include UI owned transformers in customer owned vaults that are also in poor condition and may need to be relocated as part of the program, on a case by case review. This program will not only help maintain reliable service but also keep UI workers safe.

In 2026, UI plans to replace L152 at Bella Vista on 339 Eastern St, New Haven.

The 2026 budget for Switchgear Replacement is approximately $1,064,843

C. Capacity

i. Distribution Transformers

In 1976, the manufacturing of polychlorinated biphenlys (PCBs) was banned. In 1982, the Company put in place a specification for electrical insulating oil which required the transformer manufacturer to supply transformers with zero parts per million PCB content. At the time, the Company did not engage in a program of replacing all transformers prior to 1982. Therefore, pre-1982 transformers with unknown PCB content still exist on the system.

The Company owns and maintains over 50,000 distribution transformers on the electric system. During 2010, the Company completed an engineering survey of all distribution transformers on the system. The survey determined the need to replace over 14,000 transformers due to unknown PCB content, condition and/or loading levels. As of the end of 2025, approximately 5,368 transformers (an increase of 85) have been replaced. The remaining transformers will be replaced on a scheduled programmatic basis.

This is a 20-year program which concentrates on eliminating PCB and overload conditions during the first half of the program and replacements in the second period due to age and condition. The rate of replacement is evaluated each year and CAPEX requirements are based on program progress and balanced with resource and material availability. This program has been significantly reduced in funding over recent years (2020-2023) due to supply chain issues. And for 2024, the program was deferred entirely with no funding forecasted. However, as other work is performed in UI Distribution Operations, if a pole has been previously identified as a TARP location, that work is reviewed and may be required to be done in conjunction with the other distribution work.

There is no projected budget for 2026. The program is currently expected to resume in 2027.

ii. Energy Storage Resiliency

This battery storage project consists of installing a 8.12 MW, 32.5 MWh Battery Energy Storage System (BESS) mid-circuit on Water St Circuit 1526. This circuit currently feeds around 1,600 New Haven customers. The battery will be used to provide circuit resiliency and capacity benefits. Specific use cases for this project include:

1. Resiliency and back up to a targeted section of a poor performing circuit
2. Provides back-up to LMI and environmental justice customers
3. Provides targeted relief during area capacity events
4. Provides load relief to an overloaded circuit

Energy storage will be required to meet the State's clean energy goals enabling the integration of renewable intermittent resources like solar and wind. This project addresses an existing operational resiliency need and utilizes existing connected intermittent resources to optimize battery charging and discharging cycles. This project also helps Connecticut move towards its goal of 1 GW of energy storage by 2030.

The 2026 budget for this Energy Storage Resiliency project is approximately $2,302,374.

D. Enhancement Programs

UI enhances the existing distribution system as follows:

i. URD Project Rebuilds/Rehabilitation

Cable replacement and/or refurbishment, coupled with transformer replacements, in older underground residential projects where UI's equipment may be approaching the end of its useful life. Reference Section 7a Residential Line for more information.

ii. Highest CEMI-3 and CELID-9 Circuit Improvements

Appendix 14a lists the Tier 1 Worst Performing Circuits by All-In CEMI-3 for the period of July 2024 to June 2025.

Appendix 14b lists the Tier 1 Worst Performing Circuits by Non-Excluded CEMI-3 for the period of July 2024 to June 2025.

Appendix 14c lists the Tier 1 Worst Performing Circuits by All-In CEMI-3 for the calendar year of 2025.

Appendix 14d lists the Tier 1 Worst Performing Circuits by Non-Excluded CEMI-3 for the calendar year of 2025.

Appendix 14e lists the Tier 1 Worst Performing Circuits by All-In CELID-9 for the period of July 2024 to June 2025.

Appendix 14f lists the Tier 1 Worst Performing Circuits by Non-Excluded CELID-9 for the period of July 2024 to June 2025.

Appendix 14g lists the Tier 1 Worst Performing Circuits by All-In CELID-9 for the calendar year of 2025.

Appendix 14h lists the Tier 1 Worst Performing Circuits by Non-Excluded CELID-9 for the calendar year of 2025.

Appendix 16a describes the proposed reliability corrective action plans UI designed to improve the reliability of the four percent of the circuits with the highest CEMI-7 and CELID-9 percentages as determined by July 2024 to June 2025 interruption data per Docket No. 17-12-03RE08.

iii. Highest SAIDI/SAIFI Circuit Improvements

Appendix 15a lists the Tier 2 Worst 100 Circuits by SAIDI ranking for the period of July 2024 to June 2025. A SAIDI threshold is determined by calculating 250% of the systemwide SAIDI value for the period of July 2024 to June 2025. Circuits where its July 2024 to June 2025 SAIDI values reach or exceed this threshold are flagged with Y.

Appendix 15b lists the Tier 2 Worst 100 Circuits by SAIDI ranking for the calendar year of 2025. A SAIDI threshold is determined by calculating 250% of the systemwide SAIDI value for the calendar year of 2025. Circuits where its 2025 SAIDI values reach or exceed this threshold are flagged with Y.

Appendix 15c lists the Tier 2 Worst 100 Circuits by SAIFI ranking for the period of July 2024 to June 2025. A SAIFI threshold is determined by calculating 250% of the systemwide SAIFI value for the period of July 2024 to June 2025. Circuits where its July 2024 to June 2025 SAIFI values reach or exceed this threshold are flagged with Y.

Appendix 15d lists the Tier 2 Worst 100 Circuits by SAIFI ranking for the calendar year of 2025. A SAIFI threshold is determined by calculating 250% of the systemwide SAIFI value for the calendar year of 2025. Circuits where its 2025 SAIFI values reach or exceed this threshold are flagged with Y.

Appendices 15e lists the worst 4% of all Circuits created by using the lists from Appendices 15a and 15c by alternating SAIDI and SAIFI circuit rankings. Circuits are flagged if the average SAIDI or SAIFI values reach or exceed 250% of the systemwide SAIDI or SAIFI values for the period of July 2024 to June 2025.

Appendices 15f lists the worst 4% of all Circuits created by using the lists from Appendices 15b and 15d by alternating SAIDI and SAIFI circuit rankings. Circuits are flagged if the average SAIDI or SAIFI values reach or exceed 250% of the systemwide SAIDI or SAIFI values for the calendar year of 2025.

Appendix 16b describes the proposed reliability corrective action plans UI designed to improve the reliability of the four percent of the circuits with the highest SAIDI and SAIFI values as determined by July 2024 to June 2025 interruption data per Docket No. 17-12-03RE08.

iv. Status of Prior Corrective Actions

The status of the previous year's corrective action plans can be found in Appendix 17.

v. Substation Flood Protection

Weather events experienced in the recent years, along with revisions to Federal Emergency Management Agency (FEMA) flood maps have necessitated UI to take action to evaluate the risk and potential impact of a single 100-year coastal flooding event on its coastal substations and evaluate mitigating solution alternatives. The Company commissioned a study, "Coastal Substation Flooding Asset Condition Review". That study revealed that five of the Company's coastal substations are at significant risk of being incapacitated and/or destroyed by a single FEMA 100-year flood event.

Singer Substation is a 345kV transmission substation that provides electricity from Bridgeport to Norwalk. The Singer Flood Mitigation project aims to provide flood protection to the critical transmission assets during severe weather conditions. The project scope includes the installation of flood walls and gates around the substation perimeter, reinforcement of the Gas Insulated Switch Gear (GIS) building walls, as well as installation of a storm water management system. The 2026 budget for this project is approximately $25,354,809.

The Grand Ave/Mill River Flood Mitigation project is very similar. The scope includes the installation of flood walls and gates around the substation perimeter, modifications to river bulkhead, as well as installation of a storm water management system. To mitigate the risk, UI is installing a perimeter flood wall system, which includes a driven steel sheet pile flood wall below and above grade along the current fence line. The flood gates will have concrete foundations and a stormwater system for runoff discharge. The 2026 budget for this project is approximately $6,364,354.

The Milvon Substation has a history of flooding. Water has reached the MOD operators, blowing fuses, and disrupting normal operations which has caused unplanned outages. The 100-year flood elevation in the area is 39 ft above sea level (based on the NAVD 88). The scope of this project is to raise all critical yard equipment above the base design elevation of 41 ft above sea level (plus 2 ft of the NAVD 88 elevation). The site slopes to the north (towards the Metro North Railroad) which is the low point of surrounding buildings and roadways. The 2026 budget for this project is approximately $1,146,057.

E. Maintenance Programs

UI's personnel follow specific procedures designed to reduce certain types of service outages. Among these procedures are the following:

i. Tree Trimming

UI follows the Vegetation Management Plan, (UPZ), performs hazard tree removals, and vine clearing in order to reduce the probability of tree related interruptions and damaging tree contacts to the electric infrastructure. For 2025 there were numerous instances where the Company was denied permission to trim. Refer to Appendix 13, “Vegetation Program Miles Trimmed & Tree Trimming Denials”, for additional details on both miles trimmed and trim denials.

UI performs UPZ, in conjunction with hazard tree removals and the clearing of vines to reduce the probability of tree related outages.

The budgets for the distribution and transmission line clearance programs along with the UPZ program for 2026 are as follows:

Year	Company Distribution Line Clearance	Transmission ROW’s
2026	$1,477,599	$1,788,801
2026	Enhanced Tree Trimming (Distribution) $13,893,779	

ii. Infrared Survey

In order to detect potential failures, infrared inspections of three phase fused side-taps and three-phase mainline are performed annually. Bulk substations are inspected semi-annually and distribution substations annually. In 2019 the Company identified fused cutout failures related to a specific manufacturer and vintage. As a result, the Infrared survey was enhanced by identifying these locations and taking extra steps to thoroughly scan and replace defective fused cutouts.

UI’s trained personnel inspect three phase main lines and three phase fused side taps annually. Bulk substations are inspected semi-annually and distribution substations annually.

The total cost for the infrared inspection survey in 2026 excluding material is estimated to be around $89,000.

The total cost for the infrared repairs in 2026 is estimated to be around $414,000.

iii. Preventative Maintenance – RCM

UI employs a Reliability Centered Maintenance (RCM) program approach to system maintenance. In general, activities that apply time-based equipment testing, diagnostic testing, analysis of historical data and other techniques to support a Reliability Centered Maintenance program approach to system maintenance.

The RCM program is a continually evolving process that strives to understand an asset's potential for failure by focusing resources on preservation of system function, as opposed to traditional maintenance to preserve individual equipment operation. This approach improves cost effectiveness by reducing unwarranted corrective-reactive maintenance.

Ground Level Inspection and maintenance program for all padmounted & below grade distribution equipment, vaults, transclosures, and switches. The inspections are performed on a 5-year cycle. There are approximately 13,500 locations throughout UI's territory. Inspecting 2,800 locations per year will maintain a 5-year inspection cycle.

The 2026 budget for Preventative Maintenance is approximately $827,690.

iv. Distribution Network

A vast majority of UI's distribution network infrastructure was originally installed in the 1950s, 1960s and early 1970s, however, since the inception of a new distribution network inspection process in 2006, outlined below, the Company has readily rebuilt, replaced, and refitted its network infrastructure, and plans to continue civil and electrical remediation in 2026. UI has a large number of radial vaults with pole top transformers that are over 30 years old that are approaching their end of life due to exposure of wet conditions. These vaults are typically just large enough to fit the transformer. They lack proper working space and ventilation. The aim is to remediate existing transformers and replace them with new pad or pole-mounted transformers, H-frame structures, or equipment that meets NESC requirements.

In 2006, the Company improved its inspection process for distribution networks to include techniques for assessing and recording the condition of the infrastructure and prioritizing replacement and maintenance activities. The Company has been executing an annual inspection of all network vaults. Since 2007, 23 vaults have been rebuilt and approximately 125 network transformers have been replaced. The Company continues to identify and prioritize assets requiring remediation or replacement.

There are 278 Customer Vault locations throughout the territory. This project incorporates follow up maintenance, vault structural condition assessment, repair and abandonment. Additionally, this project incorporates the cost for converting deteriorated vaults. When vaults are identified through the inspection process with structural deterioration or electrical deficiencies UI develops plans with the customer for a new electric service. Typically, the vault is converted to a Pad-mount Transformer or overhead construction. This helps guarantee the safety of UI workers, correct operational and environmental issues, and maintain reliable service.

The 2026 budget for Distribution Networks is approximately $232,689.

VIII. Power Quality

In Section II.B.3.d.iii Measurement – Power Quality, of the RE08 decision, the regulatory authority states:

"Before requiring that the EDCs track and report this data, however, it is first necessary to understand what data can be collected, and at what granularity and frequency, as well as what such data will reveal about system power quality. Accordingly, the Authority directs the EDCs to describe what power quality metrics it can record, its recommended granularity and frequency for recording such data, and whether the following, or other, scenarios will provide helpful information regarding the evaluation of power quality: in blue-sky conditions (excluding Major Storms), for frequency, voltage, and power factor (1) over a calendar year; (2) during summer months; (3) during winter months; and (4) during shoulder months."

Upon evaluation of the Company's capabilities for reporting power quality metrics as stated in the above reference, the following power quality values can be calculated using the data elements stored in the company's operational data management platform: Steady State Voltage, Frequency, and Power Factor at the Substation level.

The Company utilizes PI Historian, an operational data management platform, for near-real time data management and analytics to standardize operational and metering data sets. The SCADA data is stored in the PI Historian system for operational awareness and engineering analysis. Data elements stored include various monitored analog values (Watts, VARS, Volts, and Amps) that can be used to calculate the power quality values referenced above. While these values are available at the Substation level, there is currently less availability of this data at the feeder level.

When evaluating the benefits of power quality monitoring, the Company quotes *1159-2019-IEEE Recommended Practice for Monitoring Electric Power Quality*:

"The primary reason underpinning all others is economic, particularly if critical process loads are being adversely affected by electromagnetic phenomena. Effects on equipment and process operations can include misoperation, damage, process disruption, and other such anomalies. Such disruptions are costly since a profit-based operation is interrupted unexpectedly and should be restored to continue production. In addition, equipment damage and subsequent repair cost both money and time. Product damage can also result from electromagnetic phenomena requiring that the damaged product be either recycled or discarded, both of which are economic issues."

The Company regards the monitoring of power quality and subsequent resolution of power quality issues as not dependent on weather or season, as though electromagnetic phenomena may be impacted by such external conditions, the Company monitors power quality continuously. The

needs and power usage patterns of customers can vary widely depending on several variables, including season and weather.

Power Factor

	Summer Months		Winter Months		Shoulder Months	
	Date	PF	Date	PF	Date	PF
2025	6/24/2025 19h	1.0000	1/22/2025 19h	-0.9999	10/7/2025 19h	-0.9999
2024	7/16/2024 18h	0.9997	12/22/2024 18h	-1.0000	11/14/2024 18h	-0.9997
2023	9/7/2023 17h	0.9999	2/3/2023 19h	-1.0000	11/28/2023 18h	1.0000
2022	8/9/2022 15h	0.9998	12/26/2022 20h	-0.9999	5/31/2022 17h	0.9999
2021	6/30/2021 18h	0.9998	1/29/2021 19h	-1.0000	11/30/2021 18h	-0.9999
2020	7/28/2020 16h	-1.0000	12/16/2020 19h	-1.0000	11/18/2020 18h	1.0000

Table VIII.1

Summer Months: June – September
Winter Months: December – March
Shoulder Months: April, May, October, November

Voltage and Frequency Fluctuation

		2020	2021	2022	2023	2024	2025
3%	Upper Limit	8.206	8.206	8.206	8.206	8.206	8.206
-5%	Lower Limit	7.569	7.569	7.569	7.569	7.569	7.569
	Standard Nominal Voltage	7.967	7.967	7.967	7.967	7.967	7.967
Frequency Fluctuation Outside	Range Count	47,378	66,292	58,772	33,559	51,056	45,793
System Nominal	by Mode	8.054	8.076	8.043	8.065	8.146	-
Voltage	by Average	8.044	8.072	8.072	8.069	8.082	7.949
	by Calendar Year	7.774	8.057	8.038	8.095	8.203	6.615
Average Voltage	by Summer Months	8.064	8.115	8.104	8.089	8.093	7.914
Outside Range	by Winter Months	8.039	8.045	8.046	8.077	8.078	8.032
	by Shoulder Months	8.029	8.041	8.078	8.048	8.070	7.883

Table VIII.2

IX. Equitable Modern Grid Initiatives Data

The Storage Decision implemented a nine-year Electric Storage Program to value electric storage for the net benefit of the electric distribution system. The Electric Storage program identifies as a key objective the provision of resilience benefits to the electric distribution system, particularly for customers on the grid edge, low- to moderate-income customers, and those customers who may reside in an environmental justice or economically distressed community. The goal is to develop and implement a program for battery energy storage systems (BESS) that would provide multiple types of benefits to the grid, including ancillary services, peak shaving, support for the deployment of other distributed energy resources, and customer, local, or community resilience.

Energy Storage Solutions offers two types of incentives:

- **Upfront incentives** help reduce the upfront cost of installing a battery system. In exchange, the customer's battery is programmed to discharge on a set schedule each summer for 10 years.
- **Performance-based incentives** are paid to customers twice annually based on their performance during individual discharge events that help reduce demand on the electric grid. There are approximately 50 events in the summer and 5 in the winter.

Beginning April 1, 2026, newly approved customers will no longer be enrolled in Passive Dispatch. Energy Storage Solutions is designed to provide cost savings and emissions reduction benefits to all ratepayers – not just those who install batteries. This is accomplished by coordinating all enrolled batteries to send energy to the grid during the hottest summer days and coldest winter days. This also helps ensure that these limited ratepayer funds only to go the highest-performing batteries. The new Program design is similar to the old structure, but more heavily weighted on the ten-year performance incentive. This means less incentive value upfront, but potentially more value overall based on battery performance.

Program Totals

Category	Active and Passive					Only Active			Total
	Residential				C&I	Residential			
	Submitted	Approved	Inspection	Completed	Approved	Submitted	Approved	Completed	
# of Projects	3	244	1	47	9	3	4	19	**330**
Total System Power (kW)	48.7	1,396.3	12.0	488.5	5,147.6	-	42.1	192.8	**7,327,9**
Total System Energy Capacity (kWh)	60.5	3,605.1	20.5	986.6	13,736.1	-	58.5	486.0	**18,953.2**
Total Battery Cost	$65,030	$4,291,579	$24,920	$1,522,136	$14,737,487	$0	$64,149	$18,975	**$20,724,276**
Up Front Incentive	$17,606	$1,557,316	$4,096	$322,498	$2,282,578	-	-	-	**$4,184,094**
# of Projects Paired with Solar PV	3	84	1	45	7	0	4	1	**145**
# of Grid Edge Projects	0	19	0	23	2	0	2	0	**46**
# of Underserved Community Projects	1	45	0	11	0	0	1	0	**58**
# of Forward Capacity Market Participation Projects	0	0	0	0	0	0	0	0	**0**
# of Critical Facility Projects	0	0	0	0	1	0	0	0	**1**
# of Small Business Projects	0	0	0	0	2	0	0	0	**2**
# of Low to Moderate Income Projects	0	15	0	0	1	0	0	0	**16**
# of On-Site Fossil Fuel Replacement	0	0	0	0	0	0	0	0	**0**

Table IX.1

* Note that the values from **Table IX.1** are reflective of the Energy Storage Solutions dashboard accessed on January 22, 2026

Avoided Emissions

Emissions Metric	AVERT	2021, 2024 AESC
Avoided CO2 (lb)	-237,000	81,880
Avoided NOX (lb)	50	N/A
Avoided SOX (lb)	70	N/A

Table IX.2

Note that:

- **This data was last updated on November 30, 2024**
- Emission estimates may not exactly match values reported in the evaluation reports
- 2021 AESC used for 2022 and 2023 activity, AESC values used for subsequent years
- 2024 ASEC does not provide NOX or SOX emission rates
- AVERT rates have not been updated since 2023
- 2023 AVERT emission rates applied to all years

Program Costs

Year	Cost
2025	$4,718,639
2024	$3,991,181
2023	$2,750,928
2022	$1,900,214
Total	**$13,360,962**

Table IX.3

* Note that 2025 costs are an estimate as of 11/30/2025

X. Summary

UI continues to regard reliability as a culture; beyond the projects noted in this report, UI focuses on ways to prevent outages, minimize the size of an outage, and reduce service restoration time if an outage does occur. System operation, equipment selection, and modifications to installation practices where improvements in reliability can be achieved, are standard operational procedures, not special projects.

UI is committed to provide highly reliable electric service and maintain its regional operational excellence status. The historic performance is proof of the Company's commitment.

Grid Modernization across the electric industry has led to a demand for visualization and control of field equipment. In order to advance United Illuminating's Distribution automation, additional smart field devices will be installed and or replaced in order to establish new communications systems.

XI. Voltage Irregularity Claims

Each year the TDRP report summarizes **Voltage Irregularity Claims** - irregularity events resulting in **10 or more damage** claims. Event data is included as Appendix 18.

Appendix 1: Service Territory Map



Appendix 2: Definition of Terms

Term	Definition
Aerial Cable	A conductor system in which each conductor is covered with a fully insulated covering. The cables are supported from a wire suspended on poles. Aerial cable is often installed in areas of heavy trees where other systems such as tree-wire would not be adequate.
AESC	Avoided Energy Supply Component/Cost provides estimates of avoided costs associated with energy efficiency measures for programs.
ASAI (Average Service Availability Index)	The ratio of the total number of customer hours that service was available during a year to the total customer hours demanded. Customer hours demanded are determined as the twelve-month average number of customers served multiplied by 8760 hours (8784 for leap years). **ASAI** = customer hours of available service/customer hours demanded
Autoloop	A scheme where two or more distribution circuits are tied together with a normally-open tie recloser capable of automatically restoring service to portions of a feeder that were de-energized due to an outage.
AVERT	The AVoided Emissions and geneRation Tool evaluates how energy policies and programs lead to changes in emissions from electric power plants at a county, state, or regional level.
Backbone Feeder	The portion of the three-phase distribution circuit beginning at the substation and ending at transitions to single- or multi-phase circuitry protected by single-phase devices.
CAIDI (Customer Average Interruption Duration Index)	The average service restoration time or the average interruption duration for those customers interrupted during a year. It is determined by dividing the sum of all customer interruption durations by the total number of customers interrupted in a year. **CAIDI** = sum of customer interruption durations/total number of customer interruptions
CAIFI (Customer Average Interruption Frequency Index)	The average number of interruptions per customer interrupted per year. It is determined by dividing the number of customer interruptions observed in a year by the number of customers affected. The customers affected are counted only once, regardless of the number of interruptions that each may have experienced during the year. This index is generally difficult to compile due to problems associated with gathering data on the number of customers affected. **CAIFI** = total number of customer interruptions/total number of customers affected

Term	Definition
CELID-n (Customers Experiencing Long Interruption Duration)	The ratio of individual customers experiencing one or more interruptions of n or more hours during a year. It is determined by dividing the total number of unique customers interrupted for n or more hours in a year by the total number of customers served. **CELID-n** = total number of unique customers interrupted for n or more hours/total number of customers served
CEMI-n (Customers Experiencing Multiple Interruptions)	The ratio of individual customers experiencing n or more interruptions during a year. It is determined by dividing the total number of unique customers experiencing n or more interruptions in a year by the total number of customers served. **CEMI-n** = total number of unique customers with n or more interruptions/total number of customers served
CEMM-n (Customers Experiencing Multiple Momentaries)	The ratio of individual customers experiencing n or more interruptions during a year. It is determined by dividing the total number of unique customers experiencing n or more momentary interruptions in a year by the total number of customers served. **CEMM-n** = total number of unique customers with n or more momentary interruptions/total number of customers served
CEMSMI-n (Customers Experiencing Multiple Sustained and Momentary Interruptions)	The ratio of individual customers experiencing n or more interruptions during a year. It is determined by dividing the total number of unique customers experiencing n or more interruptions and momentary interruptions in a year by the total number of customers served. **CEMSMI-n** = total number of unique customers with n or more interruptions and momentary interruptions/total number of customers served
Circuit Breaker	A device which is utilized to interrupt the flow of current under normal or abnormal conditions. Circuit breakers are normally intended to operate infrequently and are operated by an external set of controls.
CO2	Carbon dioxide (CO2) emissions are the release of CO^2 gas into the atmosphere, primarily resulting from human activities like burning fossil fuels (coal, oil, gas) for energy, industrial processes (cement manufacturing), and land-use changes.
Covered Conductor	A conductor covered with a dielectric having no rated insulating strength or having a rated insulating strength less than the voltage of the circuit in which the conductor is used.
Distribution Circuit	An electric line which operates at voltage levels below 35,000 volts and from which the customer's ultimate utilization voltage (for example, 120V, 240V, and 480V) is directly provided through a distribution transformer.

Term	Definition
Fault	A short circuit which occurs on an electric system. A fault is an abnormal occurrence which may be a result of a failed piece of equipment, a foreign object such as a tree limb contacting wires, or wires slapping together due to weather conditions such as high winds, snow, or ice.
Feedback	The return to a point of origin of evaluative or corrective information about an action or process.
Fuse	A device which opens when overheated by the passage of abnormally high current such as a short circuit.
Interruption	Loss of electric service to one or more customers for a period of time. See "Outage".
KVA	Kilo-Volt-Amperes. A measure of electrical capacity equal to the product of the voltage multiplied by the current divided by 1,000. Electrical equipment capacities are sometimes stated in KVA.
Loop Feed	A number of power lines forming a closed loop or ring. There are two or more routes by which any point on a loop fed circuit can receive energy.
MAIFI (Momentary Average Interruption Frequency Index)	The average number of times that a system customer is momentarily interrupted (less than 5 minutes) during a year. It is computed by dividing the total number of customers momentarily interrupted in a year by the average number of customers served during the year. A customer interruption is considered to be one interruption to one customer. **MAIFI** = ((sum of number of customers momentarily interrupted/customers served) times 12) divided by the number of months.
Major Event Day (MED)	A major event day is a day in which the daily SAIDI exceeds the threshold value, T_{MED}. In calculating the daily SAIDI, interruption durations that extend into subsequent days accrue to the day on which the interruption is initiated. MEDs are removed from metric calculations as part of the IEEE-1366 methodology.
Major Storm	In March 1995, the DPUC approved a new major storm definition, which is based on a statistical analysis of the most recent four calendar years of reliability data. Under the new definition, a major storm will be declared when the number of restoration steps exceeds the 98.5 percentile of all days in the most recent four years. All reliability data associated with interruptions beginning on that qualifying day would be excluded, even if the interruptions extend into subsequent days.
Momentary Interruption	An interruption which results in a loss of electric service for a brief period of time (less than 5 minutes). Service is usually restored by devices which operate automatically, often in less than one second.
Network Primary System	An electrical system in which the high voltage (that is, 15,000 volt) primaries of transformers are loop fed by two or more circuits.

Term	Definition
Network Secondary System	An electrical system in which the low voltage (that is, 120/208, 277/480 volt) secondaries of transformers are connected to a common network of wires for supplying light and power directly to consumers. (See also loop feed.)
Non-Tree Wire	Bare wire or any other wire not intended to withstand abrasion to tree contact.
NOX	Nitrogen Oxides (NOx) emissions are harmful gases, primarily nitric oxide (NO) and nitrogen dioxide (NO2), produced from burning fossil fuels in vehicles, power plants, and industries, as well as natural processes like lightning, contributing to smog, acid rain, and respiratory problems.
Outage	An extended interruption (greater than or equal to 5 minutes) of service to one or more customers which usually requires human intervention to restore electric service. See Appendix 16 for descriptions of the causes of outages used in this report.
Phase Spacing	The distance between the current carrying conductors in a power delivery system.
Primary (Distribution) Feeder	A primary voltage distribution circuit usually considered to be between a substation or point of supply and the distribution transformers, which supply lower voltage distribution circuits or consumer service circuits.
Radial System	An electrical distribution or transmission system which provides only one path for power to flow. It is generally considered to be the least reliable system but is also the least costly as compared to a network system.
Recloser	A device which isolates a short-circuited component from its voltage source. A recloser, unlike a fuse, may restore voltage one or more times to determine if the short circuit has cleared.
Reclosing	A technique used with circuit breakers and reclosers where voltage is interrupted to allow a short circuit to clear (that is, a tree branch to fall to the ground) and then voltage is restored to determine if the short circuit has cleared.
Reliability	The degree to which electric service is supplied continuously.
Rights-of-way	The land over which a utility line, railroad, or roadway passes. Utility facilities may also be buried in a right-of-way.
SAIDI (System Average Interruption Duration Index)	The average interruption duration in minutes per customer served. It is determined by dividing the sum of all customer interruption durations during a year by the number of customers served. **SAIDI** = sum of customer interruption durations/total number of customers.

Term	Definition
SAIFI (System Average Interruption Frequency Index)	The average number of times that a system customer is interrupted during a year. It is computed by dividing the total number of customers interrupted in a year by the average number of customers served during the year. A customer interruption is considered to be one interruption to one customer. **SAIFI** = ((sum of number of customers interrupted/customers served) times 12) divided by the number of months.
SCADA	An acronym for Supervisory Control and Data Acquisition, which is a system for controlling and gathering data on a utility system.
Sectionalizer	Similar to a switch, this device does not have the capability to isolate electric devices under short circuit conditions and must rely on some other device such as a recloser or breaker to interrupt the short circuit before opening itself to isolate the short circuit.
Service Drop	The overhead conductors between the electric supply, such as the nearest pole, and the building or structure being served.
Side Tap	A single or multi-phase portion of a distribution circuit that is supplied by the backbone feeder and protected by single-phase devices.
SOX	Sulfur Oxides emissions (SOx) are poisonous, pungent gases—primarily sulfur dioxide (SO_2) and sulfur trioxide (SO_3)—released into the atmosphere, largely by burning sulfur-containing fossil fuels like coal and oil.
Spacer Cable	A type of electric supply line construction consisting of an assembly of one or more covered conductors, separated from each other and supported from a messenger by insulating spacers.
Storm	Refer to the definition of Major Storm.
Subtransmission	A functional classification relating to that portion of utility plant used for the purpose of distributing electric energy in bulk from convenient points of the transmission system to the distribution system and in certain cases to ultimate consumers.
Switch	A device that can open or close an electrical circuit. Some switches are able to interrupt load current (loadbreak) while others can only be operated with the circuit de-energized (non-loadbreak).
Thermovision	A trade name for a system of infrared cameras and sensors used to detect heat. On an electric utility system, excessive heating of hardware is often a sign of impending failure due to loose or poor connections or other overheating equipment.
Transformer (Line)	An electromagnetic device for changing the voltage of alternating-current electricity which has been classified as distribution equipment.
Tree-Wire	A conductor with an abrasion-resistant outer covering, usually nonmetallic, and intended for use on overhead lines passing through trees (Refer to the definition of Covered Conductor).

Appendix 3: Customers Served

The United Illuminating Company

Docket Number 86-12-10
PURA Order 1

Customers Served

2025	January	**346,654**
	February	**346,840**
	March	**346,919**
	April	**346,870**
	May	**346,949**
	June	**347,099**
	July	**346,766**
	August	**346,987**
	September	**347,285**
	October	**347,557**
	November	**348,146**
	December	**348,979**
	(Average)	**347,254**

Appendix 4: Transmission and Distribution System Miles per Construction Type and Voltage Level

	15 kV or less	115 kV	345 kV
Construction Type*	**Circuit Miles***	**Circuit Miles**	**Circuit Miles**
Tree Wire	**2,518**	**0**	**0**
Non-Tree Wire	**144**	**94**	**16**
Aerial Cable	**192**	**0**	**0**
Self-Supporting Cable	**0**	**0**	**0**
Underground Cable**	**766**	**18**	**11**
TOTALS	**3,620**	**112**	**27**

* Overhead wire/cable lengths include de-energized spans

** Secondaries and services excluded

DEFINITIONS:

TREE WIRE
All primary wire used in open wire construction that is covered with a 10/64 polyethylene coating.

NON-TREE WIRE
All primary wire used in open wire construction that either has no insulation (bare) or is covered with a material having little or no insulation value.

AERIAL CABLE
Shielded primary cable suspended from a messenger attached to poles.

SELF SUPPORTING CABLE
Unshielded insulated primary wire triplexed around a messenger attached to poles.

***UNDERGROUND CABLE**
Includes both shielded primary cable in a splicing chamber and duct system, and direct buried cable.

Appendix 5: Reliability Performance against Goals

Year	CAIDI Goal	CAIDI Actual	CAIDI IEEE-1366	ASAI Actual	SAIDI Goal	SAIDI Actual	SAIDI IEEE-1366	SAIFI Goal	SAIFI Actual	SAIFI IEEE-1366	MAIFI Actual	MAIFI IEEE-1366
2025	103*	76	77	99.993	66*	35	39	0.64*	0.46	0.51	0.88	0.94
2024	103*	79	80	99.991	66*	49	49	0.64*	0.61	0.62	-	-
2023	103*	74	80	99.992	66*	43	50	0.64*	0.58	0.62	-	-
2022	103*	88	94	99.993	66*	39	46	0.64*	0.44	0.49	-	-
2021	103*	86	86	99.993	66*	40	44	0.64*	0.46	0.51	-	-
2020	103*	80	84	99.991	66*	46	56	0.64*	0.57	0.67	-	-
2019	103*	77	91	99.993	66*	38	53	0.64*	0.50	0.58	-	-
2018	103*	94	97	99.326	66*	59	66	0.64*	0.63	0.68	-	-
2017	103*	82	96	99.994	66*	33	47	0.64*	0.40	0.49	-	-
2016	103*	83	106	99.992	66*	44	70	0.64*	0.53	0.66	-	-
2015	N/A	88	94	99.993	70	37	41	0.69	0.42	0.44	-	-
2014	N/A	94	94	99.990	71	53	54	0.67	0.56	0.58	-	-
2013	N/A	87	90	99.990	73	51	54	0.69	0.58	0.59	-	-
2012	N/A	98	124	99.989	73	59	84	0.76	0.60	0.68	-	-
2011	N/A	126	115	99.981	75	102	100	0.75	0.81	0.87	-	-
2010	N/A	130	-	99.984	72	85	-	0.74	0.65	-	-	-
2009	N/A	116	-	99.987	74	68	-	0.80	0.58	-	-	-

2008	N/A	98	-	99.986	73	73	-	0.80	0.75	-	-	-
2007	N/A	99	-	99.987	70	69	-	0.73	0.69	-	-	-
2006	N/A	85	-	99.990	70	54	-	0.79	0.64	-	-	-
2005	N/A	93	-	99.988	70	66	-	0.79	0.71	-	-	-
2004	N/A	101	-	99.988	64	62	-	0.81	0.61	-	-	-
2003	N/A	92	-	99.985	68	79	-	0.85	0.86	-	-	-
2002	N/A	95	-	99.987	68	70	-	0.95	0.73	-	-	-
2001	N/A	72	-	99.989	68	62	-	0.95	0.85	-	-	-
2000	N/A	76	-	99.989	68	58	-	0.95	0.77	-	-	-
1999	N/A	74	-	99.989	68	58	-	0.95	0.79	-	-	-
1998	72	79	-	99.988	57	61	-	0.95	0.78	-	-	-
1997	72	62	-	99.991	57	48	-	0.90	0.78	-	-	-

* SAIDI and SAIFI goals for 2017 and future years are set to PURA commitments.
Previous years SAIDI and SAIFI goals were set to internal UI Corporate goals
CAIDI goal is based upon the SAIDI/SAIFI calculation.
Excluding: Outages caused by power supply or transmission problems external to UI.
Scheduled (planned) outages.
Outages caused by major storms or by customer equipment connected to UI lines

Appendix 6: UI Event Level Matrix

UI Event Level Matrix						
Event Level	**Customer Outages**	**Typical No. of Outage Orders**	**Typical No. of Non-Outage Orders**	**Typical Lineworker Needs at Storm Onset**	**Typical Lineworker Needs at Peak**	**Typical Restoration Duration**
5 Minor	Less than 5,000	n/a	n/a	6 to 12	6 to 18	Less than 12 hrs.
5 Moderate	5,000 to 10,000	25 to 50	More than 50	12 to 18	106	12 to 24 hrs.
5	10,000 to 31,356	50 to 75	75 to 100	131 to 156	131 to 206	24 to 48 hrs.
4	31,356 to 95,799	75 to 400	100 to 500	156 to 206	156 to 206	2 to 5 days
3	95,800 to 159,967	400 to 1,000	500 to 1,000	216 to 271	216 to 556	5 to 7 days
2	159,967 to 223,549	1,000 to 2,000	500 to 1,000	271 to 436	271 to 646	7 to 9 days
1A	223,549 to 287,421	2,000 to 3,000	1,000 to 2,500	436 to 601	436 to 706	9 to 14 days
1	More than 287,421	More than 3,000	More than 2,500	601 to 1,096	601 to 1,206	More than 14 days

Appendix 7: Excluded Storm Summary

In compliance with Docket Number 18-05-13, the EDC shall update the Table on Storm Information in its response to Interrogatory EL-4 and file it with its annual TDRP Report. Refer to **Appendix 9: Major Storms Data,** January 1, 2002 to present.

2025 Major Storms

Period Excluded	Type	Duration (Hours)*	Total Meters Affected	Total Meter Hours Affected
2/16 – 2/17 2025	Ice, Snow, High Winds	48	29,325	131,321
6/24/2025	Heat Wave	24	3,975	3,240
7/3/2025	Thunderstorms, Heavy Rain, Strong Winds	24	8,670	36,240
10/13/2025	High Winds, Heavy Rain	24	7,245	8,380
10/30/2025	High Winds, Heavy Rain	24	2,152	4,196
12/19/2025	High Winds, Heavy Rain	24	11,780	32,213

* Duration (Hours) is based upon major storm day classification

Appendix 8: Reporting Metrics for Major Storms Event Level 3 – Event Level 1

There were no Event Level 3 or more severe major storms in 2025.

Appendix 9: Major Storms Data, January 1, 2002 to present

In compliance with PURA's Final Decision dated May 15, 2019 on Docket Number 18-05-13: PURA 2018 Reliability Report to the General Assembly on Electric Distribution Company System Reliability, Order 1 states: "Each year, the EDC shall update the Table on its Response to Interrogatory EL-4 and file it with its annual TDRP Report".

The updated major storm information noted in Order 1 is provided in this appendix

Representative Output Only – Complete data in Excel file for 2026 TDRP – Appendix 9

No	Event Description							Outages			
	Event Start Date	Event End Date	Event Duration (Days)	Event Duration (Hours)	Event Name	Event Description	Event Category (E.g., Level 5)	Peak Number of Customers Affected	Lost Meter Hours	Peak Number of Trouble Spots	Total Number of Customers Affected and Restore
1	7/2/2002	7/4/2002	3	72	Heat Wave	Excessive Heat and Humidity	NA	NA	18,646	NA	8,539
2	7/19/2002	7/20/2002	2	48	Lightning	Lightning Storm	NA	NA	21,248	NA	4,921
3	8/2/2002	8/3/2002	2	48	Lightning	Severe Thunderstorm	NA	NA	23,483	NA	4,576
4	9/4/2002	9/4/2002	1	24	Lightning	Severe Thunderstorm	NA	NA	26,821	NA	9,976
5	9/11/2002	9/16/2002	6	144	Wind	Windstorm	NA	NA	495,045	NA	50,800
6	11/27/2002	11/27/2002	1	24	Snow, Wind	Heavy Snow and Strong Wind	NA	NA	7,015	NA	1,887
7	8/14/2003	8/14/2003	1	24	Northeast Blackout	Transmission Grid	NA	NA	186,784	NA	46,780
8	10/15/2003	10/15/2003	1	24	Wind Storm	High Winds	NA	NA	38,542	NA	14,458
9	9/18/2004	9/18/2004	1	24	Wind Storm	High Winds	NA	NA	50,877	NA	9,558
10	6/29/2005	6/30/2005	1	24	Rain, Lightning	Heavy Rain and Lightning	NA	NA	18,529	NA	7,250
11	7/19/2005	7/20/2005	1	24	Heat Wave	Heat Wave	NA	NA	2,743	NA	971
12	7/27/2005	7/28/2005	1	24	Lightning	Lightning Storm	NA	NA	64,796	NA	13,890
13	8/14/2005	8/15/2005	1	24	Lightning	Lightning, Rain and Wind	NA	NA	20,980	NA	8,394
14	9/17/2005	9/18/2005	1	24	Rain, Lightning	Heavy Rain and Lightning	NA	NA	48,950	NA	13,483
15	1/14/2006	1/15/2006	1	24	Wind, Snow, Rain	High Winds and Rice/Ice/Snow	NA	NA	69,420	NA	11,565
16	1/18/2006	1/18/2006	1	24	Rain, Wind	Strong Winds and Heavy Rains	NA	NA	87,213	NA	25,643
17	7/17/2006	7/19/2006	3	72	Heat Wave	Heat Wave	NA	NA	193,848	NA	27,595
18	7/28/2006	7/28/2006	1	24	Lightning	Lightning Storm	NA	NA	38,871	NA	7,458
19	8/1/2006	8/3/2006	3	72	Heat Wave	Heat Wave	NA	NA	137,055	NA	16,933
20	9/2/2006	9/3/2006	2	48	Tropical Storm Ernesto	Heavy Wind and Rain	NA	NA	108,170	NA	18,981
21	10/28/2006	10/28/2006	1	24	Wind, Rain	Heavy Wind and Rain	NA	NA	28,171	NA	8,772
22	7/28/2007	7/28/2007	1	24	Lightning	Heavy Rain and Lightning	NA	NA	22,116	NA	3,468
23	6/10/2008	6/11/2008	2	48	Wind, Rain, Lightning	Heavy Wind, Rain and Lightning	NA	NA	84,137	NA	19,531
24	6/16/2008	6/16/2008	1	24	Lightning	Lightning	NA	NA	38,985	NA	13,139
25	8/2/2008	8/2/2008	1	24	Lightning	Lightning	NA	NA	38,196	NA	10,503
26	8/7/2008	8/7/2008	1	24	Lightning	Lightning	NA	NA	43,327	NA	18,977
27	10/25/2008	10/25/2008	1	24	Wind, Rain	Heavy Wind and Rain	NA	NA	169,960	NA	30,639
28	1/7/2009	1/7/2009	1	24	Rain	Freezing rain	NA	NA	49,871	NA	13,521
29	2/12/2009	2/12/2009	1	24	Wind	Heavy Wind	NA	NA	14,424	NA	6,547
30	7/31/2009	8/1/2009	2	48	Lightning, Wind	Lightning and Heavy Wind	NA	NA	54,969	NA	10,160
31	10/7/2009	10/7/2009	1	24	Wind	Heavy Wind	NA	NA	18,363	NA	7,899
32	1/25/2010	1/25/2010	1	24	Wind, Rain	Heavy Wind and Rain	NA	NA	36,070	NA	11,926

Appendix 10: Excel File of Substation/Circuit Reliability Circuit Data - 2025

The United Illuminating Company
Substation/Circuit Reliability Data
For the Year 2025

Docket No. 86-12-03
DPUC – Order #1 H
Appendix: 10

SUBSTATION IDENTIFICATION	VOLTAGE	CIRCUIT NUMBER	NUMBER OF CUSTOMERS	SAIDI (MIN)	SAIFI	CAIDI (MIN)
WHITNEY AVE	4.160V	270	157	0.0	0.00	0.0
WHITNEY AVE	4.160V	273	96	2.7	0.07	36.9
ALLINGS CROSSING	13.800V	1430	462	5.4	0.11	49.0
ALLINGS CROSSING	13.800V	1431	1140	57.4	1.14	50.5
ALLINGS CROSSING	13.800V	1433	1889	126.0	1.43	88.2
ALLINGS CROSSING	13.800V	1440	571	200.0	3.01	66.4
ALLINGS CROSSING	13.800V	1441	2034	48.8	0.35	139.7
ALLINGS CROSSING	13.800V	1442	1889	2.6	0.04	67.1
ANSONIA	13.800V	3671	1827	75.5	1.28	58.8
ANSONIA	13.800V	3672	1	0.0	0.00	0.0
ANSONIA	13.800V	3673	13	0.0	0.00	0.0
ANSONIA	13.800V	3674	2263	10.8	0.05	199.6
ANSONIA	13.800V	3675	1928	3.8	0.03	115.1
ANSONIA	13.800V	3676	2396	34.4	0.11	310.9
ANSONIA	13.800V	3677	2589	6.7	0.08	81.7
ANSONIA	13.800V	3679	2340	19.0	0.18	105.4
ASH CREEK	13.800V	2660	1504	13.2	0.12	113.5
ASH CREEK	13.800V	2661	904	9.9	0.05	203.4

Page 1 output only – Complete data in Excel file for 2026 TDRP – Appendix 10

Docket No. 86-12-03

Appendix 11: Five-Year Outage by Cause Summary

The United Illuminating Company
Five Year Outage by Cause Summary - 2021 to 2025

	2025 Totals		2024 Totals		2023 Totals		2022 Totals		2021 Totals	
Main Cause	**Number of Interrupts**	**Number of Customers Interrupted**	**Number of Interrupts**	**Number of Customers Interrupted**	**Number of Interrupts**	**Number of Customers Interrupted**	**Number of Interrupts**	**Number of Customers Interrupted**	**Number of Interrupts**	**Number of Customers Interrupted**
Accident (MVA)	130	23,474	140	21,223	133	17,316	153	16,136	139	15,024
Animal Contact	191	22,435	200	14,984	158	9,596	146	12,742	137	13,262
Conductor Problem	94	4,643	109	5,095	105	5,483	99	2,103	122	11,577
Current Transformer	0	0	0	0	1	27	0	0	0	0
Customer Caused	26	277	19	132	32	117	48	1,848	63	1,158
Customer Request	24	311	10	74	19	219	27	268	13	119
Defective Connection	325	17,367	356	18,511	439	18,284	583	14,763	405	20,137
Defective Insulator	11	2,189	15	2,417	12	226	23	2,890	12	865
Defective Protective Device	144	9,049	159	38,580	172	7,683	296	17,657	201	8,372
Lightning	11	2,017	38	14,583	49	14,517	50	10,752	38	6,679
Misc Overhead Equipment	139	6,949	169	9,689	144	17,872	183	13,737	191	13,867
Non Utility Control	64	14,574	55	12,486	38	20,727	18	1,315	64	14,803
OH Transformer & Parts[1]	132	2,728	135	3,160	137	29,715	131	1,342	146	4,472
Operating Error	7	24	3	61	10	739	11	1,303	114	1,380
Overload	7	68	15	300	10	134	11	136	20	205
Planned	389	6,710	410	8,930	808	9,927	817	12,502	792	16,809
Potential Transformer	0	0	0	0	0	0	1	1	0	0
Trees	609	26,945	715	45,786	608	38,703	727	43,753	612	31,966
Underground Equip & Pad Mount Xfmr	83	8,646	77	13,421	54	10,335	75	10,070	57	8,478
Unknown	67	8,225	37	4,674	31	2,252	0	0	18	3,203
Voltage Regulator	0	0	3	3,767	0	0	0	0	0	0
Wood Product Decay/Failure	34	8,688	10	3,112	13	4,328	17	1,343	18	1,985
System Totals	**2,487**	**165,319**	**2,675**	**220,985**	**2,973**	**208,200**	**3,416**	**164,661**	**3,162**	**174,361**
Average Number of Customers	**347,254**		**345,159**		**343,284**		**342,324**		**340,562**	

[1] Substation transformers are not Overhead Transformers or Overhead Transformer Parts – Substation Transformer fault on 4.23.2023 impacting 26,687 customers was categorized into OH Transformer & Parts as there was not a Substation Transformer specific outage cause code.

Docket No. 86-12-03

The United Illuminating Company
Five Year Outage by Cause Summary - 2021 to 2025

Main Cause	2025 Totals		2024 Totals		2023 Totals		2022 Totals		2021 Totals	
	Number of Interrupts	Customer Minutes Interrupted	Number of Interrupts	Customer Minutes Interrupted	Number of Interrupts	Customer Minutes Interrupted	Number of Interrupts	Customer Minutes Interrupted	Number of Interrupts	Customer Minutes Interrupted
Accident (MVA)	130	1,883,375	140	1,422,562	133	1,680,389	153	1,981,666	139	1,396,888
Animal Contact	191	1,032,620	200	1,639,352	158	1,073,884	146	884,350	137	772,133
Conductor Problem	94	350,280	109	577,326	105	512,638	99	141,056	122	899,906
Current Transformer	0	0	0	0	1	2,561	0	0	0	0
Customer Caused	26	33,943	19	8,146	32	9,681	48	126,131	63	113,138
Customer Request	24	46,536	10	15,863	19	34,982	27	52,553	13	15,419
Defective Connection	325	1,127,968	356	1,190,471	439	1,361,519	583	603,188	405	1,594,031
Defective Insulator	11	217,332	15	125,647	12	20,114	23	86,541	12	99,128
Defective Protective Device	144	707,329	159	1,730,290	172	376,894	296	1,253,610	201	453,622
Lightning	11	120,711	38	1,216,516	49	1,460,263	50	1,142,534	38	495,858
Misc Overhead Equipment	139	419,336	169	301,911	144	757,219	183	766,714	191	872,285
Non Utility Control	64	526,858	55	1,464,049	38	428,241	18	85,466	64	1,123,961
OH Transformer & Parts[2]	132	267,615	135	275,694	137	624,333	131	195,965	146	390,326
Operating Error	7	1,701	3	982	10	10,029	11	44,454	114	32,231
Overload	7	4,864	15	31,258	10	4,914	11	12,136	20	17,886
Planned	389	460,284	410	1,021,179	808	1,111,048	817	1,285,412	792	1,162,523
Potential Transformer	0	0	0	0	0	0	1	36	0	0
Trees	609	3,070,622	715	4,892,933	608	4,766,074	727	4,872,546	612	4,123,289
Underground Equip & Pad Mount Xfmr	83	976,792	77	1,044,553	54	1,120,681	75	1,045,824	57	792,054
Unknown	67	766,570	37	518,990	31	168,161	0	0	18	288,680
Voltage Regulator	0	0	3	184,971	0	0	0	0	0	0
Wood Product Decay/Failure	34	510,278	10	206,020	13	260,956	17	124,611	18	171,184
System Totals	**2,487**	**12,525,013**	**2,675**	**17,868,713**	**2,973**	**15,784,581**	**3,416**	**14,704,794**	**3,162**	**14,814,543**
Average Number of Customers Served	**347,254**		**345,159**		**343,284**		**342,324**		**340,562**	

[2] Substation transformers are not Overhead Transformers or Overhead Transformer Parts – Substation Transformer fault on 4.23.2023 impacting 26,687 customers was categorized into OH Transformer & Parts as there was not a Substation Transformer specific outage cause code.

Appendix 12: Common Categories for Causes of Outages

Common Title	Definition
A. Forced Transmission and Power Supply	
Power supply	Outages caused by the operation of the system in conjunction with other companies such as ISO-NE imposed load shedding or loss of an external transmission line supplying the company.
B. Scheduled or Pre-Arranged Outages	
Planned	Intentionally de-energizing facilities serving customers for the purpose of apparatus change out, conversion, maintenance, relocation/extension, permanent repair, or customer request.
C. Major Storm-Related Outages	
Storm	In March 1995, the DPUC approved a new major storm definition, which is based on a statistical analysis of the most recent four calendar years of reliability data. Under the new definition, a major storm will be declared when the number of restoration steps exceeds the 98.5 percentile of all days in the most recent four years. All reliability data associated with interruptions beginning on that qualifying day would be excluded, even if the interruptions extend into subsequent days.
D. Customer-Caused Outages	
Customer owned	Any interruption caused by customer-owned equipment failure or customer operation.
E. All Other Outages: Transmission and Distribution	
Animals/birds	Any interruption caused by animals or birds contacting energized facilities.
Lightning	Any interruption caused by lightning affecting energized facilities.
Overload	Any interruption caused by an electrical overload.
Tree-related	Any interruption caused by vegetation contacting energized facilities, other than customer or employee felled trees.
Vehicle accident	Any interruption caused by a vehicle contacting a structure, guy, or enclosure.
Contact with foreign objects	Any interruption caused by unintentional contact with energized facilities brought about by human error. Examples would be ladders, kites, metallic balloons, customer-felled trees, dig-ins, boats, antennas, cranes, and human contact.
Employee operating error	Any interruption caused by an inadvertent operating error by an employee or contractor working for the Company, including employee felled trees.
Other	Any interruption for which the cause is known but not covered above such as fire, flood, vandalism, or intentional de-energizing to protect crew/public.

Common Title	Definition
Equipment Failure: OH Conductor/Cable System	Any interruption caused by the failure of a component of the OH Conductor/Cable System.
Equipment Failure: UG Cable System	Any interruption caused by the failure of a component of the UG Cable System (excludes the Direct Buried Cable System).
Equipment Failure: Direct Buried Cable System	Any interruption caused by the failure of a component of the Direct Buried Cable System.
Equipment Failure: Transformers	Any interruption caused by the failure of a distribution transformer.
Equipment Failure: Other	Any interruption caused by the failure of a component of the distribution system not covered above.
Equipment Failure: Transmission	Any interruption caused by the failure of a component of the Company's transmission system.
Equipment Failure: Substation	Any interruption caused by the failure of a component of the substation (bulk and distribution) facilities.
Unknown	Any interruption caused by unknown source. For example, if a substation circuit-breaker opens and after patrolling the line no cause is found and the circuit breaker is successfully reclosed, the interruption cause would be classified unknown.

Appendix 13: Vegetation Program Miles Trimmed & Tree Trimming Denials

Docket No. 86-12-03
PURA - Order 1

In January of 2014, UI began a Utility Protection Zone Program with the goal of establishing a clearance zone extending 8 feet horizontally and ground-to-sky vertically around all of its primary distribution lines. This plan was to be completed over 8 years. As a result of Docket No. 16-06-04, the program was extended from 8 to 12 years. In Docket No. 22-08-08 the Authority directed the Company to implement a new sequence of trimming priorities in the UPZ program and to develop a four-year work plan (2024-2027) to implement the new trimming priorities (UPZ Plan). More specifically, the Authority indicated that the UPZ must demonstrate planned work for the identified trimming priorities, including a budget, mileage planned, and cost per mile.

In Docket No. 24-10-04 the Authority subsequently determined the Company's UPZ plan complied with direction given in the 22-08-08 Decision. Motion No.5 Ruling, Oct. 27, 2023, Docket No. 23-08-09, Annual Electric Distribution Company and Reliability and Resiliency Framework Review. In its ruling on the 2024 Rate Case, the Authority allows $14,356,790 in UPZ expenses for the Rate Year.

UI's 2025 Vegetation Management Plan Metrics

2025 VM Report to PURA											
	Objections		Request for Modification		Tree			Affirmitave Consent	No Response	Completed Miles	
Town	Total	Sustained	Total	Sustained	Hazards	Removals	Prunes			Single Phase	Three Phase
Ansonia	0	0	19	0	2	19	0	14	0	1.67	0
Bridgeport	39	0	206	0	51	543	663	356	40	20.45	14.66
Derby	0	0	32	0	6	68	124	33	1	2.79	0
East Haven	0	0	56	0	33	605	377	391	17	5.79	4.55
Easton	0	0	28	0	11	64	95	35	0	0.54	0
Fairfield	8	0	104	0	60	210	379	72	13	3.13	0
Hamden	29	0	310	0	55	596	1275	411	93	13.55	7.69
Milford	15	0	250	1	17	289	1460	96	7	11.99	3.89
New Haven	315	3	1098	16	85	685	1018	424	332	27.08	18.2
North Branford	44	0	59	0	63	410	434	299	8	4.94	0
North Haven	38	0	109	0	16	172	749	59	26	12.75	9.76
Orange	10	0	149	0	27	627	1249	316	2	14.47	3.28
Shelton	28	0	264	0	215	860	2677	432	17	28.83	20.66
Stratford	10	0	309	0	17	363	613	188	41	15.48	3.55
Trumbull	32	0	192	1	31	312	1563	139	3	28.29	3.37
West Haven	30	0	126	0	62	319	698	220	27	13.58	16.08
Woodbridge	7	2	79	0	19	231	246	40	0	0.56	1.75
UI Total	**605**	**5**	**3390**	**18**	**770**	**6373**	**13620**	**3525**	**627**	**205.89**	**107.44**

RFM = Request for Modification

Objections, RFMs and Trees count number of trees. Affirmative consent and No Response count number of properties.

Objections and RFMs Sustained indicates the municipal Tree Warden has agreed with the property owner's objection of RFM.

Hazard Trees are a subset of removals.

Affirmative consent indicates consent is given for 100% UPZ clearance.

No Response indicates where the abutting property owner could not be contacted after 3 or more attempts.

Appendix 14: Tier 1 WPC

a. Worst Performing Circuits by CEMI-3 (July 2024 – June 2025 / All-In)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CEMI-3

		2024-2025
Rank	Circuit	CEMI-3
1	1694	1.0055 *
2	1686	1.0016 *
3	512	0.9984
4	510	0.9945
5	506	0.9904
6	2684	0.9280
7	2685	0.6142
8	2805	0.6136
9	2807	0.5571
10	1440	0.4231
11	3675	0.3812
12	514	0.3403
13	2625	0.3303
14	1608	0.3048
15	2803	0.3042
16	627	0.2960
17	1430	0.2662
18	3636	0.2063
19	500	0.1842
20	516	0.1802
21	2801	0.1786
22	1645	0.1684
23	1541	0.1478
24	1692	0.1477
25	2687	0.1289
26	3637	0.1272
27	2673	0.1209
28	2686	0.1032
29	2540	0.1028
30	3679	0.0894

		2024-2025
Rank	Circuit	CEMI-3
31	3540	0.0878
32	3638	0.0858
33	3466	0.0836
34	1606	0.0835
35	3653	0.0804
36	1688	0.0796
37	1531	0.0730
38	545	0.0709
39	1540	0.0640
40	1695	0.0605
41	2624	0.0601
42	2644	0.0563
43	624	0.0543
44	646	0.0529
45	2626	0.0514
46	2688	0.0492
47	2637	0.0489
48	1648	0.0480
49	2740	0.0471
50	2682	0.0462
51	1706	0.0446
52	592	0.0436
53	2737	0.0419
54	3676	0.0376
55	622	0.0355
56	3659	0.0306
57	2806	0.0273
58	1697	0.0269
59	3641	0.0263
60	3648	0.0256
61	551	0.0255
62	1605	0.0233
63	1709	0.0222
64	1711	0.0216
65	1703	0.0209
66	2536	0.0209
67	3635	0.0209
68	1890	0.0194
69	3677	0.0150
70	2683	0.0109
71	1689	0.0108

		2024-2025
Rank	Circuit	CEMI-3
72	2622	0.0106
73	273	0.0104
74	1548	0.0102
75	2669	0.0098
76	1684	0.0090
77	630	0.0089
78	2689	0.0076
79	3674	0.0075
80	1702	0.0070
81	621	0.0061
82	1690	0.0055
83	501	0.0053
84	1530	0.0047
85	2802	0.0032
86	1913	0.0031
87	1685	0.0030
88	3649	0.0028
89	1708	0.0024
90	1545	0.0023
91	1646	0.0021
92	2615	0.0017
93	2665	0.0016
94	504	0.0016
95	2542	0.0011
96	1756	0.0010
97	3654	0.0010
98	1907	0.0007
99	2643	0.0006
100	3671	0.0005
101	1542	0.0005
102	3460	0.0004
103	1912	0.0004
104	2550	0.0003

* Caused by the total number of customers connected on these circuits changing throughout the year

b. Worst Performing Circuits by CEMI-3 (July 2024 – June 2025 / Non-Excluded)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CEMI-3

		2024-2025
Rank	Circuit	CEMI-3
1	512	0.8119
2	1694	0.5409
3	510	0.4841
4	2805	0.3587
5	2625	0.2944
6	2685	0.2868
7	2684	0.1844
8	1645	0.1629
9	3637	0.1272
10	2673	0.1181
11	1686	0.1046
12	627	0.0981
13	1430	0.0974
14	1608	0.0868
15	3638	0.0850
16	1541	0.0839
17	1531	0.0636
18	1540	0.0599
19	545	0.0582
20	2644	0.0553
21	1706	0.0446
22	2803	0.0443
23	2737	0.0419
24	3466	0.0414
25	646	0.0408
26	506	0.0401
27	2686	0.0376
28	2688	0.0286
29	2806	0.0273
30	1709	0.0222
31	551	0.0210
32	3659	0.0202
33	1890	0.0194

		2024-2025
Rank	Circuit	CEMI-3
34	1711	0.0189
35	1440	0.0140
36	2622	0.0106
37	3636	0.0097
38	2626	0.0089
39	621	0.0061
40	1606	0.0057
41	1689	0.0054
42	1605	0.0048
43	1548	0.0048
44	1530	0.0047
45	3540	0.0046
46	1690	0.0044
47	2540	0.0043
48	1702	0.0035
49	2683	0.0033
50	1913	0.0031
51	2801	0.0027
52	1708	0.0020
53	1697	0.0020
54	592	0.0015
55	2542	0.0011
56	2682	0.0011
57	1756	0.0010
58	3654	0.0010
59	500	0.0009
60	2740	0.0006
61	1542	0.0005
62	3676	0.0004

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

c. Worst Performing Circuits by CEMI-3 (2025 Calendar Year / All-In)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CEMI-3

		2025
Rank	Circuit	CEMI-3
1	1686	0.9996
2	1694	0.9920
3	1440	0.9912
4	3660	0.9875
5	1648	0.9720
6	2688	0.8344
7	2540	0.6226
8	3635	0.5880
9	2807	0.5857
10	1541	0.4741
11	2683	0.2333
12	1692	0.2032
13	1907	0.1746
14	512	0.1729
15	1645	0.1713
16	3633	0.1637
17	2503	0.1382
18	2675	0.1252
19	3545	0.1229
20	3654	0.1138
21	2682	0.1030
22	3460	0.0911
23	3638	0.0872
24	1608	0.0827
25	2542	0.0816
26	545	0.0785
27	1433	0.0635
28	1688	0.0606
29	646	0.0544
30	2637	0.0491
31	2663	0.0483
32	1431	0.0482
33	592	0.0467
34	3653	0.0430

		2025
Rank	Circuit	CEMI-3
35	2548	0.0429
36	2662	0.0421
37	2673	0.0412
38	2801	0.0402
39	2624	0.0390
40	1531	0.0379
41	2686	0.0372
42	2626	0.0349
43	1542	0.0347
44	2684	0.0341
45	2502	0.0333
46	2740	0.0305
47	2803	0.0271
48	3649	0.0253
49	3466	0.0247
50	2643	0.0245
51	2665	0.0240
52	1711	0.0236
53	2516	0.0228
54	2550	0.0227
55	2685	0.0221
56	3659	0.0183
57	506	0.0183
58	2627	0.0181
59	1685	0.0167
60	3650	0.0158
61	3636	0.0149
62	2543	0.0148
63	3679	0.0137
64	1684	0.0135
65	2500	0.0135
66	2689	0.0120
67	3637	0.0117
68	550	0.0113
69	1912	0.0104
70	2737	0.0101
71	2536	0.0097
72	516	0.0096
73	1605	0.0096
74	1441	0.0079
75	1606	0.0077

		2025
Rank	Circuit	CEMI-3
76	1548	0.0075
77	1706	0.0074
78	1750	0.0072
79	2642	0.0070
80	3641	0.0068
81	1754	0.0057
82	3543	0.0056
83	3671	0.0055
84	1690	0.0054
85	631	0.0054
86	2669	0.0053
87	2802	0.0040
88	1913	0.0031
89	627	0.0029
90	1691	0.0028
91	510	0.0015
92	2805	0.0015
93	1697	0.0015
94	3655	0.0014
95	2538	0.0011
96	2622	0.0011
97	2644	0.0009
98	2619	0.0008
99	2676	0.0007
100	1530	0.0007
101	2660	0.0007
102	3540	0.0007
103	3631	0.0006
104	1707	0.0005
105	1702	0.0004

d. Worst Performing Circuits by CEMI-3 (2025 Calendar Year / Non-Excluded)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CEMI-3

		2025
Rank	Circuit	CEMI-3
1	1440	0.9877
2	1694	0.9806
3	1648	0.9720
4	2688	0.7520
5	2807	0.5857
6	2540	0.5204
7	1645	0.1596
8	1686	0.0922
9	3638	0.0856
10	2682	0.0668
11	2675	0.0654
12	3654	0.0590
13	2542	0.0537
14	1692	0.0491
15	646	0.0423
16	2662	0.0421
17	1531	0.0375
18	1433	0.0355
19	3660	0.0314
20	2626	0.0314
21	2548	0.0288
22	2684	0.0285
23	2673	0.0275
24	2643	0.0245
25	1711	0.0236
26	1608	0.0233
27	2685	0.0221
28	2801	0.0179
29	1685	0.0157
30	512	0.0156
31	3649	0.0142
32	3466	0.0104
33	2536	0.0097

		2025
Rank	Circuit	CEMI-3
34	2543	0.0083
35	1548	0.0075
36	1750	0.0072
37	2642	0.0070
38	545	0.0066
39	3637	0.0061
40	3545	0.0056
41	2737	0.0055
42	3671	0.0049
43	506	0.0046
44	1690	0.0043
45	2663	0.0042
46	1913	0.0031
47	1691	0.0028
48	1441	0.0025
49	2686	0.0016
50	1542	0.0015
51	3636	0.0015
52	2805	0.0015
53	1697	0.0015
54	3635	0.0014
55	2622	0.0011
56	2803	0.0010
57	1431	0.0009
58	1530	0.0007
59	2660	0.0007
60	2538	0.0006
61	3631	0.0006
62	510	0.0005
63	1707	0.0005
64	2500	0.0004
65	2627	0.0003
66	631	0.0003

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

e. Worst Performing Circuits by CELID-9 (July 2024 – June 2025 / All-In)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CELID-9

		2024-2025
Rank	Circuit	CELID-9
1	2800	1.1765 *
2	2617	1.0032 *
3	2803	0.7547
4	514	0.6750
5	2615	0.6190
6	2801	0.5759
7	2807	0.5571
8	3679	0.5024
9	2624	0.4591
10	2687	0.4285
11	3540	0.4115
12	3675	0.3781
13	1608	0.3689
14	3545	0.3017
15	510	0.2965
16	2805	0.2877
17	3636	0.2070
18	506	0.1898
19	2682	0.1805
20	512	0.1677
21	2802	0.1517
22	2684	0.1304
23	2686	0.1263
24	516	0.1183
25	627	0.1179
26	2734	0.1148
27	1605	0.1067
28	3466	0.1011
29	1692	0.0954
30	2685	0.0944
31	501	0.0927
32	500	0.0917
33	504	0.0831

		2024-2025
Rank	Circuit	CELID-9
34	3673	0.0769
35	2740	0.0692
36	3674	0.0535
37	2619	0.0508
38	2676	0.0498
39	1690	0.0410
40	2688	0.0394
41	622	0.0389
42	2741	0.0359
43	1648	0.0349
44	2502	0.0323
45	1684	0.0315
46	1694	0.0296
47	624	0.0233
48	2500	0.0197
49	3659	0.0171
50	2616	0.0153
51	1685	0.0139
52	2548	0.0136
53	3631	0.0135
54	646	0.0126
55	3676	0.0125
56	1433	0.0122
57	1695	0.0116
58	1441	0.0113
59	2683	0.0109
60	592	0.0108
61	2622	0.0106
62	273	0.0104
63	2538	0.0101
64	552	0.0097
65	1431	0.0088
66	2665	0.0084
67	2627	0.0083
68	3677	0.0081
69	1912	0.0072
70	1603	0.0069
71	545	0.0066
72	1604	0.0066
73	3638	0.0063
74	1540	0.0061

		2024-2025
Rank	Circuit	CELID-9
75	1750	0.0057
76	2543	0.0057
77	1686	0.0053
78	1756	0.0046
79	2668	0.0040
80	550	0.0038
81	1906	0.0035
82	3649	0.0035
83	1693	0.0033
84	1880	0.0027
85	2626	0.0027
86	1697	0.0024
87	1602	0.0023
88	3460	0.0022
89	1430	0.0022
90	1646	0.0021
91	1606	0.0021
92	2660	0.0020
93	1645	0.0017
94	1890	0.0016
95	1754	0.0014
96	1701	0.0014
97	3653	0.0014
98	1707	0.0014
99	1649	0.0011
100	1753	0.0011
101	2806	0.0011
102	1689	0.0011
103	1902	0.0010
104	1691	0.0009
105	3648	0.0009
106	647	0.0008
107	1541	0.0008
108	1531	0.0008
109	2505	0.0008
110	1696	0.0007
111	1548	0.0007
112	1917	0.0006
113	3543	0.0006
114	3671	0.0005
115	3633	0.0005

		2024-2025
Rank	Circuit	CELID-9
116	2730	0.0005
117	1542	0.0005
118	1711	0.0004
119	2536	0.0004
120	1907	0.0004
121	1702	0.0004
122	631	0.0003

* Caused by the total number of customers connected on these circuits changing throughout the year

f. Worst Performing Circuits by CELID-9 (July 2024 – June 2025 / Non-Excluded)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CELID-9

		2024-2025
Rank	Circuit	CELID-9
1	2803	0.1458
2	3673	0.0769
3	2676	0.0490
4	1608	0.0431
5	622	0.0389
6	2684	0.0341
7	514	0.0234
8	2500	0.0185
9	506	0.0168
10	2548	0.0136
11	512	0.0124
12	2622	0.0106
13	552	0.0097
14	1685	0.0089
15	1431	0.0079
16	1603	0.0069
17	545	0.0066
18	1540	0.0061
19	2624	0.0051
20	1756	0.0046
21	550	0.0038
22	2802	0.0032
23	1430	0.0022
24	2688	0.0018
25	3460	0.0018
26	1754	0.0014
27	1701	0.0014
28	2734	0.0012
29	2682	0.0011
30	510	0.0010
31	500	0.0009
32	3674	0.0009
33	647	0.0008

		2024-2025
Rank	Circuit	CELID-9
34	516	0.0008
35	504	0.0008
36	2505	0.0008
37	2805	0.0007
38	3653	0.0007
39	3671	0.0005
40	3633	0.0005
41	1711	0.0004
42	1684	0.0004
43	2536	0.0004

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

g. Worst Performing Circuits by CELID-9 (2025 Calendar Year / All-In)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CELID-9

		2025
Rank	Circuit	CELID-9
1	1862	1.0000
2	2504	1.0000
3	3540	0.4102
4	3545	0.3855
5	2516	0.2275
6	1608	0.2043
7	2618	0.1615
8	512	0.1547
9	627	0.1174
10	1605	0.1066
11	1692	0.0951
12	2803	0.0881
13	2682	0.0835
14	1542	0.0688
15	514	0.0679
16	2502	0.0667
17	2683	0.0650
18	2687	0.0625
19	545	0.0542
20	3674	0.0530
21	2676	0.0492
22	3651	0.0442
23	2685	0.0396
24	2624	0.0390
25	622	0.0390
26	2663	0.0382
27	2801	0.0353
28	1648	0.0351
29	2673	0.0351
30	2615	0.0339
31	2627	0.0338
32	2686	0.0334
33	506	0.0330
34	2740	0.0316

		2025
Rank	Circuit	CELID-9
35	1684	0.0315
36	2802	0.0309
37	1441	0.0305
38	1694	0.0294
39	3638	0.0285
40	510	0.0284
41	1705	0.0269
42	501	0.0256
43	3636	0.0224
44	2684	0.0217
45	2638	0.0190
46	2668	0.0186
47	3679	0.0171
48	2548	0.0141
49	2734	0.0135
50	3654	0.0133
51	1433	0.0127
52	646	0.0126
53	504	0.0118
54	3676	0.0117
55	1695	0.0116
56	1863	0.0116
57	2550	0.0111
58	273	0.0104
59	2661	0.0100
60	2730	0.0099
61	1685	0.0098
62	552	0.0097
63	592	0.0089
64	1431	0.0088
65	3655	0.0086
66	2741	0.0083
67	3653	0.0082
68	3466	0.0072
69	3642	0.0067
70	1603	0.0060
71	1442	0.0058
72	1750	0.0057
73	2737	0.0055
74	1548	0.0055
75	2742	0.0054

		2025
Rank	Circuit	CELID-9
76	1686	0.0045
77	2731	0.0044
78	2626	0.0040
79	3460	0.0039
80	2500	0.0039
81	550	0.0038
82	1906	0.0035
83	1711	0.0035
84	1693	0.0033
85	2806	0.0033
86	2688	0.0027
87	3650	0.0026
88	1606	0.0026
89	2619	0.0025
90	1697	0.0024
91	1430	0.0022
92	1646	0.0021
93	1645	0.0017
94	1890	0.0016
95	3675	0.0016
96	2805	0.0015
97	1754	0.0014
98	1691	0.0014
99	1707	0.0014
100	1753	0.0011
101	1649	0.0011
102	1604	0.0011
103	1689	0.0011
104	1756	0.0010
105	1902	0.0010
106	1545	0.0009
107	1541	0.0008
108	1531	0.0008
109	3677	0.0008
110	1701	0.0007
111	1696	0.0007
112	2733	0.0007
113	2660	0.0007
114	1917	0.0006
115	3543	0.0006
116	3660	0.0006

		2025
Rank	Circuit	CELID-9
117	3631	0.0006
118	3671	0.0005
119	3633	0.0005
120	3648	0.0004
121	1907	0.0004
122	1912	0.0004
123	631	0.0003

h. Worst Performing Circuits by CELID-9 (2025 Calendar Year / Non-Excluded)

The United Illuminating Company
CEMI/CELID Worst Circuit List
Sorted by Worst Circuit-Level CELID-9

		2025
Rank	Circuit	CELID-9
1	1862	1.0000
2	2504	1.0000
3	2618	0.1615
4	2676	0.0492
5	622	0.0390
6	2663	0.0316
7	2627	0.0300
8	1441	0.0295
9	2802	0.0293
10	1705	0.0269
11	501	0.0256
12	2684	0.0217
13	2683	0.0167
14	514	0.0153
15	2740	0.0138
16	2548	0.0136
17	1863	0.0116
18	2550	0.0111
19	552	0.0097
20	2741	0.0083
21	3638	0.0079
22	1431	0.0079
23	1608	0.0076
24	1685	0.0069
25	2742	0.0054
26	1548	0.0048
27	2731	0.0044
28	550	0.0038
29	1711	0.0035
30	2624	0.0026
31	3636	0.0022
32	2682	0.0022
33	2688	0.0018

		2025
Rank	Circuit	CELID-9
34	1754	0.0014
35	545	0.0011
36	1604	0.0011
37	1542	0.0010
38	1756	0.0010
39	2619	0.0008
40	3466	0.0008
41	1701	0.0007
42	3653	0.0007
43	2733	0.0007
44	2660	0.0007
45	1442	0.0005
46	3675	0.0005
47	3633	0.0005
48	1691	0.0005
49	1545	0.0005
50	1603	0.0005
51	3674	0.0004
52	3677	0.0004
53	1684	0.0004

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

Appendix 15: Tier 2 WPC

a. 100 Worst Performing Circuits by SAIDI (July 2024 – June 2025)

The United Illuminating Company
SAIDI/SAIFI 100 Worst Circuit List
Sorted by Worst Circuit-Level SAIDI (Minutes)

Docket No. 86-12-03
PURA-Order #1E
Appendix 15

		Average	July 2024 – June 2025	2024	July 2023 – June 2024	July 2022 – June 2023	July 2021 – June 2022
Rank	Circuit	SAIDI (Mins)	SAIDI (Mins)	Flag	SAIDI (Mins)	SAIDI (Mins)	SAIDI (Mins)
1	576	93	371	Y	0	0	0
2	1910	62	249	Y	0	0	0
3	2684	224	242	Y	120	166	369
4	512	229	213	Y	509	47	145
5	2669	86	201	Y	38	74	30
6	2625	101	187	Y	211	1	6
7	510	74	183	Y	4	12	96
8	551	49	174	Y	9	7	6
9	1709	53	173	Y	7	4	27
10	516	58	162	Y	19	8	42
11	3540	42	147	Y	1	5	14
12	2805	81	145	Y	86	86	5
13	2686	49	145	Y	22	14	13
14	1531	87	144	Y	28	102	75
15	1862	194	142	Y	303	0	329
16	2673	147	142	Y	251	113	82
17	2685	96	141	Y	45	128	68
18	3673	37	140	Y	0	8	0
19	2803	96	138	Y	133	16	97
20	2807	69	135	Y	142	0	0
21	506	96	132	Y	13	164	74
22	2626	83	130	Y	44	126	33
23	1645	70	129	Y	7	4	138
24	1686	50	126	Y	14	48	11
25	2740	49	125	Y	11	25	35
26	2688	287	121	Y	468	110	447
27	1694	81	112	Y	7	102	104
28	545	41	112	Y	5	34	11
29	1695	56	112	Y	3	31	77
30	2543	33	111	Y	15	4	2
31	1708	31	111	Y	9	3	2

		Average	July 2024 – June 2025	2024	July 2023 – June 2024	July 2022 – June 2023	July 2021 – June 2022
Rank	Circuit	SAIDI (Mins)	SAIDI (Mins)	Flag	SAIDI (Mins)	SAIDI (Mins)	SAIDI (Mins)
32	2536	137	103	Y	63	364	17
33	2661	33	102	Y	6	23	1
34	3654	41	99	Y	6	5	55
35	2644	30	97	Y	4	2	18
36	1608	130	94	N	218	95	111
37	1520	24	94	N	0	0	0
38	2515	48	93	N	49	46	5
39	2806	57	87	N	140	0	0
40	2639	57	87	N	49	1	91
41	2550	133	86	N	137	305	3
42	1540	103	84	N	126	8	195
43	3460	71	79	N	186	4	13
44	1646	59	79	N	36	116	6
45	2502	93	73	N	296	0	4
46	1759	45	71	N	77	28	3
47	1541	33	70	N	42	4	14
48	2548	57	65	N	156	4	2
49	1532	55	61	N	11	26	120
50	1440	22	60	N	6	0	21
51	2682	163	59	N	193	356	43
52	1530	41	58	N	21	8	78
53	1706	18	57	N	4	1	10
54	1906	93	56	N	99	216	1
55	627	21	56	N	13	7	9
56	1603	17	56	N	6	3	2
57	2800	51	55	N	56	0	93
58	1606	41	54	N	10	99	2
59	2801	158	52	N	217	181	180
60	2624	126	52	N	150	10	291
61	1545	67	52	N	135	1	79
62	514	38	51	N	46	34	22
63	2540	40	50	N	89	3	17
64	1648	59	50	N	3	180	4
65	3659	44	49	N	49	70	9
66	2503	74	46	N	248	0	2
67	3466	25	46	N	30	18	5
68	1430	14	45	N	8	1	1
69	624	18	44	N	19	2	6
70	646	19	43	N	15	12	5
71	2676	29	40	N	65	11	0

Rank	Circuit	Average SAIDI (Mins)	July 2024 – June 2025 SAIDI (Mins)	2024 Flag	July 2023 – June 2024 SAIDI (Mins)	July 2022 – June 2023 SAIDI (Mins)	July 2021 – June 2022 SAIDI (Mins)
72	1548	61	39	N	47	88	70
73	3676	45	37	N	69	11	64
74	3638	41	37	N	22	3	101
75	3677	32	36	N	14	26	50
76	1605	129	35	N	259	73	147
77	1688	73	35	N	24	83	148
78	1697	61	35	N	14	120	74
79	623	26	35	N	2	15	50
80	3637	42	34	N	38	89	8
81	2689	27	31	N	53	8	14
82	1649	60	31	N	15	109	84
83	3543	21	30	N	32	20	1
84	2663	23	30	N	9	1	50
85	2737	20	30	N	2	42	7
86	2660	66	29	N	42	114	79
87	1711	19	29	N	7	21	20
88	550	18	29	N	3	14	24
89	622	9	29	N	3	2	2
90	2683	207	27	N	172	278	349
91	1433	25	27	N	61	11	1
92	1431	27	26	N	67	7	6
93	2675	17	26	N	9	6	26
94	2615	58	24	N	72	129	5
95	2622	22	24	N	57	1	4
96	2633	96	24	N	1	333	26
97	2542	19	23	N	25	24	3
98	3636	16	22	N	27	7	9
99	500	14	22	N	2	23	8
100	1642	10	21	N	17	0	3

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIDI value for the period of July 2024 to June 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

b. 100 Worst Performing Circuits by SAIDI (2025 Calendar Year)

The United Illuminating Company
SAIDI/SAIFI 100 Worst Circuit List
Sorted by Worst Circuit-Level SAIDI (Minutes)

Docket No. 86-12-03
PURA-Order #1E
Appendix 15

Rank	Circuit	Average SAIDI (Mins)	2025 SAIDI (Mins)	2025 Flag	2024 SAIDI (Mins)	2023 SAIDI (Mins)	2022 SAIDI (Mins)
1	1862	353	780[3]	Y	115	188	329
2	2506	180	718[4]	Y	0	0	0
3	2688	324	391	Y	371	162	371
4	1910	61	243	Y	0	0	0
5	2542	78	239	Y	38	10	24
6	1648	102	210	Y	13	120	64
7	1440	67	200	Y	60	6	1
8	2807	79	172	Y	144	0	0
9	2618	77	166	Y	25	0	117
10	516	57	160	Y	1	27	41
11	1694	85	152	Y	33	94	60
12	3654	38	139	Y	1	9	3
13	2740	52	136	Y	8	31	32
14	1645	38	129	Y	5	3	13
15	2543	37	129	Y	3	13	4
16	1433	50	126	Y	49	13	12
17	2540	60	124	Y	15	82	17
18	1686	49	124	Y	10	43	17
19	2548	72	123	Y	159	3	2
20	2801	159	113	Y	199	124	201
21	2673	140	103	Y	302	52	104
22	2550	135	97	Y	50	199	192
23	3633	35	97	Y	23	18	2
24	2627	36	97	Y	25	5	18
25	2666	96	94	Y	0	73	218
26	1520	23	94	Y	0	0	0
27	2515	48	93	Y	46	49	5
28	3460	70	89	Y	133	59	1
29	2682	169	89	Y	197	24	368
30	512	228	87	Y	281	389	154

[3] Mill River 1862 is a 7-customer circuit that experienced two blue-sky outages in 2025 with durations of over 2 hours (bird contact) and 10 hours (conductor failure) respectively.
[4] Pequonnock 2506 is a single-customer circuit that experienced one blue-sky outage in 2025 with a duration of almost 12 hours (bad transformer + customer internal issues).

Rank	Circuit	Average SAIDI (Mins)	2023 SAIDI (Mins)	2023 Flag	2022 SAIDI (Mins)	2021 SAIDI (Mins)	2020 SAIDI (Mins)
31	2684	181	85	N	249	180	209
32	1541	47	85	N	90	1	12
33	3545	36	85	N	9	36	14
34	1759	46	83	N	66	7	31
35	3466	36	81	N	28	13	22
36	1531	99	80	N	116	84	117
37	1532	74	80	N	72	0	143
38	2639	34	78	N	57	0	0
39	3671	24	75	N	1	17	1
40	2502	89	75	N	277	0	4
41	1608	124	75	N	130	171	119
42	2662	60	73	N	130	29	8
43	2643	38	72	N	0	69	11
44	1701	36	71	N	5	61	6
45	1545	83	67	N	53	135	77
46	3650	32	66	N	0	60	0
47	2625	99	61	N	331	5	1
48	3635	42	61	N	4	4	101
49	1685	41	60	N	27	69	9
50	2536	149	58	N	122	396	19
51	1431	35	57	N	25	45	13
52	2663	18	57	N	2	7	8
53	2739	14	55	N	0	0	0
54	2675	18	55	N	3	6	10
55	1709	47	53	N	123	9	4
56	514	46	52	N	63	31	37
57	3660	20	52	N	10	10	8
58	2800	50	52	N	56	0	93
59	2686	58	51	N	158	12	13
60	2802	72	51	N	168	9	58
61	1692	99	50	N	143	145	59
62	1542	41	50	N	68	44	2
63	2535	21	49	N	9	17	8
64	3638	41	49	N	10	14	93
65	1441	85	49	N	6	133	153
66	2635	126	46	N	102	2	354
67	510	74	46	N	147	13	90
68	2683	177	46	N	23	276	362
69	627	21	42	N	27	3	10
70	2503	79	41	N	246	30	1
71	1697	48	41	N	16	4	131

Rank	Circuit	Average SAIDI (Mins)	2023 SAIDI (Mins)	2023 Flag	2022 SAIDI (Mins)	2021 SAIDI (Mins)	2020 SAIDI (Mins)
72	2676	29	41	N	1	68	7
73	646	18	40	N	9	11	11
74	2538	45	40	N	1	138	2
75	1706	16	39	N	23	0	1
76	2624	59	39	N	56	112	29
77	2500	43	37	N	53	6	74
78	2626	87	36	N	149	112	51
79	1711	16	36	N	3	15	11
80	3676	30	34	N	3	77	4
81	1688	35	33	N	3	100	6
82	1548	54	31	N	49	22	113
83	1649	60	31	N	9	7	192
84	550	17	30	N	2	13	25
85	2669	86	30	N	201	47	65
86	622	10	28	N	7	3	1
87	1886	7	28	N	0	0	0
88	592	26	27	N	10	51	16
89	2803	90	26	N	235	15	84
90	1863	12	26	N	0	19	3
91	3658	28	26	N	8	48	29
92	1705	22	26	N	3	52	5
93	1693	13	25	N	11	1	15
94	1647	19	25	N	5	45	0
95	3543	21	24	N	7	47	5
96	545	44	24	N	104	8	39
97	2690	26	23	N	11	14	57
98	2689	26	23	N	43	30	8
99	1605	119	23	N	232	102	121
100	3636	18	23	N	30	9	10

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIDI value for the calendar year of 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

c. 100 Worst Performing Circuits by SAIFI (July 2024 – June 2025)

The United Illuminating Company
SAIDI/SAIFI 100 Worst Circuit List
Sorted by Worst Circuit-Level SAIFI

Docket No. 86-12-03
PURA-Order #1E
Appendix 15

		Average	July 2024 – June 2025	2024	July 2023 – June 2024	July 2022 – June 2023	July 2021 – June 2022
Rank	Circuit	SAIFI	SAIFI	Flag	SAIFI	SAIFI	SAIFI
1	512	3.00	3.23	Y	5.90	1.47	1.39
2	510	1.20	2.59	Y	0.08	1.09	1.05
3	1694	1.33	2.55	Y	0.19	1.04	1.53
4	2685	1.33	2.32	Y	0.48	1.38	1.14
5	1645	0.75	2.16	Y	0.13	0.06	0.64
6	2805	1.24	2.15	Y	1.14	1.57	0.09
7	1686	0.94	2.11	Y	1.04	0.47	0.13
8	2684	2.04	2.11	Y	0.77	1.57	3.70
9	1646	0.69	2.01	Y	0.37	0.34	0.02
10	2625	1.01	1.92	Y	2.05	0.02	0.04
11	1430	0.49	1.82	Y	0.10	0.01	0.03
12	1695	0.94	1.82	Y	0.02	0.14	1.78
13	627	0.55	1.69	Y	0.07	0.08	0.36
14	2807	0.65	1.60	Y	1.01	0.00	0.00
15	2806	0.68	1.59	Y	1.13	0.00	0.01
16	1531	1.28	1.50	Y	0.44	1.18	2.01
17	646	0.48	1.47	Y	0.25	0.12	0.08
18	551	0.66	1.41	Y	1.03	0.10	0.10
19	1440	0.52	1.41	Y	0.05	0.00	0.63
20	2803	0.88	1.40	Y	1.10	0.14	0.87
21	506	1.18	1.32	Y	0.10	2.69	0.62
22	2673	1.51	1.25	Y	2.80	0.63	1.35
23	576	0.31	1.25	Y	0.00	0.00	0.00
24	2644	0.52	1.20	Y	0.07	0.08	0.73
25	545	0.41	1.20	Y	0.04	0.36	0.05
26	1706	0.34	1.19	Y	0.05	0.01	0.09
27	1540	0.98	1.18	Y	1.40	0.12	1.22
28	2801	1.68	1.17	N	2.21	1.60	1.75
29	2686	0.68	1.16	N	1.20	0.11	0.26
30	2536	1.09	1.15	N	0.45	2.51	0.26
31	1709	0.45	1.13	N	0.05	0.10	0.50
32	500	0.82	1.13	N	0.03	1.06	1.04
33	1530	1.07	1.12	N	1.08	0.08	2.00
34	2626	1.12	1.11	N	1.13	1.13	1.10

Rank	Circuit	Average SAIFI	July 2024 – June 2025 SAIFI	2024 Flag	July 2023 – June 2024 SAIFI	July 2022 – June 2023 SAIFI	July 2021 – June 2022 SAIFI
35	2540	0.60	1.11	N	1.10	0.03	0.14
36	1648	0.71	1.11	N	0.02	1.65	0.04
37	3540	0.31	1.09	N	0.01	0.07	0.06
38	2542	0.35	1.08	N	0.17	0.14	0.02
39	1431	0.39	1.06	N	0.32	0.05	0.13
40	516	1.06	1.06	N	0.14	1.00	2.03
41	1606	0.75	1.06	N	0.13	1.75	0.06
42	2550	1.46	1.04	N	1.61	3.17	0.03
43	2515	0.46	1.04	N	0.56	0.23	0.01
44	1688	1.24	1.04	N	0.25	1.05	2.60
45	1910	0.26	1.04	N	0.00	0.00	0.00
46	2669	0.45	1.03	N	0.24	0.43	0.08
47	1708	0.33	1.03	N	0.17	0.07	0.05
48	3654	0.57	1.03	N	0.11	0.09	1.05
49	624	0.36	1.02	N	0.26	0.02	0.13
50	2740	0.50	1.02	N	0.06	0.44	0.46
51	1603	0.29	1.01	N	0.06	0.05	0.03
52	1862	1.93	1.00	N	4.00	0.00	2.71
53	1649	0.86	1.00	N	0.18	1.22	1.04
54	1532	0.63	0.96	N	0.15	0.89	0.50
55	1711	0.47	0.96	N	0.05	0.76	0.11
56	2503	1.25	0.95	N	3.98	0.02	0.03
57	2800	0.74	0.94	N	1.00	0.00	1.00
58	550	0.26	0.91	N	0.02	0.07	0.03
59	3638	0.62	0.90	N	0.21	0.13	1.22
60	2688	2.04	0.85	N	4.34	0.89	2.09
61	2639	0.58	0.85	N	0.46	0.01	0.99
62	1520	0.21	0.83	N	0.00	0.00	0.00
63	1608	1.10	0.79	N	1.34	0.89	1.36
64	1697	0.93	0.79	N	0.15	1.15	1.64
65	1759	0.64	0.77	N	0.85	0.87	0.05
66	3636	0.27	0.74	N	0.19	0.04	0.11
67	2548	0.46	0.65	N	1.11	0.06	0.02
68	2502	0.43	0.65	N	1.00	0.00	0.08
69	3659	0.43	0.65	N	0.59	0.38	0.10
70	2543	0.21	0.63	N	0.11	0.07	0.04
71	3460	0.49	0.62	N	1.13	0.08	0.11
72	1541	0.31	0.58	N	0.34	0.04	0.29
73	1906	1.02	0.54	N	1.01	2.52	0.02
74	3677	0.53	0.53	N	0.12	1.11	0.35

Rank	Circuit	Average SAIFI	July 2024 – June 2025 SAIFI	2024 Flag	July 2023 – June 2024 SAIFI	July 2022 – June 2023 SAIFI	July 2021 – June 2022 SAIFI
75	2662	0.44	0.51	N	1.14	0.02	0.09
76	2624	1.38	0.48	N	2.62	0.14	2.26
77	2633	0.71	0.47	N	0.03	1.85	0.47
78	1545	0.65	0.43	N	1.05	0.01	1.09
79	3637	0.34	0.41	N	0.07	0.84	0.03
80	1433	0.25	0.39	N	0.55	0.04	0.02
81	2661	0.20	0.39	N	0.07	0.33	0.01
82	2689	0.23	0.37	N	0.36	0.06	0.13
83	2682	1.19	0.35	N	2.01	1.92	0.47
84	1702	0.42	0.35	N	0.27	0.96	0.11
85	504	0.37	0.33	N	0.03	1.05	0.05
86	1548	0.44	0.31	N	0.36	0.54	0.56
87	1642	0.33	0.28	N	0.94	0.01	0.07
88	3466	0.22	0.28	N	0.32	0.19	0.07
89	2668	0.95	0.26	N	1.63	1.84	0.08
90	1707	0.34	0.25	N	0.27	0.04	0.79
91	2663	0.12	0.25	N	0.07	0.02	0.14
92	1605	1.22	0.24	N	2.48	0.58	1.58
93	630	0.48	0.24	N	0.00	1.67	0.00
94	2675	0.15	0.23	N	0.07	0.14	0.15
95	3543	0.18	0.22	N	0.34	0.13	0.03
96	2660	0.56	0.22	N	0.29	1.22	0.51
97	623	0.12	0.22	N	0.04	0.07	0.16
98	2737	0.34	0.22	N	0.01	1.02	0.09
99	2683	2.06	0.20	N	1.68	3.74	2.61
100	625	0.32	0.20	N	0.02	0.02	1.03

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIFI value for the period of July 2024 to July 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

d. 100 Worst Performing Circuits by SAIFI (2025 Calendar Year)

The United Illuminating Company
SAIDI/SAIFI 100 Worst Circuit List
Sorted by Worst Circuit-Level SAIFI

Docket No. 86-12-03
PURA-Order #1E
Appendix 15

		Average	2024	2024	2023	2022	2021
Rank	Circuit	SAIFI	SAIFI	Flag	SAIFI	SAIFI	SAIFI
1	2688	2.53	3.16	Y	3.83	1.18	1.96
2	1648	1.20	3.06	Y	0.08	0.63	1.05
3	1694	1.33	3.05	Y	0.59	1.13	0.56
4	1440	1.12	3.01	Y	1.43	0.05	0.01
5	2540	0.98	2.55	Y	0.20	1.04	0.13
6	2807	0.80	2.19	Y	1.03	0.00	0.00
7	1645	0.68	2.16	Y	0.12	0.05	0.41
8	1686	0.91	2.09	Y	0.07	1.44	0.06
9	3654	0.58	2.06	Y	0.01	0.16	0.07
10	2542	0.86	2.05	Y	1.16	0.08	0.14
11	3660	0.56	2.04	Y	0.10	0.04	0.07
12	1862	2.18	2.00	Y	1.00	3.00	2.71
13	2543	0.48	1.72	Y	0.03	0.10	0.06
14	2548	0.71	1.63	Y	1.12	0.05	0.03
15	1759	0.81	1.54	Y	0.74	0.06	0.91
16	1433	0.51	1.43	Y	0.38	0.19	0.05
17	646	0.46	1.43	Y	0.10	0.22	0.10
18	2801	1.50	1.37	Y	2.14	1.14	1.32
19	2675	0.40	1.31	Y	0.05	0.03	0.21
20	3671	0.62	1.28	Y	0.00	1.15	0.04
21	2686	0.93	1.19	Y	2.26	0.07	0.20
22	1542	0.70	1.17	Y	1.34	0.26	0.03
23	2684	1.58	1.17	Y	1.59	1.24	2.33
24	627	0.52	1.17	Y	0.67	0.03	0.23
25	2662	0.61	1.17	Y	1.04	0.14	0.09
26	2536	1.36	1.16	Y	1.29	2.74	0.25
27	1701	0.56	1.14	Y	0.03	1.01	0.07
28	1541	0.55	1.14	Y	0.81	0.01	0.24
29	1431	0.42	1.14	Y	0.15	0.25	0.17
30	3545	0.39	1.13	N	0.07	0.09	0.28
31	2538	0.57	1.11	N	0.04	1.07	0.04
32	2644	0.78	1.09	N	1.22	0.00	0.80
33	2550	1.47	1.08	N	0.57	3.06	1.16
34	516	1.05	1.06	N	0.01	1.14	2.01

Rank	Circuit	Average SAIFI	2024 SAIFI	2024 Flag	2023 SAIFI	2022 SAIFI	2021 SAIFI
35	3635	0.78	1.06	N	0.05	0.38	1.63
36	3633	0.79	1.06	N	1.06	1.02	0.02
37	2643	0.57	1.05	N	0.01	1.03	0.18
38	2535	0.35	1.05	N	0.04	0.26	0.05
39	2539	0.26	1.05	N	0.00	0.00	0.00
40	2515	0.46	1.04	N	0.55	0.22	0.03
41	2740	0.50	1.03	N	0.06	0.46	0.45
42	2803	0.84	1.03	N	1.42	0.10	0.82
43	1545	0.89	1.02	N	0.43	1.05	1.04
44	1688	0.59	1.02	N	0.03	1.25	0.05
45	1646	0.69	1.02	N	1.00	0.38	0.36
46	1910	0.26	1.02	N	0.00	0.00	0.00
47	1706	0.32	1.01	N	0.23	0.01	0.03
48	3650	0.33	1.01	N	0.00	0.30	0.01
49	2666	0.88	1.01	N	0.00	0.89	1.62
50	1649	0.85	1.00	N	0.15	0.03	2.24
51	2506	0.25	1.00	N	0.00	0.00	0.00
52	1711	0.46	0.99	N	0.02	0.69	0.14
53	3638	0.60	0.94	N	0.11	0.23	1.12
54	550	0.26	0.93	N	0.01	0.04	0.06
55	2800	0.72	0.89	N	1.00	0.00	1.00
56	1520	0.21	0.83	N	0.00	0.00	0.00
57	1531	1.39	0.83	N	1.18	1.13	2.41
58	1697	0.61	0.81	N	0.19	0.04	1.40
59	2639	0.33	0.75	N	0.55	0.01	0.01
60	1532	0.79	0.73	N	1.10	0.01	1.32
61	2627	0.49	0.71	N	1.01	0.06	0.19
62	3460	0.48	0.69	N	1.02	0.20	0.02
63	1750	0.83	0.68	N	0.39	2.01	0.23
64	1608	1.09	0.68	N	1.18	0.62	1.87
65	2502	0.42	0.67	N	0.93	0.00	0.07
66	2673	1.26	0.63	N	3.55	0.40	0.46
67	2625	1.00	0.61	N	3.31	0.05	0.02
68	1685	0.39	0.60	N	0.07	0.83	0.07
69	510	1.20	0.58	N	2.11	1.12	0.99
70	2739	0.13	0.53	N	0.00	0.00	0.00
71	2682	1.20	0.52	N	1.99	0.21	2.06
72	2503	1.33	0.51	N	3.79	0.99	0.02
73	512	2.97	0.49	N	4.46	5.32	1.62
74	3466	0.29	0.47	N	0.36	0.13	0.22
75	2805	1.23	0.40	N	2.94	1.04	0.54

Rank	Circuit	Average SAIFI	2024 SAIFI	2024 Flag	2023 SAIFI	2022 SAIFI	2021 SAIFI
76	2633	0.59	0.40	N	0.07	1.04	0.85
77	1692	0.98	0.40	N	1.18	1.23	1.13
78	2500	0.71	0.39	N	0.98	0.06	1.43
79	506	1.14	0.38	N	1.28	2.55	0.37
80	1441	0.88	0.35	N	0.06	1.90	1.22
81	1707	0.32	0.34	N	0.29	0.04	0.61
82	3636	0.28	0.33	N	0.68	0.04	0.08
83	2624	0.83	0.32	N	1.69	1.12	0.17
84	2669	0.51	0.32	N	1.04	0.27	0.39
85	2663	0.10	0.29	N	0.01	0.06	0.04
86	2689	0.22	0.29	N	0.37	0.15	0.06
87	1642	0.31	0.28	N	0.94	0.01	0.01
88	2683	1.70	0.26	N	0.22	2.71	3.62
89	630	0.48	0.25	N	0.00	0.84	0.83
90	545	0.45	0.25	N	1.11	0.09	0.33
91	1863	0.19	0.23	N	0.00	0.25	0.26
92	2635	1.62	0.23	N	2.19	0.02	4.03
93	2626	1.13	0.22	N	2.07	1.09	1.16
94	1548	0.37	0.21	N	0.46	0.10	0.69
95	2642	0.90	0.21	N	0.04	2.17	1.17
96	1605	1.14	0.21	N	2.09	0.91	1.37
97	1881	0.10	0.20	N	0.02	0.14	0.03
98	625	0.06	0.20	N	0.03	0.01	0.01
99	2687	0.21	0.19	N	0.24	0.10	0.28
100	1647	0.13	0.19	N	0.11	0.20	0.00

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIFI value for the calendar year of 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled Outages
- Outages caused by Customer equipment connected to UI lines
- Major Storms

e. SAIDI/SAIFI Worst 4% of All Circuits (July 2024 – June 2025)

The United Illuminating Company
SAIDI/SAIFI Worst 4% of All Circuits

Ranked by Average SAIDI

		Average		July 2024 – June 2025		2024	July 2023 – June 2024		July 2022 – June 2023		July 2021 – June 2022	
Rank	Circuit	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	Flag	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI
1	2688	287	2.04	121	0.85	Y	468	4.34	110	0.89	447	2.09
2	512	229	3.00	213	3.23	Y	509	5.90	47	1.47	145	1.39
3	2684	224	2.04	242	2.11	Y	120	0.77	166	1.57	369	3.70
4	2683	207	2.06	27	0.20	N	172	1.68	278	3.74	349	2.61
5	1862	194	1.93	142	1.00	Y	303	4.00	0	0.00	329	2.71
6	2682	163	1.19	59	0.35	N	193	2.01	356	1.92	43	0.47
7	2801	158	1.68	52	1.17	N	217	2.21	181	1.60	180	1.75
8	2673	147	1.51	142	1.25	Y	251	2.80	113	0.63	82	1.35
9	2536	137	1.09	103	1.15	Y	63	0.45	364	2.51	17	0.26
10	2550	133	1.46	86	1.04	N	137	1.61	305	3.17	3	0.03
11	1608	130	1.10	94	0.79	N	218	1.34	95	0.89	111	1.36
12	1605	129	1.22	35	0.24	N	259	2.48	73	0.58	147	1.58

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIDI value for the period of July 2024 to June 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled outages
- Outages caused by Customer Equipment connected to UI lines
- Major Storms

Docket No. 86-12-03

The United Illuminating Company
SAIDI/SAIFI Worst 4% of All Circuits

Ranked by Average SAIFI

		Average		July 2024 – June 2025		2024	July 2023 – June 2024		July 2022 – June 2023		July 2021 – June 2022	
Rank	Circuit	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	Flag	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)
1	512	3.00	229	3.23	213	Y	5.90	509	1.47	47	1.39	145
2	2683	2.06	207	0.20	27	N	1.68	172	3.74	278	2.61	349
3	2688	2.04	287	0.85	121	N	4.34	468	0.89	110	2.09	447
4	2684	2.04	224	2.11	242	Y	0.77	120	1.57	166	3.70	369
5	1862	1.93	194	1.00	142	N	4.00	303	0.00	0	2.71	329
6	2801	1.68	158	1.17	52	N	2.21	217	1.60	181	1.75	180
7	2673	1.51	147	1.25	142	Y	2.80	251	0.63	113	1.35	82
8	2550	1.46	133	1.04	86	N	1.61	137	3.17	305	0.03	3
9	2624	1.38	126	0.48	52	N	2.62	150	0.14	10	2.26	291
10	2685	1.33	96	2.32	141	Y	0.48	45	1.38	128	1.14	68
11	1694	1.33	81	2.55	112	Y	0.19	7	1.04	102	1.53	104
12	1531	1.28	87	1.50	144	Y	0.44	28	1.18	102	2.01	75

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIFI value for the period of July 2024 to July 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled outages
- Outages caused by Customer Equipment connected to UI lines
- Major Storms

f. SAIDI/SAIFI Worst 4% of All Circuits (2025 Calendar Year)

The United Illuminating Company
SAIDI/SAIFI Worst 4% of All Circuits

Ranked by Average SAIDI

		Average		2025		2025	2024		2023		2022	
Rank	Circuit	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	Flag	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI
1	1862	353	2.18	780	2.00	Y	115	1.00	188	3.00	329	2.71
2	2688	324	2.53	391	3.16	Y	371	3.83	162	1.18	371	1.96
3	512	228	2.97	87	0.49	Y	281	4.46	389	5.32	154	1.62
4	2684	181	1.58	85	1.17	N	249	1.59	180	1.24	209	2.33
5	2506	180	0.25	718	1.00	Y	0	0.00	0	0.00	0	0.00
6	2683	177	1.70	46	0.26	N	23	0.22	276	2.71	362	3.62
7	2682	169	1.20	89	0.52	Y	197	1.99	24	0.21	368	2.06
8	2801	159	1.50	113	1.37	Y	199	2.14	124	1.14	201	1.32
9	2536	149	1.36	58	1.16	N	122	1.29	396	2.74	19	0.25
10	2673	140	1.26	103	0.63	Y	302	3.55	52	0.40	104	0.46
11	273	138	0.67	3	0.07	N	548	2.57	0	0.00	3	0.03
12	2550	135	1.47	97	1.08	Y	50	0.57	199	3.06	192	1.16

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIDI value for the calendar year of 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled outages
- Outages caused by Customer Equipment connected to UI lines
- Major Storms

Docket No. 86-12-03

The United Illuminating Company
SAIDI/SAIFI Worst 4% of All Circuits

Ranked by Average SAIFI

		Average		2025		2025	2024		2023		2022	
Rank	Circuit	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	Flag	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)	SAIFI	SAIDI (Mins)
1	512	2.97	228	0.49	87	N	4.46	281	5.32	389	1.62	154
2	2688	2.53	324	3.16	391	Y	3.83	371	1.18	162	1.96	371
3	1862	2.18	353	2.00	780	Y	1.00	115	3.00	188	2.71	329
4	2683	1.70	177	0.26	46	N	0.22	23	2.71	276	3.62	362
5	2635	1.62	126	0.23	46	N	2.19	102	0.02	2	4.03	354
6	2684	1.58	181	1.17	85	Y	1.59	249	1.24	180	2.33	209
7	2801	1.50	159	1.37	113	Y	2.14	199	1.14	124	1.32	201
8	2550	1.47	135	1.08	97	N	0.57	50	3.06	199	1.16	192
9	1531	1.39	99	0.83	80	N	1.18	116	1.13	84	2.41	117
10	2536	1.36	149	1.16	58	Y	1.29	122	2.74	396	0.25	19
11	1694	1.33	85	3.05	152	Y	0.59	33	1.13	94	0.56	60
12	2503	1.33	79	0.51	41	N	3.79	246	0.99	30	0.02	1

* Circuits are flagged as **Y** if they reached or exceeded 250% of the systemwide SAIFI value for the calendar year of 2025

Excludes the following:

- Outages caused by Power Supply or Transmission Problems external to UI
- Scheduled outages
- Outages caused by Customer Equipment connected to UI lines
- Major Storms

Appendix 16: Corrective Action Plans

a. Reliability Corrective Action Plans for Tier 1 Circuits

Worst 4% Circuit CEMI-7 + CELID-9 Percentages – 2025

CIRCUIT NUMBER	SUBSTATION	CITY or TOWN
512	INDIAN WELL	SHELTON
510	INDIAN WELL	SHELTON
3466	POOTATUCK	SHELTON
506	INDIAN WELL	SHELTON
1694	MIX AVE	HAMDEN
2684	HAWTHORNE	EASTON, FAIRFIELD
2800	TRUMBULL	TRUMBULL
2617	OLD TOWN	TRUMBULL
2803	TRUMBULL	SHELTON, TRUMBULL
514	INDIAN WELL	SHELTON
2615	OLD TOWN	BRIDGEPORT, EASTON, FAIRFIELD, TRUMBULL
2801	TRUMBULL	SHELTON, TRUMBULL

* Circuits were selected using the Tier 1 All-In WPC lists from July 2024 – June 2025 from Appendix 14a and Appendix 14e

Indian Well 512 – Town of Shelton

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
6	Animal Contact	1	Bird Contact
1	Cable Fault	2	Clearance
1	Conductor Failure	4	Conductor Off Pin
16	Connector Failure	6	Cutout
5	Fuse	1	Lightning
1	Loose Connection	8	Transformer
68	Tree Contact	3	Vehicle Accident
2	Voltage Regulator	1	X-Arm Brace

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Fuse	1	Transformer
14	Tree Contact	1	Unknown

Reliability Improvement – 2026 Recommendations

Indian Well Circuit 512 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 512 in the Vegetation Management program.

2. Spot Tree Trimming at the following locations:
   a) 1PH – From pole 6514 to pole 6537 (Dickinson Dr).

3. Install (2) 25K fuses at pole 9316 and pole 9315 (Vista Dr).

4. 2025 CELID$_9$ events:
   a) One CELID$_9$ outage caused by a transformer affecting 3 customers.
   b) Ten CELID$_9$ outages caused by tree contact affecting 290 customers.
   c) One CELID$_9$ outage caused by an unknown reason affecting 1 customer.
   d) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Indian Well 510 – Town of Shelton

4– Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Bird Contact	1	Conductor Failure
1	Conductor Off Pin	4	Connector Failure
3	Cutout	4	Meter
3	Transformer	10	Tree Contact
1	UI Human Error	4	Vehicle Accident
1	X-Arm/Brace		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Transformer	8	Tree Contact

Reliability Improvement – 2026 Recommendations

Indian Well Circuit 510 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 510 in the Vegetation Management program.

2. Spot Tree Trimming on pole 7682 (Meadow St).

3. 2025 CELID$_9$ events:
   a) Two CELID$_9$ outages caused by tree contact affecting 57 customers.
   b) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Pootatuck 3466 – Town of Shelton

4– Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
6	Animal Contact	3	Cable Fault
1	Clearance	3	Conductor Failure
1	Conductor Off Pin	4	Connector Failure
2	Cutout	2	Fuse
1	Lightning	2	Loose Connection
2	Meter	2	Transformer
29	Tree Contact	3	Unknown

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Cable Fault	1	Connector Failure
1	Lightning	4	Tree Contact

Reliability Improvement – 2026 Recommendations

Pootatuck Circuit 3466 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 3466 in the Vegetation Management program.

2. Replace the four skirt cutouts on the following 19 poles: 9303, 2419, 8915, 1806, 8372, 8734, 879, 1885, 8921, 1449, 9196, 9341, 854, 1864, 8642, 9823, 9635, 9347, and 10240.

3. 2025 CELID$_9$ events:
    a) One CELID$_9$ outage caused by an underground cable fault affecting 1 customer.
    b) One CELID$_9$ outage caused by a connector failure affecting 1 customer.
    c) One CELID$_9$ outage caused by tree contact affecting 7 customers.
    d) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Indian Well 506 – Town of Shelton

4– Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
6	Animal Contact	1	Cable Fault
4	Clearance	7	Conductor Failure
4	Conductor Off Pin	22	Connector Failure
3	Cutout	10	Fuse
1	Hot Line Clamp	1	Lightning
2	Loose Connection	1	Pole
12	Transformer	56	Tree Contact
2	UI Human Error	2	Vehicle Accident

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Cable Fault	1	Conductor Failure
1	Connector Failure	1	Foreign Objects
2	Fuse	2	Lightning
1	Loose Connection	2	Transformer
27	Tree Contact	1	TXF Secondary Breaker
7	Unknown	1	Vehicle Accident

Reliability Improvement – 2026 Recommendations

Indian Well Circuit 506 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 506 in the Vegetation Management program.
2. Spot Tree Trimming at the following locations:
    a) Pole 3365 to pole 968 (Ripton Rd)
    b) Pole 6456 to pole 1020 (Mohegan Rd)
    c) Pole 5202 to pole 5203 (Poplar Dr)

Indian Well 506 – Town of Shelton - continued

3. Equip all reclosers with SCADA or programming for bi-directional fault sensing, and upgrade tie points to SCADA (aerial cable outage ~1.5 hours, zone 1 outage ~9 hours, both took out entire circuit).

4. 2025 CELID$_9$ events:
    a) Five CELID$_9$ outages caused by tree contact affecting 63 customers.
    b) Two CELID$_9$ outages caused by unknown reasons affecting 2 customers.
    c) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Mix Ave 1694 – Town of Hamden

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
3	Animal Contact	1	Conductor Failure
1	Conductor Off Pin	3	Connector Failure
3	Cutout	4	Meter
1	Pole	1	Terminator Failure
4	Transformer	5	Tree Contact
1	Unknown	1	Vehicle Accident

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
2	Tree Contact		

Reliability Improvement – 2026 Recommendations

Mix Ave Circuit 1694 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 1694 in the Vegetation Management program.

2. Spot Tree Trimming between pole 891 and pole 5826 (Mix Ave).

3. Replace existing overhead bare wire with 397 AL TW from pole 883 to pole 834 (Mix Ave). Look to replace cross arms as needed.

4. 2025 CELID$_9$ events:
   a) One CELID$_9$ outage caused by tree contact affecting 59 customers.
   b) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Hawthorne 2684 – Towns of Easton & Fairfield

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
5	Animal Contact	2	Bird Contact
1	Cable Dig In	2	Cable Fault
4	Conductor Off Pin	8	Connector Failure
3	Cutout	1	Disconnect
4	Fuse	2	Insulator
1	Lightning	2	Other Accident
5	Transformer	64	Tree Contact
1	Vehicle Accident	1	X-Arm/Brace

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
2	Cable Fault	1	Fuse
1	Lightning	9	Tree Contact

Reliability Improvement – 2026 Recommendations

Hawthorne Circuit 2684 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 2684 in the Vegetation Management program.

2. 2025 CELID$_9$ events:
   a) One CELID$_9$ outage caused by tree contact affecting 35 customers.
   b) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Trumbull 2800 – Town of Trumbull

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Circuit Breaker	1	Hot Line Clamp
2	Pole		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Tree Contact		

Reliability Improvement – 2026 Recommendations

Trumbull Circuit 2800 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

No recommendations for 2026

1. 2025 CELID$_9$ events:
    a) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Old Town 2617 – Town of Trumbull

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Circuit Breaker	1	Power Supply
2	Tree Contact		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Circuit Breaker	1	Tree Contact

Reliability Improvement – 2026 Recommendations

Old Town Circuit 2617 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

No recommendations for 2026

1. 2025 CELID$_9$ events:
    a) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Trumbull 2803 – City of Shelton and Town of Trumbull

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
5	Animal Contact	4	Bird Contact
2	Cable Fault	1	Circuit Breaker
1	Clearance	1	Conductor Failure
3	Conductor Off Pin	8	Connector Failure
3	Cutout	2	Fuse
4	Lightning	2	Loose Connection
2	Other Accident	1	Pole
6	Transformer	55	Tree Contact
3	Unknown	2	Vehicle Accident
1	X-Arm/Brace		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Conductor Failure	1	Connector Failure
3	Fuse	2	Pole
1	Relocation Extension	2	Transformer
24	Tree Contact	1	TXF Secondary Breaker
3	Unknown		

Reliability Improvement – 2026 Recommendations

Trumbull Circuit 2803 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 2803 in the Vegetation Management program.

2. Install cutouts on the following 4 poles: 1957, 3123, 4546, and 4602.

3. 2025 CELID$_9$ events:
   a) One CELID$_9$ outage caused by a conductor failure affecting 34 customers.
   b) One CELID$_9$ outage caused by pole damage affecting 11 customers.
   c) One CELID$_9$ outage caused by transformer damage affecting 1 customer.
   d) Eight CELID$_9$ outages caused by tree contact affecting 123 customers.

Trumbull 2803 – City of Shelton and Town of Trumbull – continued

e) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Indian Well 514 – Town of Shelton

4 – Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Animal Contact	6	Cable Fault
1	Conductor Failure	13	Connector Failure
3	Cutout	1	Lightning
2	Meter	7	Transformer
26	Tree Contact	1	Unknown
4	Vehicle Accident		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
2	Cable Fault	1	Conductor Failure
1	Connector Failure	1	Cutout
2	Transformer	18	Tree Contact
1	Unknown		

Reliability Improvement – 2026 Recommendations

Indian Well Circuit 514 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 514 in the Vegetation Management program.

2. Spot Tree Trimming from pole 2628 to pole 2637 (Saw Mill City Rd).

3. Add missing current limiting fuses on the following 8 poles: 3641, 8065, 7231, 9586, 2746, 8053, 6314, and 1345.

4. Replace the four skirt cutouts on the following 25 poles: 834, 3564, 1725, 4430, 1333, 1727, 3046, 1684, 5071, 1498, 2637, 1516, 1512, 1513, 952, 5989, 9748, 4903, 2785, 3263, 1312, 2760, 831, 832, and 9827.

5. Install a cutout fuse at the following locations:

    a) Pole 4780 (Button Rd) and pole 4787 (Treeland Rd) to help sectionalize the area during outages and reduce the total number of customers affected.

Indian Well 514 – Town of Shelton - continued

6. 2025 CELID$_9$ events:
    a) One CELID$_9$ outage caused by an underground cable fault affecting 19 customers.
    b) One CELID$_9$ outage caused by tree contact affecting 64 customers.
    c) One CELID$_9$ outage caused by an unknown reason affecting 1 customer.
    d) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Old Town 2615 – City of Bridgeport and Towns of Easton, Fairfield & Trumbull

4– Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Cable Fault	1	Circuit Breaker
1	Conductor Off Pin	7	Connector Failure
3	Cutout	1	Foreign Objects
4	Fuse	1	Lightning
1	Loose Connection	3	Meter
1	Power Supply	3	Transformer
21	Tree Contact	1	Vehicle Accident
1	X-Arm/Brace		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Fuse	1	Recloser
1	Transformer	3	Tree Contact

Reliability Improvement – 2026 Recommendations

Old Town Circuit 2615 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 2615 in the Vegetation Management program.

2. Install missing current limiting fuses at the following 11 poles: 2293, 2294, 2713, 3916, 845, 1251, 1309, 1296, 2652, 2711, and 1299.

3. Replace the four skirt cutouts at the following 8 poles: 5488, 1436, 5064, 917, 4500, 1656, 2250, and 2373.

4. 2025 CELID$_9$ events:
    a) One CELID$_9$ outage caused by a fuse affecting 27 customers.
    b) One CELID$_9$ outage caused by tree contact affecting 13 customers.
    c) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

Trumbull 2801 – Towns of Shelton & Trumbull

4– Year Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
2	Animal Contact	1	Cable Fault
1	Circuit Breaker	2	Conductor Failure
7	Connector Failure	5	Cutout
3	Elbow Failure	2	Fuse
1	Hot Line Clamp	1	Insulator
2	Lightning	1	Loose Connection
2	Meter	2	Pad Mounted Switch
1	Terminator Failure	8	Transformer
27	Tree Contact	2	Unknown
6	Vehicle Accident		

4 – Year CELID-9 Outage Cause Summary

Number of Outages	Outage Type	Number of Outages	Outage Type
1	Connector Failure	1	Cutout
1	Pole	2	Transformer
13	Tree Contact	1	Vehicle Accident

Reliability Improvement – 2026 Recommendation

Trumbull Circuit 2801 was included in the 2025 TDRP Reliability Corrective Action Plan. Recommendations for 2026 are listed below:

1. Include circuit 2801 in the Vegetation Management.

2. 2025 CELID$_9$ events:
   a) One CELID$_9$ outage caused by a cutout affecting 28 customers.
   b) One CELID$_9$ outage caused by a transformer affecting 4 customers.
   c) Seven CELID$_9$ outages caused by tree contact affecting 34 customers.
   d) Work with Operations to identify potential solutions to help limit customer exposure to CELID$_9$ events during blue sky days.

b. Reliability Corrective Action Plans for Tier 2 Circuits (Worst 4%)

No Tier 2 corrective actions in 2025 Plan.

Appendix 16b is not applicable.

c. Reliability Corrective Action Plans for Optional and Alternative Circuits

No optional circuits in 2025 Plan.

Appendix 16c is not applicable.

Appendix 17: Status of Previous Corrective Action

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	**Circuit**	**Yr(s) Identified**	**Compl Date**	**OH (%)**	**UG**	**Aerial**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**Comments**
1	512	2024	Refer to Comments	NA	NA	NA	281.5	4.46	66	0.64	87.0	0.49	Indian Well Circuit 512 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2683	2023	Refer to Comments	NA	NA	NA	275.5	2.71	66	0.64	46.2	0.26	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	1548	2022	Refer to Comments	NA	NA	NA	112.6	0.7	66	0.64	31.4	0.21	Quinnipiac Circuit 1548 was included in the 2023 TDRP Reliability Corrective Action Plan. There were three $CELID_9$ outages in 2022 during blue sky days that were caused by tree contacts. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Planned trip saver installations were delayed due to long lead/supply chain availability issues. Field workforce training is scheduled for Q2 of 2024.
	2617	2021	Refer to Comments	NA	NA	NA	199	0.72	66	0.64	0.0	0.00	Old Town Circuit 2617 was included in the 2022 TDRP Reliability Corrective Action Plan. It was originally included in the worst 4% list due to deteriorated cross arms, animal guard and switch. Will be evaluated to be included in the 2022 corrective action plan.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2519	2020	Refer to Comments	NA	NA	NA	6669*	89.33*	66	0.64	8.4	0.06	Pequonnock Circuit 2519 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP. It was originally included in the worst 4% list due to a cable fault at the riser. Reliability improvement recommendations were identified, planned, and completed in 2020. The configuration of Circuit 2519 is set to change as a result of the Pequonnock Substation relocation. No further comprehensive recommendations were required. *Circuit 2519 SAIDI/SAIFI values were reviewed. Updates did not affect the final system reliability indices.
2	2688	2024	Refer to Comments	NA	NA	NA	371.0	3.83	66	0.64	390.8	3.16	Hawthorne Circuit 2688 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2684	2023	Refer to Comments	NA	NA	NA	180.3	1.24	66	0.64	85.5	1.17	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08. One Trip Saver was installed in May of 2025.
	2616	2022	Jan - 24	100	NA	NA	28.8	0.10	66	0.64	1.1	0.02	Old Town Circuit 2616 was included in the 2023 TDRP Reliability Corrective Action Plan. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Both the recommended deteriorated crossarm brace replacement and fault indicator installations were completed. Additional fusing were added based on evaluations of backbone unprotected side taps.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	1695	2021	Refer to Comments	50	NA	NA	140	2.16	66	0.64	0.0	0.00	Mix Circuit 1695 was included in the 2022 TDRP Reliability Corrective Action Plan. Requirement of an outage is needed to complete. Will be evaluated to be included in the 2022 corrective action plan.
	2504	2020	Refer to Comments	NA	NA	NA	0	0	66	0.64	0.0	0.00	Pequonnock Circuit 2504 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 Corrective Action Plan listing due to a one-time outage in 2019 due to a cable fault. The outage seen for 2020 was required to properly identify and fix a cable fault given the unique service configuration at the customer site.
3	2673	2024	Refer to Comments	NA	NA	NA	301.8	3.55	66	0.64	103.3	0.63	Ash Creek Circuit 2673 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2685	2023	Refer to Comments	NA	NA	NA	110.5	1.38	66	0.64	20.4	0.14	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	2690	2022	Refer to Comments	NA	NA	NA	56.8	0.30	66	0.64	23.4	0.15	Hawthorne Circuit 2690 was included in the 2023 TDRP Reliability Corrective Action Plan. Spot Tree Trimming from inspections were handled within the Vegetation Management program. The recommended new recloser installation was delayed due to long lead/supply chain availability issues.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2683	2021	Refer to Comments	80	NA	NA	195	1.83	66	0.64	46.2	0.26	Hawthorne Circuit 2683 was included in the 2022 TDRP Reliability Corrective Action Plan. It is a repeat from the 2021 TDRP 4% 2021 refinements included specific spot tree trimming and the installation of a normally closed recloser. Due to supply-chain delays and proposed recloser location(s) reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.
	2547	2020	Refer to Comments	NA	NA	NA	173	2.84	66	0.64	3.2	0.06	New Congress Circuit 2547 was included in the 2021 TDRP Reliability Corrective Action Plan. Almost 90% of the 4-year outages were due to equipment failures, cable failures and cable dig-ins. As such no specific corrective measures were identified.
4	3466	2024	Refer to Comments	NA	NA	NA	28.5	0.36	66	0.64	80.6	0.47	Pootatuck Circuit 3466 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2686	2023	Refer to Comments	NA	NA	NA	11.6	0.07	66	0.64	51.4	1.19	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	3540	2022	Refer to Comments	NA	NA	NA	17.8	0.10	66	0.64	2.3	0.01	Trap Falls Circuit 2540 was included in the 2023 TDRP Reliability Corrective Action Plan. The recommended new recloser installation was delayed due to long lead/supply chain availability issues.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	1688	2021	Refer to Comments	NA	NA	NA	150	1.96	66	0.64	33.2	1.02	Mix Avenue Circuit 1688 is included in the 2022 TDRP Reliability Corrective Action Plan. Will be evaluated to be included in the 2022 corrective action plan.
	2684	2020	Refer to Comments	100	NA	NA	488	2.38	66	0.64	85.5	1.17	Hawthorne Circuit 2684 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP and was first included in the 2017 TDRP 4% list. Reliability improvement recommendations were identified, planned, and completed in 2017. A decline in reliability for Circuit 2684, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. Refinements for 2021 included specific spot tree trimming and the installation of a normally closed recloser. Due to supply -chain delays and proposed recloser location(s) reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2022.
5	2682	2024	Refer to Comments	NA	NA	NA	197.0	1.99	66	0.64	89.2	0.52	Hawthorne Circuit 2682 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2690	2023	Refer to Comments	NA	NA	NA	13.9	0.10	66	0.64	23.4	0.15	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	2740	2022	Refer to Comments	NA	NA	NA	32.4	0.40	66	0.64	136.5	1.03	Barnum Circuit 2740 was included in the 2023 TDRP Reliability Corrective Action Plan. The recommended equipment installations were delayed due to a lack of resource availability.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2684	2021	Refer to Comments	50	NA	NA	188	1.26	66	0.64	85.5	1.17	Hawthorne Circuit 2684 was included in the 2022 TDRP Reliability Corrective Action Plan. It is a repeat from the 2021 TDRP 4% 2021 refinements included specific spot tree trimming and the installation of a fuse. Due to supply-chain delays and proposed recloser location(s) reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.
	1695	2020	Refer to Comments	NA	NA	NA	136	1.82	66	0.64	0.0	0.00	Mix Circuit 1695 was included in the 2021 TDRP Reliability Corrective Action Plan. A sharp decline in reliability for Circuit 1695, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. An incident involving UI Human Error, which tripped the main substation breaker, had the greatest impact on 2020 Circuit Reliability Indices. No specific follow-up recommendations were required.
6	2550	2024	Refer to Comments	NA	NA	NA	50.3	0.57	66	0.64	97.5	1.08	New Congress Circuit 2550 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2664	2023	Refer to Comments	NA	NA	NA	3.4	0.01	66	0.64	2.6	0.03	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	3677	2022	Refer to Comments	NA	NA	NA	50.9	0.30	66	0.64	6.7	0.08	Ansonia Circuit 3677 was included in the 2023 TDRP Reliability Corrective Action Plan. The recommended equipment installation was delayed and pending a customer outage.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	277	2021	Refer to Comments	NA	NA	NA	152	1.71	66	0.64	NA	NA	Whitney Circuit 277 was included in the 2022 TDRP Reliability Corrective Action Plan. This Circuit will be converted to a higher voltage as part of the Whitney Substation Removal Project in 2022. Any issues present would be reviewed and remediated, as appropriate, during the infrastructure upgrade stage delayed into 2023 due to supply chain issues.
	2683	2020	Refer to Comments	100	NA	NA	120	1.20	66	0.64	46.2	0.26	Hawthorne Circuit 2683 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP 4% list and was first included in the 2014 TDRP 4% list. Reliability improvement recommendations were identified, planned, and completed throughout various years. An improvement in reliability for Circuit 2683, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. No further comprehensive recommendations are required. As such, no further comprehensive recommendations were required. 2021 refinements included specific spot tree trimming and the installation of a normally closed recloser. Due to supply-chain delays and proposed recloser location(s) reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2022.
7	2617	2024	Refer to Comments	NA	NA	NA	24.6	1.00	66	0.64	0.0	0.00	Old Town Circuit 2617 was included in the 2025 TDRP Reliability Corrective Action Plan. It is a repeat from the 2022 TDRP. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2669	2023	Refer to Comments	NA	NA	NA	46.8	0.27	66	0.64	29.9	0.32	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	2683	2022	Refer to Comments	NA	NA	NA	361.3	3.60	66	0.64	46.2	0.26	Hawthorne Circuit 2683 was included in the 2023 TDRP Reliability Corrective Action Plan. There were three $CELID_9$ outages in 2022 during blue sky days that were caused by tree contacts. Spot Tree Trimming from inspections were handled within the Vegetation Management program. New recloser installation was delayed due to long lead/supply chain availability issues. Field workforce training is scheduled for Q2 of 2024.
	274	2021	Refer to Comments	NA	NA	NA	174	0.55	66	0.64	NA	NA	Whitney Circuit 274 was included in the 2022 TDRP Reliability Corrective Action Plan. This Circuit will be converted to a higher voltage as part of the Whitney Substation Removal Project in 2022. Any issues present would be reviewed and remediated, as appropriate, during the infrastructure upgrade stage.
	2805	2020	Dec-21	100	NA	NA	121	1.80	66	0.64	10.3	0.40	Trumbull Circuit 2805 was included in the 2021TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP and it first appeared on the 4% list in 2018. Reliability improvement recommendations were identified, planned, and completed in 2018. As such, no further comprehensive recommendations were required. Recommendations for 2021 included the installation of under arm switches, which was completed by year end.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
8	2740	2024	Refer to Comments	NA	NA	NA	7.6	0.06	66	0.64	136.5	1.03	Barnum Circuit 2740 was included in the 2025 TDRP Reliability Corrective Action Plan. It is a repeat from the 2023 TDRP. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	1906	2023	Refer to Comments	NA	NA	NA	199.2	1.52	66	0.64	19.6	0.07	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	550	2022	Refer to Comments	NA	NA	NA	25.1	0.10	66	0.64	30.1	0.93	New Congress Circuit 550 was included in the 2023 TDRP Reliability Corrective Action Plan. Possibilities to install new reclosers and a wildlife guard were explored. No further recommendations were made.
	1694	2021	Refer to Comments	NA	NA	NA	87	1.66	66	0.64	152.0	3.05	Mix Avenue 1694 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.
	1694	2020	Refer to Comments	NA	NA	NA	40	1.05	66	0.64	152.0	3.05	Mix Avenue Circuit 1694 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from both the 2020 and 2019 TDRP and was first included in the 2017 TDRP 4% list. Reliability improvement recommendations were identified, planned, and completed in 2017. A decline in reliability for Circuit 1694, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. A station breaker trip due to UI Human Error affected almost 2,000 meters for approximately 25 mins. This one outage accounts for the vast majority of the decline in reliability seen during 2020.As such, no further comprehensive recommendations were required.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	**Circuit**	**Yr(s) Identified**	**Compl Date**	**OH (%)**	**UG**	**Aerial**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**Comments**
9	1608	2024	Refer to Comments	NA	NA	NA	129.5	1.18	66	0.64	74.6	0.68	June St Circuit 1608 was included in the 2025 TDRP Reliability Corrective Action Plan. It is a repeat from both the 2023 and 2021 TDRP. One Trip Saver was installed in May of 2025. None of the 2025 TDRP Reliability Corrective Action Plans were executed due to budget constraints.
	1605	2023	Refer to Comments	NA	NA	NA	101.6	0.91	66	0.64	23.0	0.21	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08. One Trip Saver was installed in May of 2025.
	1605	2022	Refer to Comments	NA	NA	NA	121.2	1.40	66	0.64	23.0	0.21	June St Circuit 1605 was included in the 2023 TDRP Reliability Corrective Action Plan. There were four $CELID_9$ outages in 2022 during blue sky days that were caused by tree contacts. Spot Tree Trimming from inspections were handled within the Vegetation Management program. The installations of a new recloser and trip savers were delayed until the arrival of Frontier Pole Set.
	644	2021	Refer to Comments	80	NA	NA	145	1.42	66	0.64	0.2	0.00	Elmwest Circuit 644 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	1640	2020	Dec-21	NA	NA	NA	101	1.84	66	0.64	0.6	0.01	Sackett Circuit 1640 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP. Circuit outages are relatively short in terms of both duration and meter minutes. However, the low customer count on this circuit causes a decline in reliability more quickly than others. A decline in reliability for Circuit 1640, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. 30% of the outages seen during 2020 were due to tree contacts. As such, no further comprehensive recommendations were required. Refinements for 2021 included spot tree trimming.
10	2503	2024	Refer to Comments	NA	NA	NA	245.8	3.79	66	0.64	41.2	0.51	Pequonnock Circuit 2503 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	1686	2023	Refer to Comments	NA	NA	NA	43.4	1.44	66	0.64	123.9	2.09	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	2660	2022	Refer to Comments	NA	NA	NA	137.7	1.40	66	0.64	13.2	0.12	Ash Creek Circuit 2660 was included in the 2024 TDRP Reliability Corrective Action Plan. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Plans to install a new recloser were delayed due to long lead/supply chain availability issues.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	1697	2021	Refer to Comments	50	NA	NA	117	1.51	66	0.64	40.8	0.81	Mix Avenue Circuit 1697 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023. One Trip Saver was installed in May of 2025.
	1880	2020	Dec-21	100	NA	NA	137	0.86	66	0.64	0.3	0.01	Mill River Circuit 1880 was included in the 2021 TDRP Reliability Corrective Action Plan. Necessary reliability corrective actions on OH infrastructure, installation of cut-outs and removal of under-arm switches, have been performed in 2021.
11	3638	2024	Refer to Comments	NA	NA	NA	10.1	0.11	66	0.64	49.0	0.94	Milvon Circuit 3638 was included in the 2025 TDRP Reliability Corrective Action Plan. It is a repeat from the 2021 TDRP. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	1688	2023	Refer to Comments	NA	NA	NA	99.9	1.25	66	0.64	33.2	1.02	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	2664	2022	Refer to Comments	100	NA	NA	178.9	0.70	66	0.64	2.6	0.03	Ash Creek Circuit 2664 was included in the 2023 TDRP Reliability Corrective Action Plan. Spot Tree Trimming was recommended and carried out within the Vegetation Management program. No further recommendations were made.
	2639	2021	Refer to Comments	NA	NA	NA	136	0.79	66	0.64	78.4	0.75	Baird Circuit 2639 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	3638	2020	Dec-21	NA	NA	NA	98	1.38	66	0.64	49.0	0.94	Milvon Circuit 3638 was included in the 2021 TDRP Reliability Corrective Action Plan. Targeted tree-trimming was recommended and performed.
12	3460	2024	Refer to Comments	NA	NA	NA	132.8	1.02	66	0.64	89.2	0.69	Pootatuck Circuit 3460 was included in the 2025 TDRP Reliability Corrective Action Plan. None of the Reliability Corrective Action Plans were executed in 2025 due to budget constraints.
	2641	2023	Refer to Comments	NA	NA	NA	9.5	0.02	66	0.64	1.9	0.03	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	1686	2022	Oct - 23	100	NA	NA	16.7	0.10	66	0.64	123.9	2.09	Mix Ave Circuit 1686 was included in the 2023 TDRP Reliability Corrective Action Plan. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Fuse upgrades from 40k to 100k and 65k installations were completed at the three recommended locations.
	2636	2021	Refer to Comments	50	NA	NA	80	1.48	66	0.64	20.7	0.10	Baird Circuit 2636 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2615	2020	Refer to Comments	NA	NA	NA	17	0.08	66	0.64	12.0	0.08	Old Town Circuit 2615 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP and it first appeared where on the 4% list in 2018. Reliability improvement recommendations were identified, planned, and completed in 2018. An improvement in reliability for Circuit 2615, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. No further comprehensive recommendations were required.
13	550	2023	Refer to Comments	NA	NA	NA	12.8	0.04	66	0.64	30.1	0.93	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	1608	2022	Refer to Comments	NA	NA	NA	119.1	1.90	66	0.64	74.6	0.68	June St Circuit 1608 was included in the 2023 TDRP Reliability Corrective Action Plan. There were three $CELID_9$ outages in 2022 during blue sky days that were caused by tree contacts. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Additional plans of replacing deteriorated overhead equipment were delayed until the arrival of Frontier Pole Set.
	2624	2021	Refer to Comments	NA	NA	NA	134	1.21	66	0.64	38.6	0.32	Old Town Circuit 2624 was included in the 2022 TDRP Reliability Corrective Action Plan changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	2543	2020	Refer to Comments	NA	NA	NA	16	0.11	66	0.64	129.1	1.72	New Congress Circuit 2543 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from the 2020 TDRP and was included in the 2019 TDRP Reliability Corrective Action Plan as well. Reliability improvements were identified, planned, and completed in 2019. An improvement in reliability for Circuit 2543, as measured by both SAIDI and SAIFI was seen for the year-ending 2020. No further comprehensive recommendations were required.
14	1548	2023	Refer to Comments	NA	NA	NA	22.0	0.10	66	0.64	31.4	0.21	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08. One Trip Saver was installed in April of 2025.
	2687	2022	Refer to Comments	NA	NA	NA	30.6	0.30	66	0.64	20.5	0.19	Hawthorne Circuit 2687 was included in the 2023 TDRP Reliability Corrective Action Plan. There were three $CELID_9$ outages in 2022 during blue sky days that were caused by tree contacts. Spot Tree Trimming from inspections were handled within the Vegetation Management program. Tree Trimmings at the recommended 1PH locations are still being carried out as part of the Utility Protection Zone program.
	3635	2021	Refer to Comments	25	NA	NA	106	1.42	66	0.64	61.0	1.06	Milvon Circuit 3635 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	Circuit	Yr(s) Identified	Compl Date	OH (%)	UG	Aerial	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	SAIDI (MIN)	SAIFI	Comments
	1608	2020	Refer to Comments	NA	NA	NA	133	1.57	66	0.64	74.6	0.68	June Street Circuit 1608 was included in the 2021 TDRP Reliability Corrective Action Plan. It is a repeat from both the 2020 and 2017 TDRP 4% list. Reliability improvement recommendations were identified, planned, and completed in 2017. An improvement in reliability as measured by SAIDI was seen for the year-ending 2020, whereas a decline in reliability as measured by SAIFI was seen for the same time period. As part of the 2019 Comprehensive Circuit Review it was determined that Circuit 1608 load was above 90% of the normal rating and a project has been created to extend either the 1606 or 1608 riser and to shift load from 1608 to 1606 which would help circuit 1608 reliability if completed. As such, no further comprehensive recommendations were required.
15	1647	2023	Refer to Comments	NA	NA	NA	45.4	0.20	66	0.64	24.5	0.19	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	1532	2022	Nov - 23	100	NA	NA	148.6	1.40	66	0.64	79.9	0.73	Water St Circuit 1532 was included in the 2023 TDRP Reliability Corrective Action Plan. Tree Trimming at the recommended 1PH location was completed. Cutout replacements at the three recommended locations were also completed.
	3675	2021	Refer to Comments	90	NA	NA	128	1.18	66	0.64	3.8	0.03	Ansonia Circuit 3675 was included in the 2022 TDRP Reliability Corrective Action Plan. Reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2023.

				Percent Complete			Original		Original Expected Improvement		2025 Current Values		
Rank	**Circuit**	**Yr(s) Identified**	**Compl Date**	**OH (%)**	**UG**	**Aerial**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**SAIDI (MIN)**	**SAIFI**	**Comments**
	1688	2020	Dec-21	NA	NA	NA	112	1.31	66	0.64	33.2	1.02	Mix Avenue Circuit 1888 is included in the 2021 TDRP Reliability Corrective Action Plan. Approximately 25% of the 4-year interruptions were due to tree contacts. Two tree contact incidents in 2020 affected a total of 973 meters with a total duration time of approximately two hours. Recommendations for 2021 included specific tree trimming which was completed in 2021.
16	2801	2023	Refer to Comments	NA	NA	NA	124.2	1.14	66	0.64	113.3	1.37	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.
	1709	2020	Refer to Comments	100	NA	NA	120	1.06	66	0.64	53.2	0.18	East Shore Circuit 1709 is included in the 2020 TDRP Reliability Corrective Action Plan. The majority of outages on East Shore Circuit 1709 were conductor failures which occurred during the years 2017, 2018, and 2019. Low customer count on this circuit causes a decline in reliability more quickly than others. Refinements for 2021 included the installation of a SCADA switch/recloser. Due to supply -chain delays and proposed recloser location(s) reviews and changes, the completion of proposed reliability improvements will extend into calendar year 2022.
17	3659	2023	Refer to Comments	NA	NA	NA	36.7	0.35	66	0.64	12.2	0.07	None of the 2024 TDRP Reliability Corrective Action Plans were executed in 2024 due to budget constraints resulting from PURA's final decision in Docket No. 22-08-08.

Appendix 18: 2025 Voltage Irregularity Claims

2025
Voltage Irregularity Events Resulting In 10 or More Damage Claims

There were zero events in 2025 that resulted in 10 or more damage claims.

Appendix 19: Power Restorations After Major Storms - 2025

The Authority maintains its recommendation to include the Power Restoration After Major Storms Metric in the PBR Performance Mechanism Portfolio, with one modification. Specifically, the Authority proposes allowing the EDCs to report the data using the distressed municipalities as defined by the DECD, rather than census block data. Using the distressed municipalities to report the data avoids the complexity of using census block data while still providing the necessary granularity to assess power restoration in vulnerable communities. However, as the PBR Performance Mechanism Portfolio evolves and the EDCs' respective IT systems change, the Authority may explore the use of census data for additional granularity.

Six sub-metrics: (1) Time between the first customer to lose power and the last customer to be reconnected; (2) Time between the first customer reconnected and the last customer reconnected; (3) Average per-capita income in the areas that lost power as a share of average per-capita income for all areas where the EDC has residential customers; (4) Percentages of racial and ethnic minorities in the areas that lost power as a share of the percentages of racial and ethnic minorities in all the areas where the EDC has residential customers; (5) Average household income in the areas where the first, second, third, fourth, and fifth quintiles of customers had their power restored; and, (6) Percentages of racial and ethnic minorities in the areas where the first, second, third, fourth, and fifth quintiles of customers had their power restored.

UI experienced a total of six major storms during 2025. (Refer to Appendix 7, "Excluded Storm Summary").

a. Major Storm Sub-Metrics 1 and 2

Town	Storm Number	First Outage Time	First Restoration Time	Last Restoration Time	Time Between First Outage and Last Restoration Time (Hours)	Time Between First Restoration and Last Restoration Time (Hours)
Ansonia	1	2025-02-16 07:29:20	2025-02-16 12:05:00	2025-02-17 17:16:13	33.78	29.19
	2	2025-06-24 11:52:59	2025-06-24 12:20:12	2025-06-24 12:20:12	0.45	0.00
	3	2025-07-03 15:46:52	2025-07-03 19:44:48	2025-07-03 19:44:48	3.97	0.00
	4	N/A	N/A	N/A	N/A	N/A
	5	2025-10-30 15:46:03	2025-10-30 17:35:53	2025-10-30 17:35:53	1.83	0.00
	6	2025-12-19 13:03:19	2025-12-19 18:31:02	2025-12-20 02:58:32	13.92	8.46
Bridgeport	1	2025-02-16 07:34:01	2025-02-16 11:15:45	2025-02-17 18:57:21	35.39	31.69
	2	2025-06-24 10:28:20	2025-06-24 11:28:30	2025-06-25 01:21:00	14.88	13.88
	3	2025-07-03 17:48:57	2025-07-03 22:00:43	2025-07-05 00:13:18	30.41	26.21
	4	2025-10-13 02:31:56	2025-10-13 03:46:11	2025-10-13 14:03:02	11.52	10.28
	5	2025-10-30 14:28:12	2025-10-30 16:16:16	2025-10-30 16:51:05	2.38	0.58
	6	2025-12-19 10:02:05	2025-12-19 13:16:34	2025-12-21 11:05:34	49.06	45.82
Derby	1	2025-02-16 07:22:01	2025-02-17 09:42:00	2025-02-17 21:37:50	38.26	11.93
	2	N/A	N/A	N/A	N/A	N/A
	3	2025-07-03 11:46:07	2025-07-03 12:14:27	2025-07-03 12:14:27	0.47	0.00
	4	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A
	6	2025-12-19 12:46:09	2025-12-19 15:07:47	2025-12-19 20:24:02	7.63	5.27
East Haven	1	2025-02-16 22:20:00	2025-02-17 09:23:00	2025-02-17 09:23:00	11.05	0.00
	2	2025-06-24 18:15:40	2025-06-24 18:42:48	2025-06-24 19:46:24	1.51	1.06
	3	2025-07-03 18:10:11	2025-07-03 22:41:00	2025-07-04 05:51:42	11.69	7.18
	4	N/A	N/A	N/A	N/A	N/A
	5	2025-10-30 15:28:41	2025-10-30 17:16:12	2025-10-30 21:53:06	6.41	4.62
	6	2025-12-19 08:11:57	2025-12-19 08:48:28	2025-12-19 21:19:00	13.12	12.51
Easton	1	2025-02-16 07:34:00	2025-02-16 18:34:55	2025-02-18 10:02:42	50.48	39.46
	2	N/A	N/A	N/A	N/A	N/A

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Town	Storm Number	First Outage Time	First Restoration Time	Last Restoration Time	Time Between First Outage and Last Restoration Time (Hours)	Time Between First Restoration and Last Restoration Time (Hours)
Easton	3	2025-07-03 16:50:42	2025-07-03 17:54:55	2025-07-05 14:02:09	45.19	44.12
	4	2025-10-13 03:48:34	2025-10-13 09:29:30	2025-10-13 21:30:37	17.70	12.02
	5	2025-10-30 12:14:17	2025-10-30 12:50:13	2025-10-31 02:02:58	13.81	13.21
	6	2025-12-19 10:16:56	2025-12-19 15:00:08	2025-12-20 01:43:25	15.44	10.72
Fairfield	1	2025-02-16 07:34:01	2025-02-16 11:15:45	2025-02-17 17:42:43	34.15	30.45
	2	2025-06-24 08:06:35	2025-06-24 08:53:23	2025-06-25 10:57:48	26.85	26.07
	3	2025-07-03 17:44:28	2025-07-03 21:45:57	2025-07-05 03:22:54	33.64	29.62
	4	2025-10-13 01:47:45	2025-10-13 07:14:17	2025-10-13 21:30:37	19.71	14.27
	5	2025-10-30 13:16:10	2025-10-30 14:05:53	2025-10-30 18:10:19	4.90	4.07
	6	2025-12-19 10:29:29	2025-12-19 12:54:00	2025-12-20 15:50:26	29.35	26.94
Hamden	1	2025-02-16 04:08:54	2025-02-16 05:08:17	2025-02-18 12:07:28	55.98	54.99
	2	2025-06-24 18:39:31	2025-06-24 22:47:57	2025-06-24 22:47:57	4.14	0.00
	3	2025-07-03 18:46:07	2025-07-04 01:15:37	2025-07-04 01:15:37	6.49	0.00
	4	2025-10-13 08:10:31	2025-10-13 10:53:12	2025-10-13 15:10:03	6.99	4.28
	5	N/A	N/A	N/A	N/A	N/A
	6	2025-12-19 11:31:22	2025-12-19 12:05:09	2025-12-19 23:31:44	12.01	11.44
Milford	1	2025-02-16 08:51:45	2025-02-17 08:37:01	2025-02-17 21:15:26	36.39	12.64
	2	2025-06-24 18:44:05	2025-06-25 01:17:56	2025-06-25 02:33:50	7.83	1.27
	3	2025-07-03 05:13:14	2025-07-03 05:40:41	2025-07-04 23:11:57	41.98	41.52
	4	2025-10-13 03:37:23	2025-10-13 04:36:33	2025-10-13 12:56:05	9.31	8.33
	5	2025-10-30 12:43:12	2025-10-30 15:47:45	2025-10-30 19:13:45	6.51	3.43
	6	2025-12-19 02:53:16	2025-12-19 03:42:36	2025-12-20 03:37:50	24.74	23.92
New Haven	1	2025-02-16 06:35:47	2025-02-16 08:37:33	2025-02-18 14:55:13	56.32	54.29
	2	2025-06-24 18:15:40	2025-06-24 18:42:48	2025-06-24 18:42:48	0.45	0.00
	3	2025-07-03 18:02:42	2025-07-03 19:51:45	2025-07-03 19:51:45	1.82	0.00
	4	2025-10-13 01:28:08	2025-10-13 02:27:30	2025-10-13 21:48:00	20.33	19.34
	5	2025-10-30 10:14:23	2025-10-30 11:27:26	2025-10-30 23:04:11	12.83	11.61
	6	2025-12-19 10:47:46	2025-12-19 12:37:06	2025-12-20 07:07:00	20.32	18.50
North Branford	1	2025-02-17 10:14:06	2025-02-17 23:23:33	2025-02-17 23:23:33	13.16	0.00

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Town	Storm Number	First Outage Time	First Restoration Time	Last Restoration Time	Time Between First Outage and Last Restoration Time (Hours)	Time Between First Restoration and Last Restoration Time (Hours)
North Branford	2	N/A	N/A	N/A	N/A	N/A
	3	2025-07-03 19:04:27	2025-07-04 04:07:00	2025-07-04 04:07:00	9.04	0.00
	4	2025-10-13 01:32:08	2025-10-13 04:59:14	2025-10-13 07:04:25	5.54	2.09
	5	N/A	N/A	N/A	N/A	N/A
	6	2025-12-19 10:35:26	2025-12-19 14:13:52	2025-12-19 14:13:52	3.64	0.00
North Haven	1	2025-02-16 06:07:06	2025-02-16 10:19:13	2025-02-17 21:44:07	39.62	35.42
	2	N/A	N/A	N/A	N/A	N/A
	3	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A
	6	2025-12-19 10:22:34	2025-12-19 12:11:00	2025-12-19 20:55:39	10.55	8.74
Orange	1	2025-02-16 03:42:21	2025-02-16 05:12:00	2025-02-18 01:14:30	45.54	44.04
	2	2025-06-24 06:48:13	2025-06-24 08:59:55	2025-06-24 08:59:55	2.20	0.00
	3	2025-07-03 09:34:10	2025-07-03 10:33:00	2025-07-04 04:14:30	18.67	17.69
	4	2025-10-13 05:10:15	2025-10-13 08:29:38	2025-10-13 13:28:29	8.30	4.98
	5	2025-10-30 13:23:42	2025-10-30 15:59:47	2025-10-30 15:59:47	2.60	0.00
	6	2025-12-19 10:02:47	2025-12-19 14:25:11	2025-12-20 02:23:50	16.35	11.98
Shelton	1	2025-02-16 05:50:41	2025-02-16 14:39:41	2025-02-18 00:21:03	42.51	33.69
	2	2025-06-24 08:42:29	2025-06-24 09:21:58	2025-06-25 04:27:30	19.75	19.09
	3	2025-07-03 07:22:11	2025-07-03 09:10:03	2025-07-04 05:24:46	22.04	20.25
	4	2025-10-13 04:07:50	2025-10-13 07:07:53	2025-10-13 21:10:04	17.04	14.04
	5	2025-10-30 14:36:27	2025-10-30 15:46:45	2025-10-30 22:09:11	7.55	6.37
	6	2025-12-19 10:12:58	2025-12-19 11:49:12	2025-12-19 21:07:27	10.91	9.30
Stratford	1	2025-02-16 07:12:47	2025-02-16 18:42:52	2025-02-17 22:30:07	39.29	27.79
	2	2025-06-24 18:32:54	2025-06-24 22:41:02	2025-06-24 22:41:23	4.14	0.01
	3	2025-07-03 15:20:05	2025-07-03 16:10:00	2025-07-05 08:41:53	41.36	40.53
	4	2025-10-13 03:30:09	2025-10-13 04:38:53	2025-10-13 20:33:56	17.06	15.92
	5	2025-10-30 07:11:52	2025-10-30 08:36:52	2025-10-31 00:38:25	17.44	16.03
	6	2025-12-19 09:53:46	2025-12-19 10:36:19	2025-12-20 00:31:07	14.62	13.91

Town	Storm Number	First Outage Time	First Restoration Time	Last Restoration Time	Time Between First Outage and Last Restoration Time (Hours)	Time Between First Restoration and Last Restoration Time (Hours)
Trumbull	1	2025-02-16 04:43:17	2025-02-16 06:17:00	2025-02-18 00:00:54	43.29	41.73
	2	2025-06-24 13:46:10	2025-06-24 17:50:03	2025-06-24 18:37:55	4.86	0.80
	3	2025-07-03 17:38:20	2025-07-03 19:37:41	2025-07-05 19:06:00	49.46	47.47
	4	2025-10-13 03:23:37	2025-10-13 07:39:38	2025-10-13 20:57:10	17.56	13.29
	5	2025-10-30 13:56:21	2025-10-30 15:21:08	2025-10-30 22:09:11	8.21	6.80
	6	2025-12-19 04:43:37	2025-12-19 05:59:57	2025-12-19 18:56:00	14.21	12.93
West Haven	1	2025-02-16 04:56:46	2025-02-16 13:46:09	2025-02-17 18:44:38	37.80	28.97
	2	2025-06-24 12:18:14	2025-06-24 14:05:10	2025-06-24 20:39:46	8.36	6.58
	3	2025-07-03 17:56:00	2025-07-03 19:08:14	2025-07-04 12:54:22	18.97	17.77
	4	2025-10-13 14:46:11	2025-10-13 14:59:39	2025-10-13 14:59:39	0.22	0.00
	5	2025-10-30 21:03:45	2025-10-31 00:32:32	2025-10-31 00:32:32	3.48	0.00
	6	2025-12-19 09:05:04	2025-12-19 09:54:08	2025-12-19 09:54:08	0.82	0.00
Woodbridge	1	2025-02-16 06:06:15	2025-02-16 16:44:02	2025-02-18 10:58:48	52.88	42.25
	2	2025-06-24 22:50:10	2025-06-25 00:18:00	2025-06-25 00:18:00	1.46	0.00
	3	N/A	N/A	N/A	N/A	N/A
	4	2025-10-13 04:19:18	2025-10-13 10:57:42	2025-10-13 11:00:02	6.68	0.04
	5	2025-10-30 18:47:58	2025-10-30 20:35:29	2025-10-31 01:31:17	6.72	4.93
	6	2025-12-19 09:49:12	2025-12-19 12:15:00	2025-12-20 17:12:47	31.39	28.96

* “N/A” entries indicate customers from the respective town did not experience any outages during the respective storm

b. Major Storm Sub-Metric 3

Town	Storm Number	Town Median Income	UI Median Income	Town Median Income / UI Median Income
Ansonia	1	$80,585	$114,515	0.7037
	2	$80,585	$114,515	0.7037
	3	$80,585	$114,515	0.7037
	4	N/A	N/A	N/A
	5	$80,585	$114,515	0.7037
	6	$80,585	$114,515	0.7037
Bridgeport	1	$56,584	$114,515	0.4941
	2	$56,584	$114,515	0.4941
	3	$56,584	$114,515	0.4941
	4	$56,584	$114,515	0.4941
	5	$56,584	$114,515	0.4941
	6	$56,584	$114,515	0.4941
Derby	1	$76,263	$114,515	0.6660
	2	N/A	N/A	N/A
	3	$76,263	$114,515	0.6660
	4	N/A	N/A	N/A
	5	N/A	N/A	N/A
	6	$76,263	$114,515	0.6660
East Haven	1	$86,498	$114,515	0.7553
	2	$86,498	$114,515	0.7553
	3	$86,498	$114,515	0.7553
	4	N/A	N/A	N/A
	5	$86,498	$114,515	0.7553
	6	$86,498	$114,515	0.7553
Easton	1	$189,505	$114,515	1.6549
	2	N/A	N/A	N/A
	3	$189,505	$114,515	1.6549
	4	$189,505	$114,515	1.6549

Town	Storm Number	Town Median Income	UI Median Income	Town Median Income / UI Median Income
Easton	5	$189,505	$114,515	1.6549
	6	$189,505	$114,515	1.6549
Fairfield	1	$168,391	$114,515	1.4705
	2	$168,391	$114,515	1.4705
	3	$168,391	$114,515	1.4705
	4	$168,391	$114,515	1.4705
	5	$168,391	$114,515	1.4705
	6	$168,391	$114,515	1.4705
Hamden	1	$92,176	$114,515	0.8049
	2	$92,176	$114,515	0.8049
	3	$92,176	$114,515	0.8049
	4	$92,176	$114,515	0.8049
	5	N/A	N/A	N/A
	6	$92,176	$114,515	0.8049
Milford	1	$109,580	$114,515	0.9569
	2	$109,580	$114,515	0.9569
	3	$109,580	$114,515	0.9569
	4	$109,580	$114,515	0.9569
	5	$109,580	$114,515	0.9569
	6	$109,580	$114,515	0.9569
New Haven	1	$53,771	$114,515	0.4696
	2	$53,771	$114,515	0.4696
	3	$53,771	$114,515	0.4696
	4	$53,771	$114,515	0.4696
	5	$53,771	$114,515	0.4696
	6	$53,771	$114,515	0.4696
North Branford	1	$113,687	$114,515	0.9928
	2	N/A	N/A	N/A
	3	$113,687	$114,515	0.9928
	4	$113,687	$114,515	0.9928
	5	N/A	N/A	N/A

Town	Storm Number	Town Median Income	UI Median Income	Town Median Income / UI Median Income
North Branford	6	$113,687	$114,515	0.9928
North Haven	1	$126,807	$114,515	1.1073
	2	N/A	N/A	N/A
	3	N/A	N/A	N/A
	4	N/A	N/A	N/A
	5	N/A	N/A	N/A
	6	$126,807	$114,515	1.1073
Orange	1	$145,625	$114,515	1.2717
	2	$145,625	$114,515	1.2717
	3	$145,625	$114,515	1.2717
	4	$145,625	$114,515	1.2717
	5	$145,625	$114,515	1.2717
	6	$145,625	$114,515	1.2717
Shelton	1	$114,739	$114,515	1.0020
	2	$114,739	$114,515	1.0020
	3	$114,739	$114,515	1.0020
	4	$114,739	$114,515	1.0020
	5	$114,739	$114,515	1.0020
	6	$114,739	$114,515	1.0020
Stratford	1	$93,820	$114,515	0.8193
	2	$93,820	$114,515	0.8193
	3	$93,820	$114,515	0.8193
	4	$93,820	$114,515	0.8193
	5	$93,820	$114,515	0.8193
	6	$93,820	$114,515	0.8193
Trumbull	1	$163,227	$114,515	1.4254
	2	$163,227	$114,515	1.4254
	3	$163,227	$114,515	1.4254
	4	$163,227	$114,515	1.4254
	5	$163,227	$114,515	1.4254
	6	$163,227	$114,515	1.4254

Town	Storm Number	Town Median Income	UI Median Income	Town Median Income / UI Median Income
West Haven	1	$73,566	$114,515	0.6424
	2	$73,566	$114,515	0.6424
	3	$73,566	$114,515	0.6424
	4	$73,566	$114,515	0.6424
	5	$73,566	$114,515	0.6424
	6	$73,566	$114,515	0.6424
Woodbridge	1	$201,926	$114,515	1.7633
	2	$201,926	$114,515	1.7633
	3	N/A	N/A	N/A
	4	$201,926	$114,515	1.7633
	5	$201,926	$114,515	1.7633
	6	$201,926	$114,515	1.7633

* Median income information pulled from the individual **AdvanceCT Town Profiles**
* "N/A" entries indicate customers from the respective town did not experience any outages during the respective storm

c. Major Storm Sub-Metric 4

	Asian	Black	Hispanic / Latino	White	Other
UI	40,287 (5%)	71,521 (9%)	117,241 (15%)	509,252 (66%)	31,234 (4%)

* Customer demographic counts are approximated based on regional demographic averages and population

Town	Storm Number	Asian Pop.	Town Pop. / UI Pop. (Asian)	Black Pop.	Town Pop. / UI Pop. (Black)	Hispanic / Latino Pop.	Town Pop. / UI Pop. (Hispanic/Latino)	White Pop.	Town Pop. / UI Pop. (White)	Other Pop.	Town Pop. / UI Pop. (Other)
Ansonia	1	568	0.0141	3,221	0.0450	4,737	0.0404	9,665	0.0190	947	0.0303
	2	568	0.0141	3,221	0.0450	4,737	0.0404	9,665	0.0190	947	0.0303
	3	568	0.0141	3,221	0.0450	4,737	0.0404	9,665	0.0190	947	0.0303
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	568	0.0141	3,221	0.0450	4,737	0.0404	9,665	0.0190	947	0.0303
	6	568	0.0141	3,221	0.0450	4,737	0.0404	9,665	0.0190	947	0.0303
Bridgeport	1	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
	2	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
	3	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
	4	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
	5	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
	6	7,400	0.1837	28,122	0.3932	66,605	0.5681	38,483	0.0756	7,400	0.2369
Derby	1	247	0.0061	1,359	0.0190	2,595	0.0221	7,291	0.0143	865	0.0277
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	247	0.0061	1,359	0.0190	2,595	0.0221	7,291	0.0143	865	0.0277
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	247	0.0061	1,359	0.0190	2,595	0.0221	7,291	0.0143	865	0.0277
East Haven	1	554	0.0138	1,109	0.0155	5,268	0.0449	20,242	0.0397	554	0.0177
	2	554	0.0138	1,109	0.0155	5,268	0.0449	20,242	0.0397	554	0.0177
	3	554	0.0138	1,109	0.0155	5,268	0.0449	20,242	0.0397	554	0.0177

Town	Storm Number	Asian Pop.	Town Pop. / UI Pop. (Asian)	Black Pop.	Town Pop. / UI Pop. (Black)	Hispanic / Latino Pop.	Town Pop. / UI Pop. (Hispanic/Latino)	White Pop.	Town Pop. / UI Pop. (White)	Other Pop.	Town Pop. / UI Pop. (Other)
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	554	0.0138	1,109	0.0155	5,268	0.0449	20,242	0.0397	554	0.0177
East Haven	6	554	0.0138	1,109	0.0155	5,268	0.0449	20,242	0.0397	554	0.0177
Easton	1	304	0.0075	152	0.0021	228	0.0019	6,546	0.0129	380	0.0122
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	304	0.0075	152	0.0021	228	0.0019	6,546	0.0129	380	0.0122
	4	304	0.0075	152	0.0021	228	0.0019	6,546	0.0129	380	0.0122
	5	304	0.0075	152	0.0021	228	0.0019	6,546	0.0129	380	0.0122
	6	304	0.0075	152	0.0021	228	0.0019	6,546	0.0129	380	0.0122
Fairfield	1	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
	2	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
	3	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
	4	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
	5	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
	6	3,125	0.0776	625	0.0087	4,375	0.0373	53,131	0.1043	1,875	0.0600
Hamden	1	2,411	0.0598	13,868	0.1939	7,838	0.0669	33,163	0.0651	2,411	0.0772
	2	2,411	0.0598	13,868	0.1939	7,838	0.0669	33,163	0.0651	2,411	0.0772
	3	2,411	0.0598	13,868	0.1939	7,838	0.0669	33,163	0.0651	2,411	0.0772
	4	2,411	0.0598	13,868	0.1939	7,838	0.0669	33,163	0.0651	2,411	0.0772
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	2,411	0.0598	13,868	0.1939	7,838	0.0669	33,163	0.0651	2,411	0.0772
Milford	1	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
	2	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
	3	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
	4	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
	5	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
	6	2,617	0.0650	1,570	0.0220	4,710	0.0402	41,872	0.0822	1,570	0.0503
New Haven	1	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127
	2	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127
	3	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127

Town	Storm Number	Asian Pop.	Town Pop. / UI Pop. (Asian)	Black Pop.	Town Pop. / UI Pop. (Black)	Hispanic / Latino Pop.	Town Pop. / UI Pop. (Hispanic/Latino)	White Pop.	Town Pop. / UI Pop. (White)	Other Pop.	Town Pop. / UI Pop. (Other)
	4	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127
	5	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127
New Haven	6	6,644	0.1649	38,538	0.5388	41,196	0.3514	38,538	0.0757	6,644	0.2127
North Branford	1	404	0.0100	134	0.0019	539	0.0046	12,138	0.0238	404	0.0129
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	404	0.0100	134	0.0019	539	0.0046	12,138	0.0238	404	0.0129
	4	404	0.0100	134	0.0019	539	0.0046	12,138	0.0238	404	0.0129
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	404	0.0100	134	0.0019	539	0.0046	12,138	0.0238	404	0.0129
North Haven	1	1,692	0.0420	967	0.0135	1,692	0.0144	19,099	0.0375	725	0.0232
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	1,692	0.0420	967	0.0135	1,692	0.0144	19,099	0.0375	725	0.0232
Orange	1	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
	2	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
	3	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
	4	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
	5	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
	6	1,282	0.0318	570	0.0080	570	0.0049	11,400	0.0224	427	0.0137
Shelton	1	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
	2	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
	3	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
	4	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
	5	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
	6	3,726	0.0925	2,484	0.0347	4,968	0.0424	28,567	0.0561	1,656	0.0530
Stratford	1	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503
	2	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503
	3	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503

Town	Storm Number	Asian Pop.	Town Pop. / UI Pop. (Asian)	Black Pop.	Town Pop. / UI Pop. (Black)	Hispanic / Latino Pop.	Town Pop. / UI Pop. (Hispanic/Latino)	White Pop.	Town Pop. / UI Pop. (White)	Other Pop.	Town Pop. / UI Pop. (Other)
	4	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503
	5	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503
Stratford	6	1,048	0.0260	5,764	0.0806	9,956	0.0849	33,537	0.0659	1,572	0.0503
Trumbull	1	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
	2	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
	3	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
	4	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
	5	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
	6	3,323	0.0825	738	0.0103	2,954	0.0252	27,696	0.0544	2,215	0.0709
West Haven	1	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
	2	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
	3	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
	4	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
	5	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
	6	2,757	0.0684	9,926	0.1388	14,338	0.1223	25,919	0.0509	2,205	0.0706
Woodbridge	1	904	0.0224	271	0.0038	542	0.0046	6,961	0.0137	361	0.0116
	2	904	0.0224	271	0.0038	542	0.0046	6,961	0.0137	361	0.0116
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	904	0.0224	271	0.0038	542	0.0046	6,961	0.0137	361	0.0116
	5	904	0.0224	271	0.0038	542	0.0046	6,961	0.0137	361	0.0116
	6	904	0.0224	271	0.0038	542	0.0046	6,961	0.0137	361	0.0116

* Demographic population counts estimated using information pulled from the individual **AdvanceCT Town Profiles**
* "N/A" entries indicate customers from the respective town did not experience any outages during the respective storm

Town	Storm Number	Asian %	Town % / UI % (Asian)	Black %	Town % / UI % (Black)	Hispanic / Latino %	Town % / UI % (Hispanic/Latino)	White %	Town % / UI % (White)	Other %	Town % / UI % (Other)
Ansonia	1	3%	0.5730	17%	1.8291	25%	1.6409	51%	0.7707	5%	1.2319
	2	3%	0.5730	17%	1.8291	25%	1.6409	51%	0.7707	5%	1.2319
	3	3%	0.5730	17%	1.8291	25%	1.6409	51%	0.7707	5%	1.2319
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	3%	0.5730	17%	1.8291	25%	1.6409	51%	0.7707	5%	1.2319
	6	3%	0.5730	17%	1.8291	25%	1.6409	51%	0.7707	5%	1.2319
Bridgeport	1	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
	2	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
	3	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
	4	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
	5	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
	6	5%	0.9551	19%	2.0443	45%	2.9537	26%	0.3929	5%	1.2319
Derby	1	2%	0.3820	11%	1.1835	21%	1.3784	59%	0.8916	7%	1.7246
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	2%	0.3820	11%	1.1835	21%	1.3784	59%	0.8916	7%	1.7246
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	2%	0.3820	11%	1.1835	21%	1.3784	59%	0.8916	7%	1.7246
East Haven	1	2%	0.3820	4%	0.4304	19%	1.2471	73%	1.1031	2%	0.4928
	2	2%	0.3820	4%	0.4304	19%	1.2471	73%	1.1031	2%	0.4928
	3	2%	0.3820	4%	0.4304	19%	1.2471	73%	1.1031	2%	0.4928
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	2%	0.3820	4%	0.4304	19%	1.2471	73%	1.1031	2%	0.4928
	6	2%	0.3820	4%	0.4304	19%	1.2471	73%	1.1031	2%	0.4928
Easton	1	4%	0.7640	2%	0.2152	3%	0.1969	86%	1.2996	5%	1.2319
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	4%	0.7640	2%	0.2152	3%	0.1969	86%	1.2996	5%	1.2319
	4	4%	0.7640	2%	0.2152	3%	0.1969	86%	1.2996	5%	1.2319
	5	4%	0.7640	2%	0.2152	3%	0.1969	86%	1.2996	5%	1.2319
	6	4%	0.7640	2%	0.2152	3%	0.1969	86%	1.2996	5%	1.2319

Town	Storm Number	Asian %	Town % / UI % (Asian)	Black %	Town % / UI % (Black)	Hispanic / Latino %	Town % / UI % (Hispanic/Latino)	White %	Town % / UI % (White)	Other %	Town % / UI % (Other)
Fairfield	1	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
	2	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
	3	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
	4	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
	5	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
	6	5%	0.9551	1%	0.1076	7%	0.4595	85%	1.2844	3%	0.7391
Hamden	1	4%	0.7640	23%	2.4747	13%	0.8533	55%	0.8311	4%	0.9855
	2	4%	0.7640	23%	2.4747	13%	0.8533	55%	0.8311	4%	0.9855
	3	4%	0.7640	23%	2.4747	13%	0.8533	55%	0.8311	4%	0.9855
	4	4%	0.7640	23%	2.4747	13%	0.8533	55%	0.8311	4%	0.9855
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	4%	0.7640	23%	2.4747	13%	0.8533	55%	0.8311	4%	0.9855
Milford	1	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
	2	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
	3	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
	4	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
	5	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
	6	5%	0.9551	3%	0.3228	9%	0.5907	80%	1.2089	3%	0.7391
New Haven	1	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
	2	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
	3	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
	4	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
	5	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
	6	5%	0.9551	29%	3.1203	31%	2.0347	29%	0.4382	5%	1.2319
North Branford	1	3%	0.5730	1%	0.1076	4%	0.2625	90%	1.3600	3%	0.7391
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	3%	0.5730	1%	0.1076	4%	0.2625	90%	1.3600	3%	0.7391
	4	3%	0.5730	1%	0.1076	4%	0.2625	90%	1.3600	3%	0.7391
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	3%	0.5730	1%	0.1076	4%	0.2625	90%	1.3600	3%	0.7391

Town	Storm Number	Asian %	Town % / UI % (Asian)	Black %	Town % / UI % (Black)	Hispanic / Latino %	Town % / UI % (Hispanic/Latino)	White %	Town % / UI % (White)	Other %	Town % / UI % (Other)
North Haven	1	7%	1.3371	4%	0.4304	7%	0.4595	79%	1.1938	3%	0.7391
	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6	7%	1.3371	4%	0.4304	7%	0.4595	79%	1.1938	3%	0.7391
Orange	1	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
	2	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
	3	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
	4	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
	5	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
	6	9%	1.7191	4%	0.4304	4%	0.2625	80%	1.2089	3%	0.7391
Shelton	1	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
	2	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
	3	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
	4	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
	5	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
	6	9%	1.7191	6%	0.6456	12%	0.7876	69%	1.0427	4%	0.9855
Stratford	1	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
	2	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
	3	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
	4	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
	5	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
	6	2%	0.3820	11%	1.1835	19%	1.2471	64%	0.9671	3%	0.7391
Trumbull	1	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783
	2	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783
	3	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783
	4	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783
	5	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783
	6	9%	1.7191	2%	0.2152	8%	0.5251	75%	1.1333	6%	1.4783

Town	Storm Number	Asian %	Town % / UI % (Asian)	Black %	Town % / UI % (Black)	Hispanic / Latino %	Town % / UI % (Hispanic/Latino)	White %	Town % / UI % (White)	Other %	Town % / UI % (Other)
West Haven	1	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
	2	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
	3	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
	4	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
	5	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
	6	5%	0.9551	18%	1.9367	26%	1.7066	47%	0.7102	4%	0.9855
Woodbridge	1	10%	1.9101	3%	0.3228	6%	0.3938	77%	1.1636	4%	0.9855
	2	10%	1.9101	3%	0.3228	6%	0.3938	77%	1.1636	4%	0.9855
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	10%	1.9101	3%	0.3228	6%	0.3938	77%	1.1636	4%	0.9855
	5	10%	1.9101	3%	0.3228	6%	0.3938	77%	1.1636	4%	0.9855
	6	10%	1.9101	3%	0.3228	6%	0.3938	77%	1.1636	4%	0.9855

* Demographic percentages pulled from the individual **AdvanceCT Town Profiles**
* "N/A" entries indicate customers from the respective town did not experience any outages during the respective storm

d. Major Storm Sub-Metric 5

Storm Number	Quintile	Total Meters Affected Quintile Threshold	Quintile Timestamp	Average Household Income
1	Quintile 1	5,865	2025-02-16 08:37:33	$75,378
	Quintile 2	11,730	2025-02-16 11:24:30	$76,348
	Quintile 3	17,595	2025-02-16 15:45:03	$79,207
	Quintile 4	23,460	2025-02-17 02:03:27	$84,086
	Quintile 5	29,325	2025-02-18 14:55:13	$93,109
2	Quintile 1	795	2025-06-24 18:42:48	$74,719
	Quintile 2	1,590	2025-06-24 18:42:48	$74,719
	Quintile 3	2,385	2025-06-24 18:42:48	$74,719
	Quintile 4	3,180	2025-06-24 18:42:48	$74,719
	Quintile 5	3,975	2025-06-25 10:57:48	$75,519
3	Quintile 1	1,734	2025-07-03 19:13:48	$118,424
	Quintile 2	3,468	2025-07-03 19:41:05	$136,845
	Quintile 3	5,202	2025-07-03 22:05:23	$135,936
	Quintile 4	6,936	2025-07-03 23:49:25	$129,234
	Quintile 5	8,670	2025-07-05 19:06:00	$127,281
4	Quintile 1	1,449	2025-10-13 09:06:15	$112,311
	Quintile 2	2,898	2025-10-13 09:24:15	$112,852
	Quintile 3	4,347	2025-10-13 13:10:07	$87,468
	Quintile 4	5,796	2025-10-13 13:10:07	$87,468
	Quintile 5	7,245	2025-10-13 21:48:00	$103,142
5	Quintile 1	431	2025-10-30 08:36:52	$93,820
	Quintile 2	861	2025-10-30 14:05:53	$97,045
	Quintile 3	1,292	2025-10-30 16:47:01	$123,237
	Quintile 4	1,722	2025-10-30 19:13:45	$121,130
	Quintile 5	2,152	2025-10-31 02:02:58	$121,591
6	Quintile 1	2,356	2025-12-19 11:49:12	$141,719
	Quintile 2	4,712	2025-12-19 12:20:49	$135,824
	Quintile 3	7,068	2025-12-19 14:34:30	$125,938

Storm Number	Quintile	Total Meters Affected Quintile Threshold	Quintile Timestamp	Average Household Income
6	Quintile 4	9,424	2025-12-19 19:20:00	$113,948
	Quintile 5	11,780	2025-12-21 11:05:34	$114,026

* Median income information pulled from the individual **AdvanceCT Town Profiles**

e. Major Storm Sub-Metric 6

Storm Number	Quintile	Total Meters Affected Quintile Threshold	Quintile Timestamp	Asian Percentage	Black Percentage	Hispanic/Latino Percentage	White Percentage	Other Percentage
1	Quintile 1	5,865	2025-02-16 08:37:33	4.7%	27.1%	25.0%	38.5%	4.7%
	Quintile 2	11,730	2025-02-16 11:24:30	4.8%	26.9%	26.0%	37.5%	4.7%
	Quintile 3	17,595	2025-02-16 15:45:03	4.8%	26.4%	24.8%	39.3%	4.7%
	Quintile 4	23,460	2025-02-17 02:03:27	4.7%	25.1%	24.9%	40.7%	4.6%
	Quintile 5	29,325	2025-02-18 14:55:13	4.8%	23.2%	23.7%	43.8%	4.5%
2	Quintile 1	795	2025-06-24 18:42:48	4.5%	22.3%	28.5%	40.4%	4.3%
	Quintile 2	1,590	2025-06-24 18:42:48	4.5%	22.3%	28.5%	40.4%	4.3%
	Quintile 3	2,385	2025-06-24 18:42:48	4.5%	22.3%	28.5%	40.4%	4.3%
	Quintile 4	3,180	2025-06-24 18:42:48	4.5%	22.3%	28.5%	40.4%	4.3%
	Quintile 5	3,975	2025-06-25 10:57:48	4.5%	21.4%	29.3%	40.5%	4.3%
3	Quintile 1	1,734	2025-07-03 19:13:48	5.4%	3.9%	9.4%	78.2%	3.1%
	Quintile 2	3,468	2025-07-03 19:41:05	6.8%	3.0%	8.8%	77.2%	4.2%
	Quintile 3	5,202	2025-07-03 22:05:23	6.1%	4.7%	11.3%	73.9%	4.0%
	Quintile 4	6,936	2025-07-03 23:49:25	5.8%	4.4%	11.0%	75.0%	3.7%
	Quintile 5	8,670	2025-07-05 19:06:00	5.7%	4.5%	11.2%	75.0%	3.7%
4	Quintile 1	1,449	2025-10-13 09:06:15	7.9%	8.6%	16.3%	63.0%	4.1%
	Quintile 2	2,898	2025-10-13 09:24:15	7.9%	8.5%	16.2%	63.3%	4.1%
	Quintile 3	4,347	2025-10-13 13:10:07	5.8%	23.0%	26.6%	39.8%	4.7%
	Quintile 4	5,796	2025-10-13 13:10:07	5.8%	23.0%	26.6%	39.8%	4.7%
	Quintile 5	7,245	2025-10-13 21:48:00	5.8%	21.4%	25.1%	43.1%	4.6%
5	Quintile 1	431	2025-10-30 08:36:52	2.0%	11.1%	19.2%	64.6%	3.0%
	Quintile 2	861	2025-10-30 14:05:53	2.2%	10.8%	18.7%	65.2%	3.1%
	Quintile 3	1,292	2025-10-30 16:47:01	3.6%	8.1%	16.0%	68.9%	3.4%
	Quintile 4	1,722	2025-10-30 19:13:45	3.9%	7.5%	15.6%	69.7%	3.4%
	Quintile 5	2,152	2025-10-31 02:02:58	4.1%	8.0%	15.9%	68.6%	3.5%
6	Quintile 1	2,356	2025-12-19 11:49:12	7.2%	2.7%	8.7%	76.8%	4.6%

Storm Number	Quintile	Total Meters Affected Quintile Threshold	Quintile Timestamp	Asian Percentage	Black Percentage	Hispanic/Latino Percentage	White Percentage	Other Percentage
6	Quintile 2	4,712	2025-12-19 12:20:49	6.7%	2.7%	8.8%	77.6%	4.2%
	Quintile 3	7,068	2025-12-19 14:34:30	6.7%	6.6%	16.8%	65.6%	4.4%
	Quintile 4	9,424	2025-12-19 19:20:00	6.0%	11.6%	28.2%	49.7%	4.6%
	Quintile 5	11,780	2025-12-21 11:05:34	5.8%	10.7%	25.7%	53.4%	4.4%

* Demographic percentages pulled from the individual **AdvanceCT Town Profiles**