conEdison

2024 Annual Report on Electric Service and Power Quality

March 31, 2025
Distribution Engineering

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

2024 ANNUAL REPORT

ON

ELECTRIC SERVICE

AND

POWER QUALITY

MARCH 31, 2025

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SECTION 1

CORPORATE RELIABILITY PERFORMANCE

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CONSOLIDATED EDISON COMPANY OF NEW YORK

ELECTRIC DISTRIBUTION SYSTEM 2024

GENERAL

Con Edison's (the Company) electric service territory encompasses 604 square miles, located in the southernmost part New York State and it includes New York City (except for the Rockaway Peninsula) and most of Westchester County. The population of the entire territory is estimated to be 14,202,946 people. In 2024, Con Edison served 3,686,348 electric customers (2,752,432 network and 933,916 non-network).

The service territory customer density is the highest in New York State at 6,103 electric customers per square mile and it is divided into four operating regions: Bronx/Westchester, Brooklyn/Queens, Manhattan, and Staten Island.

The system coincident summer peak load occurred on July 16th at 6 PM with 11,910 MW. The 2023 coincident summer peak load was 11,464 MW on July 27th at 6 PM. Also, the all-time weekday peak load of 13,322 MW was reached on July 19th, 2013 at 5 PM and the all-time weekend peak load of 12,063 MW occurred on July 21st, 2019 at 6 PM. During the summer of 2024, the daily system peak load surpassed 11,000 MW a total of 11 times as compared to 2 times in 2023 and 18 times in 2013. The peak load did not exceed 12,000 MW in 2024.

OVERALL SERVICE RELIABILITY[1]

The Company's overall System Average Interruption Frequency Index (SAIFI) for 2024 was 106 per 1,000 customers served which is better than the five-year average of 144 per 1,000 customers served.

The Company's overall Customer Average Interruption Duration Index (CAIDI) for 2024 was 2.36 hours which is better than the five-year average of 2.40 hours.

	2020	2021	2022	2023	2024
SAIFI	185	139	133	110	106
CAIDI	1.94	2.35	2.29	2.25	2.36

[1] All SAIFI & CAIDI numbers in this report exclude Major Storms as defined in Case 22-E-0064.

NON-NETWORK SYSTEM PERFORMANCE

The table below shows the non-network performance levels for the last five years.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	469	489	467	398	372	**495**
CAIDI	2.02	1.93	1.86	1.91	1.88	**2.04**

NON-NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the non-network system SAIFI was 372 per 1,000 customers served. This performance is better than the RPM threshold of 495.

NON-NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the non-network system CAIDI was 1.88 hours. This performance is better than the RPM threshold of 2.04 hours.

NON-NETWORK INTERRUPTION CAUSE CODES

The following table provides the five-year history of non-network customer interruptions by PSC cause codes.

NON-NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	454,008	52%	57,674	12%	21,936	5%	31,613	8%	73,619	18%
2	Tree Contact	45,326	5%	37,766	8%	27,836	8%	34,320	9%	28,295	7%
3	Overloads	1,492	0%	6,016	1%	293	0%	132	0%	984	0%
4	Operating or Working Errors	286	0%	0	0%	2,107	0%	14	0%	0	0%
5	Apparatus or Equipment Failure	288,834	33%	314,279	63%	331,623	74%	257,996	65%	251,024	60%
6	Accidents or Events Not Under Utilities Control	71,537	8%	56,067	11%	35,324	8%	47,962	12%	39,997	10%
7	Pre-arranged	5,185	1%	4,230	1%	16,281	4%	18,507	5%	13,822	3%
8	Customer's Equipment or Failure	111	0%	26	0%	408	0%	29	0%	47	0%
9	Lightning	2,815	0%	10,648	2%	6,224	1%	3,036	1%	5,060	1%
10	Unknown or Unclassified	11,924	1%	13,405	3%	5,898	1%	3,782	1%	7,742	2%
	Non-Network Total	**881,518**		**500,111**		**447,930**		**397,391**		**420,590**	

NETWORK SYSTEM PERFORMANCE

The table below indicates the network system performance levels for the last five years.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	85.8	17.0	17.4	11.7	15.6	**18.6**
CAIDI	1.79	6.57	6.23	6.13	6.20	**6.89**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the network system SAIFI was 15.6 per 1,000 customers served. This performance is better than the threshold of 18.6.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the network system CAIDI was 6.20 hours. This performance is better than the threshold of 6.89 hours.

NETWORK CAUSE CODES

The following table provides the five-year history of network customer interruptions by PSC cause codes.

NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	211,514	88%	24,885	34%	31,184	49%	15,696	45%	21,425	36%
12	Street Mains Cable	23,508	10%	26,572	37%	23,669	37%	16,162	46%	21,049	35%
13	Apparatus or Equipment Failure	2,999	1%	3,868	5%	2,747	5%	2,446	7%	1,392	2%
14	Accidents or Events Not Under Utilities Control	3,185	1%	16,460	23%	3,602	6%	307	1%	14,910	25%
15	Pre-arranged	164	0%	305	0%	745	1%	439	1%	614	1%
16	Customer's Equipment or Failure	39	0%	19	0%	1,728	3%	39	0%	6	0%
17	Unknown or Unclassified	153	0%	513	1%	480	1%	59	0%	478	1%
	Network Total	**241,562**		**72,622**		**64,155**		**35,148**		**59,874**	

ELECTRIC OPERATIONS AREA PERFORMANCE

In accordance with the requirements of Section 5 (a) of the "Service Reliability and Quality Standards" ("Service Standards") adopted by the Public Service Commission in Case 02-E-1240, Class A Electric Corporations are to report, on a yearly basis, the SAIFI and CAIDI performance levels by operating area as compared to the levels for interruption frequency and duration established in Attachment 1 of the Service Standards. In addition, each company must report on the "Worst Performing Circuits" by operating area per Sections 3 (b) and 5 (e).

OPERATING AREA PERFORMANCE VERSUS PSC SERVICE STANDARDS

		2024 Performance		PSC Service Standards	
Operating Area	**System**	**SAIFI**	**CAIDI**	**SAIFI**	**CAIDI**
Bronx	Non-Network	336.77	1.73[2]	450	1.50
	Network	21.99[2]	4.40[2]	15	3.25
Brooklyn	Non-Network	399.00	1.95[2]	450	1.50
	Network	14.47	6.37[2]	15	3.25
Manhattan	Network	12.52[2]	4.23[2]	15	3.75
Queens	Non-Network	228.47	2.49[2]	350	1.50
	Network	16.70[2]	9.67[2]	8	3.25
Staten Island	Non-Network	461.21	1.39	550	1.50
Westchester	Non-Network	416.49	1.99	550	2.00
	Network	21.01[2]	2.75	8	3.25

[2] Higher than Service Standard

NON-NETWORK WORST PERFORMING CIRCUITS

The Non-Network Worst-Performing Circuits are obtained by calculating the SAIFI and CAIDI three-year average using the PSC Customer Interruption database. The worst-performing SAIFI **(WSAIFI)** and worst-performing CAIDI **(WCAIDI)** feeder listings contain the following information: feeder number, customers served, three-year SAIFI and CAIDI, three-year average SAIFI or CAIDI performance, number of years the feeder was over the SAIFI/CAIDI threshold (Years-Over-Minimum), and rank. Major storm interruptions are excluded from the SAIFI and CAIDI performance measurement. Feeders whose performance was better than the PSC Service Standard will have a WSAIFI or WCAIDI of zero.

The feeders are scored based on how many times, over the last three years, the WSAIFI or WCAIDI performance was greater than PSC Service Standard. The WSAIFI and WCAIDI feeder listing is ranked highest to lowest by the Years-Over-Minimum standard first, and then by the three-year average of WSAIFI or WCAIDI performance.

The list of worst-performing non-network feeders are reported in each of the operating area sections and is developed by selecting the top 2.5% of the WSAIFI feeders and the top 2.5% WCAIDI feeders.

NETWORK WORST PERFORMING CIRCUITS

The network worst-performing circuits are ranked by the number of Open Automatics (OAs) that each feeder experienced during the year and then by the number of hours the feeder has been out of service during the year. The feeders are sorted from highest to lowest rank based on number of outages for the year and the number of hours out of service. The worst-performing circuits to be reported on are the first five percent. The feeder listing contains the following information: feeder number, OA count, total number of hours out of service and ranking.

MAJOR STORMS AND WINTER SNOW/ICE EVENTS

In accordance with Rules and Regulations of the Public Service Commission, 16 NYCRR, Part 97, a major storm is a period of adverse weather during which service interruptions affect at least 10 percent of the customers in an operating area and/or result in customers being without electric service for durations of at least 24 hours. This includes secondary underground network interruptions that occur in an operating area during winter snow/ice events and customers in secondary network areas who are supplied via overhead lines connected to an underground network system. The following 2024 storms meet the Part 97 definition of major storms.

Non-Network Major Storms

February 18th - 19th, 2024 – Rainfall and snowstorms affected 662 customers in Brooklyn for an average duration of 2.43 hours.

February 17th - 20th, 2024 – Rainfall and snowstorms affected 756 customers in Queens for an average duration of 12.95 hours.

April 3rd – 5th, 2024 – Wind/rainstorms affected:

- 11,656 customers in the Bronx for an average duration of 6.31 hours.
- 25,153 customers in Westchester for an average duration of 9.71 hours.

June 14th – 15th, 2024 - Rain/thunderstorms affected 1,667 customers in Westchester for an average duration of 2.37 hours.

July 17th – 18th, 2024 - Wind/rain/thunderstorms affected 8,791 customers in Westchester for an average duration of 4.56 hours.

August 3rd – 4th, 2024 - Wind/rain/thunderstorms affected 6,736 customers in Westchester for an average duration of 6.01 hours.

August 9th, 2024 – Rain/thunderstorms affected 2,749 customers in the Bronx for an average duration of 21.28 hours.

August 9th – 10th, 2024 – Rain/thunderstorms affected 15,449 customers in Westchester for an average duration of 6.29 hours.

Network Excludable Storms

January 16th - 29th, 2024 - Winter Ice/Snowstorms affected:

- 6,619 customers in Brooklyn for an average duration of 11.79 hours.
- 1,988 customers in Queens for an average duration of 8.65 hours.

February 13th – 27th, 2024 - Winter Ice/Snowstorms affected 5,707 customers in Brooklyn for an average duration of 16.72 hours.

February 13th – 19th, 2024 - Winter Ice/Snowstorms affected 714 customers in Manhattan for an average duration of 4.19 hours.

February 13th – 24th, 2024 - Winter Ice/Snowstorms affected 1,162 customers in Queens for an average duration of 14.59 hours.

December 24th – 30th, 2024 - Winter Ice/Snowstorms affected 758 customers in Brooklyn for an average duration of 11.48 hours.

2024 Excludable Storms

Summary Table

Event Start Date	Region/ Operating Division	Storm Conditions	Customers Interrupted	Customer Hours of Interruption	Interruptions	Storm Duration	24 Hour Interruptions	Customers Interrupted for 24+ Hours	Qualification
1/16	Brooklyn	Snow/Salt	6,619	78,045	832	14-days	24	434	24 hours
1/16	Queens	Snow/Salt	1,988	17,186	304	14-days	4	12	24 hours
2/13	Brooklyn	Snow/Salt	5,707	95,423	657	15-days	72	1,382	24 hours
2/13	Queens	Snow/Salt	1,162	16,953	203	12-days	14	85	24 hours
2/13	Manhattan	Snow/Salt	714	2,992	59	7-days	2	2	24 hours
2/17	Queens	Rainfalls/ snowstorms	756	9,790	58	4-days	3	172	24 hours
2/18	Brooklyn	Rainfalls/ snowstorms	662	1,610	13	2-days	1	4	24 hours
4/3	Bronx	Wind/ rainstorms	11,656	73,499	70	3-days	6	56	24 hours
4/3	Westchester	Wind/ rainstorms	25,153	244,230	515	3-days	54	1,955	24 hours

2024 Excludable Storms (Cont.)

Summary Table

Event Start Date	Region/ Operating Division	Storm Conditions	Customers Interrupted	Customer Hours of Interruption	Interruptions	Storm Duration	24 Hour Interruptions	Customers Interrupted for 24+ Hours	Qualification
6/14	Westchester	Rain/thunder storms	1,667	3,946	37	2-days	1	1	24 hours
7/17	Westchester	Wind/rain/ thunderstorms	8,791	40,069	148	2-days	1	34	24 hours
8/3	Westchester	Wind/rain/ thunderstorms	6,736	40,463	74	2-days	6	426	24 hours
8/9	Bronx	Rain/thunder storms	2,749	58,508	40	1-day	19	1,889	24 hours
8/9	Westchester	Rain/thunder storms	15,449	97,156	334	2-days	20	266	24 hours
12/24	Brooklyn	Snow/Salt	758	8,699	118	7-days	5	59	24 hours

EXCLUDABLE STORMS (NON-NETWORK) 2020 - 2024

Year	Major Storm	Customers Interrupted	Cust-Hours Interrupted	Operating Area
2020	February 7th – 8th	1,399	4,076	Westchester
	April 13th – 14th	22,594	208,864	Westchester
	May 9th	1,274	4,806	Westchester
	July 10th – 11th	3,868	15,921	Queens
	July 10th – 11th	7,129	23,932	Westchester
	August 4th – 12th	380,983	1,8717,277	System-wide
	(Tropical Storm Isaias)			
		28,092	378,250	Brooklyn
		84,654	3,775,852	Queens
		78,839	2,909,748	Staten Island
		147,864	9,670,180	Westchester
		41,534	1,983,246	Bronx
	November 15th – 16th	8,969	52,800	Westchester
	December 17th – 22nd	1,781	29,866	Queens
	December 24th 7PM–25th 11PM	2,788	20,088	Queens
	December 24th 7PM–25th 11PM	4,284	47,055	Bronx
	December 24th 7PM–26th 11AM	18,939	190,382	Westchester
2021	February 3rd – 12th; 18th -19th; &			
	February 22nd – 25th	749	4,782	Brooklyn
	February 1st – 25th	7,930	53,691	Queens
	September 1st – 4th	33,692	495,777	System-wide
	(Tropical Storm IDA)			
		2,807	10,593	Queens
		2,750	10,175	Staten Island
		24,955	409,797	Westchester
		3,180	65,212	Bronx
	September 13th	7,519	6,771	Westchester
	October 29th – 30th	7,784	22,133	Westchester
2022	February 1st – 2nd	295	3,974	Brooklyn
	February 1st – 4th	3,535	15,035	Queens
	May 22nd – 23rd	3,140	16,760	Westchester
	November 30th – December 1st	5,953	17,590	Westchester
	December 23rd – 24th	9,013	37,334	Westchester

EXCLUDABLE STORMS (NON-NETWORK) 2020 – 2024 (Continue)

Year	Major Storm	Customers Interrupted	Cust-Hours Interrupted	Operating Area
2023	February 3rd – 5th	8,019	44,621	Westchester
	February 3rd – 4th	835	2,094	Bronx
	July 3rd – 4th	1,440	4,935	Westchester
	July 4th	166	1,000	Brooklyn
	July 29th – 30th	8,338	76,433	Westchester
	December 17th (7 PM) – 19th	12,815	66,611	Westchester
2024	February 17th – 20th	756	9,790	Queens
	February 18th – 19th	662	1,610	Brooklyn
	April 3rd – 5th	11,656	73,499	Bronx
		25,153	244,230	Westchester
	June 14th – 15th	1,667	3,946	Westchester
	July 17th – 18th	8,791	40,069	Westchester
	August 3rd – 4th	6,736	40,463	Westchester
	August 9th – 10th	2,749	58,508	Bronx
		15,449	97,156	Westchester

EXCLUDABLE STORMS (NETWORK) 2020 – 2024

Year	Winter Snow/Ice Events	Customers Interrupted	Cust-Hours Interruption	Operating Area
2020	January 18th – 22nd	606	4,821	Brooklyn
	January 18th – 21st	424	5,312	Queens
	August 4th 7AM– 5th 5:30 PM	1,200	106,634	Brooklyn
		1,775	232,789	Queens
		70	6,651	Bronx
	November 15th	17	404	Bronx
	December 16th – 28th	5,378	120,892	Brooklyn
	December 16th – 26th	2,883	50,797	Queens
	December 17th – 22nd	1,597	10,808	Manhattan
	December 17th – 25th	2,428	31,196	Bronx
2021	February 1st – 28th	11,329	177,805	Brooklyn
	February 1st – 28th	5,442	84,719	Queens
	February 1st – 11th; 18th-23rd	4,970	42,352	Manhattan
	February 1st – 12th; 18th-24rd	3,440	39,419	Bronx
	July 6th – 7th	110	1,823	Queens
	August 27th – 28th	684	6,809	Brooklyn
	September 1st – 4th (Tropical Storm IDA)	2,553	43,123	System-wide
		984	15,392	Brooklyn
		252	3,554	Queens
		107	543	Manhattan
		804	17,738	Westchester
		406	5,896	Bronx
2022	January 7th – 25th ; 29th – 31st	6,916	60,457	Brooklyn
	January 7th – 12th	545	5,291	Bronx
	January 29th – 31st	303	3,654	Queens
		801	7,288	Manhattan
	February 1st – 11th;13th – 15th; 25th – 28th	6,476	79,953	Brooklyn
	February 1st – 10th	1,397	17,652	Queens
	February 1st – 4th	1,129	6,743	Manhattan
	March 9th – 12th	377	3,212	Brooklyn

EXCLUDABLE STORMS (NETWORK) 2020 – 2024 (Cont.)

Year	Winter Snow/Ice Events	Customers Interrupted	Cust-Hours Interruption	Operating Area
2023	February 28th – March 4th	1,407	13,519	Brooklyn
	September 29th – 30th	1,908	30,652	Brooklyn
	September 29th – 30th	168	1,489	Queens
2024	January 16th – 29th	6,619	78,045	Brooklyn
		1,988	17,186	Queens
	February 13th – 27th	5,707	95,423	Brooklyn
	February 13th – 24th	1,162	16,953	Queens
	February 13th – 19th	714	2,992	Manhattan
	December 24th – 30th	758	8,699	Brooklyn

NON-NETWORK EVENTS – 3,000 CUSTOMERS OR MORE INTERRUPTED

2024 - Large Interruptions Summary (3,000 for Non-network)

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
System	1/9 - 1/10	15,563	2.63	Non-excludable wind/rainstorms
System	1/16 - 1/18	3,236	2.98	Non-excludable rain/snowstorms
System	1/25 - 1/28	8,414	3.22	Non-excludable wind/rainstorms
System	2/17 - 2/20	3,069	1.70	Non-excludable wind/rainstorms
System	2/28 - 2/29	8,640	3.06	Non-excludable wind/rainstorms
System	3/2 - 3/3	3,623	1.54	Non-excludable heavy rainfalls (1.27")
System	3/9 - 3/11	8,208	2.10	Non-excludable wind/rainstorms
System	4/3 - 4/5	3,664	2.29	Non-excludable wind/rainstorms
System	4/12 - 4/14	6,033	2.03	Non-excludable wind/rain/thunderstorms
System	5/23	4,728	1.56	Non-excludable wind/rain/thunderstorms
System	5/29 - 5/30	4,559	1.87	Non-excludable wind/rain/thunderstorms

NON-NETWORK EVENTS – 3,000 CUSTOMERS OR MORE INTERRUPTED (Cont.)

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
System	6/14 - 6/15	3,798	3.59	Non-excludable rain/thunderstorms
System	6/19 - 6/23	5,838	1.71	Non-excludable 5-day heat-event
System	6/26 - 6/27	5,885	2.95	Non-excludable wind/rain/thunderstorms
System	6/29 - 6/30	6,084	2.01	Non-excludable rain/thunderstorms
System	7/5 - 7/10	7,922	1.54	Non-excludable 6-day heat-event
System	7/13 - 7/16	4,677	2.10	Non-excludable wind/rain/thunderstorms
System	8/2 - 8/4	5,858	3.76	Non-excludable rain/thunderstorms
System	8/6 - 8/8	5,913	2.20	Non-excludable rain/thunderstorms
System	8/17 - 8/19	3,364	2.74	Non-excludable rain/thunderstorms
Staten Island	9/12	3,612	0.45	Customers interrupted due to primary feeder failures.
Brooklyn	10/10	5,816	2.18	Customers at Midwood auto-loop were interrupted due to traffic accident.

NON-NETWORK EVENTS – 3,000 CUSTOMERS OR MORE INTERRUPTED (Cont.)

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
System	11/21 - 11/23	9,905	1.92	Non-excludable wind/rainstorms (Daily record rainfall of 1.57" occurred on 11/21)
System	12/10 -12/11	4,378	1.91	Non-excludable heavy rainfalls (1.11")
System	12/15 -12/16	3,526	1.67	Non-excludable rainfalls and snowstorms

NETWORK EVENTS - 200 CUSTOMERS OR MORE INTERRUPTED

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
Queens	9-Jan	348 Network	12.95	Customers interrupted due to open wire secondary failure. This outage occurred during a wind/rainstorm.
System	1/16 - 1/29	2,682 Network	4.57	Customer outages during wind/rain and snowstorms.
System	2/13 - 2/27	1308 Network	4.16	Customer outages during rainfall and snowstorms.
System	3/2 - 3/3	584 Network	6.51	Customer outages due to heavy rainfall (1.21").
System	3/6 - 3/7	200 Network	7.09	Customer outages due to heavy rainfall (1.31").
System	3/23 - 3/25	876 Network	13.08	Customer outages due to record rainfall (3.66") on 3/23.
Queens	4-Apr	230 Network	10.67	Customer outages due to manhole connection failure.
Brooklyn	30-Apr	469 Network	4.48	Customer outages due to cable limiter failure.
Manhattan	27-May	281 Network	7.40	Customer outages due to cable section failure.
System	6/19 - 6/23	1410 Network	6.32	Customer outages due to a 5-day heat-event.
Bronx	30-Jun	988 Network	3.63	Customer outages due to grounding transformer failure.

NETWORK EVENTS - 200 CUSTOMERS OR MORE INTERRUPTED (Cont.)

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
Westchester	3-Jul	288 Network	1.12	Customer outages due to grounding transformer failure.
Bronx	10-Jul	257 Network	6.83	Customer outages due to cable section failure.
System	7/5 - 7/10	1,503 Network	5.21	Customer outages due to a 6-day heat-event.
System	7/13 - 7/17	4,401 Network	8.22	Customer outages due to a 5-day heat-event.
Queens	2-Aug	485 Network	39.30	Customer outages due to cable section failure.
Queens	5-Aug	302 Network	5.10	Customer outages due to a traffic accident.
Brooklyn	6-Aug	409 Network	5.50	Customer outages due to cable section failure.
Brooklyn	28-Aug	237 Network	4.52	Customer outages due to cable section failure.
Manhattan	13-Sep	214 Network	2.46	Customer outages due to cable section failure.
System	21-Nov	215 Network	11.53	Customer outages due to record rainfall (1.57") on 11/21.
Queens	2-Dec	221 Network	14.03	Customer outages due to cable burnt in Service box.

NETWORK EVENTS - 200 CUSTOMERS OR MORE INTERRUPTED (Cont.)

Area	Date	Customers Interrupted	Average Duration (Hrs.)	Outage Description
Queens	2-Dec	221 Network	14.03	Customer outages due to cable burnt in a service box.
Westchester	19-Dec	263 Network	2.32	Customer outages due to undetermined cause.
System	12/24 - 12/30	1053 Network	4.99	Customer outages due to rainfalls and snowstorms.

ELECTRIC SERVICE RELIABILITY PROGRAMS

Every year, the Company invests in the network and non-network infrastructure to address load growth and improve reliability. These programs are segregated into two major categories: Relief Programs to prepare the system for peak loads, and Reliability Programs, which are implemented to prevent component failures. Both programs have a positive impact on improving reliability and are used system wide to improve SAIFI and/or CAIDI.

In 2024, Con Edison invested $253.1 million in improvements for its electric distribution system, including $24.6 million for load relief and $228.5 million for reliability. In addition, Con Edison spent $17.5 million for tree trimming, $6.2 million for overhead facilities (inspection and maintenance), $4.7 million on CINDE, $15.4 million for underground inspections and repairs and $6.2 million for contact voltage testing and repairs. These Capital and O&M expenditures are shown later in this section.

RELIEF PROGRAMS

Sub-transmission Feeders and Area Substations

Area Substations are designed to supply independent summer peak loads based on weather and temperature conditions without exceeding the station design capability. Based on load density, all Area Substations in Manhattan and one substation in Brooklyn are planned and operated to maintain the supply of load even with the loss of two transformers or supply feeders without exceeding station capability (N-2, second contingency design). All other Area Substations in the Con Edison service territory are planned and operated to maintain the supply of load with one transformer or supply feeder out of service without exceeding the station capability (N-1, first contingency design). In addition to maintaining supply without exceeding station capability, Area Substation's risk of customer service interruption is being evaluated with risk mitigation plans incorporated when effective and feasible. In preparation for Summer 2024, there were two Area Substation load relief projects completed: the transfer of 1MW from Brownsville No. 1 to Brownsville No. 2 and the replacement of a limiting transformer at Corona No. 2.

4 kV Unit Substations & Multibanks

The 4 kV Unit Substations (USS) and Multibanks are designed to supply independent summer peak loads based on weather and temperature conditions without exceeding the station capability. The 4 kV USS grids and Multibanks in Brooklyn, Queens, and The Bronx are planned and operated with two second contingency (N-2) network feeder design and operation criteria. For Westchester and Staten Island Load Areas, the 4 kV USS grids and Multibanks are planned and operated for first contingency (N-1) network feeder design criteria. A load relief plan is developed for those 4 kV USS and Multibanks that are projected to surpass 100% of their normal or emergency loading while operating under normal or design contingency conditions. In 2024, there were no USS and Multibank load relief projects.

Primary Feeders

Primary distribution feeders forecasted to operate during the summer peak loads at ratings above 100% for both normal operation (all equipment in service) and contingency (any two feeders out of service for second contingency design or one feeder out of service for first contingency design) are relieved prior to the summer. Reinforcement projects may include cable replacement, transferring load between feeders, balancing load on a given feeder, bifurcating an existing feeder, or establishing new feeders.

In 2024, 6 new 13kV feeders were established in the West Bronx network to pick up Randall's Island (14M) network which is now part of the West Bronx network and 2 new 27 kV feeders (6B61, 6B62) were established in Brooklyn. In addition, 15 – 4kV, 13kV, 27kV, and 33 kV feeders were relieved encompassing 25 underground feeder cable sections and 53 overhead cable spans.

4 kV Feeders

Reinforcement of open wire is done when load is projected above 130% and underground feeder cable is replaced if it is projected to operate above 100% of their rating. This program involves replacement of 4kV feeders, associated poles, spans of overhead wire, and sections of underground cable. It also involves relieving 4kV feeders by replacing lower rated equipment with higher rated ones or transferring load to a higher rated feeder. In Bronx/Westchester, there were 2 underground feeder cable sections and 39 overhead spans replaced.

Transformers and Secondary

Relief is provided to network transformers projected to operate above 100% of their normal rating with all equipment in service or above 125% of their second contingency rating (emergency rating). Transformers loaded between 115% -125% above their emergency ratings are prioritized and relieved accordingly.

Reinforcement projects include installing new transformers, reconnecting existing transformers to different feeders, replacement of transformer, and reinforcing secondary mains. There were 31 underground distribution network transformers completed for the summer relief. There were 2,371[3] open mains completed for the year.

RELIABILITY PROGRAMS

Reliability is one of the continuing focal points of the distribution system work. There are eight major capital and maintenance reliability programs. The following is a description of the system wide 2024 **underground** reliability programs.

[3]Data obtained from Work Management System.

Hi-pot after Failure

In general, feeders fail, are repaired, then hi-potted. Feeders are also taken out of service for scheduled work where they may be subjected to a Hi-pot before returning to service as per specification EO-4019. In 2024, there were 748 Hi-pots performed on our primary distribution feeders.

Oil Minders

Oil minders were developed to prevent the pumps that exist in the underground vaults from discharging oil into the sewer system. The control system sends an alarm to the local Control Centers through the Remote Monitoring System (RMS) whenever oil is detected. This remote warning signal facilitates early detection and clean up. In 2024, there were 156 oil minders purchased to be installed.

Paper-Insulated Lead Covered Program (PILC)

The PILC cable replacement program was initiated in 1986 in response to the higher feeder failure rate of PILC cable compared to solid dielectric cable. The program replaces PILC cable with solid dielectric cable as a way to significantly reduce the individual and network feeder failure rates and improve the overall reliability of the network system. Additionally, stop-joints associated with PILC cable have been found to be a major contributor to the failure of primary feeders supplying the distribution networks. In 2024, approximately 646 sections of the PILC cable were removed from primary network feeders. Approximately 8,750 sections of PILC cable, about 6.3% of primary feeder cable sections, remain on primary network feeders at year-end.

Vented Cover Program

The installation of vented covers will help to diffuse the buildup of combustible gases associated with secondary events thereby reducing the severity of underground events and improving public safety. Since the inception of the program, Con Edison has installed approximately 154,379 vented covers which include 2,914 vented/latched covers. These covers were installed in both manholes and service boxes. There were 879 vented and vented/latched covers installed in 2024.

The tables below show the projected versus actual number of covers installed for the 2024 Vented Cover Replacement Program and the forecasted expenditures.

Number of Vented / Latched Covers Installed in 2024

	Manholes and Service Boxes	
	Actual	**Projected**
System-Wide	879	1,000

Forecast Expenditures ($000)

	2024	**2025**	**2026**	**Forecast Total**
Vented Covers	1,000	1,000	1,000	3,000

Underground Secondary Rebuild Program

As a subset of the Underground Secondary Reliability Program, the system wide Secondary Rebuild Program will increase overall system performance and reliability. The program also aids in mitigating public safety events, such as electric shocks, manhole fires, and manhole explosions. This program's objective is to proactively remove and replace specific main cables that are strongly associated with manhole events and public safety risk. The program targets secondary cables that are failing at rates greater than the system average such as aluminum and 4/0 mains. In 2024, four underground distribution structure was rebuilt.

The following is a breakdown of the forecast expenditures for the secondary reliability work planned for the three years (2024-2026).

Forecast Expenditures for Secondary Reliability Work ($000)

	2024	**2025**	**2026**	**Forecast Total**
Secondary Reliability	22,000	22,000	35,700	79,700

Remote Monitoring of Network Transformers

Approximately 26,355 network transformers are equipped with remote monitoring system (RMS) and 23,950 are equipped with pressure, temperature, and oil-level (PTO) sensors. The load and status information are fed into computer models to allow the operators to know how the system is performing and provides the operator with what would be the next worse contingency.

Targeted Primary DBC Replacement

Targeted primary and secondary Direct Buried Cable (DBC) are replaced with cable-in-conduit to improve reliability of Underground Residential Distribution (URD) customers and to reduce burnout expenditures. The followings list replacement works in 2024 by operating region:

- Bronx/Westchester: Approximately 25,100 feet of cable was replaced in addition to the installation of 8,365 linear feet of conduit.

- Brooklyn/Queens: No targeted Primary DBC replacement has been done.

- Staten Island: Twenty-seven sections of cable were replaced.

The following is a description of the system wide **Overhead (OH)** reliability programs.

Auto Loop Reliability

The auto loops continue to be hardened to improve storm performance as part of the storm hardening initiative which resulted from Superstorm Sandy. The following reliability projects were completed in 2024:

- Bronx/Westchester: Battle Hill Loop was split to create Battle Hill Loop and Fulton Loop. In addition, there were eight (8) SCADA gang switches installed, seven (7) 4kV Vacuum Recloser Switches (VRS) and twenty-two (22) 13kV VRS replaced.

- Brooklyn/Queens: Juniper Valley Loop was split to create Juniper Valley Loop and Fresh Pond Loop. In addition, there were twenty-two (22) new sectionalizing devices installed and twelve (12) sectionalizing devices replaced.

- Staten Island: The 2R28/2R34 mini-loop was split into two mini-loops, 2R28/2R94 mini-loop and 2R34/2R68 mini-loop in 2024. This was done to alleviate emergency overloads on the two (2) supplying transformers. In addition, there were four (4) overhead reclosers and five (5) overhead gang switches replaced. In addition, nineteen (19) new overhead reclosers, six (6) new gang switches, and twelve (12) new SCADA switches were installed.

Pole Inspection and Treatment Program

This program looks to extend the life of in-service poles through remedial round line treatment. A ground line inspection is performed to determine the structural integrity of the pole based on code requirements. The pole if needed is treated with a preservative agent to delay the decay process.

According to the U.S. Department of Agriculture Bulletin 1730B-121, *Pole*

Inspection & Maintenance, Utilities in Decay Severity Zone 2 (New York Area) should perform pole inspections on a 10-year cycle in order to ensure the reliability of installed poles and safety to the public. A majority of the poles are inspected and treated as part of a maintenance program. Inspected poles that require attention are either replaced or restored to full strength and functionality by way of C-Trussing which is installed as a support of the existing pole, deferring the need for pole replacement. Due to increasing loads on wood poles as a result of larger conductor sizes and third-party attachments, it is necessary to either extend the life of the pole via C-Trussing at a reduced cost as compared to pole replacement, or to replace the pole where necessary. There were 8,240 pole inspections conducted at a cost of approximately $660 thousand dollars.

Aerial Cable Replacement

This program targets overhead cable that was manufactured by Okonite in the early to mid-1970's. This cable has a high failure rate on the non-network distribution systems. Replacing the cable will increase overall system performance and reliability. The following is a list of cable replacement by operating region:

- Bronx/Westchester: Approximately 64,050ft of Okonite cable was replaced.
- Brooklyn/Queens: No Okonite cable was replaced.
- Staten Island: There were 105 spans of Okonite cable replaced.

#4, #6 and Self-Supporting Wires

This program is a system wide #4 and #6 Copper Wire Replacement Program (including the self-supporting aerial cable) on the 4kV and 13kV, intended to improve system performance and reliability. The Replacement Program on the Non-Network distribution systems aims to address aging infrastructure on the Overhead system. In 2024, there was no replacement of #4 and #6 cables.

High Tension Monitoring Data Acquisition System

Con Edison developed and deployed a High-Tension Monitoring Data Acquisition System (HTMDAS) to collect, display, and analyze power quality and billing data from high tension customer installations. Con Edison will be replacing HTMDAS with AMI over the next several years. AMI will collect load data from High Tension customers every 15 minutes consisting of three 5-minute intervals. In 2024, the company started developing an external application for the High-Tension customers to be able to access and review their meter voltage data.

SELECTED 2024 MAINTENANCE PROGRAMS

Tree Trimming

The program requires tree branches to be trimmed to 10 feet on either side and below overhead primary wires and 15 feet above primary wires. Tree trimming is on a 2-year cycle for 33kV and 27 kV and a 3-year cycle for 4 kV and 13 kV. The actual dollars spent on tree trimming during 2024 was $17.5 million and 1,466 miles of trees were trimmed.

Overhead Facilities

The periodic visual inspection and infrared scanning of overhead wires, switches and connections continue, along with the program for periodic inspection and treatment of wood poles. Approximately 270,000 Con Edison owned, or joint use wooden poles require a visual inspection once every five years. Some of the items identified for the inspections are Pole Condition, Broken Cross-arm, Oil Leak, Primary Hardware, Riser Damage, Insulator Damage, Tie Wire Damage, Ground Rod, Wire Damage, Guy Wire Damage, Wire Down, Surge Arrestor Damage, and Insufficient Wire Clearance.

Inspection of Network Distribution Equipment

CINDE is the Computerized Inspection of Network Distribution Equipment system for tracking inspection and maintenance of network transformers and protectors. A total of 1,138 inspections were completed in 2024.

In conjunction with the inspections of our equipment, the following transformer mitigation programs have helped to support the reduction of transformer failures by 85% since 2005:

DGOA Program - The results of DGOA (Dissolved Gas in Oil Analysis) testing shows the type and amount of the gas in oil, and each gas or combination of gasses can be used to identify the type of electrical activities that created it. Based on the distribution of gases, it can be determined what is occurring inside the transformer. In 2024, there were 1,273 DGOA samples completed, and 23 units pre-emptively removed from service.

Remote Monitoring Pressure, Temperature, and Oil Level Sensors - Additional transformer sensors are being installed to help mitigate transformer failures and improve network reliability. These gauges monitor, in real-time, the transformer tank pressure, oil level, and temperature (PTO). If the transformer tank loses pressure or has low oil level, actions are taken to proactively inspect and de-energize the unit. In 2024, a total of 113 PTO installations were completed and 118 units pre-emptively removed from service.

DEEAC (Distribution Engineering Equipment Analysis Center)

This program seeks to achieve optimum equipment performance and reduce equipment failures. Physical inspection and dissection of distribution equipment after its service life, as well as analytical methods, are used to establish root cause, improve equipment design, and target suspect units for replacement before failure. In 2024, the DEEAC analyzed 153 network transformers and 190 network protectors. In addition, DEEAC performs spot inspections on new equipment and discovered 58 quality defects in 2024. DEEAC regularly works with equipment vendors to repair these defects and develop action plans to prevent them from happening in the future.

Inspection and Repair Program

The "Order Instituting Safety Standards" from PSC Case 04-M-0159 requires that electric utilities develop a program to inspect all their overhead and underground residential distribution (URD) electric facilities once every five years. Underground facilities are inspected based on their priority. High priority structures are inspected every five years; medium priority structures are inspected every eight years and low priority structures are inspected every 10 years. To comply with the Safety Standards, Con Edison developed and implemented an inspection program for its electric distribution facilities. During the 2024 program calendar year, a total of 30,952 unique underground, URD and overhead distribution inspections were performed.

Deficiencies that are identified during the inspection process are classified in the following four Levels:

Level I – Repairs must be performed as soon as possible but not longer than one week. A Level I deficiency is an actual or imminent safety hazard to the public or poses a serious and immediate threat to the delivery of power. Critical safety hazards present at the time of the inspection shall be guarded until the hazard is mitigated. In 2024, 3,423 Level I underground and overhead defects were found.

Level II – A Level II deficiency is likely to fail prior to the next inspection cycle and represent a threat to safety and/or reliability should a failure occur prior to repair. Repairs must be completed within a year. In 2024, 8,510 Level II underground and overhead defects were found.

Level III – A Level III deficiency does not present immediate safety or operational concerns and would likely have minimum impact on the safe and reliable delivery of power if it does fail prior to repair. Repairs must be completed within three years. In 2024, 824 Level III underground and overhead defects were found.

Level IV – A Level IV deficiency is used to track atypical conditions that do not require repair within a five-year timeframe. Repairs do not have a set repair time frame. This Level should be used for future monitoring purposes and planning proactive maintenance activities. In 2024, 33,524 Level IV underground and overhead defects were found.

Contact Voltage Program

To comply with the NYSDPS Electric Service Standard issued on Jan. 5, 2005 in Case 04-M-0159, last revision on Jan. 13, 2015, Con Edison developed and implemented requirements for testing all publicly accessible transmission and distribution facilities, metallic streetlights, and traffic signals in the five boroughs of New York City and parts of Westchester County located in the Con Edison service territory for contact voltage to ensure public safety. Contact voltage testing is conducted either through a manual test or via mobile scanning.

This testing also includes 12 mobile contact voltage scans of New York City, and 1 mobile scan of White Plains, Mt. Vernon, Yonkers, and New Rochelle in Westchester County.

2024 CAPITAL and OPERATING MAINTENANCE INVESTMENTS

The following two tables outline the Company's budgeted and actual capital and operating maintenance investments over the last five years.

SYSTEM RELIEF AND RELIABILITY CAPITAL EXPENDITURES ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
RELIEF										
Area Substations	1,249	13,515	664	9,636	5,195	10,301	4,007	37,501	9,469	4,000
Primary Feeders	6,195	4,449	1,934	3,880	3,101	4,444	1,435	6,176	2,110	6,271
4KV Substations	0	0	0	0	0	0	0	0	0	0
4KV Feeders	0	0	0	0	0	0	0	0	0	0
Transformers	13,452	12,710	9,495	11,351	13,942	12,411	15,066	13,081	13,019	13,160
<$100K Load Relief	0	0	0	0	0	0	0	0	0	0
Sub-Total	**20,896**	**30,674**	**12,093**	**24,867**	**22,238**	**27,156**	**20,508**	**56,758**	**24,598**	**23,430**
RELIABILITY										
HiPot/Oil Minders	1,488	1,700	1,288	1,700	1,527	1,701	3,723	1,374	2,992	1,409
PILC	0	0	0	0	0	0	0	0	0	0
Vented Cover Program	0	0	0	0	1	2	0	0	0	0
Underground Secondary Reliability Program	19,689	42,538	16,616	33,875	20,875	21,002	25,314	22,001	14,313	22,000
Remote Monitoring System	2,310	2,528	1,484	2,016	1,614	1,822	3,216	3,222	2,094	3,222
Targeted Primary DBC Replacement	5,096	10,000	7,064	13,004	7,987	6,000	11,982	7,501	6,077	6,290
Other Reliability	16,118	7,502	20,446	13,793	18,871	24,326	41,287	50,000	22,513	51,100
Overhead Reliability	40,795	29,476	36,524	37,000	42,650	35,000	56,380	41,313	36,304	47,298
Secondary Open Mains	123,823	134,569	142,396	126,141	158,459	121,689	141,798	128,706	144,248	137,835
Sub-Total	**23,823**	**34,569**	**42,396**	**26,141**	**158,459**	**121,689**	**41,798**	**128,706**	**144,248**	**137,835**
Total	**230,215**	**258,987**	**237,911**	**252,396**	**274,223**	**238,698**	**304,208**	**310,874**	**253,139**	**292,584**

SELECTED MAINTENANCE PROGRAMS ($000s)

All Regions	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
Tree Trimming	14,383	14,545	15,344	14,545	17,736	18,045	18,021	18,230	17,519	18,230
Overhead Facilities	477	848	2,168	1,962	1,945	2,202	4,966	2,535	6,241	3,273
CINDE	3,610	5,394	4,928	4,237	5,640	4,236	4,454	3,901	4,740	5,108
Underground Inspection Program	19,910	15,713	18,294	24,678	16,812	19,965	21,647	24,607	12,077	21,220
Underground Repair Program	4,163	7,555	5,544	13,200	4,249	6,895	6,926	7,736	3,290	6,988
Stray Voltage Program*	5,754	6,384	5,699	5,583	5,880	5,585	5,823	5,875	6,230	5,875
Total	**48,297**	**50,439**	**51,977**	**64,205**	**52,263**	**56,929**	**61,837**	**62,884**	**50,097**	**60,694**

*Includes Manual/Mobile Stray Voltage Program

Work Force and Contractors

In accordance with the New York State Public Service Commission annual reliability reporting guidelines issued December 19, 2008, there is a requirement to report the work force number by job title and the average yearly contractor crews over the past five years.

Electric Operations Work Force by Title

Job Title	2020	2021	2022	2023	2024
Apparatus Service Technician	4	2	0	0	0
Assistant Field Operator	34	31	32	41	46
Cable Lead Mechanic	49	47	57	56	53
Chief Line Constructor	104	84	82	97	95
Chief Splicer	19	18	18	22	23
Distribution Mechanic A	171	170	156	134	129
Distribution Meter Tester A	31	31	24	23	0
Distribution Splicer	342	322	299	303	324
Electric Technician	1	1	1	16	3
Equipment Operator	3	3	2	1	0
General Utility Worker	205	367	475	461	349
Lead Mechanic	5	3	4	3	3
Line Constructor	47	43	57	80	99
Mechanic A	244	240	220	230	225
Mechanic B	178	177	288	360	332
Meter Tester A	1	1	1	1	0
Meter Tester B	6	5	4	4	1
Meter Service Technician A	0	0	0	1	0
Meter Service Technician B	0	0	0	1	0
Operating Mechanic A	2	1	1	1	1
Operating Mechanic B	0	0	0	0	0
Outplant Mechanic A	30	28	26	24	22
Outplant Mechanic B	4	4	4	3	1
Splicer	24	19	17	15	12

Electric Operations Work Force by Title (cont.)

Job Title	2020	2021	2022	2023	2024
Senior Apparatus Service Technician	9	12	14	14	14
Senior Distribution Electrical	38	39	46	46	15
Senior Distribution Meter	0	0	0	0	0
Senior Electrical Meter Technician	15	14	13	12	1
Senior Field Operator	113	106	107	107	97
Senior Substation Operator	0	0	0	0	0
Senior Technician	3	3	2	20	1
Trouble Shooter	200	196	193	193	196
Unit Substation Operations	24	24	20	21	23
Utility Mechanic	0	0	0	0	0

Electric Operations Contractor Crews

	2020	2021	2022	2023	2024
Overhead	82	75	75	75	61
Tree Trimming	82	100	100	100	115
Inspection	21	21	21	15	7
Flush	24	24	25	18	19

SECTION 2

BRONX/WESTCHESTER REGION

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BRONX/WESTCHESTER ELECTRIC OPERATING REGION

GENERAL

The Bronx/Westchester Electric Operating Region is comprised of the Bronx, which is one of the five boroughs of New York City and part of Westchester County. The Bronx covers an area of 41 square miles and has an estimated population of 2,148,850[1] people. Westchester covers approximately 310 square miles in Westchester County and has an estimated population of 2,139,548[1] people.

ELECTRIC DISTRIBUTION SYSTEM

In 2024, the Bronx Electric Operations Service Area supplied electricity to a total of 491,727[2] customers: 99,749 non-network and 391,978 network. Of these customers, 85% are residential customers and 15% commercial customers.

Westchester Electric Operations Service Area supplied electricity to a total of 373,278[2] electric customers: 328,355 non-network customers and 44,923 network customers. Of these, 89% are residential customers and 11% are commercial customers.

The Bronx distribution system is comprised of:

- 6 Area Substations
- 15 4kV Unit substations
- 53 4kV, 13kV and 27kV Non-Network Feeders (includes 19 Westchester feeders)
- 123 13kV Network Feeders[3]

The Westchester distribution system is comprised of:

- 12 Area substations (Exclude Mohansic)
- 13 Load areas
- 98 4kV Unit substations
- 603 4kV and 13kV Non-Network Feeders

CAPITAL AND OPERATING MAINTENANCE INVESTMENTS

The following table outlines the Bronx/Westchester budgeted actual capital and operating and maintenance investments over the last five years.

[1] Obtained from 2024 Electric Distribution System Manual.
[2] Customers served as of 12/31/2023, as per General Accounting.
[3] Some 13 kV distribution feeders supply both network and non-network load.

SYSTEM RELIEF AND RELIABILITY CAPITAL EXPENDITURES ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
RELIEF										
Area Substations	20	0	87	2,000	33	6,001	1,166	19,501	409	2,000
Primary Feeders	3,030	1,460	1,278	1,455	1,628	1,454	1,021	2,021	920	2,053
4KV Substations	0	0	0	0	0	0	0	0	0	0
4KV Feeders	0	0	0	0	0	0	0	0	0	0
Transformers	2,973	3,542	3,980	3,508	5,705	3,543	5,980	3,926	5,256	3,916
<$100K Load Relief	0	0	0	0	0	0	0	0	0	0
Sub-Total	**6,023**	**5,002**	**5,345**	**6,963**	**7,366**	**10,997**	**8,167**	**25,448**	**6,586**	**7,969**
RELIABILITY										
HiPot/Oil Minders	290	112	296	112	187	113	695	85	684	92
PILC	0	0	0	0	0	0	0	0	0	0
Underground Secondary Reliability Program	4,182	4,608	5,122	3,719	6,084	2,378	8,371	2,417	4,642	2,429
Remote Monitoring System	295	428	322	428	265	428	88	756	452	756
Targeted Primary DBC Replacement	2,987	3,975	2,290	5,172	1,919	3,000	5,884	2,982	2,089	1,772
Other Reliability	924	1,535	978	2,202	2,567	673	16,746	2,827	8,753	2,897
Overhead Reliability	28,493	25,500	26,864	26,500	30,229	25,000	33,222	19,727	21,731	21,423
Secondary Open Mains	23,776	21,957	25,925	18,856	28,388	20,445	26,378	21,412	18,892	24,172
Sub-Total	**60,947**	**58,115**	**61,797**	**56,989**	**69,639**	**52,038**	**91,384**	**50,205**	**57,243**	**53,541**
Total	**66,970**	**63,117**	**67,142**	**63,952**	**77,005**	**63,035**	**99,551**	**75,653**	**63,828**	**61,510**

SELECTED MAINTENANCE PROGRAMS ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
Tree Trimming*	14,104	14,545	15,344	14,545	17,736	18,045	17,999	18,230	17,519	18,230
Overhead Facilities	382	448	1,097	746	790	1,110	2,005	1,120	3,950	700
CINDE	802	1,637	839	1,225	909	1,287	715	685	1,329	898
Underground Inspection Program	(9)	0	242	774	1,096	1,559	1,380	878	1,131	878
Underground Repair Program	156	418	195	1,096	436	444	865	293	249	293
Contact Voltage Program**	0	0	5	0	4	0	(1)	0	3	0
Total	**15,435**	**17,048**	**17,722**	**18,386**	**20,971**	**22,445**	**22,964**	**21,206**	**24,180**	**20,999**

* Tree trimming actual and budget dollars are system-wide numbers.
** Includes Manual / Mobile Stray (or Contact) Voltage Program

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BRONX

2024 ELECTRIC SERVICE RELIABILITY REPORT

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BRONX ELECTRIC OPERATIONS SERVICE AREA

NON-NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below indicates Bronx's non-network distribution system performance levels over the last five years. System performance excludes all major storms listed in the section 1.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	554	528	658	681	337	**450**
CAIDI	2.28	1.88	1.98	2.09	1.73	**1.50 Hrs**

NON-NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, Bronx's non-network SAIFI performance was 337 per 1,000 customers served. This performance is better than the PSC Service Standard of 450.

NON-NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, Bronx's non-network CAIDI performance was 1.73 hours. This performance is higher than the PSC Service Standard of 1.50 hours. Some of the main drivers for the CAIDI performance were:

- From January 9th to 10th, 1,076 customers were interrupted for an average duration of 2.25 hours during wind/rainstorms.
- From April 12th to 14th, 698 customers were affected for an average duration of 3.50 hours during wind/rain/thunderstorms.
- From July 14th to 17th, 600 customers were affected for an average duration of 4.22 hours during a 4-day heatwave.

NON-NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

Non-Network Customers Interrupted by Cause Code

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	45,818	45%	3,180	6%	0	0%	835	1%	14,405	30%
2	Tree Contact	2,674	3%	1,586	3%	2,461	4%	4,800	7%	1,154	2%
3	Overloads	0	0%	2,551	5%	0	0%	0	0%	0	0%
4	Operating or Working Errors	0	0%	0	0%	0	0%	0	0%	0	0%
5	Apparatus or Equipment Failure	42,336	42%	35,609	65%	52,635	82%	50,447	74%	28,618	60%
6	Accidents or Events Not Under Utilities Control	9,214	9%	9,877	18%	6,121	10%	8,471	12%	2,307	5%
7	Pre-arranged	298	0%	216	0%	1,645	3%	2,358	3%	1,396	3%
8	Customer's Equipment or Failure	0	0%	0	0%	0	0%	0	0%	1	0%
9	Lightning	0	0%	100	0%	77	0%	0	0%	0	0%
10	Unknown or Unclassified	649	1%	1,297	2%	1,285	2%	1,028	2%	117	0%
	Non-Network Total	**100,989**		**54,416**		**64,224**		**67,939**		**47,998**	

NON-NETWORK RELIABILITY PROGRAMS

The following are reliability and maintenance programs aimed at improving performance of the Bronx non-network system with a brief description of each program.

System Reinforcement

The Bronx invested $525,457 dollars for 4kv non-network feeder relief. It including the installation of 1 new pole, 300’ of new underground conduit, 300’ of new UG cable and one primary riser replacement. In addition, 230’ of OH secondary wire was replaced.

Bronx Critical Facility

No jobs in the year of 2024.

Infrared Inspection Program

An infrared camera program detects heat generated by an incipient fault. In 2024, 12 - 13kV autoloops and 4kV feeders were inspected in the Bronx.

Improved Tree Trimming Program

The tree trimming program continued the effort of reducing storm related damage. The program requires tree branches to be trimmed to 6 feet on either side and below the overhead primary wires and 10 feet above the primary wires. This annual program entails the trimming of trees around 13kV and 4kV distribution lines on a three-year cycle. In 2024, a total of 77.31 linear miles of tree trimming were performed on the 13kV and 4kV distribution lines in the Bronx.

Vacuum Recloser Inspection Program

In 2024, 46 - 13kV vacuum reclosers and 2 automatic sectionalizing 4kV switches were inspected.

Animal Protection Program

Animal guards that are found broken, tilted, worn or no longer meet specifications are repaired or replaced. Animal protection is installed on all new projects and on any nearby devices that require animal guards.

BRONX ELECTRIC OPERATIONS SERVICE AREA

NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below indicates Bronx's network distribution system performance levels over the last five years. The performance data excludes Winter Snow/Ice events that meet the 16 NYCRR Part 97 definition and excludes interruptions.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	26.9	22.4	28.7	11.2	22.0	**15**
CAIDI	7.86	4.97	6.39	3.95	4.40	**3.25 Hrs.**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the Bronx network SAIFI performance was 22.0 per 1,000 customers served. This performance is higher than the threshold of 15.0. Some of the largest outages that drove this performance are:

- From January 16th to 29th, 1,453 customers were interrupted for an average duration of 4.94 hours due to wind/rain and snowstorms.

- From February 13th to 27th, 903 customers were interrupted for an average duration of 3.97 hours due to wind/rain and snowstorms.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the network CAIDI was 4.40 hours. This performance is higher than the threshold of 3.25 hours. Some of the largest outages that drove this performance are:

- From March 2nd to 3rd, 194 customers were interrupted for an average duration of 9.28 hours due to heavy rainfall of 1.21 inches.

- From December 24th to 30th, 259 customers were interrupted for an average duration of 5.06 hours due to rainfall and snowstorms.

NETWORK CAUSE CODES

The following table provides the five-year network history of customer interruptions by PSC cause codes.

Network Customers Interrupted by Cause Code

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	2,802	23%	3,078	25%	3,022	27%	1,330	31%	3,886	45%
12	Street Mains Cable	7,880	64%	5,757	47%	6,464	57%	2,165	51%	3,552	41%
13	Apparatus or Equipment Failure	1,335	11%	2,002	16%	1,595	14%	575	13%	741	9%
14	Accidents or Events Not Under Utilities Control	307	2%	1,263	10%	60	1%	88	2%	143	2%
15	Pre-arranged	1	0%	17	0%	210	2%	127	3%	297	3%
16	Customer's Equipment or Failure	0	0%	0	0%	5	0%	1	0%	1	0%
17	Unknown or Unclassified	26	0%	83	1%	0	0%	0	0%	0	0%
	Network Total	**12,351**		**12,200**		**11,356**		**4,286**		**8,620**	

NETWORK RELIABILITY PROGRAMS

The following is a list of new and existing maintenance and reliability programs.

System Reinforcement

The 2024 primary feeder relief investment totaled $920,000 for the Bronx. The 13kV system reinforcement consisted of installing 15 sections of underground cable, four load swaps and upgraded 6 spans of open wire.

In 2024, the primary feeder reliability investment totaled $8.8 million for the Bronx. The reinforcement included the placement of 151 sections of PILC and the removal of 97 stop joints.

For network transformer relief, there were 12 transformer/network protector upgrades and 1 network fuse upgrade.

Network Transformer Replacement

In 2024, transformer installations totaled $6.9 million with 298 transformers replaced in the Bronx.

UG Secondary Reliability

Underground Secondary Reliability program targets upgrades to risk prone aluminum and 4/0 cable deemed to have a high probability of failure. In 2024, investments in secondary reliability totaled $4.6 million. Completed work includes 83 sections of high-risk cable replacement and 35 cut and racks.

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STATUS OF 2023 WORST PERFORMING FEEDERS

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STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS

SAIFI PSC MINIMUM STANDARD: 0.450

SAIFI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	XRAL2	Performance improved in 2024. IR scan, inspection and tree trimming is scheduled for 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	550		1.15
3 Yr Avg Cust Affected	1,422		Target Date
3 Yr Avg SAIFI	2.57		
Feeder No.	XWFL1	Performance improved in 2024. IR scan, inspection and tree trimming is scheduled for 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	705		1.00
3 Yr Avg Cust Affected	1,718		Target Date
3 Yr Avg SAIFI	2.51		

STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS

CAIDI PSC MINIMUM STANDARD: 1.50 Hours

CAIDI Worst 2.5% Feeder		Actions to Remedy	Performance Update/ Target Date
Feeder No.	W68U2_X5302	Performance did not improve in 2024. IR scan and inspection were completed in 2024. Tree trimming is scheduled in 2025. Primary upgraded & GMSTS installed on feeder 68U2. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	954		8.85
3 Yr Avg Cust Hrs.	6,431		Target Date
3 Yr Avg CAIDI	3.52		
Feeder No.	X7691	Performance improved in 2024. IR scan and inspection is scheduled for 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	1,726		0.65
3 Yr Avg Cust Hrs.	10,599		Target Date
3 Yr Avg CAIDI	3.37		

STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update	
Feeder No.	5X41	Performance improved in 2024. Riser supplying Gun Hill loop has been replaced. No further action is planned at this time.		2024 Performance	
OAs	4			OA Update ---->>>>	0
Duration (Hrs.)	87.8				
Feeder No.	2X03	Performance improved in 2024. Feeder will be monitored in 2025. No further action is planned at this time.		2024 Performance	
OAs	3			OA Update ---->>>>	1
Duration (Hrs.)	440.5				
Feeder No.	4X46	Performance remains the same as 2023. Feeder will be monitored in 2025. No further action is planned at this time.		2024 Performance	
OAs	3			OA Update ---->>>>	3
Duration (Hrs.)	163.4				
Feeder No.	3X71	Performance improved in 2024. Feeder will be monitored in 2025. No further action is planned at this time.		2024 Performance	
OAs	3			OA Update ---->>>>	2
Duration (Hrs.)	153.2				
Feeder No.	2X23	Performance improved in 2024. Feeder will be monitored in 2025. No further action is planned at this time.		2024 Performance	
OAs	3			OA Update ---->>>>	1
Duration (Hrs.)	127.1				
Feeder No.	2X25	Performance improved in 2024. Feeder will be monitored in 2025. No further action is planned at this time.		2024 Performance	
OAs	3			OA Update ---->>>>	1
Duration (Hrs.)	54.2				

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2024 WORST PERFORMING NON-NETWORK

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WORST PERFORMING NON-NETWORK FEEDERS

Included for each worst performing non-network feeders are: the 2022-2024 performances (SAIFI and CAIDI); general description; 2022-2024 outage activity; analysis; action plan; and status.

SAIFI HISTORY OF 2024[1] WORST PERFORMING NON-NETWORK FEEDERS

PSC SAIFI STANDARD: 0.450

Feeder	2022	2023	2024
XRAL2	2.01	4.34	1.15
W68U2_X5302	1.60	1.38	3.14

CAIDI HISTORY OF 2024[2] WORST PERFORMING NON-NETWORK FEEDERS

PSC CAIDI STANDARD: 1.50 HOURS

Feeder	2022	2023	2024
XNAL1	3.46	2.64	8.90
XCAL1	4.01	1.52	6.98

[1] Source: The PSC 3Yr Average Report (Report 16) SAIFI listings in PSC/CIAS Database
[2] Source: The PSC 3Yr Average Report (Report 16) CAIDI listings in PSC/CIAS Database

2024 Worst Performing Non-Network Feeders
Electric Operations Service Area: Bronx

PSC SAIFI Service Standard: 0.450

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
1	XRAL2	AL	13	Sherman Creek	1,378	1,702	2.01	4.34	1.15	2.50

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were cut-out switch failures, followed by cross-arm failures at pole, tree contacts attached limb and uproot (ON-ROW) and planned outage.	Emerg Inter Req	22.9%	40.1%	0.0%	21.0%
	OFF-ROW	1.4%	6.2%	0.0%	2.5%
	ON-ROW	0.0%	0.7%	4.5%	1.7%
	Open Wire	28.1%	29.9%	0.0%	19.4%
	Planned Outage	0.0%	0.0%	0.3%	0.1%
	Pole Components	0.0%	0.0%	8.0%	2.7%
	Primary Feeder	47.5%	0.0%	0.0%	15.8%
Action Planned	Switch	0.00%	9.30%	87.20%	32.20%
Permanent repairs were made in all cases. Infrared inspection and tree trimming scheduled in 2025. Future performance will be monitored.	URD System	0.0%	0.4%	0.0%	0.1%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	0%	2023 SAIFI	2024 SAIFI	3 Yr Avg
2	W68U2_X5302	4kV Grid	4	Parkchester No. 2	954	2,204	1.60	1.38	3.14	2.04

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were Hendrix spacer cable and taps failures on open wire, followed by emergency interruptions and internal failure to overhead transformer.	Emerg Inter Req	0.0%	0.0%	19.4%	6.5%
	Mylar Balloon	0.0%	18.0%	0.0%	6.0%
	OH Transformer	0.0%	0.1%	0.2%	0.1%
Action Planned	ON-ROW	0.0%	15.9%	0.0%	5.3%
Permanent repairs were made in all cases. Infrared inspection and tree trimming on 68U2 completed in 2024. Multiple sections of primary replaced & GMSTS installed on 68U2. Future performance will be monitored.	Open Wire	66.7%	36.8%	80.4%	61.3%
	Primary Feeder	7.6%	0.0%	0.0%	2.5%
	Switch	25.7%	29.2%	0.0%	18.3%

2024 Worst Performing Non-Network Feeders
Electric Operations Service Area: Bronx

PSC CAIDI Service Standard: 1.50 Hours

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
1	XNAL1	AL	13	Parkchester No.2	1,679	983	3.46	2.64	8.90	5.00

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to cut-out and gang switches failures, followed by planned outage.	Animal	0.0%	95.3%	0.0%	31.8%
	Emerg Inter Req	0.0%	3.9%	0.0%	1.3%
	OFF-ROW	28.5%	0.0%	0.0%	9.5%
	Planned Outage	0.0%	0.0%	0.1%	0.0%
Action Planned	Switch	71.5%	0.8%	99.9%	57.4%
Permanent repairs were made in all cases. Infrared inspection scheduled in 2025. Tree trimming scheduled in 2025. Future performance will be monitored, and additional action will be taken when needed.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2014 CAIDI	2015 CAIDI	2016 CAIDI	3 Yr Avg
2	**XCAL1**	**AL**	**13**	**Parkchester No. 2**	**2,331**	**909**	**4.01**	**1.52**	**6.98**	**4.17**

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to underground cable failure at primary feeder, followed by emergency interruptions.	Emerg Inter Req	31.0%	14.6%	6.5%	17.4%
	Pole Components	0.0%	64.6%	0.0%	21.5%
	Primary Feeder	0.0%	0.0%	93.5%	31.2%
	Switch	69.0%	20.7%	0.0%	29.9%
Action Planned					
Permanent repairs were made in all cases. Infrared inspection scheduled in 2025. Tree trimming scheduled in 2025. Future performance will be monitored, and additional action will be taken when needed. No further action is planned at this time.					

WORST PERFORMING NETWORK FEEDERS

Included for each worst performing network feeders are: the 2022-2024 performances; general description; 2024 outage activity; analysis and action plan; and status. For 2024, the worst performing 5% 13kV network feeders are listed below.

NUMBER OF WORST FEEDERS FOR ALL NETWORKS

Network	No. of Feeders	No. of Worst Feeders		
		2022	2023	2024
Riverdale-1X	12	1	0	2
West Bronx-2X	24	2	3	1
Fordham-3X	26	2	1	1
Central Bronx-4X	21	1	1	1
Northeast Bronx-5X	12	0	1	0
Southeast-Bronx-7X	22	0	0	1
Total	**117**	**6**	**6**	**6**

OPEN AUTOMATIC HISTORY[3]

Feeder	2021	2022	2023
1X27	1	0	7
1X24	2	0	5
2X01	2	1	4
7X83	0	0	4
3X62	1	1	4
4X41	4	1	4

[3] Source: System Operations Feeder History Database (FMS_CARD/FRA_VIEW)

2024 Worst Performing Network Feeders
Electric Operations Service Area: Bronx

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
1	1X27	Riverdale	Sherman Creek	1	0	7	2.7	34

Analysis

The repairs performed due to the open auto failures consisted of replaced transformer on 02/16/24; repaired trouble feeder on 02/21/24, 06/14/24 and 06/22/24; replaced 1C joint on 03/09/24; repaired feeder fault due to hipot on 06/06/24; replaced cable section from M-63011 to M-24329 on 10/18/24.

2024 Failure & Avg Cost to Repair	
Cable	1
Joint	1
Apparatus	1
Other	4
Avg Cost Repair	$15,913

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
2	1X24	Riverdale	Sherman Creek	2	0	5	2.3	25

Analysis

The repairs performed due to the open auto failures consisted of replaced 3C T-joint on 05/22/24; unclassified or undetermined cause on 06/15/24; repaired trouble feeder on 08/27/24; replaced cable section on 08/27/24; repaired joint in M-8313 with installed live-end-cap (LEC) in M-24340 on 11/24/24.

Failure & Avg Cost to Repair	
Cable	1
Joint	2
Apparatus	0
Other	2
Avg Cost Repair	$28,715

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Bronx

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
3	2X01	West Bronx	Bruckner	2	1	4	2.3	43

Analysis

The repairs performed due to the open auto failures consisted of remade M-9801 due to ground at V-5155 on 03/16/24; remade mechanical 1/2's joint in M-9801 on 04/17/24; remade 1C cable section in M-6872 on 05/23/24; repaired feeder fault on 05/30/24.

Failure & Avg Cost to Repair	
Cable	1
Joint	1
Apparatus	0
Other	2
Avg Cost Repair	$41,124

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
4	7X83	Southeast Bronx	Parkchester No. 1	0	0	4	1.3	32

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 01/03/24; replaced cable section from M-11078 to M-11076 on 06/17/24; replaced cable section from M-11064 to M-11071 on 08/29/24; repaired transformer TM-1075 with installing live-end-cap (LEC) in M-19686 on 12/11/24.

Failure & Avg Cost to Repair	
Cable	3
Joint	0
Apparatus	1
Other	0
Avg Cost Repair	$59,913

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. Tree trimming completed in 2024. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Bronx

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
5	3X62	Fordham	East 179th Street	1	1	4	2.0	44

Analysis

The repairs performed due to the open auto failures consisted of repaired trouble feeder on 05/08/24; replaced transformer VS-2045 due to damaged ESNAS on 05/19/24; replaced cable section from M-14277 and VS-1886 due to contractor damage on 08/08/24; repaired feeder fault at M-27732 and M-28807 with installed live-end-cap (LEC) on 12/24/24.

Failure & Avg Cost to Repair

Cable	1
Joint	0
Apparatus	1
Other	2
Avg Cost Repair	$27,094

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
6	4X41	Central Bronx	Mott Haven	4	1	4	3.0	21

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section in M-23116 on 03/12/24; replaced cable section from M-16538 to M-16540 on 06/23/24; replaced 3C cable section from M-16334 to M-16328 on 07/31/24; repaired fault in MH-5834 on 12/19/24.

Failure & Avg Cost to Repair

Cable	3
Joint	0
Apparatus	0
Other	1
Avg Cost Repair	$63,595

Action Planned

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

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2024 FEEDER PERFORMANCE REPORTS

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2024 BRONX WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
XRAL2	1,378	2.01	4.34	1.15	2.50	3	1
W68U2_X5302	954	1.60	1.38	3.14	2.04	3	2
X5141	1,955	1.98	1.76	0.67	1.47	3	3
XLEL1	1,331	0.68	2.01	1.27	1.32	3	4
XLWL1	4,113	1.68	0.53	0.88	1.03	3	5
XSAL1	717	1.48	0.60	0.84	0.97	3	6
XPAL1	821	1.16	0.73	0.77	0.89	3	7
XRAL1	869	0.86	0.00	1.82	0.89	2	8
XSAL2	1,869	0.00	0.00	1.02	0.34	1	9
XCAL2	2,333	0.00	0.00	0.55	0.18	1	10

Note: Only feeders with a 2024 SAIFI greater than the PSC Service Standard and at least 2 outages are listed.

2024 BRONX WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
XNAL1	1,679	3.46	2.64	8.90	5.00	3	1
XCAL1	2,331	4.01	1.52	6.98	4.17	3	2
W68U2_X5302	954	4.18	3.47	1.59	3.08	3	3
XWAL1	2,096	2.92	1.81	3.37	2.70	3	4
XPAL1	821	1.65	3.44	2.72	2.60	3	5
X5131	2,846	1.87	1.59	2.71	2.06	3	6
W63U2_X1104	1,169	0.00	10.01	1.91	3.97	2	7
XPAL2	1,270	0.00	5.82	3.45	3.09	2	8
X5241	2,715	3.95	0.00	3.88	2.61	2	9
X5361	586	2.33	0.00	2.49	1.61	2	10
XSPL2	1,250	0.00	1.96	2.75	1.57	2	11
X7361	1,958	0.00	2.91	1.74	1.55	2	12
XLEL1	1,331	0.00	1.90	1.95	1.28	2	13
XRAL2	1,378	0.00	1.53	2.08	1.20	2	14
XGHL1	1,573	0.00	1.54	1.98	1.18	2	15
X5151	3,515	0.00	1.53	1.79	1.11	2	16
X7321	1,257	0.00	0.00	4.11	1.37	1	17
X5561	3,262	0.00	0.00	3.42	1.14	1	18
XVNL2	1,865	0.00	0.00	2.30	0.77	1	19
X7672	2,089	0.00	0.00	1.93	0.64	1	20
XLWL1	4,113	0.00	0.00	1.67	0.56	1	21

Note: Only feeders with a 2024 CAIDI greater than the PSC Service Standard and at least 2 outages are listed.

2024 BRONX NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
X5302	5	4,759.65	3,000	1,095	2.74	1
XW91U5	3	119.62	53	23	2.30	2
XW6U1	2	173.27	25	13	1.92	3
XRAL1	5	532.83	1,580	869	1.82	4
X5061	3	129.38	83	55	1.51	5
XLEL1	9	3,285.08	1,684	1,331	1.27	6
XRAL2	7	3,295.00	1,581	1,378	1.15	7
XSAL2	2	945.03	1,910	1,869	1.02	8
XW68U2	1	61.95	7	7	1.00	9
XWFL1	1	130.10	1,301	1,301	1.00	10
XLWL1	9	6,030.07	3,601	4,113	0.88	11
XSAL1	4	608.95	605	717	0.84	12
XPAL1	3	1,729.55	635	821	0.77	13
X5141	5	1,739.05	1,316	1,955	0.67	14
XCITYIW1	1	895.08	437	690	0.63	15
XCAL2	6	1,387.88	1,281	2,333	0.55	16
X1104	2	683.90	358	803	0.45	17
X7341	3	358.60	250	614	0.41	18
XLEL2	4	439.13	388	1,035	0.37	19
X5561	5	4,150.83	1,212	3,262	0.37	20
X5131	2	2,857.57	1,054	2,846	0.37	21
XPAL2	2	1,549.40	449	1,270	0.35	22
X7321	4	1,823.50	444	1,257	0.35	23
XGHL2	4	305.75	774	2,338	0.33	24
XGHL1	4	1,014.85	512	1,573	0.33	25
X7672	2	1,229.07	638	2,089	0.31	26
X5454	2	109.20	588	2,472	0.24	27
XSPL1	3	94.30	152	680	0.22	28
X5151	8	1,393.03	778	3,515	0.22	29
X7451	3	121.98	85	388	0.22	30
X7691	1	245.70	378	1,846	0.20	31
XVNL2	3	855.22	372	1,865	0.20	32
XLWL2	3	255.38	771	4,207	0.18	33
X5241	4	1,579.73	407	2,715	0.15	34
XSPL2	2	404.90	147	1,250	0.12	35
XWAL2	1	407.47	191	1,660	0.12	36
XNAL1	2	1,672.85	188	1,679	0.11	37

2024 BRONX NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
X7371	1	74.73	38	651	0.06	38
X7281	1	317.33	119	2,078	0.06	39
XRHLNDR1	1	163.72	47	904	0.05	40
X5461	2	166.20	189	3,801	0.05	41
XWAL1	2	327.07	97	2,096	0.05	42
X7581	1	115.20	32	882	0.04	43
X7361	2	123.85	71	1,958	0.04	44
XCAL1	3	446.48	64	2,331	0.03	45
XCITYIE1	1	29.00	12	484	0.02	46
X7471	1	9.90	22	1,046	0.02	47
X5361	3	29.93	12	586	0.02	48
X7571	1	77.50	30	1,520	0.02	49
X5161	1	105.12	53	2,789	0.02	50
X7891	1	2.67	8	460	0.02	51
XVNL1	1	32.40	12	1,569	0.01	52
X7291	1	35.67	5	856	0.01	53
X5303	1	18.68	1	313	0.00	54
X5252	1	2.13	4	2,102	0.00	55
X7781	1	2.20	3	1,789	0.00	56

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 BRONX NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
X5303	1	18.68	1	313	18.68	1
XNAL1	2	1,672.85	188	1,679	8.90	2
XW68U2	1	61.95	7	7	8.85	3
X7291	1	35.67	5	856	7.13	4
XCAL1	3	446.48	64	2,331	6.98	5
XW6U1	2	173.27	25	13	6.93	6
X7321	4	1,823.50	444	1,257	4.11	7
X5241	4	1,579.73	407	2,715	3.88	8
X7581	1	115.20	32	882	3.60	9
XRHLNDR1	1	163.72	47	904	3.48	10
XPAL2	2	1,549.40	449	1,270	3.45	11
X5561	5	4,150.83	1,212	3,262	3.42	12
XWAL1	2	327.07	97	2,096	3.37	13
XSPL2	2	404.90	147	1,250	2.75	14
XPAL1	3	1,729.55	635	821	2.72	15
X5131	2	2,857.57	1,054	2,846	2.71	16
XVNL1	1	32.40	12	1,569	2.70	17
X7281	1	317.33	119	2,078	2.67	18
X7571	1	77.50	30	1,520	2.58	19
X5361	3	29.93	12	586	2.49	20
XCITYIE1	1	29.00	12	484	2.42	21
XVNL2	3	855.22	372	1,865	2.30	22
XW91U5	3	119.62	53	23	2.26	23
XWAL2	1	407.47	191	1,660	2.13	24
XRAL2	7	3,295.00	1,581	1,378	2.08	25
XCITYIW1	1	895.08	437	690	2.05	26
X5161	1	105.12	53	2,789	1.98	27
XGHL1	4	1,014.85	512	1,573	1.98	28
X7371	1	74.73	38	651	1.97	29
XLEL1	9	3,285.08	1,684	1,331	1.95	30
X7672	2	1,229.07	638	2,089	1.93	31
X1104	2	683.90	358	803	1.91	32
X5151	8	1,393.03	778	3,515	1.79	33
X7361	2	123.85	71	1,958	1.74	34
XLWL1	9	6,030.07	3,601	4,113	1.67	35
X5302	5	4,759.65	3,000	1,095	1.59	36
X5061	3	129.38	83	55	1.56	37
X7451	3	121.98	85	388	1.44	38

2024 BRONX NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 64

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
X7341	3	358.60	250	614	1.43	39
X5141	5	1,739.05	1,316	1,955	1.32	40
XLEL2	4	439.13	388	1,035	1.13	41
XCAL2	6	1,387.88	1,281	2,333	1.08	42
XSAL1	4	608.95	605	717	1.01	43
X5461	2	166.20	189	3,801	0.88	44
X7781	1	2.20	3	1,789	0.73	45
X7691	1	245.70	378	1,846	0.65	46
XSPL1	3	94.30	152	680	0.62	47
X5252	1	2.13	4	2,102	0.53	48
XSAL2	2	945.03	1,910	1,869	0.49	49
X7471	1	9.90	22	1,046	0.45	50
XGHL2	4	305.75	774	2,338	0.40	51
XRAL1	5	532.83	1,580	869	0.34	52
X7891	1	2.67	8	460	0.33	53
XLWL2	3	255.38	771	4,207	0.33	54
X5454	2	109.20	588	2,472	0.19	55
XWFL1	1	130.10	1,301	1,301	0.10	56

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 BRONX NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 123
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
1X27	7	187.7	1
1X24	5	661.3	2
2X01	4	315.4	3
7X83	4	169.9	4
3X62	4	153.2	5
4X41	4	145.2	6
4X46	3	208.0	7
7X84	3	171.9	8
4X63	3	142.6	9
5X40	3	92.1	10
7X79	3	54.1	11
2X12	2	270.1	12
4X47	2	241.2	13
3X68	2	125.2	14
3X78	2	112.8	15
3X71	2	100.0	16
4X45	2	95.4	17
3X64	2	94.6	18
4X51	2	82.7	19
3X80	2	76.9	20
7X92	2	55.9	21
3X61	2	45.5	22
1X23	2	38.4	23
3X76	2	28.0	24
2X83	1	138.4	25
7X88	1	105.2	26
1X30	1	90.3	27
2X08	1	89.5	28
7X81	1	83.2	29
2X82	1	80.4	30
4X48	1	79.7	31
4X50	1	74.1	32
1X22	1	71.7	33
1X25	1	69.5	34
1X29	1	63.6	35
2X84	1	57.8	36
4X44	1	52.5	37

2024 BRONX NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 123
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
7X95	1	50.4	38
3X77	1	49.4	39
3X70	1	46.7	40
2X03	1	42.5	41
7X82	1	42.5	42
2X02	1	40.8	43
3X72	1	38.3	44
3X75	1	38.1	45
7X86	1	37.1	46
2X25	1	35.7	47
2X28	1	35.2	48
3X66	1	34.8	49
2X23	1	21.5	50
3X82	1	21.2	51
7X96	1	19.7	52
1X21	1	18.0	53
3X79	1	16.6	54
2X15	1	14.1	55
1X32	1	13.6	56
2X24	1	13.4	57
3X69	1	12.6	58
7X78	1	10.0	59
7X77	1	6.6	60
7X94	1	2.4	61
7X97	1	2.2	62
5X37	1	2.1	63

Note: Only network feeders that expierenced an OA are listed. Outage duration may include added scheduled work after the OA.

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2024 ELECTRIC SERVICE RELIABILITY REPORT

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WESTCHESTER ELECTRIC OPERATIONS SERVICE AREA

NON-NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below indicates Westchester's non-network system performance levels over for the last five years. The system performance excludes all major storms which are listed in section 1.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	523	548	476	463	416	**550**
CAIDI	1.88	1.96	1.92	1.88	1.99	**2.00 Hrs.**

NON-NETWORK SYSTEM SAIFI PERFORMANCE

In 2024 Westchester's non-network SAIFI performance was 416 per 1,000 customers served. This performance is better than the PSC Service Standard of 550.

NON-NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, Westchester's non-network CAIDI performance was 1.99 hours. This performance is better than the PSC Service Standard of 2.00 hours.

NON-NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

NON-NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	208,168	55%	40,258	19%	18,106	11%	30,612	17%	57,796	30%
2	Tree Contact	22,593	6%	25,777	12%	18,847	11%	25,964	14%	18,896	10%
3	Overloads	222	0%	554	0%	99	0%	76	0%	0	0%
4	Operating or Working Errors	0	0%	0	0%	1,546	1%	0	0%	0	0%
5	Apparatus or Equipment Failure	115,534	31%	122,375	57%	111,812	65%	97,038	54%	96,932	54%
6	Accidents or Events Not Under Utilities Control	23,426	6%	16,779	8%	11,905	7%	16,871	9%	13,997	7%
7	Pre-arranged	1,140	0%	2,444	1%	8,197	5%	8,491	5%	6,201	3%
8	Customer's Equipment or Failure	89	0%	0	0%	48	0%	2	0%	1	0%
9	Lightning	506	0%	1,928	1%	284	0%	1,188	1%	165	0%
10	Unknown or Unclassified	6,383	2%	4,912	2%	503	0%	90	0%	563	0%
	Non-Network Total	**378,061**		**215,027**		**171,347**		**180,332**		**194,551**	

NON-NETWORK RELIABILITY PROGRAMS

The following are reliability and maintenance programs aimed at improving performance of the Westchester non-network system with a brief description of each program.

System Reinforcement

In 2024, Westchester invested a total of $1,852 Million dollars on non-network feeder relief with the installation of approximately 30 new poles, 137 spans of secondary OH Wire, 117 spans of OH primary wire, 1 new transformer and 1 set of switches.

A total of $670,193 dollars were invested in relieving 48 overloaded transformers.

A total of $18.74 Million dollars were invested under the Overhead Reliability Program. Various jobs worked included establishing loop splits, creating new micro-loops, replacement of Okonite/PILC cable and cable upgrades, pole replacements installation of SCADA enable equipment and providing existing loops with emergency feeder ties.

A total of $8.75 million were invested under the Selective Undergrounding Program to improve the reliability of customers being affected by outages caused by tree contact in disadvantaged communities. The work consisted of replacing 14 poles, installing 10 T-TAPS, installing 6 service boxes, installing 22 pad mount transformers, 25 secondary splice boxes, 7 spans of overhead primary cable, 47 spans of underground primary cable, 41 spans of underground secondary cable, 34 spans of service cable, and 18,475 feet of conduit.

Infrared Inspection Program

As part of the infrared program, 351 - 13kV auto loops and 4kV overhead non-network feeders were inspected.

Vacuum Recloser Inspection Program

A total of 310 - 13kV vacuum reclosers and 18 automatic sectionalizing 4kV switches were inspected on the Westchester open wire system.

NON-NETWORK RELIABILITY PROGRAMS (Cont.)

Improved Tree Trimming Program

The tree trimming program continued the effort of reducing storm related damage. The program requires tree branches to be trimmed to 10 feet on either side and below the overhead primary wires and 15 feet above the primary wires. In 2024, a total of 774.28 miles of tree trimming was performed in Westchester along the 13kV and 4kV distribution lines.

WESTCHESTER ELECTRIC OPERATIONS SERVICE AREA

NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below indicates Westchester's network system performance levels for the last five years. The performance data excludes Winter Snow/Ice events that meet the 16 NYCRR Part 97 definition.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	21.3	33.5	76.8	37.6	21.0	**8**
CAIDI	6.26	3.56	5.73	4.29	2.75	**3.25 Hrs.**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the network system SAIFI was 21.0 per 1,000 customers served. This performance is higher than the threshold of 8. Some of the largest outages that drove this performance are:

- From Westchester 3rd, 288 customers were interrupted for an average duration of 1.12 hours due to grounding transformer failure.
- On December 19th, 263 customers were interrupted for an average duration of 2.32 hours due to an undetermined failure.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the network system CAIDI was 2.75 hours. This performance is better than the threshold of 3.25 hours.

NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	97	13%	126	6%	243	7%	38	2%	57	6%
12	Street Mains Cable	98	13%	19	1%	235	7%	135	8%	112	12%
13	Apparatus or Equipment Failure	489	65%	903	40%	809	24%	1,502	90%	399	42%
14	Accidents or Events Not Under Utilities Control	9	1%	817	37%	0	0%	0	0%	0	0%
15	Pre-arranged	0	0%	0	0%	30	1%	2	0%	15	2%
16	Customer's Equipment or Failure	0	0%	0	0%	1,717	51%	0	0%	0	0%
17	Unknown or Unclassified	57	8%	369	17%	318	9%	0	0%	361	38%
	Network Total	**750**		**2,234**		**3,352**		**1,677**		**944**	

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STATUS OF 2023 WORST PERFORMING FEEDERS

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STATUS UPDATE ON 2023 SAIFI WORST PERFORMING NON-NETWORK FEEDERS

SAIFI PSC MINIMUM STANDARD: 0.55

SAIFI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WWINDML1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	454		1.50
3 Yr Avg Cust Affected	1,292		Target Date
3 Yr Avg SAIFI	3.35		
Feeder No.	W85U3	Performance improved in 2024. Inspection and IR scan completed. Portion of secondary circuit scheduled to be split in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	375		1.05
3 Yr Avg Cust Affected	1,201		Target Date
3 Yr Avg SAIFI	3.20		
Feeder No.	WMTKISC1	Performance did not improve in 2024. Inspection and IR scan completed. Transformer upgrade on feeder 25U3 and tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	576		3.38
3 Yr Avg Cust Affected	1,640		Target Date
3 Yr Avg SAIFI	2.85		
Feeder No.	WMEETHS2	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Transformer upgrade on both feeders in 2025. Tree trimming completed on 14U1 and scheduled for 28U1 in 2025. Future	2024 SAIFI
Customer Served	600		1.35
3 Yr Avg Cust Affected	1,561		Target Date
3 Yr Avg SAIFI	2.58		
Feeder No.	WGRIFFN1	Performance improved in 2024. Inspection and IR scan completed. Tree trimming completed in 2024. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	273		1.39
3 Yr Avg Cust Affected	673		Target Date
3 Yr Avg SAIFI	2.53		
Feeder No.	W74U1	Performance did not improve in 2024. Inspection and IR scan completed. Tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	218		3.60
3 Yr Avg Cust Affected	527		Target Date
3 Yr Avg SAIFI	2.42		

STATUS UPDATE ON 2023 SAIFI WORST PERFORMING NON-NETWORK FEEDERS
SAIFI PSC MINIMUM STANDARD: 0.55

SAIFI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WQUAKER1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	703		1.90
3 Yr Avg Cust Affected	1,498		Target Date
3 Yr Avg SAIFI	2.15		
Feeder No.	WWHIPP1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Tree trimming completed in 2024. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	198		0.20
3 Yr Avg Cust Affected	391		Target Date
3 Yr Avg SAIFI	1.97		
Feeder No.	WLNGHLL1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	355		1.08
3 Yr Avg Cust Affected	535		Target Date
3 Yr Avg SAIFI	1.52		
Feeder No.	W41U3	Performance did not improve in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	358		1.69
3 Yr Avg Cust Affected	535		Target Date
3 Yr Avg SAIFI	1.50		
Feeder No.	WSCARBO2	Performance improved in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	467		0.24
3 Yr Avg Cust Affected	678		Target Date
3 Yr Avg SAIFI	1.45		
Feeder No.	WBALDWIN1	Performance did not improve in 2024. Inspection and IR scan scheduled in 2025. Tree trimming completed in 2024. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	261		2.07
3 Yr Avg Cust Affected	357		Target Date
3 Yr Avg SAIFI	1.37		

STATUS UPDATE ON 2023 SAIFI WORST PERFORMING NON-NETWORK FEEDERS

SAIFI PSC MINIMUM STANDARD: 0.55

SAIFI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WGRIFFN2	Performance did not improve in 2024. Inspection and IR scan completed. Tree trimming completed in 2024. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	242		1.71
3 Yr Avg Cust Affected	312		Target Date
3 Yr Avg SAIFI	1.30		
Feeder No.	WMCLEAN2	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	1,408		0.45
3 Yr Avg Cust Affected	1,784		Target Date
3 Yr Avg SAIFI	1.27		
Feeder No.	WCROWHL2	Performance improved in 2024. Inspection and IR scan completed. Tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 SAIFI
Customer Served	688		1.06
3 Yr Avg Cust Affected	830		Target Date
3 Yr Avg SAIFI	1.21		

STATUS UPDATE ON 2023 CAIDI WORST PERFORMING NON-NETWORK FEEDERS
CAIDI PSC MINIMUM STANDARD: 2.00 Hours

CAIDI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WFRANKL2	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	595		0.39
3 Yr Avg Cust Hrs.	115		Target Date
3 Yr Avg CAIDI	6.95		
Feeder No.	W22U1_W85U4	Performance improved in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	519		3.81
3 Yr Avg Cust Hrs.	617		Target Date
3 Yr Avg CAIDI	5.91		
Feeder No.	W25U3_W58U2	Performance did not improve in 2024. Inspection and IR scan completed. Transformer upgrade on feeder 25U3 and tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	751		6.52
3 Yr Avg Cust Hrs.	334		Target Date
3 Yr Avg CAIDI	4.18		
Feeder No.	W14U1_W28U1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Transformer upgrade on both feeders in 2025. Tree trimming completed on 14U1 and scheduled for 28U1 in 2025. Future performance will be monitored. Portion of 14U1 converted to underground. No further action is planned at this time.	2024 CAIDI
Customer Served	1,388		1.67
3 Yr Avg Cust Hrs.	379		Target Date
3 Yr Avg CAIDI	3.72		
Feeder No.	WIRVINGTN1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Tree trimming complete. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	315		2.48
3 Yr Avg Cust Hrs.	1,794		Target Date
3 Yr Avg CAIDI	3.66		
Feeder No.	W43U5_W51U1	Performance improved in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	662		1.63
3 Yr Avg Cust Hrs.	1,697		Target Date
3 Yr Avg CAIDI	3.60		

STATUS UPDATE ON 2023 CAIDI WORST PERFORMING NON-NETWORK FEEDERS

CAIDI PSC MINIMUM STANDARD: 2.00 Hours

CAIDI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WPHILIP1	Performance improved in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	611		0.90
3 Yr Avg Cust Hrs.	1,113		Target Date
3 Yr Avg CAIDI	3.31		
Feeder No.	WDAVNPT1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Tree trimming completed in 2024. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	1,472		1.68
3 Yr Avg Cust Hrs.	2,418		Target Date
3 Yr Avg CAIDI	2.97		
Feeder No.	W23U4_W98U2	Performance improved in 2024. Tree trimming scheduled for 98U2 in 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	616		0.66
3 Yr Avg Cust Hrs.	209		Target Date
3 Yr Avg CAIDI	2.67		
Feeder No.	W61U1_W91U2	Performance improved in 2024. Inspection and IR scan completed. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	1,078		2.74
3 Yr Avg Cust Hrs.	1,129		Target Date
3 Yr Avg CAIDI	6.13		
Feeder No.	WGARDEN1	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Tree trimming complete. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	957		1.38
3 Yr Avg Cust Hrs.	613		Target Date
3 Yr Avg CAIDI	5.25		
Feeder No.	W47U4_W92U3	Performance did not improve in 2024. Inspection and IR scan completed. Tree trimming scheduled for 92U3 in 2025 completed for 47U4. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	801		4.95
3 Yr Avg Cust Hrs.	365		Target Date
3 Yr Avg CAIDI	4.79		

STATUS UPDATE ON 2023 CAIDI WORST PERFORMING NON-NETWORK FEEDERS
CAIDI PSC MINIMUM STANDARD: 2.00 Hours

CAIDI Worst 2.5% Fdrs		Actions to Remedy	Performance Update/Target Date
Feeder No.	WDONBOS2	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Tree trimming complete. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	831		1.79
3 Yr Avg Cust Hrs.	854		Target Date
3 Yr Avg CAIDI	3.89		
Feeder No.	W57U3	Performance improved in 2024. Inspection and IR scan completed. Tree trimming scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	136		0.42
3 Yr Avg Cust Hrs.	143		Target Date
3 Yr Avg CAIDI	3.72		
Feeder No.	WHIGHLAND2	Performance improved in 2024. Inspection and IR scan scheduled in 2025. Future performance will be monitored. No further action is planned at this time.	2024 CAIDI
Customer Served	506		1.44
3 Yr Avg Cust Hrs.	1,227		Target Date
3 Yr Avg CAIDI	3.69		

WESTCHESTER

2024 WORST PERFORMING NON-NETWORK FEEDERS

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WORST PERFORMING NON-NETWORK FEEDERS

Included for each worst performing non-network feeder is: 2022-2024 performance SAIFI, CAIDI, general description, 2022–2024 outage and reliability activity, action planned and status.

For 2024, the non-network feeders with the worst SAIFI and CAIDI performance are listed below.

SAIFI HISTORY OF 2024[1] WORST PERFORMING NON-NETWORK FEEDERS

PSC SAIFI STANDARD: 0.55

Feeder	2022	2023	2024
WWINDML1	4.42	4.92	1.50
WMTKISC1	1.22	5.17	3.38
W74U1	0.91	2.77	3.60
W85U3	2.24	3.84	1.05
WQUAKER1	1.26	3.24	1.90
WMTHOPE2	2.99	1.84	0.70
WLARCH1	0.90	1.37	2.98
WBALDWIN1	1.45	1.61	2.07
W41U3	1.57	1.69	1.69
WMEETHS2	2.51	1.08	1.35
WGRIFFN1	2.27	0.73	1.39
WLNGHLL1	1.78	1.49	1.08
WCENTRL2	1.68	0.65	1.89
W70U2_W86U1	0.63	2.90	0.69
W62U1_W92U2	1.24	2.21	0.63

[1] Source: The PSC 3Yr Average Report (Report 16) SAIFI listings in PSC/CIAS Database

CAIDI HISTORY OF 2024[2] WORST PERFORMING NON-NETWORK FEEDERS

PSC CAIDI STANDARD: 2.00 HOURS

Feeder	2022	2023	2024
W25U3_W58U2	7.26	3.14	7.48
W29U3_W54U1	2.18	2.75	11.06
W54U3_W70U3	3.17	2.73	7.72
W43U6_W76U3	2.06	6.51	3.01
W73U1_W89U1	2.79	5.56	3.16
W22U1_W85U4	4.73	2.75	3.81
W40U4	2.23	3.93	4.86
W10U2_W40U1	4.55	3.03	2.99
W41U3	5.68	2.52	2.01
W31U1_W54U4	3.82	3.42	2.94
WSOSIDE2	2.80	4.45	2.57
W33U2_W42U2	2.61	2.18	2.74
WOSSING1	2.51	2.11	2.56
W61U1_W91U2	0.00	15.76	2.74
W56U4_W80U2	4.39	0.00	13.33

[2] Source: The PSC 3Yr Average Report (Report 16) CAIDI listings in PSC/CIAS Database

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
1	WWINDML1	AL	13	Millwood West	818	1,603	4.42	4.92	1.50	3.62

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions in 2024 were due to emergency interruptions, followed by tree contacts and uproot (OFF-ROW), lead and cut-out switches failures, tree contacts broken limb on conductors and uproot (ON-ROW), DBC insulation breakdown, animal contacts and lead failures on overhead transformers.	Animal	0.0%	0.0%	1.8%	0.6%
	Emerg Inter Req	39.8%	13.2%	51.3%	34.8%
	Lightning-Other Equip.	0.0%	1.7%	0.0%	0.6%
	OFF-ROW	5.9%	12.9%	30.7%	16.5%
	OH Transformer	1.9%	12.5%	0.1%	4.8%
	ON-ROW	0.1%	13.6%	3.2%	5.6%
	Open Wire	5.2%	14.3%	0.0%	6.5%
Action Plan	Planned Outage	0.3%	3.4%	0.0%	1.2%
Permanent repairs were made in all cases. IR scan and tree trimming scheduled in 2025. Future performance will be monitored and action taken as necessary.	Pole Components	12.6%	11.2%	0.0%	7.9%
	Switch	34.3%	5.3%	10.9%	16.8%
	Traffic Accident	0.0%	11.2%	0.0%	3.7%
	URD System	0.0%	0.9%	2.0%	1.0%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
2	WMTKISC1	AL	13	Millwood West	591	1,894	1.22	5.17	3.38	3.26

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions in 2024 were due to tree contacts or uproot (OFF-ROW), followed by emergency interruptions, ATS and cut-out switches failures, cross-arm fault, fire, tree contacts or broken limb on conductors and vine contact (ON-ROW), and URD transformer failure.	Animal	0.0%	0.1%	0.0%	0.0%
	Emerg Inter Req	29.8%	44.0%	38.3%	37.4%
	Fire	0.0%	0.0%	0.7%	0.2%
	OFF-ROW	12.9%	4.1%	41.4%	19.5%
	OH Transformer	0.1%	12.3%	0.0%	4.1%
	ON-ROW	51.8%	1.7%	0.3%	17.9%
Action Plan	Open Wire	0.1%	19.9%	0.0%	6.7%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Future performance will be monitored and action taken as necessary.	Pole Components	0.0%	10.9%	1.5%	4.1%
	Switch	2.1%	4.9%	17.8%	8.3%
	Traffic Accident	3.1%	0.0%	0.0%	1.0%
	URD System	0.0%	2.1%	0.1%	0.7%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
3	W74U1	4kV Grid	4	Harrison	217	528	0.91	2.77	3.60	2.43

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions in 2024 were due to blown fuses, followed by emergency interruptions, tree contacts or uproot (OFF-ROW), overhead transformer failure, and 3-phase VRS or cut-out switch failures.	Blown Fuse	0.0%	0.0%	12.9%	4.3%
	Emerg Inter Req	99.5%	41.6%	4.5%	48.5%
	OFF-ROW	0.0%	0.0%	19.8%	6.6%
	OH Transformer	0.0%	0.0%	2.0%	0.7%
	ON-ROW	0.0%	33.3%	0.0%	11.1%
	Open Wire	0.0%	25.0%	0.0%	8.3%
Action Plan	Switch	0.5%	0.0%	60.7%	20.4%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Tree trimming is scheduled for 2025. Multiple air & oil switches scheduled to be replaced in 2025. Future performance will be monitored and action taken as necessary.					

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
4	W85U3	4kV Grid	4	Pleasantville	391	898	2.24	3.84	1.05	2.37

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to tree contacts or uproot (ON-ROW), followed by planned outage, overhead transformer failures, emergency interruptions and pad mount or URD transformer failure.	Animal	0.0%	0.9%	5.4%	2.1%
	Emerg Inter Req	48.8%	30.1%	87.1%	55.3%
	OFF-ROW	47.1%	8.4%	0.0%	18.5%
	OH Transformer	0.0%	0.9%	0.0%	0.3%
	ON-ROW	4.0%	9.2%	3.8%	5.7%
Action Plan	Open Wire	0.0%	35.7%	0.2%	12.0%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Secondary circuit was split in 2024. Future performance will be monitored and action taken as necessary.	Planned Outage	0.0%	0.0%	3.5%	1.2%
	Switch	0.0%	14.7%	0.0%	4.9%
	URD System	0.0%	0.0%	0.0%	0.0%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
5	WQUAKER1	AL	13	Harrison	726	1,516	1.26	3.24	1.90	2.13

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by tap failure on the open wire, switch failures, tree contact on conductors (ON-ROW), primary riser failure and insulation breakdown of URD cable.	Animal	1.5%	0.0%	0.0%	0.5%
	Emerg Inter Req	90.5%	11.8%	57.0%	53.1%
	OFF-ROW	2.7%	30.4%	0.0%	11.0%
	OH Transformer	1.3%	0.0%	0.0%	0.4%
	ON-ROW	0.0%	6.3%	0.6%	2.3%
	Open Wire	0.0%	18.1%	34.8%	17.6%
Action Plan	Primary Feeder	0.3%	0.4%	0.6%	0.4%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Future performance will be monitored and action taken as necessary.	Switch	3.6%	15.6%	6.7%	8.6%
	Traffic Accident	0.0%	17.1%	0.0%	5.7%
	URD System	0.1%	0.3%	0.4%	0.2%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
6	WMTHOPE2	AL	13	Granite Hill	292	633	2.99	1.84	0.70	1.84

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions in 2024 were due to overhead switch failures, followed by planned outage, and animal contact.	Animal	2.5%	0.0%	9.9%	4.1%
	Emerg Inter Req	12.1%	97.7%	0.0%	36.6%
	OH Transformer	0.0%	2.3%	0.0%	0.8%
Action Plan	Planned Outage	0.0%	0.0%	11.8%	3.9%
Permanent repairs were made in all cases. IR scan and tree trimming scheduled for 2025. Future performance will be monitored and action taken as necessary.	Switch	85.5%	0.0%	78.3%	54.6%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
7	WLARCH1	AL	13	Cedar Street	1,473	2,558	0.90	1.37	2.98	1.75

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to connector failure and insulation breakdown on the open wire, followed by aerial primary cable failure, emergency interruptions, animal contacts, undetermined and unclassified causes, fire, fault at pole, tree contact on conductors (ON-ROW), and planned outage.	Animal	12.7%	0.2%	6.0%	6.3%
	Emerg Inter Req	36.1%	0.0%	6.5%	14.2%
	Fire	0.0%	0.0%	2.7%	0.9%
	OH Transformer	2.6%	0.5%	0.0%	1.0%
	ON-ROW	0.0%	0.0%	2.0%	0.7%
	Open Wire	0.4%	0.0%	40.6%	13.7%
Action Plan	Planned Outage	5.3%	0.0%	0.1%	1.8%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming were completed. Several overhead transformers were upgraded. Future performance will be monitored and action taken as necessary.	Pole Components	0.0%	0.0%	2.2%	0.7%
	Primary Feeder	0.0%	0.0%	28.9%	9.6%
	Switch	42.9%	99.3%	7.6%	49.9%
	Undetermined	0.0%	0.0%	3.2%	1.1%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
8	WBALDWIN1	AL	13	Millwood West	274	455	1.45	1.61	2.07	1.71

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to connector, taps and tie wire failures on the open wire, followed by cut-off switch failures, tree contacts (OFF-ROW and ON-ROW), emergency interruptions, contractor damage, overhead transformer failures.	Contractor Damage	0.0%	0.0%	0.4%	0.1%
	Emerg Inter Req	1.1%	59.7%	1.1%	20.6%
	OFF-ROW	53.8%	0.2%	22.7%	25.6%
	OH Transformer	0.0%	0.0%	0.4%	0.1%
	ON-ROW	12.1%	0.0%	0.2%	4.1%
Action Plan	Open Wire	0.0%	22.4%	50.2%	24.2%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Tree trimming was completed in 2024. Future performance will be monitored and action taken as necessary.	Planned Outage	31.1%	0.0%	0.0%	10.4%
	Primary Feeder	0.3%	0.0%	0.0%	0.1%
	Switch	1.6%	16.9%	25.2%	14.6%
	URD System	0.0%	0.7%	0.0%	0.2%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
9	W41U3	4kV Grid	4	Grasslands	368	680	1.57	1.69	1.69	1.65

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by lead failure of overhead transformer, and tree contact (OFF-ROW).	Emerg Inter Req	54.7%	0.0%	92.1%	48.9%
	OFF-ROW	3.7%	42.4%	0.2%	15.4%
	OH Transformer	0.0%	0.0%	7.7%	2.6%
Action Plan	ON-ROW	19.8%	57.6%	0.0%	25.8%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Future performance will be monitored and action taken as necessary.	Open Wire	15.6%	0.0%	0.0%	5.2%
	Switch	6.3%	0.0%	0.0%	2.1%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
10	WMEETHS2	AL	13	Millwood West	629	1,009	2.51	1.08	1.35	1.65

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to connector failures and cross arms on primary cable, followed by tree contact (ON-ROW and OFF-ROW), emergency interruptions, switch failures, overhead transformer bushing failures, planned outage and animal contact.	Animal	0.9%	5.4%	0.9%	2.4%
	Emerg Inter Req	30.1%	87.1%	18.4%	45.2%
	OFF-ROW	8.4%	0.0%	0.9%	3.1%
	OH Transformer	0.9%	0.0%	2.9%	1.3%
	ON-ROW	9.2%	3.8%	18.5%	10.5%
	Open Wire	35.7%	0.2%	38.0%	24.6%
Action Plan	Planned Outage	0.0%	3.5%	2.2%	1.9%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming scheduled in 2025. Future performance will be monitored and action taken as necessary.	Switch	14.7%	0.0%	18.0%	10.9%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
11	WGRIFFN1	AL	13	Harrison	276	399	2.27	0.73	1.39	1.46

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to connector and tap failures on the open wire, followed by tree contact on conductors (ON-ROW), animal contact, and cut-out switch failures.	Animal	0.0%	3.5%	3.6%	2.4%
	Emerg Inter Req	39.2%	0.0%	0.0%	13.1%
	OFF-ROW	37.7%	0.0%	0.0%	12.6%
	OH Transformer	0.0%	1.0%	0.0%	0.3%
	ON-ROW	0.0%	11.5%	10.7%	7.4%
	Open Wire	18.3%	0.0%	83.9%	34.1%
Action Plan	Planned Outage	0.0%	14.5%	0.0%	4.8%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming were completed in 2024. Future performance will be monitored and action taken as necessary.	Switch	4.7%	50.0%	1.8%	18.9%
	Traffic Accident	0.0%	19.5%	0.0%	6.5%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
12	WLNGHLL1	AL	13	Pleasantville	367	516	1.78	1.49	1.08	1.45

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by connector failures on the open wire, and tree contact (OFF-ROW).	Emerg Inter Req	51.5%	31.8%	44.2%	42.5%
	OFF-ROW	0.5%	0.2%	11.6%	4.1%
	OH Transformer	28.6%	0.0%	0.0%	9.5%
	ON-ROW	9.8%	1.5%	0.0%	3.8%
Action Plan	Open Wire	9.5%	0.0%	44.2%	17.9%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Tree trimming completed in 2024. Future performance will be monitored and action taken as necessary.	Planned Outage	0.0%	1.1%	0.0%	0.4%
	Service	0.2%	0.0%	0.0%	0.1%
	Switch	0.0%	57.8%	0.0%	19.3%
	URD System	0.0%	7.6%	0.0%	2.5%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
13	WCENTRL2	AL	13	Elmsford No. 2	567	780	1.68	0.65	1.89	1.41

Analysis	**Root causes**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major causes of interruptions were due to emergency interruptions, followed by direct buried cable insulation breakdown and URD submersible transformer failure, planned outages, overhead transformer failures, cut-out switch failure, and animal contact.	Animal	1.9%	5.1%	0.1%	2.4%
	Emerg Inter Req	52.5%	76.8%	50.7%	60.0%
	OFF-ROW	2.7%	0.0%	0.0%	0.9%
	OH Transformer	0.0%	0.0%	0.6%	0.2%
	ON-ROW	2.4%	0.0%	0.0%	0.8%
Action Plan	Planned Outage	31.3%	0.0%	16.3%	15.9%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming is scheduled in 2025. Future performance will be monitored and action taken as necessary.	Primary Feeder	6.9%	0.0%	0.0%	2.3%
	Switch	2.3%	0.3%	0.2%	0.9%
	URD System	0.0%	17.8%	32.1%	16.7%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
14	W70U2_W86U1	4kV Grid	4	Cedar Street / Washington St	1,353	1,910	0.63	2.90	0.69	1.41

Analysis	**Root causes**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major causes of interruptions were due to connector and tap failures and insulation breakdown on the open wire, followed by switch failures, emergency interruptions, tree contact (OFF-ROW and ON-ROW) and planned outages.	Emerg Inter Req	53.9%	0.0%	15.0%	23.0%
	OFF-ROW	31.3%	0.0%	12.5%	14.6%
	ON-ROW	0.0%	6.4%	4.5%	3.6%
	Open Wire	14.8%	55.5%	40.7%	37.0%
	Planned Outage	0.0%	2.0%	1.1%	1.0%
Action Plan	Switch	0.0%	25.9%	26.3%	17.4%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming on 70U2 were completed in 2024. Multiple spans of cable are scheduled for replacement on 70U2 in 2025. Tree trimming scheduled for 86U1 in 2025. Future performance will be monitored and action taken as necessary.	Traffic Accident	0.0%	10.2%	0.0%	3.4%
	Switch	0.0%	25.9%	26.3%	17.4%
	Traffic Accident	0.0%	10.2%	0.0%	3.4%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standard: 0.550**

Electric Operations Service Area: Westchester

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
15	W62U1_W92U2	4kV Grid	4	Elmsford No. 2	642	873	1.24	2.21	0.63	1.36

Analysis	Root causes	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to cut-out switch failures, followed by tree contact on conductors (ON-ROW and OFF-ROW) and planned outages.	Emerg Inter Req	96.2%	2.2%	0.0%	32.8%
	OFF-ROW	0.0%	27.3%	1.1%	9.5%
	OH Transformer	0.0%	0.6%	0.0%	0.2%
	ON-ROW	0.0%	3.3%	8.5%	3.9%
	Open Wire	0.0%	10.1%	0.0%	3.4%
	Planned Outage	1.4%	27.7%	4.5%	11.2%
Action Plan	Switch	2.4%	28.8%	85.9%	39.0%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Tree trimming is scheduled for 2025. Future performance will be monitored and action taken as necessary.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
1	W25U3_W58U2	4kV Grid	4	Pleasantville	751	409	7.26	3.14	7.48	5.96

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to tree contacts (ON-ROW and OFF-ROW), and overhead transformer failures.	Emerg Inter Req	5.2%	0.9%	0.0%	2.1%
	OFF-ROW	94.8%	0.2%	21.8%	38.9%
	OH Transformer	0.0%	2.6%	4.6%	2.4%
	ON-ROW	0.0%	33.4%	73.6%	35.7%
Action Planned	Switch	0.0%	42.3%	0.0%	14.1%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming of 58U2 were completed in 2024. Transformer upgraded on 25U3 in 2024. Tree trimming is scheduled for 25U3 in 2025. Future performance will be monitored and action taken as necessary.	Traffic Accident	0.0%	20.6%	0.0%	6.9%

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
2	W29U3_W54U1	4kV Grid	4	Cedar Street / Washington St	2659	908	2.18	2.75	11.06	5.33

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to pole component failures, followed by planned outages, and tree contact (OFF-ROW and ON-ROW).	Emerg Inter Req	0.5%	0.0%	0.0%	0.2%
	OFF-ROW	7.7%	0.0%	9.3%	5.7%
	ON-ROW	0.0%	16.7%	8.7%	8.4%
	Open Wire	59.9%	0.0%	0.0%	20.0%
	Planned Outage	0.0%	42.1%	12.6%	18.2%
	Pole Components	0.0%	0.0%	69.4%	23.1%
Action Planned	Primary Feeder	26.2%	41.3%	0.0%	22.5%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming scheduled in 2025. 29U3 circuit was split in 2024. Future performance will be monitored and action taken as necessary.	Switch	5.7%	0.0%	0.0%	1.9%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
3	W54U3_W70U3	4kV Grid	4	Cedar Street / Washington St	782	1,153	3.17	2.73	7.72	4.54

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions in 2024 were due to tree contact (OFF-ROW), followed by planned outages, and cut-out switch failure.	Emerg Inter Req	57.3%	4.4%	0.0%	20.6%
	OFF-ROW	0.0%	75.3%	93.5%	56.3%
	OH Transformer	37.0%	0.0%	0.0%	12.3%
	Open Wire	0.0%	0.1%	0.0%	0.0%
	Planned Outage	5.7%	0.0%	3.6%	3.1%
	Switch	0.0%	18.4%	0.0%	6.1%
Action Planned	Traffic Accident	0.0%	1.8%	2.9%	1.6%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Transformer on 54U3 was upgraded in 2024. Tree trimming for 70U3 scheduled for 2025. Future performance will be monitored and action taken as necessary.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
4	W43U6_W76U3	4kV Grid	4	Harrison	926	323	2.06	6.51	3.01	3.86

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to cut-out switch failures, followed by traffic accidents.	Emerg Inter Req	60.3%	1.3%	0.0%	20.5%
	OFF-ROW	0.0%	97.8%	0.0%	32.6%
Action Planned	OH Transformer	39.7%	0.0%	0.0%	13.2%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming on 43U6 were completed in 2024. Transformer was upgraded on 43U6 in 2024. Future performance will be monitored and action taken as necessary.	ON-ROW	0.0%	0.9%	0.0%	0.3%
	Switch	0.0%	0.0%	60.7%	20.2%
	Traffic Accident	0.0%	0.0%	39.3%	13.1%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
5	W73U1_W89U1	4kV Grid	4	Buchanan	1343	926	2.79	5.56	3.16	3.84

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to connector failures and cable slack on the open wire, followed by cut-out switch failures, emergency interruptions, tree contact (OFF-ROW), and planned outages.	Blown Fuse	41.6%	0.0%	0.0%	13.9%
	Emerg Inter Req	0.8%	0.0%	11.9%	4.2%
	OFF-ROW	53.4%	0.0%	2.0%	18.5%
	OH Transformer	0.0%	4.4%	0.0%	1.5%
	ON-ROW	0.0%	49.9%	0.0%	16.6%
	Open Wire	0.0%	0.0%	44.3%	14.8%
Action Planned	Planned Outage	0.2%	0.0%	0.3%	0.2%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming of 89U1 scheduled in 2025. A portion of 73U1 dropped to 14U1 and a portion converted to URD. Future performance will be monitored and action taken as necessary.	Switch	4.0%	45.8%	41.5%	30.4%

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
6	W85U4_W22U1	4kV Grid	4	Pleasantville	519	459	4.73	2.75	3.81	3.76

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to tree contact (OFF-ROW), followed by cut-out switch failures, emergency interruptions, overhead transformer failures, traffic accidents and animal contact.	Animal	4.5%	0.2%	0.0%	1.5%
	Emerg Inter Req	3.0%	0.0%	0.0%	1.0%
	OFF-ROW	0.9%	1.9%	33.1%	12.0%
	OH Transformer	0.0%	0.8%	0.0%	0.3%
	ON-ROW	77.8%	0.0%	0.0%	25.9%
	Planned Outage	0.0%	96.6%	0.0%	32.2%
Action Planned	Switch	0.5%	0.5%	23.1%	8.1%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Future performance will be monitored and action taken as necessary.	Traffic Accident	13.3%	0.0%	0.0%	4.4%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
7	W40U4	4kV Grid	4	Ossining West	222	948	2.23	3.93	4.86	3.67

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to tree contacts on conductors (ON-ROW), followed by tap failures on the open wire, switch lead failures, and overhead transformer failures.	Emerg Inter Req	97.8%	1.4%	0.0%	33.1%
	OFF-ROW	0.0%	11.4%	0.0%	3.8%
	OH Transformer	0.0%	10.8%	1.1%	4.0%
	ON-ROW	2.2%	74.9%	62.7%	46.6%
	Open Wire	0.0%	0.0%	33.4%	11.1%
	Planned Outage	0.0%	1.5%	0.0%	0.5%
Action Planned	Switch	0.0%	0.0%	2.8%	0.9%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Future performance will be monitored and action taken as necessary.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
8	W10U2_W40U1	4kV Grid	4	Ossining West	961	403	4.55	3.03	2.99	3.52

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by cut-out switch failures, and tree contact on conductors (ON-ROW).	Emerg Inter Req	0.0%	0.0%	59.3%	19.8%
	OFF-ROW	16.7%	84.2%	0.0%	33.6%
	OH Transformer	2.0%	0.0%	0.0%	0.7%
	ON-ROW	27.9%	0.0%	3.1%	10.3%
	Planned Outage	0.0%	4.5%	0.0%	1.5%
	Primary Feeder	34.0%	0.0%	0.0%	11.3%
Action Planned	Switch	16.9%	11.3%	37.7%	21.9%
Permanent repairs were made in all cases. IR scan and inspection were scheduled in 2026. Upgraded transformer in 2024 on 10U2. Tree trimming for 10U2 completed in 2024 and 40U1 scheduled in 2025. Future performance will be monitored	URD System	2.5%	0.0%	0.0%	0.8%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
9	W41U3	4kV Grid	4	Grasslands	368	2,000	5.68	2.52	2.01	3.40

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by overhead transformer lead failure, and tree contact (OFF-ROW).	Emerg Inter Req	15.7%	0.0%	90.8%	35.5%
	OFF-ROW	7.1%	9.8%	0.8%	5.9%
	OH Transformer	0.0%	0.0%	8.5%	2.8%
	ON-ROW	69.4%	90.2%	0.0%	53.2%
	Open Wire	5.5%	0.0%	0.0%	1.8%
	Switch	2.3%	0.0%	0.0%	0.8%

Action Planned
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Future performance will be monitored and action taken as necessary.

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
10	W31U1_W54U4	4kV Grid	4	Washington St	1,416	401	3.82	3.42	2.94	3.40

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to planned outages, followed by service cable failure, and emergency interruptions.	Emerg Inter Req	1.3%	1.3%	6.6%	3.1%
	OFF-ROW	27.5%	0.0%	0.0%	9.2%
	OH Transformer	50.6%	0.0%	0.0%	16.9%
	ON-ROW	20.6%	34.9%	0.0%	18.5%
	Planned Outage	0.0%	1.1%	71.2%	24.1%
	Service	0.0%	0.0%	22.2%	7.4%
	Switch	0.0%	62.7%	0.0%	20.9%

Action Planned
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Tree trimming on 31U1 is scheduled in 2025. Future performance will be monitored and action taken as necessary.

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
11	WSOSIDE2	AL	13	Washington St	1,519	1,039	2.80	4.45	2.57	3.27

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to emergency interruptions, followed by overhead transformer internal failure.	Animal	0.0%	0.1%	0.0%	0.0%
	Emerg Inter Req	0.0%	16.4%	56.5%	24.3%
	Mylar Balloon	0.0%	4.4%	0.0%	1.5%
	OFF-ROW	0.0%	78.9%	0.0%	26.3%
	OH Transformer	0.0%	0.3%	43.5%	14.6%
	Open Wire	99.1%	0.0%	0.0%	33.0%
Action Planned	Switch	0.9%	0.0%	0.0%	0.3%
Permanent repairs were made in all cases. IR scan and inspection scheduled in 2025. Tree trimming was completed in 2024. Future performance will be monitored and action taken as necessary.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
12	W33U2_W42U2	4kV Grid	4	Washington St	2,078	718	2.61	2.18	2.74	2.51

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were due to overhead transformer failure, followed by emergency interruption and blown fuse.	Blown Fuse	0.0%	0.0%	18.5%	6.2%
	Emerg Inter Req	0.4%	0.0%	19.5%	6.6%
	OH Transformer	0.0%	0.0%	62.0%	20.7%
	Switch	1.0%	100.0%	0.0%	33.7%
	Traffic Accident	98.6%	0.0%	0.0%	32.9%
Action Planned					
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Tree trimming scheduled in 2025. Future performance will be monitored and action taken as necessary.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
13	WOSSING1	AL	13	Ossining West	1,406	1,515	2.51	2.11	2.56	2.39

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were tree contact (OFF-ROW), followed by URD cable failure and animal contact.	Animal	0.0%	0.0%	5.0%	1.7%
	Emerg Inter Req	0.0%	1.7%	0.0%	0.6%
	OFF-ROW	2.1%	0.0%	74.0%	25.4%
	OH Transformer	11.6%	0.0%	0.0%	3.9%
	ON-ROW	0.0%	88.5%	0.0%	29.5%
	Open Wire	0.0%	0.8%	0.0%	0.3%
Action Planned	Switch	42.9%	8.9%	0.0%	17.3%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming were completed in 2024. Portion of the overhead circuit was split in 2024.Future performance will be monitored and action taken as necessary.	URD System	43.4%	0.0%	21.0%	21.5%

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
14	W61U1_W91U2	4kV Grid	4	Washington St	1,078	759	0.00	15.76	2.74	6.17

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions in were due to planned outages, followed by emergency interruptions.	Emerg Inter Req	0.0%	0.0%	41.4%	13.8%
	OH Transformer	0.0%	98.8%	0.0%	32.9%
	ON-ROW	0.0%	0.0%	0.0%	0.0%
	Open Wire	0.0%	1.2%	0.0%	0.4%
	Others	0.0%	0.0%	0.0%	0.0%
	Planned Outage	0.0%	0.0%	58.6%	19.5%
Action Planned	Primary Feeder	0.0%	0.0%	0.0%	0.0%
Permanent repairs were made in all cases. IR scan and inspection were completed in 2024. Future performance will be monitored and action taken as necessary.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard: 2.00 Hours**

Electric Operations Service Area: Westchester

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
15	W56U4_W80U2	4kV Grid	4	Rockview	1,018	881	4.39	0.00	13.33	5.90

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major causes of interruptions were tree contact (OFF-ROW), followed by overhead transformer failures and emergency interruptions.	Emerg Inter Req	0.0%	0.0%	0.4%	0.1%
	OFF-ROW	45.5%	0.0%	98.5%	48.0%
	OH Transformer	0.0%	100.0%	1.1%	33.7%
Action Planned	Open Wire	54.5%	0.0%	0.0%	18.2%
Permanent repairs were made in all cases. IR scan, inspection and tree trimming of 80U2 were completed in 2024. 80U2 transformer upgrade is scheduled in 2025. Future performance will be monitored and action taken as necessary.					

WESTCHESTER

2024 FEEDER PERFORMANCE REPORTS

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2024 WESTCHESTER WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
WWINDML1	818	4.42	4.92	1.50	3.62	3	1
WMTKISC1	591	1.22	5.17	3.38	3.26	3	2
W74U1	217	0.91	2.77	3.60	2.43	3	3
W85U3	391	2.24	3.84	1.05	2.37	3	4
WQUAKER1	726	1.26	3.24	1.90	2.13	3	5
WMTHOPE2	292	2.99	1.84	0.70	1.84	3	6
WLARCH1	1,473	0.90	1.37	2.98	1.75	3	7
WBALDWIN1	274	1.45	1.61	2.07	1.71	3	8
W41U3	368	1.57	1.69	1.69	1.65	3	9
WMEETHS2	629	2.51	1.08	1.35	1.65	3	10
WGRIFFN1	276	2.27	0.73	1.39	1.46	3	11
WLNGHLL1	367	1.78	1.49	1.08	1.45	3	12
WCENTRL2	567	1.68	0.65	1.89	1.41	3	13
W70U2_W86U1	1,353	0.63	2.90	0.69	1.41	3	14
W62U1_W92U2	642	1.24	2.21	0.63	1.36	3	15
WARDS2	651	1.22	0.61	2.20	1.34	3	16
WARMONK2	402	1.26	1.00	1.68	1.31	3	17
WBYRAM2	303	2.02	1.19	0.68	1.30	3	18
WWHITE2	1,137	1.39	1.42	1.00	1.27	3	19
WCROWHL2	711	1.38	1.18	1.06	1.21	3	20
W40U4	222	1.00	0.83	1.79	1.21	3	21
WCORTLT2	861	0.99	0.73	1.77	1.17	3	22
WWASHST1	1,861	1.18	1.28	0.87	1.11	3	23
WBANKSV2	159	1.79	0.76	0.72	1.09	3	24
WFLTWOD2	956	1.95	0.60	0.62	1.06	3	25
WGRIFFN2	253	0.56	0.82	1.71	1.03	3	26
WWHIPP2	197	0.84	0.98	1.12	0.98	3	27
WHEATHC1	501	0.58	0.75	1.55	0.96	3	28
WHASTNG2	575	0.81	0.98	1.07	0.95	3	29
WSHRUB2	723	0.63	0.59	1.45	0.89	3	30
WMTHOPE1	869	0.64	0.90	1.06	0.87	3	31
WPLEASN1	320	0.58	0.61	0.69	0.63	3	32
WNEWCAS2	715	0.58	0.56	0.59	0.58	3	33
WWINDML2	208	5.01	0.00	1.60	2.20	2	34

2024 WESTCHESTER WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
WPINEBR1	291	0.00	2.90	2.47	1.79	2	35
WDAVNPT1	1,462	0.58	0.00	4.66	1.75	2	36
WCARPEN2	132	0.00	2.99	1.92	1.63	2	37
WSPROUT1	269	0.00	2.84	1.68	1.51	2	38
W22U3_W85U1	832	0.00	1.97	2.54	1.50	2	39
WKITCHA2	254	2.69	0.00	1.04	1.24	2	40
WPARKVW1	338	0.00	1.19	2.45	1.21	2	41
WORCHRD1	565	2.39	0.00	1.08	1.16	2	42
WRDGST2	427	1.05	0.00	2.21	1.08	2	43
W16W52	476	0.00	0.98	2.19	1.06	2	44
WPREMPT2	755	1.62	0.00	1.43	1.02	2	45
WQUAKER2	291	0.00	1.92	0.90	0.94	2	46
WBALDWIN2	573	0.00	1.82	0.81	0.88	2	47
WCHAPEL2	513	0.00	1.19	1.47	0.88	2	48
WBYRAM1	303	0.56	0.00	1.96	0.84	2	49
WFENIMO1	802	1.40	0.00	1.13	0.84	2	50
WUNIAVE2	164	0.00	1.56	0.96	0.84	2	51
WOSSING2	576	1.47	0.00	1.03	0.84	2	52
WFURNDK1	388	0.00	1.56	0.83	0.80	2	53
WWAMPUS2	351	0.00	1.75	0.63	0.79	2	54
WNEWRCH1	1,369	0.73	0.00	1.58	0.77	2	55
W13W14	142	0.00	0.92	1.37	0.77	2	56
WBANKSV1	359	0.00	0.84	1.44	0.76	2	57
WST_JOHNS1	570	0.00	0.86	1.36	0.74	2	58
WHIGHLAND1	482	0.67	0.00	1.53	0.73	2	59
WBOWMAN1	289	0.00	1.45	0.67	0.70	2	60
WBRCLIF1	368	0.00	0.77	1.34	0.70	2	61
WGREENV1	617	0.99	0.00	1.08	0.69	2	62
WHIGHLAND2	507	0.00	1.08	0.97	0.68	2	63
W80U3_W97U4	433	1.42	0.00	0.61	0.68	2	64
WELMSFD2	1,061	0.00	0.93	1.05	0.66	2	65
W43U5_W51U1	662	0.57	0.00	1.36	0.65	2	66
WHAMLTN1	662	1.08	0.00	0.79	0.62	2	67
W89U4	646	0.82	0.00	0.93	0.58	2	68

2024 WESTCHESTER WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
W36U3_W99U4	1,252	1.08	0.00	0.64	0.57	2	69
WDONBOS2	780	0.78	0.00	0.93	0.57	2	70
W63U3_X1102	2,215	0.00	1.07	0.56	0.55	2	71
W23U2_W77U4	530	0.57	0.00	1.06	0.54	2	72
WLNGHLL2	399	0.80	0.00	0.78	0.53	2	73
WMTVERN1	743	0.00	0.62	0.94	0.52	2	74
WBEEDCT2	832	0.00	0.72	0.71	0.48	2	75
WRYE2	550	0.57	0.00	0.82	0.46	2	76
WTUCKHO2	1,718	0.00	0.61	0.72	0.44	2	77
WHAMLTN2	374	0.57	0.00	0.56	0.38	2	78
W4U2	366	0.00	0.00	2.40	0.80	1	79
W7W06	190	0.00	0.00	1.64	0.55	1	80
WMEETHS1	301	0.00	0.00	1.63	0.54	1	81
WPHILIP1	639	0.00	0.00	1.45	0.48	1	82
WSPROUT2	226	0.00	0.00	1.44	0.48	1	83
WSHRUB1	1,089	0.00	0.00	1.40	0.47	1	84
WFURNDK2	336	0.00	0.00	1.38	0.46	1	85
WTEATN1	400	0.00	0.00	1.31	0.44	1	86
W13W10	255	0.00	0.00	1.16	0.39	1	87
W14W77	184	0.00	0.00	1.02	0.34	1	88
WPREMPT1	553	0.00	0.00	1.03	0.34	1	89
WHARDSC1	429	0.00	0.00	0.99	0.33	1	90
W20U2_W87U3	1,097	0.00	0.00	0.96	0.32	1	91
WSD11	288	0.00	0.00	0.95	0.32	1	92
WLEXING1	619	0.00	0.00	0.93	0.31	1	93
WGRASSL1	221	0.00	0.00	0.93	0.31	1	94
W19U2_W77U3	1,072	0.00	0.00	0.91	0.30	1	95
WPORTCH1	997	0.00	0.00	0.90	0.30	1	96
WWINANS1	951	0.00	0.00	0.86	0.29	1	97
W23U4_W98U2	616	0.00	0.00	0.87	0.29	1	98
WSARGPL1	310	0.00	0.00	0.81	0.27	1	99
WPANAS2	160	0.00	0.00	0.79	0.26	1	100
W66U1_W74U3	862	0.00	0.00	0.68	0.23	1	101
WEASTCH1	364	0.00	0.00	0.68	0.23	1	102

2024 WESTCHESTER WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
WCHAPEL1	666	0.00	0.00	0.70	0.23	1	103
WMANVIL1	596	0.00	0.00	0.66	0.22	1	104
W1U1_W4U1	443	0.00	0.00	0.66	0.22	1	105
WWHITE1	1,156	0.00	0.00	0.67	0.22	1	106
W2U1_W36U1	1,548	0.00	0.00	0.64	0.21	1	107
W79U3_W88U3	1,716	0.00	0.00	0.60	0.20	1	108
W105U2_W61U2	1,240	0.00	0.00	0.56	0.19	1	109
WLINCLN2	1,406	0.00	0.00	0.56	0.19	1	110
WOSSING1	1,406	0.00	0.00	0.56	0.19	1	111
WRYE1	1,299	0.00	0.00	0.56	0.19	1	112

Note: Only feeders with a 2024 SAIFI greater than the PSC Service Standard and at least 2 outages are listed.

2024 WESTCHESTER WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
W25U3_W58U2	751	7.26	3.14	7.48	5.96	3	1
W29U3_W54U1	2,659	2.18	2.75	11.06	5.33	3	2
W54U3_W70U3	782	3.17	2.73	7.72	4.54	3	3
W43U6_W76U3	926	2.06	6.51	3.01	3.86	3	4
W73U1_W89U1	1,343	2.79	5.56	3.16	3.84	3	5
W22U1_W85U4	519	4.73	2.75	3.81	3.76	3	6
W40U4	222	2.23	3.93	4.86	3.67	3	7
W10U2_W40U1	961	4.55	3.03	2.99	3.52	3	8
W41U3	368	5.68	2.52	2.01	3.40	3	9
W31U1_W54U4	1,416	3.82	3.42	2.94	3.40	3	10
WSOSIDE2	1,519	2.80	4.45	2.57	3.27	3	11
W70U2_W86U1	1,353	3.67	2.32	2.84	2.95	3	12
WWINDML1	818	2.53	3.37	2.51	2.81	3	13
W33U2_W42U2	2,078	2.61	2.18	2.74	2.51	3	14
WOSSING1	1,406	2.51	2.11	2.56	2.39	3	15
W61U1_W91U2	1,078	0.00	15.76	2.74	6.17	2	16
W56U4_W80U2	1,018	4.39	0.00	13.33	5.90	2	17
W22U2_W25U4	788	12.31	0.00	4.83	5.71	2	18
WMILTPT2	373	0.00	2.49	10.38	4.29	2	19
WPREMPT1	553	10.52	0.00	2.22	4.25	2	20
WBYRAM2	303	0.00	4.06	8.44	4.16	2	21
W49U2_W9U1	833	2.73	0.00	8.64	3.79	2	22
WHARDSC1	429	0.00	6.59	4.58	3.72	2	23
W17U2_W56U3	731	6.44	0.00	3.94	3.46	2	24
WELMSFD1	578	3.72	0.00	5.93	3.22	2	25
WUNIAVE1	700	2.83	0.00	6.14	2.99	2	26
W49U3_W9U2	777	0.00	4.73	4.20	2.98	2	27
W57U1_W93U1	686	0.00	3.60	5.30	2.97	2	28
W72U2_W95U2	1,595	0.00	5.06	3.62	2.90	2	29
W44U1_W5U1	1,733	0.00	4.13	4.51	2.88	2	30
WBALDWIN2	573	5.15	0.00	3.31	2.82	2	31
WGRIFFN1	276	0.00	3.03	5.06	2.70	2	32
W71U3_W91U3	836	5.58	0.00	2.48	2.69	2	33
W47U4_W92U3	801	0.00	3.11	4.95	2.69	2	34

2024 WESTCHESTER WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
W39U1_W48U2	461	0.00	3.35	4.45	2.60	2	35
WSHRUB2	723	5.24	0.00	2.44	2.56	2	36
W8W51	281	2.25	0.00	5.38	2.54	2	37
WPINEBR1	291	2.73	0.00	4.57	2.43	2	38
WWASHST1	1,861	4.07	0.00	2.98	2.35	2	39
WCENTRL2	567	0.00	2.34	4.67	2.33	2	40
W20U2_W87U3	1,097	0.00	4.13	2.78	2.30	2	41
W59U3	707	3.60	0.00	3.27	2.29	2	42
WHAMLTN1	662	0.00	2.85	3.93	2.26	2	43
WBEDFRD1	873	3.35	0.00	3.34	2.23	2	44
WSD38	862	0.00	4.40	2.22	2.20	2	45
WTEATN2	1,634	0.00	2.68	3.62	2.10	2	46
WFURNDK2	336	0.00	3.61	2.60	2.07	2	47
W4U2	366	3.41	0.00	2.71	2.04	2	48
W19U1_W90U3	1,569	3.48	0.00	2.61	2.03	2	49
WQUAKER2	291	0.00	2.69	3.36	2.02	2	50
WARMONK1	448	3.59	0.00	2.45	2.01	2	51
W63U3_X1102	2,215	0.00	3.70	2.29	2.00	2	52
WST_JOHNS2	504	0.00	2.91	3.02	1.98	2	53
WKITCHA1	1,007	0.00	3.18	2.76	1.98	2	54
WHARRISN1	2,469	2.66	0.00	3.01	1.89	2	55
W16W51	798	0.00	2.92	2.65	1.86	2	56
W35U2_W66U2	155	2.02	0.00	3.43	1.82	2	57
W58U1_W69U1	1,127	2.76	0.00	2.71	1.82	2	58
W2U3_W82U3	1,567	2.16	0.00	3.28	1.81	2	59
W40U2_W78U3	800	0.00	2.15	3.12	1.76	2	60
WMEETHS2	629	2.25	0.00	2.91	1.72	2	61
WLNGHLL1	367	2.21	0.00	2.63	1.61	2	62
WWHIPP2	197	2.51	0.00	2.19	1.57	2	63
W3U1_W50U1	617	2.15	0.00	2.49	1.55	2	64
WLAFYET1	1,606	0.00	2.26	2.21	1.49	2	65
W105U1_W6U3	671	2.26	0.00	2.19	1.48	2	66
W51U4_W74U2	433	2.41	0.00	2.00	1.47	2	67
WRYE2	550	0.00	2.13	2.06	1.40	2	68

2024 WESTCHESTER WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
WCORTLT1	687	0.00	2.08	2.01	1.36	2	69
WBANKSV2	159	0.00	0.00	7.45	2.48	1	70
WCARPEN1	709	0.00	0.00	7.08	2.36	1	71
WBEDFRD2	108	0.00	0.00	6.62	2.21	1	72
W64U1_W72U1	1,287	0.00	0.00	6.56	2.19	1	73
WSD11	288	0.00	0.00	5.67	1.89	1	74
WMTHOPE1	869	0.00	0.00	5.00	1.67	1	75
WPAULDN1	635	0.00	0.00	4.95	1.65	1	76
W18U4_W93U3	539	0.00	0.00	4.96	1.65	1	77
W43U2_W43U3	1,253	0.00	0.00	4.88	1.63	1	78
W13W10	255	0.00	0.00	4.85	1.62	1	79
W2U2_W99U2	1,160	0.00	0.00	4.84	1.61	1	80
WHASTNG2	575	0.00	0.00	4.74	1.58	1	81
W106U1_W47U1	879	0.00	0.00	4.59	1.53	1	82
W22U4	747	0.00	0.00	4.60	1.53	1	83
WHARDSC2	170	0.00	0.00	4.42	1.47	1	84
W64U3	231	0.00	0.00	4.39	1.46	1	85
WORIENT1	518	0.00	0.00	4.24	1.41	1	86
W19U2_W77U3	1,072	0.00	0.00	3.96	1.32	1	87
W52U3_W70U4	498	0.00	0.00	3.94	1.31	1	88
W82U4_W99U1	2,409	0.00	0.00	3.87	1.29	1	89
WSD37	268	0.00	0.00	3.74	1.25	1	90
WSCARBO2	488	0.00	0.00	3.70	1.23	1	91
WFLTWOD1	374	0.00	0.00	3.59	1.20	1	92
W14W77	184	0.00	0.00	3.56	1.19	1	93
WCHAPEL2	513	0.00	0.00	3.49	1.16	1	94
W103U2_W15U2	1,473	0.00	0.00	3.30	1.10	1	95
WSD41	608	0.00	0.00	3.26	1.09	1	96
WLINCLN1	1,563	0.00	0.00	3.06	1.02	1	97
WPLEASN2	735	0.00	0.00	3.04	1.01	1	98
WFOXISL2	838	0.00	0.00	3.00	1.00	1	99
W13W14	142	0.00	0.00	2.97	0.99	1	100
W5U2_W79U2	1,112	0.00	0.00	2.98	0.99	1	101
WKITCHA2	254	0.00	0.00	2.90	0.97	1	102

2024 WESTCHESTER WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
W25U2_W69U3	698	0.00	0.00	2.86	0.95	1	103
WBUSPK2	148	0.00	0.00	2.82	0.94	1	104
W41U2	324	0.00	0.00	2.71	0.90	1	105
W40U3_W85U2	711	0.00	0.00	2.66	0.89	1	106
WGARDEN2	1,299	0.00	0.00	2.67	0.89	1	107
WREGENT2	1,268	0.00	0.00	2.63	0.88	1	108
W85U3	391	0.00	0.00	2.56	0.85	1	109
W65U1_W66U3	1,053	0.00	0.00	2.51	0.84	1	110
WFRANKL1	353	0.00	0.00	2.48	0.83	1	111
WLNGHLL2	399	0.00	0.00	2.48	0.83	1	112
WAQUEDT1	102	0.00	0.00	2.42	0.81	1	113
W27U3_W3U2	1,343	0.00	0.00	2.43	0.81	1	114
W22U3_W85U1	832	0.00	0.00	2.35	0.78	1	115
W63U4	308	0.00	0.00	2.29	0.76	1	116
W33U3_W42U3	1,157	0.00	0.00	2.22	0.74	1	117
WMTVERN2	582	0.00	0.00	2.21	0.74	1	118
WORIENT2	587	0.00	0.00	2.19	0.73	1	119
WELMSFD2	1,061	0.00	0.00	2.19	0.73	1	120
WFENIMO2	897	0.00	0.00	2.16	0.72	1	121
WBANKSV1	359	0.00	0.00	2.16	0.72	1	122
W66U1_W74U3	862	0.00	0.00	2.16	0.72	1	123
W59U2_W8U2	1,271	0.00	0.00	2.14	0.71	1	124
W42U1_W86U2	2,123	0.00	0.00	2.09	0.70	1	125
W7W06	190	0.00	0.00	2.09	0.70	1	126
WSCARBO1	410	0.00	0.00	2.09	0.70	1	127
WBALDWIN1	274	0.00	0.00	2.05	0.68	1	128
W74U1	217	0.00	0.00	2.04	0.68	1	129

Note: Only feeders with a 2024 CAIDI greater than the PSC Service Standard and at least 2 outages are listed.

2024 WESTCHESTER NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
W411	11	1,247.93	391	60	6.52	1
WDAVNPT1	27	11,426.12	6,815	1,462	4.66	2
W74U1	7	1,598.20	782	217	3.60	3
WMTKISC1	26	3,198.42	1,997	591	3.38	4
W12W19	3	20.40	3	1	3.00	5
WLARCH1	20	7,437.12	4,395	1,473	2.98	6
W40U2	3	371.67	384	138	2.78	7
W22U3	12	4,160.57	1,842	711	2.59	8
W15W85	4	130.75	50	20	2.50	9
WPINEBR1	10	3,283.90	718	291	2.47	10
WPARKVW1	5	413.23	829	338	2.45	11
W43U5	8	1,468.00	902	372	2.42	12
W4U2	11	2,383.63	879	366	2.40	13
W70U1	3	484.87	507	229	2.21	14
WRDGST2	8	1,437.78	942	427	2.21	15
WARDS2	10	1,630.23	1,435	651	2.20	16
W16W52	9	1,484.00	1,042	476	2.19	17
WBALDWIN1	12	1,165.27	568	274	2.07	18
W68U1	2	57.10	154	77	2.00	19
WAIRPRT1	2	234.72	79	40	1.98	20
WBYRAM1	11	1,057.57	594	303	1.96	21
W19W61	2	74.93	27	14	1.93	22
WCARPEN2	6	358.72	253	132	1.92	23
WQUAKER1	12	1,245.37	1,380	726	1.90	24
WCENTRL2	14	5,011.70	1,074	567	1.89	25
W98U2	3	333.87	533	283	1.88	26
W77U4	4	331.07	564	300	1.88	27
W40U4	5	1,930.30	397	222	1.79	28
WCORTLT2	5	409.15	1,524	861	1.77	29
W70U2	10	2,544.40	935	541	1.73	30
WGRIFFN2	8	598.72	432	253	1.71	31
W41U3	7	1,246.08	621	368	1.69	32
WARMONK2	12	796.62	676	402	1.68	33
WSPROUT1	10	620.30	452	269	1.68	34
W7W06	6	650.50	311	190	1.64	35
WMEETHS1	5	619.43	490	301	1.63	36
WWINDML2	9	358.63	332	208	1.60	37
WNEWRCH1	9	3,201.20	2,162	1,369	1.58	38
WHEATHC1	6	964.90	775	501	1.55	39
WHIGHLAND1	7	287.47	739	482	1.53	40
WWINDML1	23	3,089.47	1,229	818	1.50	41

2024 WESTCHESTER NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
WCHAPEL2	4	2,621.47	752	513	1.47	42
WPHILIP1	12	837.22	929	639	1.45	43
WSHRUB2	9	2,557.90	1,049	723	1.45	44
WBANKSV1	13	1,116.80	518	359	1.44	45
WSPROUT2	6	647.73	326	226	1.44	46
W55U1	3	279.13	1,052	735	1.43	47
WPREMPT2	9	2,039.68	1,077	755	1.43	48
WSHRUB1	6	1,348.62	1,527	1,089	1.40	49
WGRIFFN1	7	1,944.45	384	276	1.39	50
WFURNDK2	10	1,208.63	464	336	1.38	51
W13W14	4	578.58	195	142	1.37	52
WST_JOHNS1	3	1,157.90	778	570	1.36	53
WMEETHS2	13	2,467.63	848	629	1.35	54
WBRCLIF1	5	409.50	492	368	1.34	55
WTEATN1	5	409.50	524	400	1.31	56
W85U1	11	803.12	271	213	1.27	57
W77U3	7	3,859.75	974	839	1.16	58
W13W10	4	1,435.68	296	255	1.16	59
W20U2	7	2,245.30	819	706	1.16	60
W73U1	13	1,480.18	468	410	1.14	61
W18U3	4	215.57	106	93	1.14	62
WFENIMO1	7	688.52	903	802	1.13	63
WWHIPP2	7	482.32	220	197	1.12	64
W48U1	3	399.98	221	198	1.12	65
W42U1	2	2,328.40	1,116	1,002	1.11	66
WGREENV1	8	1,004.58	669	617	1.08	67
WORCHRD1	10	938.93	610	565	1.08	68
WLNGHLL1	5	1,040.55	396	367	1.08	69
WHASTNG2	7	2,924.02	617	575	1.07	70
W35U1	4	57.75	126	118	1.07	71
WCROWHL2	9	879.73	755	711	1.06	72
W106U2	5	419.58	294	277	1.06	73
WMTHOPE1	13	4,610.78	922	869	1.06	74
WELMSFD2	7	2,448.82	1,117	1,061	1.05	75
W92U1	3	330.60	308	293	1.05	76
W85U3	9	1,051.08	410	391	1.05	77
WKITCHA2	6	768.77	265	254	1.04	78
W15W83	2	245.47	26	25	1.04	79
WOSSING2	2	1,176.50	596	576	1.03	80
WPREMPT1	13	1,265.87	570	553	1.03	81
W14W77	2	665.05	187	184	1.02	82

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W79U3	4	459.63	1,026	1,015	1.01	83
W69U3	4	849.95	299	296	1.01	84
W14W75	1	2.88	1	1	1.00	85
W17W81	1	23.33	2	2	1.00	86
W15W76	1	6.95	3	3	1.00	87
W71U3	1	744.33	308	308	1.00	88
W6U4	1	191.50	383	383	1.00	89
WWHITE2	4	892.70	1,137	1,137	1.00	90
W36U1	5	1,128.52	995	1,001	0.99	91
WHARDSC1	11	1,952.48	426	429	0.99	92
W24U2	4	306.68	237	239	0.99	93
W13W09	1	360.40	212	215	0.99	94
WHIGHLAND2	3	710.37	494	507	0.97	95
W36U3	5	1,306.27	803	834	0.96	96
W40U3	5	211.78	289	301	0.96	97
W65U2	2	25.85	72	75	0.96	98
W92U2	2	504.42	405	423	0.96	99
WUNIAVE2	3	44.32	157	164	0.96	100
W6W04	1	351.90	153	160	0.96	101
W61U2	2	117.82	689	721	0.96	102
W34U1	2	30.40	147	154	0.95	103
WSD11	3	1,546.58	273	288	0.95	104
W4U1	2	156.25	291	307	0.95	105
W82U2	2	563.93	708	747	0.95	106
WMTVERN1	4	302.37	702	743	0.94	107
W57U1	1	53.87	101	107	0.94	108
WLEXING1	8	736.22	577	619	0.93	109
W89U4	3	155.22	602	646	0.93	110
WDONBOS2	4	1,298.47	726	780	0.93	111
WGRASSL1	3	369.62	205	221	0.93	112
W45U2	1	438.58	277	302	0.92	113
W8W10	1	42.53	11	12	0.92	114
W80U3	2	117.52	264	291	0.91	115
WQUAKER2	7	883.25	263	291	0.90	116
W405	1	79.80	84	93	0.90	117
W40U1	1	131.95	91	101	0.90	118
WPORTCH1	8	1,586.67	896	997	0.90	119
W50U2	2	893.88	70	80	0.88	120
WWASHST1	8	4,830.28	1,620	1,861	0.87	121

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WWINANS1	6	1,023.65	815	951	0.86	122
WFURNDK1	12	554.18	321	388	0.83	123
WRYE2	9	932.43	453	550	0.82	124
WSARGPL1	5	308.58	251	310	0.81	125
WBALDWIN2	14	1,530.20	462	573	0.81	126
W2U3	2	1,893.63	577	716	0.81	127
W74U3	6	1,257.95	583	725	0.80	128
WPANAS2	5	173.48	126	160	0.79	129
WHAMLTN1	18	2,049.48	521	662	0.79	130
WLNGHLL2	7	776.45	313	399	0.78	131
W35U3	3	210.47	40	53	0.75	132
W47U2	4	730.22	396	529	0.75	133
W63U3	6	2,849.43	1,243	1,669	0.74	134
WTUCKHO2	7	979.85	1,240	1,718	0.72	135
WBANKSV2	4	848.82	114	159	0.72	136
WBEEDCT2	16	849.37	594	832	0.71	137
WMILLRD1	1	150.65	393	555	0.71	138
WCHAPEL1	3	892.73	469	666	0.70	139
WMTHOPE2	3	293.33	203	292	0.70	140
W82U4	6	4,267.58	1,102	1,588	0.69	141
WPLEASN1	5	413.87	220	320	0.69	142
WEASTCH1	7	219.02	248	364	0.68	143
WBYRAM2	4	1,738.28	206	303	0.68	144
WWHITE1	5	356.07	773	1,156	0.67	145
WBOWMAN1	6	190.57	193	289	0.67	146
WMANVIL1	4	737.42	392	596	0.66	147
WWAMPUS2	5	266.58	221	351	0.63	148
WFLTWOD2	5	1,104.47	590	956	0.62	149
W74U4	2	32.40	171	281	0.61	150
WNEWCAS2	2	440.37	422	715	0.59	151
WOSSING1	6	2,026.22	793	1,406	0.56	152
W48U4	1	282.15	171	304	0.56	153
W87U3	10	674.37	231	411	0.56	154
WRYE1	8	1,086.72	729	1,299	0.56	155
WLINCLN2	8	685.87	786	1,406	0.56	156
WHAMLTN2	2	40.60	209	374	0.56	157
WORCHRD2	2	18.37	5	9	0.56	158

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WMARYKL2	1	1,171.67	380	691	0.55	159
W72U2	2	1,449.73	400	728	0.55	160
WFRANKL2	3	127.53	326	599	0.54	161
W47U1	6	1,212.15	264	489	0.54	162
W16U2	4	668.92	590	1,109	0.53	163
W14U1	7	568.23	521	989	0.53	164
WSCARBO1	10	450.10	215	410	0.52	165
WMTKISC2	5	373.62	332	660	0.50	166
W85U2	5	1,117.97	210	418	0.50	167
W43U4	3	458.83	324	645	0.50	168
WMARYKL1	2	4.37	2	4	0.50	169
W78U3	3	1,903.22	345	690	0.50	170
WGRASSL2	6	1,090.35	571	1,157	0.49	171
W53U2	1	61.53	284	577	0.49	172
WAQUEDT1	3	121.02	50	102	0.49	173
W3U2	4	1,075.63	442	919	0.48	174
WGARDEN2	4	1,643.27	615	1,299	0.47	175
W48U2	6	543.17	122	259	0.47	176
W53U3	1	177.45	169	368	0.46	177
W56U1	1	372.60	207	454	0.46	178
W91U3	2	691.25	279	617	0.45	179
WPAULDN2	6	543.25	490	1,086	0.45	180
WCROTON1	4	613.72	549	1,225	0.45	181
WMCLEAN2	8	826.15	624	1,396	0.45	182
W5U4	1	285.87	268	601	0.45	183
WPINEBR2	1	35.33	53	119	0.45	184
WSD29	6	261.73	207	476	0.43	185
WMILTPT1	2	136.63	175	404	0.43	186
WCARPEN1	3	2,152.38	304	709	0.43	187
W2U2	2	1,282.47	265	631	0.42	188
WSUNSID2	6	147.22	301	720	0.42	189
WTIBBIT1	7	733.07	469	1,128	0.42	190
WBEDFRD1	7	1,194.35	358	873	0.41	191
W39U4	1	1,104.00	180	439	0.41	192
W22U4	9	1,383.32	301	747	0.40	193
W63U4	2	279.57	122	308	0.40	194
W56U2	1	152.00	95	245	0.39	195

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WLEXING2	4	131.65	90	238	0.38	196
W2U1	1	131.47	232	621	0.37	197
WWASHST2	4	168.35	614	1,698	0.36	198
WBEEDCT1	6	603.57	354	989	0.36	199
WBRCLIF2	1	36.40	24	68	0.35	200
WTARYTN1	2	337.72	236	678	0.35	201
W43U3	3	784.95	161	468	0.34	202
WKINGST2	3	355.35	273	796	0.34	203
WFLTWOD1	4	459.90	128	374	0.34	204
W45U3	3	257.45	189	560	0.34	205
W79U2	2	501.20	168	499	0.34	206
WPEEKSL2	4	152.93	321	969	0.33	207
WBEDFRD2	5	231.57	35	108	0.32	208
W53U1	2	45.37	124	387	0.32	209
W1U2	1	447.70	66	211	0.31	210
WFERNAR1	4	124.87	210	673	0.31	211
WTIBBIT2	1	391.50	290	942	0.31	212
WSINSIN2	6	191.50	276	898	0.31	213
WLAFYET1	8	1,070.00	484	1,606	0.30	214
WPANAS1	2	182.30	94	316	0.30	215
W6U3	2	140.40	18	61	0.30	216
WST_JOHNS2	4	440.90	146	504	0.29	217
WBONWIT1	2	57.57	32	111	0.29	218
WHARRISN1	12	2,106.65	700	2,469	0.28	219
W66U2	4	154.22	45	159	0.28	220
W51U4	3	142.07	71	251	0.28	221
WYONKER2	2	392.47	439	1,552	0.28	222
WMACQUE1	4	499.00	622	2,270	0.27	223
W50U1	3	120.67	88	330	0.27	224
W2U4	2	290.92	350	1,313	0.27	225
W30U2	2	92.58	133	501	0.27	226
W59U3	7	610.85	187	707	0.26	227
WLUDLOW1	4	1,033.55	549	2,088	0.26	228
W66U1	1	27.87	22	86	0.26	229
W56U4	3	1,998.87	150	592	0.25	230
WWARBUR2	2	190.80	215	849	0.25	231
W58U1	8	568.32	210	832	0.25	232

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W17U3	1	126.87	346	1,373	0.25	233
W12W52	1	9.37	2	8	0.25	234
WEASTCH2	6	165.48	197	789	0.25	235
W113U2	1	275.33	28	113	0.25	236
WSARGPL2	1	179.73	16	66	0.24	237
WSCARBO2	6	436.93	118	488	0.24	238
WFRANKL1	2	211.10	85	353	0.24	239
W90U2	3	47.95	115	483	0.24	240
W85U4	4	75.57	47	198	0.24	241
WCROWHL1	3	113.07	60	253	0.24	242
WTEATN2	9	1,400.02	387	1,634	0.24	243
W64U1	3	885.48	120	510	0.24	244
WLUDLOW2	4	350.27	339	1,445	0.23	245
W79U4	3	95.23	67	290	0.23	246
W105U1	5	317.47	145	630	0.23	247
WFULTON2	3	351.82	257	1,123	0.23	248
WREGENT2	4	751.42	286	1,268	0.23	249
W92U3	3	604.23	122	541	0.23	250
W1U4	2	143.08	252	1,126	0.22	251
WHARDSC2	9	168.08	38	170	0.22	252
WBATTLE1	1	540.60	204	918	0.22	253
W8W51	2	333.63	62	281	0.22	254
WDIVISION2	4	249.97	265	1,210	0.22	255
W5U1	3	901.80	218	1,022	0.21	256
WMAPLE2	2	469.97	432	2,042	0.21	257
W15U2	3	630.53	191	921	0.21	258
WTERACE2	2	235.88	388	1,930	0.20	259
WWHIPP1	2	15.67	41	209	0.20	260
WORIENT2	2	251.43	115	587	0.20	261
WSUNSID3	3	78.00	45	230	0.20	262
WPEEKSL1	2	26.63	68	356	0.19	263
WHEATHC2	4	115.52	72	377	0.19	264
W3U1	3	239.75	57	303	0.19	265
W22U1	6	343.92	63	344	0.18	266
WELMSFD1	6	622.30	105	578	0.18	267
WPOCANT1	6	235.82	119	656	0.18	268
WSD41	4	351.82	108	608	0.18	269
W25U4	3	323.35	67	386	0.17	270

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W90U1	2	184.40	92	550	0.17	271
W62U1	2	252.97	43	259	0.17	272
WWINGFT1	5	75.37	42	263	0.16	273
WMACQUE2	6	252.42	251	1,620	0.15	274
WPAULDN1	2	485.10	98	635	0.15	275
W76U3	2	250.10	83	541	0.15	276
W39U1	1	156.25	25	165	0.15	277
WPORTCH2	2	360.83	250	1,664	0.15	278
WGARDEN1	1	192.28	139	939	0.15	279
W59U2	3	306.43	143	997	0.14	280
WCORTLT1	5	196.67	98	687	0.14	281
WVILLARD2	2	54.63	68	478	0.14	282
W52U3	3	185.37	47	343	0.14	283
W54U3	4	632.77	82	599	0.14	284
W113U3	1	148.20	76	563	0.13	285
W19U2	1	234.33	76	593	0.13	286
W66U3	2	123.20	49	387	0.13	287
WWILMOT1	5	77.82	40	317	0.13	288
W12U1	1	22.10	34	271	0.13	289
W51U3	5	130.35	56	453	0.12	290
W58U2	3	381.58	51	418	0.12	291
W91U2	5	295.72	108	907	0.12	292
WMILTPT2	2	456.67	44	373	0.12	293
W49U3	4	172.27	41	348	0.12	294
W20U1	1	114.80	42	359	0.12	295
W90U3	2	154.28	59	508	0.12	296
WKITCHA1	6	312.10	113	1,007	0.11	297
W15U1	2	31.27	27	244	0.11	298
WUNIAVE1	3	473.08	77	700	0.11	299
W10U2	2	218.42	73	664	0.11	300
WSD37	4	108.38	29	268	0.11	301
W42U3	2	81.97	37	343	0.11	302
WTUCKHO1	5	283.57	149	1,407	0.11	303
W32U1	1	52.08	25	237	0.11	304
WLAFYET2	1	4.95	9	86	0.10	305
WMTVERN2	4	132.60	60	582	0.10	306
WPLEASN2	8	228.22	75	735	0.10	307
W8U2	1	25.20	28	280	0.10	308
WPOCANT2	1	23.60	12	121	0.10	309
W41U2	2	86.60	32	324	0.10	310
W93U2	1	310.73	118	1,199	0.10	311

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WCOLMBS2	3	65.60	48	488	0.10	312
W44U2	2	160.50	67	691	0.10	313
WTHORNW1	3	31.80	27	283	0.10	314
WDIVISION1	3	79.73	93	997	0.09	315
W30U3	2	44.23	33	371	0.09	316
W7U3	2	54.85	44	509	0.09	317
WSINSIN1	2	130.30	76	881	0.09	318
W43U1	3	27.67	50	615	0.08	319
WHARBOR1	3	79.48	43	531	0.08	320
W9U3	1	421.47	58	729	0.08	321
WORIENT1	4	173.80	41	518	0.08	322
WWOLDEN1	4	112.50	91	1,152	0.08	323
W12W09	1	12.15	9	122	0.07	324
W99U4	1	6.80	34	463	0.07	325
WTHORNW2	2	51.17	36	517	0.07	326
W54U1	4	497.88	45	670	0.07	327
W93U1	2	217.42	41	613	0.07	328
W27U1	1	16.40	24	366	0.07	329
WHARBOR3	2	112.93	64	1,012	0.06	330
W25U3	1	101.20	23	377	0.06	331
W64U3	2	61.45	14	231	0.06	332
W35U4	1	23.83	10	167	0.06	333
W30U1	1	4.17	10	172	0.06	334
W52U2	1	26.60	28	482	0.06	335
W44U1	4	296.63	48	843	0.06	336
W65U3	2	29.00	21	369	0.06	337
W8U1	1	115.67	20	356	0.06	338
W88U4	4	69.37	43	773	0.06	339
W27U2	1	15.47	16	302	0.05	340
W16W51	2	111.33	42	798	0.05	341
W69U2	2	83.22	45	902	0.05	342
WCENTRL1	2	82.90	51	1,037	0.05	343
W57U3	1	2.92	7	143	0.05	344
W33U2	2	40.72	21	436	0.05	345
WFOXISL2	3	120.05	40	838	0.05	346
WBUSPK2	2	19.75	7	148	0.05	347
W25U2	3	65.87	21	446	0.05	348
W17U2	1	27.20	17	366	0.05	349
WMILLRD2	2	51.53	45	972	0.05	350
WARMONK1	3	49.00	20	448	0.04	351
W28U1	1	329.33	16	359	0.04	352

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W13U1	1	60.00	20	455	0.04	353
W69U1	1	29.25	15	360	0.04	354
WSOSIDE2	2	153.90	60	1,519	0.04	355
WHASTNG1	2	14.88	17	444	0.04	356
W52U1	2	17.47	7	187	0.04	357
WSD38	3	70.90	32	862	0.04	358
WSUNSID1	2	22.72	21	581	0.04	359
WKINGST1	3	22.02	34	989	0.03	360
W23U4	1	25.67	11	323	0.03	361
W72U1	4	78.65	27	810	0.03	362
W22U2	1	115.60	12	365	0.03	363
W16U4	1	34.58	25	774	0.03	364
W93U3	2	64.48	13	414	0.03	365
W83U1	1	6.75	9	292	0.03	366
W32U2	1	26.67	16	524	0.03	367
W84U4	1	12.00	8	266	0.03	368
WLAKEST2	2	103.57	58	1,937	0.03	369
W5U2	1	47.47	16	592	0.03	370
W19U1	1	8.33	20	785	0.03	371
W43U2	1	28.20	18	716	0.03	372
W56U3	2	39.35	10	402	0.02	373
W65U1	1	21.82	17	691	0.02	374
W84U1	1	10.35	9	366	0.02	375
WLINCLN1	3	116.40	38	1,563	0.02	376
W77U2	1	9.03	2	84	0.02	377
W24U3	1	270.18	13	548	0.02	378
W87U1	1	12.17	10	423	0.02	379
W9U2	1	12.65	11	473	0.02	380
WNEWCAS1	1	96.20	37	1,644	0.02	381
WYONKER1	2	23.18	36	1,612	0.02	382
W18U2	1	10.93	1	45	0.02	383
W31U1	2	64.73	22	996	0.02	384
W1U3	1	14.70	14	639	0.02	385
W84U3	2	31.12	19	868	0.02	386
W75U4	1	181.87	16	732	0.02	387
WBOWMAN2	3	10.47	8	380	0.02	388
W45U1	1	24.43	2	104	0.02	389
W54U5	2	11.00	9	489	0.02	390
W29U3	1	71.97	34	1,857	0.02	391
W51U2	1	31.65	9	531	0.02	392
W86U1	2	162.53	17	1,008	0.02	393

2024 WESTCHESTER NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
WIRVINGTN1	1	12.42	5	322	0.02	394
WMCLEAN1	1	33.60	4	259	0.02	395
W95U2	1	7.95	9	590	0.02	396
W105U3	1	68.38	11	726	0.02	397
WBONWIT2	1	3.77	2	134	0.01	398
W13U2	1	151.00	12	877	0.01	399
W33U4	1	17.55	13	960	0.01	400
W79U1	1	3.33	20	1,522	0.01	401
W91U4	1	8.40	8	635	0.01	402
W13U3	2	10.05	7	562	0.01	403
W9U1	2	77.75	9	774	0.01	404
W42U2	2	66.30	18	1,605	0.01	405
WARDS1	2	7.07	6	576	0.01	406
W12U2	1	13.87	8	818	0.01	407
W77U1	1	4.00	3	353	0.01	408
W36U2	1	16.40	6	815	0.01	409
W24U1	1	1.93	2	283	0.01	410
W18U4	1	3.53	1	144	0.01	411
W67U1	1	1.70	3	444	0.01	412
W60U3	1	6.60	3	478	0.01	413
W25U1	1	1.53	4	766	0.01	414
W31U2	1	4.55	3	586	0.01	415
W54U4	1	4.60	2	454	0.00	416
WDONBOS1	2	11.93	9	2,050	0.00	417
WLAKEST1	1	13.18	7	1,691	0.00	418
W15W84	1	19.40	2	491	0.00	419
W66U4	1	13.93	4	984	0.00	420
W28U2	1	2.83	1	257	0.00	421
W89U3	1	1.20	1	273	0.00	422
W89U1	1	11.90	2	840	0.00	423
WTARYTN2	1	1.92	1	426	0.00	424
WFENIMO2	2	4.32	2	897	0.00	425
W71U1	1	0.95	1	633	0.00	426
W34U3	1	3.40	1	737	0.00	427
W99U1	1	4.88	1	754	0.00	428
W29U1	1	4.37	1	1,099	0.00	429

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W24U3	1	270.18	13	548	20.78	1
W28U1	1	329.33	16	359	20.58	2
W56U4	3	1,998.87	150	592	13.33	3
W50U2	2	893.88	70	80	12.77	4
W13U2	1	151.00	12	877	12.58	5
W45U1	1	24.43	2	104	12.22	6
W17W81	1	23.33	2	2	11.67	7
W75U4	1	181.87	16	732	11.37	8
WSARGPL2	1	179.73	16	66	11.23	9
W54U1	4	497.88	45	670	11.06	10
W18U2	1	10.93	1	45	10.93	11
WMILTPT2	2	456.67	44	373	10.38	12
W113U2	1	275.33	28	113	9.83	13
W15W84	1	19.40	2	491	9.70	14
W22U2	1	115.60	12	365	9.63	15
W86U1	2	162.53	17	1,008	9.56	16
W15W83	2	245.47	26	25	9.44	17
W9U1	2	77.75	9	774	8.64	18
WBYRAM2	4	1,738.28	206	303	8.44	19
WMCLEAN1	1	33.60	4	259	8.40	20
W6U3	2	140.40	18	61	7.80	21
W54U3	4	632.77	82	599	7.72	22
W58U2	3	381.58	51	418	7.48	23
WBANKSV2	4	848.82	114	159	7.45	24
W64U1	3	885.48	120	510	7.38	25
W9U3	1	421.47	58	729	7.27	26
WCARPEN1	3	2,152.38	304	709	7.08	27
W12W19	3	20.40	3	1	6.80	28
W1U2	1	447.70	66	211	6.78	29
WBEDFRD2	5	231.57	35	108	6.62	30
W39U1	1	156.25	25	165	6.25	31
W105U3	1	68.38	11	726	6.22	32
W44U1	4	296.63	48	843	6.18	33
WUNIAVE1	3	473.08	77	700	6.14	34
W39U4	1	1,104.00	180	439	6.13	35
W89U1	1	11.90	2	840	5.95	36
WELMSFD1	6	622.30	105	578	5.93	37
W62U1	2	252.97	43	259	5.88	38
W8U1	1	115.67	20	356	5.78	39
WSD11	3	1,546.58	273	288	5.67	40
W78U3	3	1,903.22	345	690	5.52	41
W22U1	6	343.92	63	344	5.46	42

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W8W51	2	333.63	62	281	5.38	43
W85U2	5	1,117.97	210	418	5.32	44
W93U1	2	217.42	41	613	5.30	45
W35U3	3	210.47	40	53	5.26	46
WGRIFFN1	7	1,944.45	384	276	5.06	47
WMTHOPE1	13	4,610.78	922	869	5.00	48
W93U3	2	64.48	13	414	4.96	49
W92U3	3	604.23	122	541	4.95	50
WPAULDN1	2	485.10	98	635	4.95	51
W99U1	1	4.88	1	754	4.88	52
W43U3	3	784.95	161	468	4.88	53
W40U4	5	1,930.30	397	222	4.86	54
W13W10	4	1,435.68	296	255	4.85	55
W2U2	2	1,282.47	265	631	4.84	56
W25U4	3	323.35	67	386	4.83	57
WHASTNG2	7	2,924.02	617	575	4.74	58
W12W52	1	9.37	2	8	4.68	59
WCENTRL2	14	5,011.70	1,074	567	4.67	60
W22U4	9	1,383.32	301	747	4.60	61
W47U1	6	1,212.15	264	489	4.59	62
WHARDSC1	11	1,952.48	426	429	4.58	63
WPINEBR1	10	3,283.90	718	291	4.57	64
W77U2	1	9.03	2	84	4.52	65
W48U2	6	543.17	122	259	4.45	66
WHARDSC2	9	168.08	38	170	4.42	67
W25U3	1	101.20	23	377	4.40	68
W64U3	2	61.45	14	231	4.39	69
W29U1	1	4.37	1	1,099	4.37	70
WORIENT1	4	173.80	41	518	4.24	71
W3U1	3	239.75	57	303	4.21	72
W49U3	4	172.27	41	348	4.20	73
W5U1	3	901.80	218	1,022	4.14	74
W77U3	7	3,859.75	974	839	3.96	75
W52U3	3	185.37	47	343	3.94	76
W56U3	2	39.35	10	402	3.94	77
WHAMLTN1	18	2,049.48	521	662	3.93	78
W82U4	6	4,267.58	1,102	1,588	3.87	79
W8W10	1	42.53	11	12	3.87	80
WSD37	4	108.38	29	268	3.74	81
WSCARBO2	6	436.93	118	488	3.70	82
W42U2	2	66.30	18	1,605	3.68	83
WORCHRD2	2	18.37	5	9	3.67	84

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W72U2	2	1,449.73	400	728	3.62	85
WTEATN2	9	1,400.02	387	1,634	3.62	86
WFLTWOD1	4	459.90	128	374	3.59	87
W14W77	2	665.05	187	184	3.56	88
W18U4	1	3.53	1	144	3.53	89
W51U2	1	31.65	9	531	3.52	90
WCHAPEL2	4	2,621.47	752	513	3.49	91
W66U4	1	13.93	4	984	3.48	92
W66U2	4	154.22	45	159	3.43	93
W34U3	1	3.40	1	737	3.40	94
WQUAKER2	7	883.25	263	291	3.36	95
WBEDFRD1	7	1,194.35	358	873	3.34	96
WBALDWIN2	14	1,530.20	462	573	3.31	97
W15U2	3	630.53	191	921	3.30	98
W2U3	2	1,893.63	577	716	3.28	99
W59U3	7	610.85	187	707	3.27	100
WSD41	4	351.82	108	608	3.26	101
W411	11	1,247.93	391	60	3.19	102
W73U1	13	1,480.18	468	410	3.16	103
W25U2	3	65.87	21	446	3.14	104
W19U2	1	234.33	76	593	3.08	105
WMARYKL2	1	1,171.67	380	691	3.08	106
WLINCLN1	3	116.40	38	1,563	3.06	107
WPLEASN2	8	228.22	75	735	3.04	108
WST_JOHNS2	4	440.90	146	504	3.02	109
W76U3	2	250.10	83	541	3.01	110
WHARRISN1	12	2,106.65	700	2,469	3.01	111
WFOXISL2	3	120.05	40	838	3.00	112
W13U1	1	60.00	20	455	3.00	113
W10U2	2	218.42	73	664	2.99	114
W79U2	2	501.20	168	499	2.98	115
WWASHST1	8	4,830.28	1,620	1,861	2.98	116
WAIRPRT1	2	234.72	79	40	2.97	117
W13W14	4	578.58	195	142	2.97	118
W5U2	1	47.47	16	592	2.97	119
W85U1	11	803.12	271	213	2.96	120
W31U1	2	64.73	22	996	2.94	121
W87U3	10	674.37	231	411	2.92	122
W72U1	4	78.65	27	810	2.91	123
WMEETHS2	13	2,467.63	848	629	2.91	124
WKITCHA2	6	768.77	265	254	2.90	125
W14W75	1	2.88	1	1	2.88	126

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W69U3	4	849.95	299	296	2.84	127
W28U2	1	2.83	1	257	2.83	128
WBUSPK2	2	19.75	7	148	2.82	129
W19W61	2	74.93	27	14	2.78	130
WKITCHA1	6	312.10	113	1,007	2.76	131
W20U2	7	2,245.30	819	706	2.74	132
W91U2	5	295.72	108	907	2.74	133
W20U1	1	114.80	42	359	2.73	134
W36U2	1	16.40	6	815	2.73	135
W70U2	10	2,544.40	935	541	2.72	136
W4U2	11	2,383.63	879	366	2.71	137
W58U1	8	568.32	210	832	2.71	138
W41U2	2	86.60	32	324	2.71	139
WGARDEN2	4	1,643.27	615	1,299	2.67	140
W16W51	2	111.33	42	798	2.65	141
WBATTLE1	1	540.60	204	918	2.65	142
W93U2	1	310.73	118	1,199	2.63	143
WLNGHLL1	5	1,040.55	396	367	2.63	144
WREGENT2	4	751.42	286	1,268	2.63	145
W15W85	4	130.75	50	20	2.61	146
W90U3	2	154.28	59	508	2.61	147
WFURNDK2	10	1,208.63	464	336	2.60	148
WNEWCAS1	1	96.20	37	1,644	2.60	149
WSOSIDE2	2	153.90	60	1,519	2.57	150
W85U3	9	1,051.08	410	391	2.56	151
WOSSING1	6	2,026.22	793	1,406	2.56	152
W66U3	2	123.20	49	387	2.51	153
WWINDML1	23	3,089.47	1,229	818	2.51	154
W52U1	2	17.47	7	187	2.50	155
WFRANKL1	2	211.10	85	353	2.48	156
WIRVINGTN1	1	12.42	5	322	2.48	157
WLNGHLL2	7	776.45	313	399	2.48	158
W91U3	2	691.25	279	617	2.48	159
WARMONK1	3	49.00	20	448	2.45	160
WSHRUB2	9	2,557.90	1,049	723	2.44	161
W3U2	4	1,075.63	442	919	2.43	162
WAQUEDT1	3	121.02	50	102	2.42	163
W71U3	1	744.33	308	308	2.42	164
W44U2	2	160.50	67	691	2.40	165
W35U4	1	23.83	10	167	2.38	166
W23U4	1	25.67	11	323	2.33	167
W51U3	5	130.35	56	453	2.33	168

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W15W76	1	6.95	3	3	2.32	169
W6W04	1	351.90	153	160	2.30	170
W54U4	1	4.60	2	454	2.30	171
W63U3	6	2,849.43	1,243	1,669	2.29	172
W63U4	2	279.57	122	308	2.29	173
W22U3	12	4,160.57	1,842	711	2.26	174
WPREMPT1	13	1,265.87	570	553	2.22	175
WSD38	3	70.90	32	862	2.22	176
W42U3	2	81.97	37	343	2.22	177
WLAFYET1	8	1,070.00	484	1,606	2.21	178
WMTVERN2	4	132.60	60	582	2.21	179
W60U3	1	6.60	3	478	2.20	180
WWHIPP2	7	482.32	220	197	2.19	181
WELMSFD2	7	2,448.82	1,117	1,061	2.19	182
W105U1	5	317.47	145	630	2.19	183
WORIENT2	2	251.43	115	587	2.19	184
WMARYKL1	2	4.37	2	4	2.18	185
WFENIMO2	2	4.32	2	897	2.16	186
W74U3	6	1,257.95	583	725	2.16	187
WBANKSV1	13	1,116.80	518	359	2.16	188
W59U2	3	306.43	143	997	2.14	189
W29U3	1	71.97	34	1,857	2.12	190
WSCARBO1	10	450.10	215	410	2.09	191
W7W06	6	650.50	311	190	2.09	192
W42U1	2	2,328.40	1,116	1,002	2.09	193
W32U1	1	52.08	25	237	2.08	194
WRYE2	9	932.43	453	550	2.06	195
WBALDWIN1	12	1,165.27	568	274	2.05	196
W74U1	7	1,598.20	782	217	2.04	197
W18U3	4	215.57	106	93	2.03	198
WCORTLT1	5	196.67	98	687	2.01	199
W41U3	7	1,246.08	621	368	2.01	200
W90U1	2	184.40	92	550	2.00	201
W51U4	3	142.07	71	251	2.00	202
WSPROUT2	6	647.73	326	226	1.99	203
WPOCANT1	6	235.82	119	656	1.98	204
WOSSING2	2	1,176.50	596	576	1.97	205
WPOCANT2	1	23.60	12	121	1.97	206
W69U1	1	29.25	15	360	1.95	207
W113U3	1	148.20	76	563	1.95	208
WWILMOT1	5	77.82	40	317	1.95	209
WPANAS1	2	182.30	94	316	1.94	210

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W33U2	2	40.72	21	436	1.94	211
WTARYTN2	1	1.92	1	426	1.92	212
WGRASSL2	6	1,090.35	571	1,157	1.91	213
WCHAPEL1	3	892.73	469	666	1.90	214
WTUCKHO1	5	283.57	149	1,407	1.90	215
WPREMPT2	9	2,039.68	1,077	755	1.89	216
WCROWHL1	3	113.07	60	253	1.88	217
WLAKEST1	1	13.18	7	1,691	1.88	218
WBONWIT2	1	3.77	2	134	1.88	219
WLUDLOW1	4	1,033.55	549	2,088	1.88	220
WPLEASN1	5	413.87	220	320	1.88	221
WMANVIL1	4	737.42	392	596	1.88	222
WFLTWOD2	5	1,104.47	590	956	1.87	223
W69U2	2	83.22	45	902	1.85	224
WHARBOR1	3	79.48	43	531	1.85	225
W47U2	4	730.22	396	529	1.84	226
W48U1	3	399.98	221	198	1.81	227
WGRASSL1	3	369.62	205	221	1.80	228
W56U1	1	372.60	207	454	1.80	229
WBONWIT1	2	57.57	32	111	1.80	230
WWINGFT1	5	75.37	42	263	1.79	231
WDONBOS2	4	1,298.47	726	780	1.79	232
WLAKEST2	2	103.57	58	1,937	1.79	233
WBYRAM1	11	1,057.57	594	303	1.78	234
WPORTCH1	8	1,586.67	896	997	1.77	235
WHARBOR3	2	112.93	64	1,012	1.76	236
W12U2	1	13.87	8	818	1.73	237
WSUNSID3	3	78.00	45	230	1.73	238
WFURNDK1	12	554.18	321	388	1.73	239
WSINSIN1	2	130.30	76	881	1.71	240
WBEEDCT1	6	603.57	354	989	1.70	241
W13W09	1	360.40	212	215	1.70	242
WLARCH1	20	7,437.12	4,395	1,473	1.69	243
WDAVNPT1	27	11,426.12	6,815	1,462	1.68	244
W32U2	1	26.67	16	524	1.67	245
W48U4	1	282.15	171	304	1.65	246
W84U3	2	31.12	19	868	1.64	247
W43U5	8	1,468.00	902	372	1.63	248
W36U3	5	1,306.27	803	834	1.63	249
WCENTRL1	2	82.90	51	1,037	1.63	250
W88U4	4	69.37	43	773	1.61	251
W85U4	4	75.57	47	198	1.61	252

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
WHEATHC2	4	115.52	72	377	1.60	253
WMTKISC1	26	3,198.42	1,997	591	1.60	254
W17U2	1	27.20	17	366	1.60	255
W56U2	1	152.00	95	245	1.60	256
W45U2	1	438.58	277	302	1.58	257
W43U2	1	28.20	18	716	1.57	258
WTIBBIT1	7	733.07	469	1,128	1.56	259
WORCHRD1	10	938.93	610	565	1.54	260
WRDGST2	8	1,437.78	942	427	1.53	261
WBRCLIF2	1	36.40	24	68	1.52	262
W31U2	1	4.55	3	586	1.52	263
WGREENV1	8	1,004.58	669	617	1.50	264
W84U4	1	12.00	8	266	1.50	265
WRYE1	8	1,086.72	729	1,299	1.49	266
WST_JOHNS1	3	1,157.90	778	570	1.49	267
WNEWRCH1	9	3,201.20	2,162	1,369	1.48	268
WLEXING2	4	131.65	90	238	1.46	269
W40U1	1	131.95	91	101	1.45	270
WMTHOPE2	3	293.33	203	292	1.44	271
WPORTCH2	2	360.83	250	1,664	1.44	272
WHIGHLAND2	3	710.37	494	507	1.44	273
W13U3	2	10.05	7	562	1.44	274
WTARYTN1	2	337.72	236	678	1.43	275
WBEEDCT2	16	849.37	594	832	1.43	276
W106U2	5	419.58	294	277	1.43	277
W16W52	9	1,484.00	1,042	476	1.42	278
W79U4	3	95.23	67	290	1.42	279
WTHORNW2	2	51.17	36	517	1.42	280
WCARPEN2	6	358.72	253	132	1.42	281
W43U4	3	458.83	324	645	1.42	282
WGRIFFN2	8	598.72	432	253	1.39	283
W16U4	1	34.58	25	774	1.38	284
WGARDEN1	1	192.28	139	939	1.38	285
W65U3	2	29.00	21	369	1.38	286
WPANAS2	5	173.48	126	160	1.38	287
WSPROUT1	10	620.30	452	269	1.37	288
W50U1	3	120.67	88	330	1.37	289
WFULTON2	3	351.82	257	1,123	1.37	290
WCOLMBS2	3	65.60	48	488	1.37	291
W45U3	3	257.45	189	560	1.36	292
W33U4	1	17.55	13	960	1.35	293
W12W09	1	12.15	9	122	1.35	294

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
WTIBBIT2	1	391.50	290	942	1.35	295
W30U3	2	44.23	33	371	1.34	296
W77U1	1	4.00	3	353	1.33	297
WDONBOS1	2	11.93	9	2,050	1.33	298
WMCLEAN2	8	826.15	624	1,396	1.32	299
WBOWMAN2	3	10.47	8	380	1.31	300
WKINGST2	3	355.35	273	796	1.30	301
W24U2	4	306.68	237	239	1.29	302
W65U1	1	21.82	17	691	1.28	303
WLEXING1	8	736.22	577	619	1.28	304
W66U1	1	27.87	22	86	1.27	305
WSD29	6	261.73	207	476	1.26	306
WMEETHS1	5	619.43	490	301	1.26	307
WWINANS1	6	1,023.65	815	951	1.26	308
W7U3	2	54.85	44	509	1.25	309
W92U2	2	504.42	405	423	1.25	310
WHEATHC1	6	964.90	775	501	1.25	311
WWOLDEN1	4	112.50	91	1,152	1.24	312
WSARGPL1	5	308.58	251	310	1.23	313
W54U5	2	11.00	9	489	1.22	314
W87U1	1	12.17	10	423	1.22	315
WWAMPUS2	5	266.58	221	351	1.21	316
W89U3	1	1.20	1	273	1.20	317
WARMONK2	12	796.62	676	402	1.18	318
WTHORNW1	3	31.80	27	283	1.18	319
WARDS1	2	7.07	6	576	1.18	320
WCROWHL2	9	879.73	755	711	1.17	321
W15U1	2	31.27	27	244	1.16	322
W9U2	1	12.65	11	473	1.15	323
W84U1	1	10.35	9	366	1.15	324
WMILLRD2	2	51.53	45	972	1.15	325
WARDS2	10	1,630.23	1,435	651	1.14	326
W36U1	5	1,128.52	995	1,001	1.13	327
W16U2	4	668.92	590	1,109	1.13	328
WMTKISC2	5	373.62	332	660	1.13	329
WCROTON1	4	613.72	549	1,225	1.12	330
WPAULDN2	6	543.25	490	1,086	1.11	331
W14U1	7	568.23	521	989	1.09	332
WMAPLE2	2	469.97	432	2,042	1.09	333
WSUNSID1	2	22.72	21	581	1.08	334
WWINDML2	9	358.63	332	208	1.08	335
W92U1	3	330.60	308	293	1.07	336

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS

PSC CAIDI STANDARD: 2.00 HOURS

NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W5U4	1	285.87	268	601	1.07	337
W53U3	1	177.45	169	368	1.05	338
W91U4	1	8.40	8	635	1.05	339
W1U3	1	14.70	14	639	1.05	340
WNEWCAS2	2	440.37	422	715	1.04	341
WLUDLOW2	4	350.27	339	1,445	1.03	342
WMACQUE2	6	252.42	251	1,620	1.01	343
WBOWMAN1	6	190.57	193	289	0.99	344
W40U2	3	371.67	384	138	0.97	345
W24U1	1	1.93	2	283	0.97	346
W27U2	1	15.47	16	302	0.97	347
W70U1	3	484.87	507	229	0.96	348
W52U2	1	26.60	28	482	0.95	349
W71U1	1	0.95	1	633	0.95	350
W405	1	79.80	84	93	0.95	351
WDIVISION2	4	249.97	265	1,210	0.94	352
WQUAKER1	12	1,245.37	1,380	726	0.90	353
WPHILIP1	12	837.22	929	639	0.90	354
W8U2	1	25.20	28	280	0.90	355
WYONKER2	2	392.47	439	1,552	0.89	356
WWARBUR2	2	190.80	215	849	0.89	357
W95U2	1	7.95	9	590	0.88	358
WSHRUB1	6	1,348.62	1,527	1,089	0.88	359
WEASTCH1	7	219.02	248	364	0.88	360
WHASTNG1	2	14.88	17	444	0.88	361
WLINCLN2	8	685.87	786	1,406	0.87	362
WDIVISION1	3	79.73	93	997	0.86	363
WEASTCH2	6	165.48	197	789	0.84	364
WBRCLIF1	5	409.50	492	368	0.83	365
W2U4	2	290.92	350	1,313	0.83	366
WVILLARD2	2	54.63	68	478	0.80	367
WMACQUE1	4	499.00	622	2,270	0.80	368
W82U2	2	563.93	708	747	0.80	369
WTUCKHO2	7	979.85	1,240	1,718	0.79	370
WWHITE2	4	892.70	1,137	1,137	0.79	371
WTEATN1	5	409.50	524	400	0.78	372
WMILTPT1	2	136.63	175	404	0.78	373
WFENIMO1	7	688.52	903	802	0.76	374
W83U1	1	6.75	9	292	0.75	375
W40U3	5	211.78	289	301	0.73	376
W30U2	2	92.58	133	501	0.70	377
WSINSIN2	6	191.50	276	898	0.69	378

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W27U1	1	16.40	24	366	0.68	379
WPINEBR2	1	35.33	53	119	0.67	380
W12U1	1	22.10	34	271	0.65	381
WKINGST1	3	22.02	34	989	0.65	382
WYONKER1	2	23.18	36	1,612	0.64	383
W98U2	3	333.87	533	283	0.63	384
WTERACE2	2	235.88	388	1,930	0.61	385
WFERNAR1	4	124.87	210	673	0.59	386
W77U4	4	331.07	564	300	0.59	387
W1U4	2	143.08	252	1,126	0.57	388
W67U1	1	1.70	3	444	0.57	389
W2U1	1	131.47	232	621	0.57	390
W43U1	3	27.67	50	615	0.55	391
WLAFYET2	1	4.95	9	86	0.55	392
W4U1	2	156.25	291	307	0.54	393
W57U1	1	53.87	101	107	0.53	394
W6U4	1	191.50	383	383	0.50	395
WPARKVW1	5	413.23	829	338	0.50	396
WSUNSID2	6	147.22	301	720	0.49	397
WPEEKSL2	4	152.93	321	969	0.48	398
WWHITE1	5	356.07	773	1,156	0.46	399
W35U1	4	57.75	126	118	0.46	400
W79U3	4	459.63	1,026	1,015	0.45	401
W80U3	2	117.52	264	291	0.45	402
WMTVERN1	4	302.37	702	743	0.43	403
W90U2	3	47.95	115	483	0.42	404
W30U1	1	4.17	10	172	0.42	405
W19U1	1	8.33	20	785	0.42	406
W57U3	1	2.92	7	143	0.42	407
WPEEKSL1	2	26.63	68	356	0.39	408
WFRANKL2	3	127.53	326	599	0.39	409
WHIGHLAND1	7	287.47	739	482	0.39	410
W25U1	1	1.53	4	766	0.38	411
WMILLRD1	1	150.65	393	555	0.38	412
WWHIPP1	2	15.67	41	209	0.38	413
W68U1	2	57.10	154	77	0.37	414
W17U3	1	126.87	346	1,373	0.37	415
W53U1	2	45.37	124	387	0.37	416
W65U2	2	25.85	72	75	0.36	417
WUNIAVE2	3	44.32	157	164	0.28	418
WWASHST2	4	168.35	614	1,698	0.27	419
WCORTLT2	5	409.15	1,524	861	0.27	420

2024 WESTCHESTER NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 2.00 HOURS
NUMBER OF NON-NETWORK FEEDERS: 603

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
W55U1	3	279.13	1,052	735	0.27	421
W89U4	3	155.22	602	646	0.26	422
W53U2	1	61.53	284	577	0.22	423
W34U1	2	30.40	147	154	0.21	424
W99U4	1	6.80	34	463	0.20	425
WHAMLTN2	2	40.60	209	374	0.19	426
W74U4	2	32.40	171	281	0.19	427
W61U2	2	117.82	689	721	0.17	428
W79U1	1	3.33	20	1,522	0.17	429

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

SECTION 3

BROOKLYN/QUEENS REGION

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BROOKLYN/QUEENS ELECTRIC OPERATING REGION

GENERAL

The Brooklyn/Queens Electric Operating Region is comprised of Brooklyn, which covers an area of 70 square miles and has an estimated population of 3,101,060 people, and Queens, which covers approximately 102 square miles, and has an estimated population of 3,919,290 people.

ELECTRIC DISTRIBUTION SYSTEM

In 2024, the Brooklyn Electric Operations Service area supplied electric service to a total of 1,040,176,[1] electric customers (940,074 network and 100,102 non-network customers). Of these, 84% are residential customers and 16% are commercial customers.

In 2024, the Queens Electric Operations Service area supplied electric service to a total of 824,125[1] customers (607,427 network and 216,698 non-network). Of these customers, 86% are residential customers and 14% are commercial customers.

Brooklyn's distribution system is comprised of:

- 6 Area substations
- 11 Network/Load areas
- 15 4 kV Unit substations
- 91 4kV and 27 kV Non-Network Feeders
- 173 27 kV Network Feeders[2]

Queens' distribution system[3] is comprised of:

- 7 Area substations
- 9 Network/Load areas
- 7 4 kV Multibank substations
- 58 4 kV Unit substations
- 238 4kV and 27kV non network Feeders
- 195 27 kV network Feeders

CAPITAL AND OPERATING MAINTENANCE INVESTMENTS

The following table outlines the Brooklyn/Queens budgeted and actual/capital and operating maintenance investment over the last five years.

[1] Customer Served as of 12/31/2023, as per general accounting.
[2] Some distribution feeders supply both network and non-network load.
[3] Richmond Hill network is counted in Queens.

SYSTEM RELIEF AND RELIABILITY CAPITAL EXPENDITURES ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
RELIEF										
Area Substations	871	5,015	175	2,656	0	1,800	88	2,000	53	0
Primary Feeders	3,011	1,925	603	1,925	1,424	1,925	36	2,675	1,173	2,715
4KV Substations	0	0	0	0	0	0	0	0	0	0
4KV Feeders	0	0	0	0	0	0	0	0	0	0
Transformers	9,851	5,910	3,995	5,881	6,656	5,881	6,023	6,588	6,409	6,588
<$100K Load Relief	0	0	0	0	0	0	0	0	0	0
Sub-Total	**13,733**	**12,850**	**4,773**	**10,462**	**8,081**	**9,606**	**6,148**	**11,263**	**7,635**	**9,303**
RELIABILITY										
HiPot/Oil Minders	378	322	338	322	626	322	792	261	267	267
PILC	0	0	0	0	0	0	0	0	0	0
Underground Secondary Reliability Program	7,855	26,756	6,864	21,562	8,508	13,792	8,556	14,535	4,902	14,086
Remote Monitoring System	765	1,240	282	534	810	534	2,379	945	241	945
Targeted Primary DBC Replacement	0	0	0	0	0	0	0	0	0	0
Other Reliability	12,307	3,072	16,490	8,405	13,784	20,341	23,214	33,268	12,545	33,948
Overhead Reliability	2,522	2,976	3,009	3,250	3,465	5,000	8,039	10,091	8,727	12,258
Secondary Open Mains	59,690	56,387	67,443	56,391	77,209	52,501	67,179	54,984	75,798	60,108
Sub-Total	**83,517**	**90,753**	**94,426**	**90,464**	**104,403**	**92,491**	**110,213**	**114,084**	**102,479**	**121,613**
Total	**97,250**	**103,603**	**99,199**	**100,926**	**112,484**	**102,096**	**116,361**	**125,347**	**110,115**	**130,916**

SELECTED MAINTAINENCE PROGRAMS ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
Tree Trimming	279	0	0	0	0	0	21	0	0	0
Overhead Facilities	12	235	532	642	688	489	1,036	741	412	521
CINDE	2,090	2,742	2,026	1,904	3,866	2,175	2,040	2,523	2,271	3,160
Underground Inspection Program	98	0	1,283	4,137	3,824	6,435	3,943	3,525	1,403	3,525
Underground Repair Program	984	1,579	925	4,552	702	2,944	1,398	908	510	908
Stray Voltage Program*	0	0	0	0	0	0	0	0	0	0
Total	**3,463**	**4,556**	**4,766**	**11,235**	**9,080**	**12,043**	**8,439**	**7,695**	**4,597**	**8,112**

*Includes Manual/Mobile Stray (or Contact) Voltage Program

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BROOKLYN

2024 ELECTRIC SERVICE RELIABILITY REPORT

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BROOKLYN ELECTRIC OPERATIONS SERVICE AREA

NON-NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below shows Brooklyn's non-network distribution system performance levels for the last five-years. System performance excludes major storms, all of which are listed in section 1.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	488	293	307	165	399	**450**
CAIDI	1.99	2.48	1.66	2.06	1.95	**1.50 Hrs**

NON-NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the non-network system SAIFI was 399 per 1,000 customers served. This performance is better than the threshold of 450.

NON-NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the non-network system CAIDI was 1.95 hours. This performance is higher than the threshold of 1.50 hours. Some of the largest outages that drove this performance are:

- From January 25th to 28th, 200 customers were affected for an average duration of 10.82 hours during wind/rainstorms. These outages did not qualify for major storm exclusion.
- From June 14th to 15th, 3,518 customers were affected for an average duration of 3.49 hours during rain/thunderstorms. These outages did not qualify for major storm exclusion.
- On October 10th, 5,816 customers were affected for an average duration of 2.18 hours due to a traffic accident not under the utility's control.

NON-NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

NON-NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	28,092	38%	749	3%	295	1%	166	1%	662	2%
2	Tree Contact	5,549	7%	1,149	4%	800	3%	528	3%	1,609	4%
3	Overloads	169	0%	214	1%	115	0%	0	0%	632	2%
4	Operating or Working Errors	286	0%	0	0%	46	0%	0	0%	0	0%
5	Apparatus or Equipment Failure	25,232	34%	19,024	64%	22,066	71%	11,578	69%	17,639	43%
6	Accidents or Events Not Under Utilities Control	11,802	16%	4,862	16%	5,598	18%	3,847	23%	10,259	25%
7	Pre-arranged	590	1%	535	2%	851	3%	0	0%	406	1%
8	Customer's Equipment or Failure	10	0%	23	0%	118	0%	1	0%	1	0%
9	Lightning	3	0%	1,438	5%	0	0%	0	0%	4,843	12%
10	Unknown or Unclassified	2,755	4%	1,511	5%	1,009	3%	688	4%	4,552	11%
	Non-Network Total	**74,488**		**29,505**		**30,898**		**16,808**		**40,603**	

NON-NETWORK RELIABILITY PROGRAMS

These are some of the reliability and preventive maintenance programs aimed at improving performance of the non-network system in Brooklyn.

System Reinforcement

In 2024, no new Aerial Cable was installed in Brooklyn.

Auto-Loop Reliability

Auto-loop design minimizes the number of customers affected by a permanent fault by automatically reconfiguring and isolating the faulted section. To improve reliability, the following equipment was installed:

- One switch on the Red Hook Loop
- One switch on the Tilden Loop
- One switch on the Gravesend Loop
- One switch on the Madison Loop
- One switch on the Fort Hamilton Loop
- Four 'Trip-savers' were also installed across various circuits to reduce customer outage frequency.

Infrared Inspection Program.

In 2024, twelve (12) 4KV feeders were inspected and scanned with Infrared Scan (IR) and Radio Interference and Frequency Interference (RIFI).

Improved Tree Trimming Program

As part of tree trimming requirements for overhead electric distribution lines (EO-10353), a total of 98 linear miles of tree trimming was completed in Brooklyn.

Auto Loop Vacuum Recloser Inspection Program

In 2024, inspection of two (2) three-phase recloser switches were performed in Brooklyn.

BROOKLYN ELECTRIC OPERATIONS SERVICE AREA
NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below shows Brooklyn's network distribution system performance levels for the last five-years. The performance data excludes Winter Snow/Ice events that meet the 16 NYCRR Part 97 definition (10%/24 hrs.).

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	14.1	20.6	16.1	12.8	14.5	**15**
CAIDI	8.25	7.68	6.48	6.18	6.37	**3.25 Hrs.**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the network system SAIFI was 14.5 per 1,000 customers served. This performance is better than the threshold of 15.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the network system CAIDI was 6.37 hours. This performance is higher than the threshold of 3.25 hours. Some of the largest outages that drove this performance are:

- From March 23rd – 25th, 548 customers were affected for an average duration of 15.70 hours due to heavy rain (1.31"). These outages did not qualify for major storm exclusion.

- On April 30th, 437 customers were affected for an average duration of 6.91 hours due to cable failure.

- On June 17th, 134 customers were affected for an average duration of 7.10 hours due to cable failure.

NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	11,299	57%	7,807	25%	16,066	57%	8,975	58%	7,611	29%
12	Street Mains Cable	7,091	36%	12,401	40%	8,037	29%	5,720	38%	6,841	26%
13	Apparatus or Equipment Failure	386	2%	381	1%	274	1%	59	0%	186	1%
14	Accidents or Events Not Under Utilities Control	853	4%	10,269	33%	3,427	12%	132	1%	11,742	44%
15	Pre-arranged	23	0%	131	0%	301	1%	201	1%	235	1%
16	Customer's Equipment or Failure	36	0%	10	0%	3	0%	7	0%	3	0%
17	Unknown or Unclassified	39	0%	26	0%	86	0%	33	0%	66	0%
	Network Total	**19,727**		**31,025**		**28,194**		**15,127**		**26,684**	

NETWORK RELIABILITY PROGRAMS

The following is a list of the maintenance and reliability programs.

Paper, Lead and XLP Cable Replacement

In 2024, fifty (50) sections of paper and lead primary cable sections were replaced with EPR cable.

Shunt Reactor

Shunt Reactor limits voltage rises on customer and company equipment within acceptable limits, whenever the feeders experience a single-phase or three-phase back-feeding condition. In 2024, the company installed 1 Shunt Reactor in Brooklyn.

Feeder Relief

In 2024, there were three (3) feeders selected for feeder relief in Brooklyn.

Transformer Relief

In 2024, there were forty-one (41) transformers upgraded in Brooklyn.

BROOKLYN

STATUS OF 2023 WORST PERFORMING FEEDERS

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STATUS UPDATE ON 2024 WORST PERFORMING NON-NETWORK FEEDERS

SAIFI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	BREDHOOK1	Performance improved in 2024. No further action required.	2025 SAIFI
Customer Served	801		0.71
3 Yr Avg Cust Affected	786		Target Date
3 Yr Avg SAIFI	0.98		
Feeder No.	BMARINE2	Performance improved in 2024. No further action required.	2025 SAIFI
Customer Served	1,460		0.07
3 Yr Avg Cust Affected	1,256		Target Date
3 Yr Avg SAIFI	0.76		
Feeder No.	BMARINE1	Performance improved in 2024. No further action required.	2025 SAIFI
Customer Served	1,814		0.26
3 Yr Avg Cust Affected	1,008		Target Date
3 Yr Avg SAIFI	0.55		

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STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS

CAIDI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	BDYKER1	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	2,298		2.11
3 Yr Avg Cust Hrs	448		Target Date
3 Yr Avg CAIDI	6.94		
Feeder No.	BMADISON2	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	2,634		1.74
3 Yr Avg Cust Hrs	1,092		Target Date
3 Yr Avg CAIDI	2.88		
Feeder No.	BCROPSEY1	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	921		1.16
3 Yr Avg Cust Hrs	2,566		Target Date
3 Yr Avg CAIDI	2.39		

STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Feeders		Actions to Remedy	Target Date	OA Update
Feeder No.	11B10	Performance improved in 2024.	Complete	2024 Performance
OAs	9			OA Update ---->>>> 0
Duration (Hrs)	178.5			
Feeder No.	4B18	Performance improved in 2024.	Complete	2024 Performance
OAs	5			OA Update ---->>>> 0
Duration (Hrs)	313.2			
Feeder No.	8B81	Performance improved in 2024.	Complete	2024 Performance
OAs	5			OA Update ---->>>> 1
Duration (Hrs)	212.3			
Feeder No.	6B53	Performance improved in 2024. Feeder outages were random in nature. Feeder will be monitored in 2025.	Complete	2024 Performance
OAs	5			OA Update ---->>>> 3
Duration (Hrs)	202.8			
Feeder No.	2B03	Performance improved in 2024.	Complete	2024 Performance
OAs	4			OA Update ---->>>> 0
Duration (Hrs)	455.7			
Feeder No.	11B08	Performance improved in 2024.	Complete	2024 Performance
OAs	4			OA Update ---->>>> 0
Duration (Hrs)	267.9			
Feeder No.	10B71	Performance improved in 2024. Feeder outages were random in nature. Feeder will be monitored in 2025.	Complete	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs)	254.2			
Feeder No.	3B88	Performance improved in 2024.	Complete	2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	171.9			

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STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Feeders		Actions to Remedy	Target Date	OA Update
Feeder No.	8B90	Performance did not improved in 2024. Feeder outages were random in nature. Feeder will be monitored in 2025.	Complete	2024 Performance
OAs	3			OA Update ---->>>> 4
Duration (Hrs)	157.08			

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2024 WORST PERFORMING FEEDERS

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WORST PERFORMING NON-NETWORK FEEDERS

Included for each worst performing non-network feeders are: the 2022-2024 performance (SAIFI and CAIDI), general description of feeder, 2022-2024 outage and reliability activity, analysis, action plan, and status.

The 2024 worst performing non-network SAIFI and CAIDI feeders are listed below.

SAIFI HISTORY OF 2024[1] WORST PERFORMING NON-NETWORK FEEDERS

PSC SAIFI SERVICE STANDARD: 0.450

Feeder	2022	2023	2024
BCIL1	0.69	0.84	1.34
BREDHOOK1	0.60	1.23	0.71
BGEL1	0.94	0.00	2.05

CAIDI HISTORY OF 2024[2] WORST PERFORMING NON-NETWORK FEEDERS

PSC CAIDI SERVICE STANDARD: 1.50 HOURS

Feeder	2022	2023	2024
BDYKER1	3.25	4.38	2.11
BFORTHAM2	1.81	2.41	3.72
BMADISON2	1.52	4.38	1.74

[1] Source: The PSC 3Yr Average Report (Report 16) SAIFI listings in PSC/CIAS Database
[2] Source: The PSC 3Yr Average Report (Report 16) CAIDI listings in PSC/CIAS Database

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standards: 0.450**

Electric Operations Service Area: Brooklyn

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
1	BCIL1	AL	27	Bensonhurst No. 2	720	667	0.69	0.84	1.34	0.96

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to lightning, followed by mylar balloon, and blown fuse.	Animal	3.9%	3.2%	0.0%	2.3%
	Blown Fuse	0.0%	0.0%	5.0%	1.7%
	Emerg Inter Req	0.0%	14.4%	0.0%	4.8%
	Lightning-Other Equipm	0.0%	0.0%	74.7%	24.9%
	Mylar Balloon	81.1%	0.0%	20.3%	33.8%
	OH Transformer	15.0%	4.6%	0.0%	6.5%
Action Plan	Open Wire	0.0%	77.9%	0.0%	26.0%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
2	BREDHOOK1	AL	27	Plymouth Street	760	675	0.60	1.23	0.71	0.85

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to undetermined or unclassified causes, followed by hardware failure and crossed wire at open wire, underground transformer failure, lightning, secondary rack failure on the pole, and overhead transformer failure.	Comp Not Responsible	0.0%	23.8%	0.0%	7.9%
	Emerg Inter Req	0.0%	36.9%	0.0%	12.3%
	Lightning-Other Equipm	0.0%	0.0%	1.5%	0.5%
	Mylar Balloon	0.0%	36.7%	0.0%	12.2%
	OH Transformer	12.1%	0.0%	0.2%	4.1%
	Open Wire	85.5%	2.6%	29.7%	4.1%
Action Plan	Others	2.4%	0.0%	2.4%	4.1%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Pole Components	0.0%	0.0%	0.9%	4.1%
	Undetermined	0.0%	0.0%	65.4%	4.1%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standards: 0.450**

Electric Operations Service Area: Brooklyn

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
3	BGEL1	AL	27	Bensonhurst No.1	1,225	1,811	0.94	0.00	2.05	1.00

Analysis	**Root Cause**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major causes of interruptions in 2024 were due to emergency interruptions, followed by 3-phase VRS switch failure, bullet/connector failure and crossed wire at open wire, mylar balloon and animal contact.	Animal	0.0%	0.0%	2.9%	1.0%
	Emerg Inter Req	0.0%	0.0%	41.0%	13.7%
	Mylar Balloon	24.8%	0.0%	11.5%	12.1%
	OH Transformer	0.0%	0.0%	0.0%	0.0%
	Open Wire	24.8%	0.0%	14.1%	13.0%
	Primary Feeder	38.7%	0.0%	0.0%	12.9%
Action Plan	Switch	11.7%	0.0%	30.6%	14.1%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

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2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standards: 1.50 Hours**

Electric Operations Service Area: Brooklyn

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
1	BDYKER1	AL	27	Greenwood	2,375	356	3.25	4.38	2.11	3.25

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to overhead transformer failures, followed by blown fuses, and lightning.	Blown Fuse	0.0%	0.0%	45.3%	15.1%
	Lightning-Other Equipm	0.0%	0.0%	1.9%	0.6%
	OH Transformer	5.2%	100.0%	52.8%	52.7%
	Open Wire	83.8%	0.0%	0.0%	27.9%
	Switch	10.9%	0.0%	0.0%	3.6%
Action Plan					
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
2	BFORTHAM2	AL	27	Greenwood	2,738	1,341	1.81	2.41	3.72	2.64

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to mylar balloons, followed by not company's responsibility, and overhead transformer failures.	Animal	6.9%	3.3%	0.0%	3.4%
	Comp Not Responsible	0.0%	0.0%	21.6%	7.2%
	Emerg Inter Req	0.0%	73.5%	0.0%	24.5%
	Mylar Balloon	15.8%	23.2%	76.3%	38.4%
Action Plan	OH Transformer	37.2%	0.0%	2.1%	13.1%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Switch	40.1%	0.0%	0.0%	13.4%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standards: 1.50 Hours**

Electric Operations Service Area: Brooklyn

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
3	BMADISON2	AL	27	Bensonhurst No. 1	2,710	1,195	1.52	4.38	1.74	2.55

Analysis	**Root Cause**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major cause of interruptions in 2024 were due to mylar balloons, followed by overhead transformer failure, tree contact (ON-ROW), undetermined or unclassified causes, and primary joint failure.	Animal	63.3%	0.0%	0.0%	21.1%
	Emerg Inter Req	4.8%	0.0%	0.0%	1.6%
	Mylar Balloon	12.3%	0.0%	56.7%	23.0%
	OH Transformer	0.0%	0.0%	36.6%	12.2%
	ON-ROW	0.0%	0.0%	6.2%	2.1%
	Open Wire	19.6%	18.5%	0.0%	12.7%
Action Plan	Primary Feeder	0.0%	0.0%	0.2%	0.1%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Switch	0.0%	81.5%	0.0%	27.2%
	Undetermined	0.0%	0.0%	0.3%	0.1%

WORST PERFORMING NETWORK FEEDERS

Included for each worst performing network feeders are: the 2022-2024 performances, general description, 2024 outage activity, analysis, action plan, and status.

In 2024, the top 5% of the worst performing network feeders are listed below.

NUMBER OF WORST FEEDERS FOR ALL NETWORKS

Network	No. of Feeders	No. of Worst Feeders		
		2022	2023	2024
Bay Ridge – 8B	16	0	2	1
Borough Hall – 1B	23	1	0	2
Brighton Beach – 11B	10	2	2	0
Crown Heights – 3B	16	0	1	1
Flatbush – 4B	19	0	1	1
Ocean Parkway – 7B	12	0	0	0
Park Slope – 2B	16	0	1	0
Prospect Park – 12B	10	0	0	0
Ridgewood – 5B	15	2	0	2
Sheepshead Bay – 10B	12	0	1	0
Williamsburg – 6B	24	3	1	2
Total	**173**	**8**	**9**	**9**

WORST PERFORMING NETWORK FEEDERS[3]
OPEN AUTOMATIC

Feeder	2022	2023	2024
1B69	0	0	5
1B53	0	1	5
8B90	1	3	4
5B22	0	0	4
6B54	6	1	4
4B05	1	1	4
5B33	2	1	3
3B85	2	1	3
6B52	5	0	3

[3] Source: System Operations Feeder History Database (FMS_CARD/CRA_VIEW)

2024 Worst Performing Network Feeders
Electric Operations Service Area: Brooklyn

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
1	1B69	Borough Hall	Plymouth Street	0	0	5	1.67	37

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing cable section from V-7704 to M-75797 on 04/30/24; replaced joint due to blown 3W1W in M-67095 on 07/02/24; replaced joint in M-10126 on 07/13/24; remake joint in customer manhole MC-10126 on 07/26/24; replaced cable section from area substation breaker cubicle 13N to M-69996 with 750 EPR on 10/02/24.	Cable	2
	Joint	3
	Apparatus	0
	Other	0
	Avg Cost Repair	$22,979

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
2	1B53	Borough Hall	Plymouth Street	0	1	4	1.67	31

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remaking a joint in M-2465 on 2/11/24; replaced defective 1C2/0 XLP cable from M56588 to M-2464 on 2/13/24; remaking a joint in M-17164 on 8/29/24; replace blown Raychem straights in M-2461 on 10/9/24.	Cable	1
	Joint	3
	Apparatus	0
	Other	0
	Avg Cost Repair	$18,288

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Brooklyn

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
3	8B90	Bay Ridge	Greenwood	1	3	4	2.67	51

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing 3-500 cable section from M-6182 to M-6183 on 4/2/2024; replaced 2/0 EPR cable from M-59103 to M-59102 on 4/18/24; replaced joint in M-58836 on 6/21/24; remade joint in M-71517 on 09/11/24.	Cable	2
	Joint	2
	Apparatus	0
	Other	0
	Avg Cost Repair	$26,107

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
4	5B22	Ridgewood	Brownsville No. 1	0	0	4	1.33	49

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing network transformer in VS-5421 on 05/16/24; remaking mechanical half (1/2's) joint in M-1032 on 07/02/24; replacing joints M-3645 on 09/20/24; and replacing cable section from M-70869 to M-71104 on 10/01/24.	Cable	1
	Joint	2
	Apparatus	1
	Other	0
	Avg Cost Repair	$20,787

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Brooklyn

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
5	6B54	Williamsburg	Water Street	6	1	4	3.67	47

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remaking joint in M-4889 on 6/17/24; remaking joint in M-4889 on 7/14/24; remaking joint in M-1626 on 7/16/24; replacing 500 KVA transformer in TM-1742 on 10/16/24.	Cable	0
	Joint	3
	Apparatus	1
	Other	0
	Avg Cost Repair	$12,967

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
6	4B05	Brighton Beach	Bensonhurst No. 2	1	1	4	2.00	42

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing a joint in M-32500 on 01/07/24; replaced cable section with 500 EPR from M-3073 to M-36263 on 02/14/24; remade joint in M-66907 on 07/11/24; replaced cable due to downed wire from P-55246 to P-55249 on 11/26/24.	Cable	2
	Joint	2
	Apparatus	0
	Other	0
	Avg Cost Repair	$19,651

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Brooklyn

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
7	5B33	Ridgewood	Brownsville No. 1	2	1	3	2.00	38

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing network transformers in VS-3719 on 06/01/24, replacing a transformer TM-960 due to blown ESNAs on 09/27/24, replacing transformer V3725 on 11/07/24.	Cable	0
	Joint	0
	Apparatus	3
	Other	0
	Avg Cost Repair	$20,464

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
8	3B85	Crown Heights	Brownsville No. 1	2	1	3	2.00	58

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing transformer due to blown ESNAs and hole in V-7395 on 5/2/24; replacing damaged transformer and damaged ESNA in VS-7015 on 6/3/24; replace defective 1C2/0 Poly cable section from M-21687 to M-21684 on 8/9/24.	Cable	1
	Joint	0
	Apparatus	2
	Other	0
	Avg Cost Repair	$27,558

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Brooklyn

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
9	6B52	Williamsburg	Water Street	5	0	3	2.67	58

Analysis

The repairs performed due to the open auto failures consisted of replacing a transformer due to blown ESNA at VS-8394 on 3/21/24; replacing defective 1C2/0 XLP cable from M-64206 to M-216 on 3/26/24; replacing defective 1C500 XLP cable from M-3153 to M-78335 on 9/20/24.

Failure & Avg Cost to Repair	
Cable	2
Joint	0
Apparatus	1
Other	0
Avg Cost Repair	$34,652

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

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2024 PERFORMANCE REPORTS

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2024 BROOKLYN WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
BCIL1	720	0.69	0.84	1.34	0.96	3	1
BREDHOOK1	760	0.60	1.23	0.71	0.85	3	2
BGEL1	1,225	0.94	0.00	2.05	1.00	2	3
BCIL2	1,400	0.00	0.00	3.00	1.00	1	4
BSD3138	265	0.00	0.00	2.21	0.74	1	5
BTILDEN1	3,154	0.00	0.00	2.21	0.74	1	6
BSHELLRD2	739	0.00	0.00	2.00	0.67	1	7
BSD3133	289	0.00	0.00	1.74	0.58	1	8
BSD3134	411	0.00	0.00	1.47	0.49	1	9
BSD3137	149	0.00	0.00	1.39	0.46	1	10
BMIDWOOD1	4,014	0.00	0.00	1.31	0.44	1	11
BQL18	224	0.00	0.00	0.99	0.33	1	12
BREDHOOK2	1,014	0.00	0.00	0.95	0.32	1	13
BVORHIE1	1,539	0.00	0.00	0.78	0.26	1	14
BDYKER2	3,794	0.00	0.00	0.75	0.25	1	15
B3052	890	0.00	0.00	0.69	0.23	1	16
BQL7	475	0.00	0.00	0.58	0.19	1	17
BVORHIE2	1,952	0.00	0.00	0.49	0.16	1	18

Note: Only feeders with a 2024 SAIFI greater than the PSC Service Standard and at least 2 outages are listed.

2024 BROOKLYN WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
BDYKER1	2,375	3.25	4.38	2.11	3.25	3	1
BFORTHAM2	2,738	1.81	2.41	3.72	2.64	3	2
BMADISON2	2,710	1.52	4.38	1.74	2.55	3	3
BTILDEN2	1,525	0.00	3.85	2.78	2.21	2	4
BREDHOOK1	760	3.37	0.00	2.68	2.02	2	5
B3025	923	1.78	0.00	3.76	1.85	2	6
BVORHIE2	1,952	0.00	2.01	2.46	1.49	2	7
BTILDEN1	3,154	0.00	1.99	1.71	1.23	2	8
BSD3134	411	0.00	0.00	4.23	1.41	1	9
BDYKER2	3,794	0.00	0.00	3.83	1.28	1	10
BSD3137	149	0.00	0.00	3.02	1.01	1	11
B3042	194	0.00	0.00	2.95	0.98	1	12
BSD3112	1,201	0.00	0.00	2.68	0.89	1	13
BFORTHAM1	2,840	0.00	0.00	2.50	0.83	1	14
B3054	931	0.00	0.00	2.02	0.67	1	15
BMIDWOOD1	4,014	0.00	0.00	1.94	0.65	1	16
BMARINE1	1,846	0.00	0.00	1.81	0.60	1	17
BGEL1	1,225	0.00	0.00	1.76	0.59	1	18
BMADISON1	1,851	0.00	0.00	1.72	0.57	1	19
BQL18	224	0.00	0.00	1.62	0.54	1	20

Note: Only feeders with a 2024 CAIDI greater than the PSC Service Standard and at least 2 outages are listed.

2024 BROOKLYN NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
BCIL2	3	3,875.40	4,199	1,400	3.00	1
BTILDEN1	11	11,885.27	6,970	3,154	2.21	2
BSD3138	4	637.05	585	265	2.21	3
BGEL1	7	4,426.92	2,517	1,225	2.05	4
BSHELLRD2	2	1,748.97	1478	739	2.00	5
BSD3133	2	383.87	503	289	1.74	6
BSD3134	6	2,555.07	604	411	1.47	7
BSD3137	2	625.97	207	149	1.39	8
BCIL1	3	1,314.33	964	720	1.34	9
BMIDWOOD1	13	10,185.82	5,256	4,014	1.31	10
BSD3162	1	5.07	2	2	1.00	11
BQL18	2	359.60	222	224	0.99	12
BGREENPT2	1	453.33	272	284	0.96	13
BREDHOOK2	3	1,323.27	966	1,014	0.95	14
BSD3135	1	654.50	170	182	0.93	15
BVORHIE1	3	222.90	1,193	1,539	0.78	16
BDYKER2	5	10,875.30	2841	3,794	0.75	17
BREDHOOK1	8	1,457.68	543	760	0.71	18
BQL9	1	253.97	401	567	0.71	19
B3052	4	417.50	610	890	0.69	20
BQL7	2	247.18	277	475	0.58	21
BQL16	1	104.65	161	283	0.57	22
B3056	1	334.78	379	675	0.56	23
BQL19	1	1,087.20	453	904	0.50	24
BVORHIE2	4	2,375.53	964	1,952	0.49	25
BQL17	1	273.00	126	327	0.39	26
B3046	2	716.80	510	1,371	0.37	27
BGEL2	3	827.67	566	1,627	0.35	28
B3042	2	182.90	62	194	0.32	29
B3054	2	536.83	266	931	0.29	30
BCROPSEY2	4	703.35	853	2,987	0.29	31
BSHELLRD1	2	487.00	330	1,166	0.28	32
BQSPRCREEK1	2	62.60	185	682	0.27	33
BMARINE1	8	855.33	472	1,846	0.26	34
BCROPSEY1	3	229.58	198	944	0.21	35
B3043	2	294.40	227	1,196	0.19	36
BMADISON2	8	807.05	463	2,710	0.17	37
B3025	3	556.38	148	923	0.16	38
BFORTHAM1	3	1,106.82	442	2,840	0.16	39

2024 BROOKLYN NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.45
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
B3006	1	54.13	28	226	0.12	40
BDYKER1	3	502.28	238	2,375	0.10	41
BMARINE2	2	155.05	112	1,512	0.07	42
BSD3112	2	233.27	87	1,201	0.07	43
BMADISON1	3	177.67	103	1,851	0.06	44
BSD3110	1	3.70	1	20	0.05	45
B3007	1	44.00	55	1,207	0.05	46
B3027	1	50.83	25	573	0.04	47
BTILDEN2	3	144.77	52	1,525	0.03	48
B3023	1	38.40	6	199	0.03	49
BMIDWOOD2	1	46.15	39	1,647	0.02	50
BFORTHAM2	3	200.67	54	2,738	0.02	51

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 BROOKLYN NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.5 HOURS
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
B3023	1	38.40	6	199	6.40	1
BSD3134	6	2,555.07	604	411	4.23	2
BSD3135	1	654.50	170	182	3.85	3
BDYKER2	5	10,875.30	2,841	3,794	3.83	4
B3025	3	556.38	148	923	3.76	5
BFORTHAM2	3	200.67	54	2,738	3.72	6
BSD3110	1	3.70	1	20	3.70	7
BSD3137	2	625.97	207	149	3.02	8
B3042	2	182.90	62	194	2.95	9
BTILDEN2	3	144.77	52	1,525	2.78	10
BREDHOOK1	8	1,457.68	543	760	2.68	11
BSD3112	2	233.27	87	1,201	2.68	12
BSD3162	1	5.07	2	2	2.53	13
BFORTHAM1	3	1,106.82	442	2,840	2.50	14
BVORHIE2	4	2,375.53	964	1,952	2.46	15
BQL19	1	1,087.20	453	904	2.40	16
BQL17	1	273.00	126	327	2.17	17
BDYKER1	3	502.28	238	2,375	2.11	18
B3027	1	50.83	25	573	2.03	19
B3054	2	536.83	266	931	2.02	20
BMIDWOOD1	13	10,185.82	5,256	4,014	1.94	21
B3006	1	54.13	28	226	1.93	22
BMARINE1	8	855.33	472	1,846	1.81	23
BGEL1	7	4,426.92	2,517	1,225	1.76	24
BMADISON2	8	807.05	463	2,710	1.74	25
BMADISON1	3	177.67	103	1,851	1.72	26
BTILDEN1	11	11,885.27	6,970	3,154	1.71	27
BGREENPT2	1	453.33	272	284	1.67	28
BQL18	2	359.60	222	224	1.62	29
BSHELLRD1	2	487.00	330	1,166	1.48	30
BGEL2	3	827.67	566	1,627	1.46	31
B3046	2	716.80	510	1,371	1.41	32
BMARINE2	2	155.05	112	1,512	1.38	33
BREDHOOK2	3	1,323.27	966	1,014	1.37	34
BCIL1	3	1,314.33	964	720	1.36	35
B3043	2	294.40	227	1,196	1.30	36
BSHELLRD2	2	1,748.97	1,478	739	1.18	37

2024 BROOKLYN NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.5 HOURS
NUMBER OF NON-NETWORK FEEDERS: 91

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
BMIDWOOD2	1	46.15	39	1,647	1.18	38
BCROPSEY1	3	229.58	198	944	1.16	39
BSD3138	4	637.05	585	265	1.09	40
BCIL2	3	3,875.40	4,199	1,400	0.92	41
BQL7	2	247.18	277	475	0.89	42
B3056	1	334.78	379	675	0.88	43
BCROPSEY2	4	703.35	853	2,987	0.82	44
B3007	1	44.00	55	1,207	0.80	45
BSD3133	2	383.87	503	289	0.76	46
B3052	4	417.50	610	890	0.68	47
BQL16	1	104.65	161	283	0.65	48
BQL9	1	253.97	401	567	0.63	49
BQSPRCREEK1	2	62.60	185	682	0.34	50
BVORHIE1	3	222.90	1,193	1,539	0.19	51

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 BROOKLYN NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 173
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
1B69	5	346.1	1
1B53	5	345.8	2
8B90	4	237.6	3
5B22	4	182.5	4
6B54	4	158.3	5
4B05	4	150.0	6
5B33	3	313.5	7
3B85	3	252.4	8
6B52	3	228.4	9
8B83	3	225.4	10
5B35	3	196.4	11
4B11	3	186.1	12
3B86	3	143.2	13
6B53	3	136.6	14
1B58	3	126.3	15
6B47	3	78.0	16
1B51	2	452.3	17
7B51	2	399.1	18
6B57	2	282.9	19
2B09	2	214.4	20
8B84	2	205.1	21
11B03	2	164.0	22
10B64	2	159.4	23
4B06	2	140.4	24
2B15	2	138.7	25
8B91	2	137.3	26
4B01	2	135.6	27
6B49	2	132.7	28
8B80	2	131.7	29
7B52	2	104.6	30
10B66	2	89.4	31
5B21	2	89.1	32
8B88	2	81.3	33
3B91	2	69.5	34
8B86	2	56.4	35
1B54	2	52.8	36
4B14	2	44.3	37

2024 BROOKLYN NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 173
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
3B84	1	445.4	38
3B93	1	170.2	39
2B06	1	158.9	40
11B07	1	154.9	41
6B51	1	145.8	42
4B13	1	125.9	43
3B82	1	121.1	44
7B43	1	116.1	45
10B61	1	105.3	46
1B66	1	100.1	47
4B04	1	97.3	48
10B71	1	96.0	49
10B68	1	90.1	50
1B72	1	89.8	51
6B58	1	89.5	52
1B62	1	89.4	53
4B03	1	88.9	54
6B65	1	72.7	55
10B70	1	67.0	56
11B06	1	59.1	57
7B40	1	57.8	58
5B23	1	52.3	59
8B81	1	50.3	60
10B62	1	50.2	61
12B38	1	48.9	62
1B56	1	48.7	63
6B50	1	43.2	64
1B63	1	41.3	65
3B94	1	40.4	66
4B09	1	37.0	67
5B25	1	35.9	68
11B02	1	33.7	69
6B56	1	23.6	70
4B02	1	21.7	71
8B85	1	18.1	72
1B64	1	9.7	73
6B62	1	3.2	74

Note: Only network feeders that expierenced an OA are listed. Outage duration may include added scheduled work after the OA.

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2024 ELECTRIC SERVICE RELIABILITY REPORT

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QUEENS ELECTRIC OPERATIONS SERVICE AREA

NON-NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below shows Queens' non-network system performance levels for the last five-years (2020 – 2024). The system performance excludes all major storms which are listed in section 1.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	364	419	295	283	228	**350**
CAIDI	2.71	2.54	2.93	2.49	2.49	**1.50 Hrs.**

NON-NETWORK SAIFI PERFORMANCE

In 2024, the Queens non-network SAIFI performance was 228 per 1,000 customers served. This performance is better than the threshold of 350.

NON-NETWORK CAIDI PERFORMANCE

In 2024, the network system CAIDI was 2.49 hours. This performance is higher than the threshold of 1.50 hours. Some of the largest outages that drove this performance are:

- From January 9th to 10th, 1,508 customers were interrupted for an average duration of 4.48 hours due to wind/rainstorms. These outages did not qualify for major storm exclusion.

- From January 25th to 28th, 4,307 customers were interrupted for an average duration of 3.60 hours due to wind/rainstorms. These outages did not qualify for major storm exclusion.

- From February 27th to 29th, 2,424 customers were interrupted for an average duration of 2.65 hours due to wind/rainstorms. These outages did not qualify for major storm exclusion.

NON-NETWORK CAUSE CODES

The following table provides the five-year Non-Network history of customer interruptions by PSC cause code.

NON-NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	93,091	55%	10,737	11%	3,535	5%	0	0%	756	2%
2	Tree Contact	5,943	3%	4,431	4%	2,911	4%	850	1%	3,648	7%
3	Overloads	1,077	1%	2,651	3%	47	0%	26	0%	319	1%
4	Operating or Working Errors	0	0%	0	0%	0	0%	0	0%	0	0%
5	Apparatus or Equipment Failure	48,428	28%	60,788	62%	50,912	78%	44,252	73%	37,695	75%
6	Accidents or Events Not Under Utilities Control	15,230	9%	11,921	12%	4,440	7%	11,418	19%	6,097	12%
7	Pre-arranged	3,063	2%	1,004	1%	812	1%	326	1%	97	0%
8	Customer's Equipment or Failure	12	0%	3	0%	1	0%	2	0%	4	0%
9	Lightning	1,197	1%	2,242	2%	430	1%	1,392	2%	0	0%
10	Unknown or Unclassified	1,918	1%	4,916	5%	2,506	4%	1,945	3%	1,648	3%
	Non-Network Total	**169,959**		**98,693**		**65,594**		**60,211**		**50,264**	

NON-NETWORK RELIABILITY PROGRAMS

These are some of the reliability and preventive maintenance programs aimed at improving performance of the non-network system in Queens.

System Reinforcement

In 2024, 33 spans of Aerial Cable were installed and 25 spans of OW were replaced across various circuits.

Auto loop Reliability

Auto-loop design minimizes the number of customers affected by a permanent fault by automatically reconfiguring and isolating the faulted section. In 2024, there were a few projects to reduce customer outage frequency and duration on the auto-loop systems in Queens. The Juniper Valley Loop split was completed which included the installation of 11 VRSs and 8 Kyle switches. This also established the new Fresh Pond Loop. Six (6) 'Trip-savers' were also installed across various circuits to reduce customer outage frequency.

Infrared Inspection Program

In 2024, eighty-One (81) feeders were inspected and scanned with Infrared Scan (IR) and Radio Interference and Frequency Interference (RIFI).

Improved Tree Trimming Program

As part of tree trimming requirements for overhead electric distribution lines (EO-10353), a total of 185 linear miles of tree trimming was completed in the Queens region.

Auto Loop Vacuum Recloser Inspection Program

In 2024, routine inspection of five (5) three-phase recloser switches were performed in Queens.

QUEENS ELECTRIC OPERATIONS SERVICE AREA

NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below shows Queen's network distribution system performance levels for the last five-years. The performance data excludes Winter Snow/Ice events that meet the 16 NYCRR Part 97 definition (10%/24 hrs.).

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	11.6	11.0	14.8	11.3	16.7	**8**
CAIDI	13.11	7.60	6.79	9.87	9.67	**3.25 Hrs.**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, the network system SAIFI was 16.7 per 1,000 customers served. This performance is higher than the threshold of 8. Some of the largest outages that drove this performance are:

- From July 14th to 17th, 2,183 customers were interrupted for an average of 9.26 hours due to a heatwave. These outages did not qualify for major storm exclusion.
- On August 2nd, 485 customers were interrupted for an average duration of 39.50 hours due cable section failure and manhole fire.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, the network system CAIDI was 9.67 hours. This performance is higher than the threshold of 3.25 hours. Some of the largest outages that drove this performance are:

- On January 9th, 348 customers were interrupted for an average duration of 12.95 hours due secondary riser failure at open wire.
- On August 2nd, 485 customers were interrupted for an average duration of 39.50 hours due to cable failure.

NETWORK CAUSE CODES

The following table provides the five-year network history of customer interruptions by PSC cause code.

NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	4,301	36%	3,583	29%	6,052	58%	2,595	37%	4,774	36%
12	Street Mains Cable	5,280	45%	4,226	35%	3,996	38%	4,169	60%	5,311	40%
13	Apparatus or Equipment Failure	196	2%	251	2%	65	1%	50	1%	63	0%
14	Accidents or Events Not Under Utilities Control	2,016	17%	4,111	34%	115	1%	87	1%	3,025	23%
15	Pre-arranged	0	0%	20	0%	107	1%	0	0%	67	1%
16	Customer's Equipment or Failure	3	0%	9	0%	3	0%	1	0%	2	0%
17	Unknown or Unclassified	31	0%	32	0%	76	1%	26	0%	51	0%
	Network Total	**11,827**		**12,232**		**10,414**		**6,928**		**13,293**	

NETWORK RELIABILITY PROGRAMS

The following is a list of new and existing maintenance and reliability programs in Queens.

Paper, Lead and XLP Cable Replacement

In 2024, forty- two (42) sections of paper/lead cable were replaced with EPR cable.

Shunt Reactor

Shunt Reactor limits voltage rises on customer and company equipment within acceptable limits, whenever the feeders experience single-phase or three-phase back-feeding conditions. In 2024, the company installed 1 Shunt Reactor in Queens.

Feeder Relief

In 2024, There were no feeders selected for feeder relief in Queens.

Transformer Relief

In 2024, there was one (1) transformer replaced and seven (7) transformers upgraded in Queens.

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STATUS OF 2023 WORST PERFORMING FEEDERS

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STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS

SAIFI PSC MINIMUM STANDARD: 0.350

SAIFI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	QHBERMN1	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	212		1.67
3 Yr Avg Cust Affected	523		Target Date
3 Yr Avg SAIFI	2.49		
Feeder No.	QJNPVLLEY1	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	2,505		1.08
3 Yr Avg Cust Affected	4,663		Target Date
3 Yr Avg SAIFI	1.85		
Feeder No.	QHBERMN2	Performance did not improve in 2024. Performance will be monitored and necessary action will be taken in 2025.	2024 SAIFI
Customer Served	106		5.23
3 Yr Avg Cust Affected	192		Target Date
3 Yr Avg SAIFI	1.82		
Feeder No.	QJNPVLLEY2	Performance did not improve in 2024. Juniper Valley Loop Split has been completed establishing the Fresh Pond Loop to improve reliability.	2024 SAIFI
Customer Served	2,393		1.00
3 Yr Avg Cust Affected	2,259		Target Date
3 Yr Avg SAIFI	0.97		
Feeder No.	QLRELHILL2	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	638		1.26
3 Yr Avg Cust Affected	950		Target Date
3 Yr Avg SAIFI	1.55		
Feeder No.	QMDVILLGE2	Performance did not improve in 2024. Aerial Cable to be installed in 2025 to improve reliability	2024 SAIFI
Customer Served	2,719		0.87
3 Yr Avg Cust Affected	2,473		Target Date
3 Yr Avg SAIFI	0.86		

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STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS

PSC CAIDI Service Standard: 1.50 Hours

CAIDI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	QWHTSTONE1	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	801		2.26
3 Yr Avg Cust Hrs	1,927		Target Date
3 Yr Avg CAIDI	2.96		
Feeder No.	Q5321	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	1,576		2.18
3 Yr Avg Cust Hrs	3,064		Target Date
3 Yr Avg CAIDI	2.64		
Feeder No.	Q7831	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	1,170		0.00
3 Yr Avg Cust Hrs	1746		Target Date
3 Yr Avg CAIDI	4.43		
Feeder No.	Q9765	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	1,519		2.35
3 Yr Avg Cust Hrs	2428		Target Date
3 Yr Avg CAIDI	2.89		
Feeder No.	Q1453	Performance improved in 2024. No further action required.	2024 CAIDI
Customer Served	1,591		0.00
3 Yr Avg Cust Hrs	406		Target Date
3 Yr Avg CAIDI	2.14		
Feeder No.	Q9143	Performance improved in 2023. No further action required.	2024 CAIDI
Customer Served	1,853		1.00
3 Yr Avg Cust Hrs	2239		Target Date
3 Yr Avg CAIDI	2.08		

STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Feeders		Actions to Remedy	Target Date	OA Update
Feeder No. OAs Duration (Hrs.)	9Q41 6 219.2	Performance improved in 2023. Feeder outage was random in nature. Feeder will be monitored in 2024.	Complete	2024 Performance OA Update ---->>>> 5
Feeder No. OAs Duration (Hrs.)	5Q50 4 317.3	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 0
Feeder No. OAs Duration (Hrs.)	9B10 4 291.0	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 0
Feeder No. OAs Duration (Hrs.)	7Q71 4 202.3	Performance did not improve in 2024. Future performance will be monitored. No further action is planned at this time.	Complete	2024 Performance OA Update ---->>>> 6
Feeder No. OAs Duration (Hrs.)	9B17 4 193.1	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 0
Feeder No. OAs Duration (Hrs.)	3Q92 4 116.0	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 2
Feeder No. OAs Duration (Hrs.)	6Q25 4 105.6	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 2
Feeder No. OAs Duration (Hrs.)	5Q59 4 67.5	Performance improved in 2024.	Complete	2024 Performance OA Update ---->>>> 3

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STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Feeders		Actions to Remedy	Target Date	OA Update
Feeder No.	7Q87	Performance improved in 2024.	Complete	2024 Performance
OAs	3			OA Update ---->>>> 2
Duration (Hrs.)	397.2			
Feeder No.	9Q46	Performance improved in 2024.	Complete	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs.)	324.2			

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2024 WORST PERFORMING FEEDERS

WORST PERFORMING NON-NETWORK FEEDERS

Included for each worst performing non-network feeder is: the 2022-2024 performance (SAIFI and CAIDI), general description of feeder, 2022-2024 outage and reliability activity, analysis, action plan, and status.

The 2024 worst performing non-network SAIFI and CAIDI feeders are listed below.

SAIFI HISTORY OF 2024[1] WORST PERFORMING NON-NETWORK FEEDERS

PSC SAIFI SERVICE STANDARD: 0.350

Feeder	2022	2023	2024
QHBERMN2	1.02	1.11	5.23
QJNPVLLEY1	1.15	3.62	1.08
QHBERMN1	2.64	1.29	1.67
Q1202	1.31	0.00	1.90
Q8716	1.09	0.00	2.00
QLRELHILL2	0.00	0.98	1.26

CAIDI HISTORY OF 2024[2] WORST PERFORMING NON-NETWORK FEEDERS

PSC CAIDI SERVICE STANDARD: 1.50 HOURS

Feeder	2022	2023	2024
Q9482	3.08	1.91	4.72
QMDVILLGE2	3.10	3.62	1.55
QWHTSTONE1	2.44	3.05	2.26
QBCHANNEL2	4.74	0.00	4.58
Q9278	0.00	2.17	3.06
Q1986	0.00	2.31	2.85

WORST PERFORMING NETWORK FEEDERS

[1] Source: The PSC 3Yr Average Report (Report 16) SAIFI listings in PSC/CIAS Database
[2] Source: The PSC 3Yr Average Report (Report 16) CAIDI listings in PSC/CIAS Database

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standards: 0.350**

Electric Operations Service Area: Queens

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
1	QHBERMN2	AL	27	Glendale	107	262	1.02	1.11	5.23	2.46

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to emergency interruptions, followed by primary aerial cable failure, mylar balloon, crossed wire on the open wire, animal contact and blown fuse.	Animal	0.0%	0.0%	1.4%	0.5%
	Blown Fuse	0.0%	27.1%	0.2%	9.1%
	Emerg Inter Req	27.8%	55.9%	80.9%	54.9%
	Mylar Balloon	0.0%	0.0%	6.1%	2.0%
	OH Transformer	0.0%	9.3%	0.0%	3.1%
	Open Wire	0.0%	0.0%	2.9%	1.0%
Action Plan	Planned Outage	0.9%	0.0%	0.0%	0.3%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Primary Feeder	30.6%	0.0%	8.6%	13.0%
	Switch	10.2%	7.6%	0.0%	5.9%
	Undetermined	30.6%	0.0%	0.0%	10.2%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
2	QJNPVLLEY1	AL	27	Glendale	1,034	4,347	1.15	3.62	1.08	1.95

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to clamp failures on the open wire, followed by emergency interruptions, undetermined or unclassified causes, and overhead transformer bushing failure .	Animal	0.0%	2.3%	0.0%	0.8%
	Blown Fuse	0.0%	1.2%	0.0%	0.4%
	Emerg Inter Req	0.0%	20.7%	28.6%	16.4%
	OH Transformer	2.6%	6.2%	2.1%	3.6%
	ON-ROW	12.6%	1.0%	0.0%	4.6%
	Open Wire	73.9%	39.2%	41.4%	51.5%
Action Plan	Switch	10.9%	29.4%	0.0%	13.4%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Undetermined	0.0%	0.0%	27.8%	9.3%

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standards: 0.350**

Electric Operations Service Area: Queens

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
3	QHBERMN1	AL	27	Glendale	198	386	2.64	1.29	1.67	1.87

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to trimount transformer failure, followed by blown fuse, arrester failures failures, cut-out switch failure, and bullet failures on the open wire.	Blown Fuse	0.0%	0.0%	18.1%	6.0%
	Emerg Inter Req	22.6%	46.7%	0.0%	23.1%
	OH Transformer	0.0%	0.0%	13.3%	4.4%
	Open Wire	15.8%	52.6%	2.1%	23.5%
	Pole Components	0.0%	0.0%	58.6%	19.5%
	Switch	61.6%	0.7%	7.9%	23.4%

Action Plan

Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
4	Q1202	4 kV Grid	4	Corona No.1	587	614	1.31	0.00	1.90	1.07

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to underground primary cable failure, followed by animal contact, emergency interruptions, and tree work by contractor (ON-ROW).	Animal	0.0%	0.0%	20.2%	6.7%
	Emerg Inter Req	0.0%	0.0%	17.0%	5.7%
	ON-ROW	0.0%	0.0%	11.3%	3.8%
	Pole Components	90.1%	0.0%	0.0%	30.0%
	Primary Feeder	9.9%	0.0%	51.6%	20.5%

Action Plan

Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

2024 Worst Performing Non-Network Feeders **PSC SAIFI Service Standards: 0.350**

Electric Operations Service Area: Queens

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
5	Q8716	4 kV Grid	4	Corona No.1	529	536	1.09	0.00	2.00	1.03

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to primary joint and riser failures.	Open Wire	11.0%	0.0%	0.0%	3.7%
	Primary Feeder	0.0%	0.0%	100.0%	33.3%
	Substation	89.0%	0.0%	0.0%	29.7%

Action Plan
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
6	QLRELHILL2	AL	27	Glendale	629	474	0.00	0.98	1.26	0.75

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to tree contact (OFF-ROW), followed by blown fuses, emergency interruptions, and undetermined or unclassified cause.	Blown Fuse	0.0%	0.0%	30.1%	10.0%
	Emerg Inter Req	0.0%	0.0%	16.4%	5.5%
	Lightning-Other Equipm	0.0%	100.0%	0.0%	33.3%
	OFF-ROW	0.0%	0.0%	48.3%	16.1%
	Undetermined	0.0%	0.0%	5.3%	1.8%

Action Plan
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standards: 1.50 Hours**

Electric Operations Service Area: Queens

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
1	Q9482	4 kV Grid	4	Jamaica	1,594	736	3.08	1.91	4.72	3.24

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to tree contact (OFF-ROW and ON-ROW), followed by CSP transformed failures and cut-out switch failure.	CSP Tripped	0.0%	0.0%	8.3%	2.8%
	Emerg Inter Req	0.0%	19.9%	0.0%	6.6%
	Lightning-Other Equipm	62.5%	0.0%	0.0%	20.8%
	OFF-ROW	0.0%	0.0%	80.8%	26.9%
	ON-ROW	0.0%	0.0%	4.1%	1.4%
	Open Wire	37.5%	0.0%	0.0%	12.5%
Action Plan	Switch	0.0%	80.1%	6.8%	29.0%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
2	QMDVILLGE2	AL	27	Glendale	2,668	5,728	3.10	3.62	1.55	2.76

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to lead switch failure, followed by clamp, hardware and slack failures on the open wire, overhead transformer bushing failure, and animal contact.	Animal	33.6%	1.4%	3.7%	12.9%
	Emerg Inter Req	9.0%	0.0%	0.0%	3.0%
	OH Transformer	31.5%	6.3%	9.9%	15.9%
	Open Wire	0.0%	0.0%	42.9%	14.3%
	Pole Components	9.0%	0.0%	0.0%	3.0%
	Primary Feeder	1.1%	0.0%	0.0%	0.4%
Action Plan	Switch	15.9%	92.3%	43.4%	50.5%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standards: 1.50 Hours**

Electric Operations Service Area: Queens

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
3	QWHTSTONE1	AL	27	Corona No. 1	812	1,821	2.44	3.05	2.26	2.58

Analysis	**Root Cause**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major cause of interruptions in 2024 were due to overhead transformer failure, followed by mylar balloon, and cut-out switch failures.	Blown Fuse	2.8%	2.5%	0.0%	1.8%
	Emerg Inter Req	3.1%	0.0%	0.0%	1.0%
	Lightning-Other Equipm	0.0%	91.3%	0.0%	30.4%
	Mylar Balloon	0.0%	0.0%	40.1%	13.4%
	OH Transformer	0.0%	0.0%	41.9%	14.0%
	Open Wire	84.4%	0.0%	0.0%	28.1%
Action Plan	Others	2.9%	0.0%	0.0%	1.0%
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.	Primary Feeder	0.0%	0.8%	0.0%	0.3%
	Switch	6.8%	5.4%	18.0%	10.1%

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
4	QBCHANNEL2	AL	4	Brownsville No. 1	520	287	4.74	0.00	4.58	3.11

Analysis	**Root Cause**	**2022**	**2023**	**2024**	**3 Yr Avg**
The major cause of interruptions in 2024 were due to hardware failure on the open wire, followed by mylar balloon.	Mylar Balloon	0.0%	0.0%	0.5%	0.2%
	Open Wire	34.3%	0.0%	99.5%	44.6%
	Primary Feeder	65.7%	0.0%	0.0%	21.9%
Action Plan					
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standards: 1.50 Hours**

Electric Operations Service Area: Queens

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
5	Q9278	4 kV Grid	4	Jamaica	1,883	1,111	0.00	2.17	3.06	1.75

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to open wire connector failure, followed by blown fuse.	Blown Fuse	0.0%	0.0%	26.1%	8.7%
	Mylar Balloon	0.0%	87.1%	0.0%	29.0%
	OH Transformer	0.0%	6.6%	0.0%	2.2%
	ON-ROW	0.0%	6.3%	0.0%	2.1%
	Open Wire	0.0%	0.0%	73.9%	24.6%

Action Plan
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs.	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
6	Q1986	4 kV Grid	4	Corona No. 2	714	421	0.00	2.31	2.85	1.72

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The major cause of interruptions in 2024 were due to primary underground cable failures.	OH Transformer	0.0%	14.5%	0.0%	4.8%
	Primary Feeder	0.0%	0.0%	100.0%	33.3%
	Switch	0.0%	85.5%	0.0%	28.5%

Action Plan
Permanent repairs were made in all cases. Performance will be monitored closely and additional action will be taken as needed.

Included for each worst performing network feeder is: the 2022-2024 performance, general description, 2024 outage activity, analysis, action plan, and status.

These ten (10) worst performing 27kV network feeders for 2024 are listed below.

NUMBER OF WORST FEEDERS FOR ALL NETWORKS

Network	No. of Feeders	No. of Worst Feeders		
		2022	2023	2024
Long Island City – 1Q	24	0	0	0
Borden Network – 2Q	16	0	0	0
Rego Park – 3Q	18	2	1	1
Jamaica – 5Q	32	2	2	2
Maspeth – 6Q	26	2	1	1
Flushing – 7Q	28	2	2	2
Richmond Hill – 9B	27	1	2	2
Jackson Heights – 9Q	12	1	2	2
Sunnyside – 10Q	12	0	0	0
Total	**195**	**10**	**10**	**10**

2024 WORST PERFORMING NETWORK FEEDERS[3]
OPEN AUTOMATIC

Feeder	2022	2023	2024
7Q64	1	0	7
9B25	0	2	6
7Q71	1	4	6
9Q41	2	6	5
6Q39	1	1	5
5Q33	1	0	4
3Q88	1	2	4
9Q45	1	0	4
3Q89	0	2	4
7Q85	2	0	4

[3] Source: System Operations Feeder History Database (FMS_CARD/CRA_VIEW)

2024 Worst Performing Network Feeders
Electric Operations Service Area: Queens

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
1	7Q64	Flushing	Corona No. 1	1	0	7	2.67	51

Analysis

The repairs performed due to the open auto failures consisted of remaking a blown joint in M-809 on 4/10/24; replacing defective 1C 500 XLP cable from M-13973 to M-19655 on 4/15/24; replaced blown ESNA A phase on transformer TM-2144 on 6/26/24; replace a blown joint in M-18977 on 9/1/24; remake blown mechanical 1/2's in M-5542 on 9/22/24; replaced defective 1C 500 XLP cable section from M-5542 to M-15529 on 10/28/24; remaking a damages mechanical 1/2's in M-19479 on 12/16/24.

Failure & Avg Cost to Repair	
Cable	2
Joint	4
Apparatus	1
Other	0
Avg Cost Repair	$ 20,833.00

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
2	9B25	Richmond Hill	Brownsville No. 2	0	2	5	2.33	18

Analysis

The repairs performed due to the open auto failures consisted of replacing a transformer in VS-9822 on 5/24/24; replacing a damaged 1C 500 EPR cable section from M-67389 to M-67390 on 9/26/24; replacing a defective 1C 500 EPR cable section from M-67389 to M-67390 on 12/2/24; remake blown joint TYCO straights in M-15454 on 12/16/24; replaced a defective transformer in VS-8845 on 12/189/24.

Failure & Avg Cost to Repair	
Cable	2
Joint	1
Apparatus	2
Other	0
Avg Cost Repair	$26,978

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Queens

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
3	7Q71	Flushing	Corona No. 1	1	4	6	3.67	45

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remaking a blown joint mechanical 1/2's in M-13963 on 3/10/24; installing a blown bushing on C phase on transformer TM-5889 on 6/20/24; replacing defective 1C2/0 XLP cable from M-16336 to M-16334 on 6/23/24; replacing defective 1C500 XLP cable from M-20299 to M-20301 on 6/27/24; replace transformer due to a hole in the unit and blown B phase in TM-4586 on 8/28/24; replacing defective 1C2/0 XLP cable from M-8383 to M-22244 on 10/10/24.	Cable	3
	Joint	1
	Apparatus	2
	Other	0
	Avg Cost Repair	$29,439

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
4	9Q41	Jackson Heights	Corona No. 2	2	6	5	4.33	52

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of undetermined or unclassified causes on 01/17/24 and on 01/18/24; replace blown ESNAs on A & C phases in transformer VS-405 on 1/26/24; replace blown mechanical 1/2's in PB4313 on 2/15/24; replace blown mechanical 1/2's in M-1213 on 3/2/24.	Cable	0
	Joint	2
	Apparatus	1
	Other	2
	Avg Cost Repair	$13,800

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Queens

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
5	6Q39	Maspeth	Glendale	1	1	5	2.33	35

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replacing a defective 1C500 EPR cable from M-1225 to M-15025 on 6/25/24; remaking joint in M-12719 on 7/16/24; remaking joint in M-12718 on 7/29/24; replace transformer in TM-6394 on 10/2/24; install joint due to blown straights in M-18512 on 12/5/24.	Cable	1
	Joint	3
	Apparatus	1
	Other	0
	Avg Cost Repair	$18,723

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
6	5Q33	Jamaica	Jamaica	1	0	4	1.67	49

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of relacing a blown joint mechanical 1/2's in M-5637 on 3/2/24; replace 1C500 EPR cable from M-14150 to M-15269 due to contractor damage on 3/27/24; replace 1C500EPR cable due to contractor damage from M-3042 to M-15269 on 5/1/24; install transformer VS-774 due to blown "CØ" bushing on 5/27/24.	Cable	2
	Joint	1
	Apparatus	1
	Other	0
	Avg Cost Repair	$28,606

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Queens

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
7	3Q88	Rego Park	Corona No. 2	1	2	4	2.33	18

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced a blown joint blown Raychem 3W-1W joint on 7/18/24; replacing defective 1C500 XLP cable from M-14820 to M-14821 on 8/1/24; replace blown Raychem 1W1W joint in M-18915 on 8/15/24; replaced defective 1C500 EPR cable from M-16018 to M-16019 due to contractor damage on 8/21/24.	Cable	2
	Joint	2
	Apparatus	0
	Other	0
	Avg Cost Repair	$26,107

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
8	9Q45	Jackson Heights	Corona No. 2	1	0	4	1.67	59

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remaking a blown joint blown straights in M-11025 on 1/28/24; remaking a blown joint due to blown mechanical 1/2's in M-16380 on 2/29/24; replacing transformer in VS-7445 blown ESNAs on C phase on 5/23/24; replacing a blown joint in M-15233 on 10/15/24.	Cable	0
	Joint	3
	Apparatus	1
	Other	0
	Avg Cost Repair	$12,967

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

2024 Worst Performing Network Feeders
Electric Operations Service Area: Queens

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
9	3Q89	Rego Park	Corona No. 2	0	2	4	2.00	39

Analysis

The repairs performed due to the open auto failures consisted of replaced defective 1C500XLP cable from M-8376 to M-16198 on 2/27/24; replacing defective 1C2/0 XLP cable from M-19680 to M-19669 on 3/3/23; replacing a blown joint due to blown straights in M-19680 on 3/6/24; replacing transformer due to hole in transformer in VS-9158 on 4/16/24.

Failure & Avg Cost to Repair	
Cable	2
Joint	1
Apparatus	1
Other	0
Avg Cost Repair	$28,606

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
10	7Q85	Flushing	Corona No. 1	2	0	4	2.00	37

Analysis

The repairs performed due to the open auto failures consisted of replaced a blown joint due to blown 2W1W in M-11113 on 6/21/24; replaced defective 1C500 XLP cable from M-71411 to M-19905 due to contractor damage on 8/28/24; replace blown joint due to blown Raychem straights in M-19905 on 9/13/24; replaced defective 1C500 EPR cable from M-10390 to M-10389 due to contractor damage on 11/25/24.

Failure & Avg Cost to Repair	
Cable	2
Joint	2
Apparatus	0
Other	0
Avg Cost Repair	$26,107

Action Plan

Permanent repairs were made in all cases. All failures were random in nature. Future performance will be monitored. No further action is planned at this time.

QUEENS

2024 PERFORMANCE REPORTS

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2024 QUEENS WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.35
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
QHBERMN2	107	1.02	1.11	5.23	2.46	3	1
QJNPVLLEY1	1,034	1.15	3.62	1.08	1.95	3	2
QHBERMN1	198	2.64	1.29	1.67	1.87	3	3
Q1202	587	1.31	0.00	1.90	1.07	2	4
Q8716	616	1.09	0.00	2.00	1.03	2	5
QLRELHILL2	629	0.00	0.98	1.26	0.75	2	6
QMDVILLGE2	2,668	0.00	1.23	0.87	0.70	2	7
Q7638	691	0.00	1.05	1.06	0.70	2	8
QSD2703	376	0.00	1.06	1.02	0.69	2	9
QLRELHILL1	608	0.00	0.00	4.43	1.48	1	10
QDGLASTON1	655	0.00	0.00	2.67	0.89	1	11
QWTSTONEW2	438	0.00	0.00	2.00	0.67	1	12
Q8451	1,594	0.00	0.00	1.55	0.52	1	13
QSD2713	870	0.00	0.00	1.49	0.50	1	14
Q2263-1	682	0.00	0.00	1.22	0.41	1	15
QCHEIGHTS2	1,130	0.00	0.00	1.04	0.35	1	16
Q8341	1,403	0.00	0.00	0.97	0.32	1	17
Q1802	146	0.00	0.00	0.84	0.28	1	18
Q7583	545	0.00	0.00	0.68	0.23	1	19
Q8472	809	0.00	0.00	0.65	0.22	1	20
QWFPOND2	1,326	0.00	0.00	0.58	0.19	1	21
Q4421	1,686	0.00	0.00	0.51	0.17	1	22
Q9458	1,642	0.00	0.00	0.47	0.16	1	23
Q6404	603	0.00	0.00	0.45	0.15	1	24

Note: Only feeders with a 2024 SAIFI greater than the PSC Service Standard and at least 2 outages are listed.

2024 QUEENS WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
Q9482	1,594	3.08	1.91	4.72	3.24	3	1
QMDVILLGE2	2,668	3.10	3.62	1.55	2.76	3	2
QWHTSTONE1	812	2.44	3.05	2.26	2.58	3	3
QBCHANNEL2	520	4.74	0.00	4.58	3.11	2	4
QHBERMN1	198	1.68	0.00	3.59	1.76	2	5
Q9278	1,883	0.00	2.17	3.06	1.75	2	6
Q1986	714	0.00	2.31	2.85	1.72	2	7
QCHEIGHTS2	1,130	2.59	0.00	2.37	1.65	2	8
Q8663	1,153	2.46	0.00	2.35	1.60	2	9
Q9359	1,256	3.16	0.00	1.61	1.59	2	10
QLRELHILL2	629	0.00	2.70	1.99	1.56	2	11
Q9344	1,444	0.00	2.17	2.47	1.55	2	12
Q9765	1,500	0.00	2.25	2.35	1.53	2	13
QJNPVLLEY1	1,034	0.00	1.91	2.51	1.47	2	14
Q9458	1,642	2.73	0.00	1.60	1.45	2	15
Q7638	691	0.00	2.18	1.92	1.37	2	16
Q9542	1,659	0.00	2.42	1.65	1.36	2	17
Q9266	1,423	0.00	2.36	1.69	1.35	2	18
QDGLASTON1	655	0.00	1.56	1.99	1.18	2	19
Q9213	2,902	0.00	1.52	1.58	1.03	2	20
Q9257	2,314	0.00	0.00	6.66	2.22	1	21
Q9324	1,922	0.00	0.00	4.66	1.55	1	22
Q5736	1,669	0.00	0.00	3.71	1.24	1	23
QLRELHILL1	608	0.00	0.00	3.12	1.04	1	24
Q8472	809	0.00	0.00	3.09	1.03	1	25
Q1802	146	0.00	0.00	2.91	0.97	1	26
Q6981	1,344	0.00	0.00	2.86	0.95	1	27
Q9335	1,345	0.00	0.00	2.84	0.95	1	28
Q7583	545	0.00	0.00	2.35	0.78	1	29
Q8363	1,196	0.00	0.00	2.31	0.77	1	30
QSD2703	376	0.00	0.00	2.11	0.70	1	31
Q7791	1,051	0.00	0.00	1.97	0.66	1	32
Q1202	587	0.00	0.00	1.97	0.66	1	33
Q2263-1	682	0.00	0.00	1.92	0.64	1	34
QWFPOND2	1,326	0.00	0.00	1.88	0.63	1	35

2024 QUEENS WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WCAIDI	No. of Years over the PSC CAIDI Standard	Rank
Q6262	1,626	0.00	0.00	1.87	0.62	1	36
Q8341	1,403	0.00	0.00	1.75	0.58	1	37
Q8451	1,594	0.00	0.00	1.61	0.54	1	38

Note: Only feeders with a 2024 CAIDI greater than the PSC Service Standard and at least 2 outages are listed.

2024 QUEENS NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.35
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
QHBERMN2	7	364.92	560	107	5.23	1
QLRELHILL1	9	8,398.75	2,692	608	4.43	2
QDGLASTON1	4	3,471.28	1,748	655	2.67	3
Q8716	2	1,776.42	1,232	616	2.00	4
QWTSTONEW2	2	1,055.77	875	438	2.00	5
Q1202	4	2,192.08	1,115	587	1.90	6
QHBERMN1	9	1,187.47	331	198	1.67	7
Q8451	4	3,969.57	2,466	1,594	1.55	8
QSD2713	2	1,924.52	1,293	870	1.49	9
QLRELHILL2	5	1,579.30	795	629	1.26	10
Q2263-1	2	1,598.78	831	682	1.22	11
QJNPVLLEY1	8	2,801.27	1,118	1,034	1.08	12
Q7638	3	1,408.35	735	691	1.06	13
QCHEIGHTS2	2	2,779.57	1,173	1,130	1.04	14
QSD2703	3	804.83	382	376	1.02	15
QJNPVLLEY2	1	3,482.05	1,545	1,545	1.00	16
QSD2714	1	1,740.32	1,788	1,788	1.00	17
Q9143	1	1,839.30	1,846	1,875	0.98	18
QSD2708	1	673.83	311	318	0.98	19
Q2262-1	1	259.23	707	725	0.98	20
Q9825	1	1,075.00	516	530	0.97	21
Q8341	2	2,380.87	1,357	1,403	0.97	22
QMDVILLGE2	6	3,590.55	2,317	2,668	0.87	23
Q1802	2	357.72	123	146	0.84	24
Q7583	2	876.78	373	545	0.68	25
QSD2707	1	957.35	467	716	0.65	26
Q8472	2	1,630.30	527	809	0.65	27
Q1205	1	234.05	151	235	0.64	28
Q8201	1	91.25	73	120	0.61	29
Q5701	1	985.42	473	782	0.60	30
QWFPOND2	2	1,453.13	772	1,326	0.58	31
Q4421	3	1,021.67	864	1,686	0.51	32
Q7934	1	569.67	420	853	0.49	33
Q9458	3	1,235.30	770	1,642	0.47	34
Q6404	2	389.37	274	603	0.45	35
QSD2704	1	520.47	422	998	0.42	36
Q9261	1	373.65	477	1,184	0.40	37
Q7705	1	350.13	202	638	0.32	38

2024 QUEENS NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.35
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
QWFPOND1	1	774.00	344	1,163	0.30	39
Q9344	12	1,014.18	410	1,444	0.28	40
Q9542	4	752.10	455	1,659	0.27	41
Q8622	1	308.80	386	1,434	0.27	42
Q9335	2	988.87	348	1,345	0.26	43
QBCHANNEL2	2	490.28	107	520	0.21	44
Q4654	1	535.73	313	1,589	0.20	45
QWTSTONEW1	1	124.20	92	521	0.18	46
Q9482	4	1,227.65	260	1,594	0.16	47
Q6981	3	626.20	219	1,344	0.16	48
Q5605	1	506.00	220	1,405	0.16	49
QWHTSTONE1	3	280.55	124	812	0.15	50
Q1201	1	40.85	43	287	0.15	51
Q6262	3	436.50	233	1,626	0.14	52
Q9765	4	495.62	211	1,500	0.14	53
Q9278	2	792.83	259	1,883	0.14	54
Q9359	3	277.20	172	1,256	0.14	55
Q1871	1	79.20	54	424	0.13	56
Q1592	1	411.60	196	1,566	0.13	57
Q7467	1	44.50	10	86	0.12	58
Q1986	2	236.65	83	714	0.12	59
QLIBPARK1	2	87.80	59	569	0.10	60
Q4284	1	305.50	141	1,623	0.09	61
Q5321	1	270.73	124	1,593	0.08	62
Q7374	1	448.93	28	383	0.07	63
Q7791	2	147.70	75	1,051	0.07	64
Q8601	1	318.27	44	628	0.07	65
Q5607	1	197.08	43	622	0.07	66
Q8351	1	37.33	14	209	0.07	67
Q5736	2	393.07	106	1,669	0.06	68
Q9266	2	143.90	85	1,423	0.06	69
Q5795	1	53.10	54	942	0.06	70
Q8663	3	141.22	60	1,153	0.05	71
Q9213	4	224.42	142	2,902	0.05	72
Q9257	2	739.70	111	2,314	0.05	73
Q6846	1	169.58	55	1,273	0.04	74
Q8172	1	6.93	26	638	0.04	75
QCENVILLE2	1	112.75	33	857	0.04	76

2024 QUEENS NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.35
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
Q5604	1	179.67	55	1,463	0.04	77
Q8363	2	101.47	44	1,196	0.04	78
QSD2738	1	242.27	23	650	0.04	79
Q9850	1	72.83	46	1,386	0.03	80
Q6613	1	34.47	44	1354	0.03	81
Q4256	1	103.25	35	1,104	0.03	82
Q9324	2	256.28	55	1,922	0.03	83
Q9923	1	474.00	40	1,438	0.03	84
Q9527	1	141.78	47	1,916	0.02	85
Q9468	1	65.17	46	1,985	0.02	86
Q4787	1	88.00	24	1,039	0.02	87
Q9495	2	54.32	37	1,631	0.02	88
Q5481	1	194.37	34	1,534	0.02	89
Q1497	1	2.93	22	1,000	0.02	90
Q9732	1	79.95	39	2,049	0.02	91
Q6421	1	90.85	23	1,236	0.02	92
Q9567	1	82.42	43	2,356	0.02	93
Q9125	1	252.27	32	1,829	0.02	94
Q9317	1	104.00	39	2,276	0.02	95
Q9231	1	67.77	19	1,375	0.01	96
Q8581	1	34.60	12	972	0.01	97
Q9246	1	23.80	14	1,457	0.01	98
Q8263	1	20.88	7	741	0.01	99
Q6402	1	2.35	1	112	0.01	100
Q8274	1	61.33	16	2,109	0.01	101
Q8423	1	53.17	11	1,522	0.01	102
QBSTAR2	1	74.67	4	749	0.01	103
QBCHANNEL1	1	2.68	1	504	0.00	104
Q1294	1	1.32	1	1,054	0.00	105

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 QUEENS NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
QBSTAR2	1	74.67	4	749	18.67	1
Q7374	1	448.93	28	383	16.03	2
Q9923	1	474.00	40	1,438	11.85	3
QSD2738	1	242.27	23	650	10.53	4
Q9125	1	252.27	32	1,829	7.88	5
Q8601	1	318.27	44	628	7.23	6
Q9257	2	739.70	111	2,314	6.66	7
Q5481	1	194.37	34	1,534	5.72	8
Q8423	1	53.17	11	1,522	4.83	9
Q9482	4	1,227.65	260	1,594	4.72	10
Q9324	2	256.28	55	1,922	4.66	11
Q5607	1	197.08	43	622	4.58	12
QBCHANNEL2	2	490.28	107	520	4.58	13
Q7467	1	44.50	10	86	4.45	14
Q6421	1	90.85	23	1,236	3.95	15
Q8274	1	61.33	16	2,109	3.83	16
Q5736	2	393.07	106	1,669	3.71	17
Q4787	1	88.00	24	1,039	3.67	18
QHBERMN1	9	1,187.47	331	198	3.59	19
Q9231	1	67.77	19	1,375	3.57	20
QCENVILLE2	1	112.75	33	857	3.42	21
Q5604	1	179.67	55	1,463	3.27	22
QLRELHILL1	9	8,398.75	2,692	608	3.12	23
Q8472	2	1,630.30	527	809	3.09	24
Q6846	1	169.58	55	1,273	3.08	25
Q9278	2	792.83	259	1,883	3.06	26
Q9527	1	141.78	47	1,916	3.02	27
Q8263	1	20.88	7	741	2.98	28
Q4256	1	103.25	35	1,104	2.95	29
Q1802	2	357.72	123	146	2.91	30
Q8581	1	34.60	12	972	2.88	31
Q6981	3	626.20	219	1,344	2.86	32
Q1986	2	236.65	83	714	2.85	33
Q9335	2	988.87	348	1,345	2.84	34
QBCHANNEL1	1	2.68	1	504	2.68	35
Q8351	1	37.33	14	209	2.67	36
Q9317	1	104.00	39	2,276	2.67	37
QJNPVLLEY1	8	2,801.27	1,118	1,034	2.51	38

2024 QUEENS NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
Q9344	12	1,014.18	410	1,444	2.47	39
QCHEIGHTS2	2	2,779.57	1,173	1,130	2.37	40
Q8663	3	141.22	60	1,153	2.35	41
Q7583	2	876.78	373	545	2.35	42
Q6402	1	2.35	1	112	2.35	43
Q9765	4	495.62	211	1,500	2.35	44
Q8363	2	101.47	44	1,196	2.31	45
Q5605	1	506.00	220	1,405	2.30	46
QWHTSTONE1	3	280.55	124	812	2.26	47
QJNPVLLEY2	1	3,482.05	1,545	1,545	2.25	48
QWFPOND1	1	774.00	344	1,163	2.25	49
Q5321	1	270.73	124	1,593	2.18	50
QSD2708	1	673.83	311	318	2.17	51
Q4284	1	305.50	141	1,623	2.17	52
QSD2703	3	804.83	382	376	2.11	53
Q1592	1	411.60	196	1,566	2.10	54
Q9825	1	1,075.00	516	530	2.08	55
Q5701	1	985.42	473	782	2.08	56
QSD2707	1	957.35	467	716	2.05	57
Q9732	1	79.95	39	2,049	2.05	58
QLRELHILL2	5	1,579.30	795	629	1.99	59
QDGLASTON1	4	3,471.28	1,748	655	1.99	60
Q7791	2	147.70	75	1,051	1.97	61
Q1202	4	2,192.08	1,115	587	1.97	62
Q2263-1	2	1,598.78	831	682	1.92	63
Q9567	1	82.42	43	2,356	1.92	64
Q7638	3	1,408.35	735	691	1.92	65
QWFPOND2	2	1,453.13	772	1,326	1.88	66
Q6262	3	436.50	233	1,626	1.87	67
Q8341	2	2,380.87	1,357	1,403	1.75	68
Q7705	1	350.13	202	638	1.73	69
Q4654	1	535.73	313	1,589	1.71	70

2024 QUEENS NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 238

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
Q9246	1	23.80	14	1,457	1.70	71
Q9266	2	143.90	85	1,423	1.69	72
Q9542	4	752.10	455	1,659	1.65	73
Q9359	3	277.20	172	1,256	1.61	74
Q8451	4	3,969.57	2,466	1,594	1.61	75
Q9458	3	1,235.30	770	1,642	1.60	76
Q9850	1	72.83	46	1,386	1.58	77
Q9213	4	224.42	142	2,902	1.58	78
Q1205	1	234.05	151	235	1.55	79
QMDVILLGE2	6	3,590.55	2,317	2,668	1.55	80
QSD2713	2	1,924.52	1,293	870	1.49	81
QLIBPARK1	2	87.80	59	569	1.49	82
Q9495	2	54.32	37	1,631	1.47	83
Q1871	1	79.20	54	424	1.47	84
Q8716	2	1,776.42	1,232	616	1.44	85
Q6404	2	389.37	274	603	1.42	86
Q9468	1	65.17	46	1,985	1.42	87
Q7934	1	569.67	420	853	1.36	88
QWTSTONEW1	1	124.20	92	521	1.35	89
Q1294	1	1.32	1	1,054	1.32	90
Q8201	1	91.25	73	120	1.25	91
QSD2704	1	520.47	422	998	1.23	92
QWTSTONEW2	2	1,055.77	875	438	1.21	93
Q4421	3	1,021.67	864	1,686	1.18	94
Q9143	1	1,839.30	1,846	1,875	1.00	95
Q5795	1	53.10	54	942	0.98	96
QSD2714	1	1,740.32	1,788	1,788	0.97	97
Q1201	1	40.85	43	287	0.95	98
Q8622	1	308.80	386	1,434	0.80	99
Q9261	1	373.65	477	1,184	0.78	100
Q6613	1	34.47	44	1,354	0.78	101
QHBERMN2	7	364.92	560	107	0.65	102
Q2262-1	1	259.23	707	725	0.37	103
Q8172	1	6.93	26	638	0.27	104
Q1497	1	2.93	22	1,000	0.13	105

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 QUEENS NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 195
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
7Q64	7	428.3	1
9B25	6	544.8	2
7Q71	6	411.2	3
9Q41	5	205.4	4
6Q39	5	177.5	5
5Q33	4	308.1	6
3Q88	4	264.6	7
9Q45	4	231.1	8
3Q89	4	216.2	9
7Q85	4	179.6	10
1Q08	3	288.4	11
6Q43	3	250.3	12
6Q24	3	242.8	13
5Q61	3	232.0	14
5Q59	3	180.4	15
5Q39	3	158.0	16
9B11	3	153.9	17
5Q53	3	133.8	18
3Q98	3	118.9	19
5Q44	3	99.6	20
1Q23	3	99.0	21
5Q31	3	98.2	22
5Q35	3	85.2	23
3Q86	2	502.4	24
3Q93	2	437.8	25
6Q29	2	262.3	26
9B03	2	184.5	27
7Q62	2	175.8	28
7Q90	2	174.2	29
5Q43	2	162.9	30
5Q54	2	155.0	31
9Q42	2	147.4	32
9Q51	2	131.8	33
3Q92	2	130.3	34
2Q13	2	124.2	35
7Q87	2	120.9	36

2024 QUEENS NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 195
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
6Q25	2	116.4	37
6Q40	2	113.1	38
5Q47	2	108.4	39
3Q96	2	104.9	40
9B05	2	103.1	41
1Q16	2	97.4	42
9B15	2	95.9	43
6Q35	2	92.9	44
1Q15	2	85.8	45
6Q41	2	82.2	46
6Q26	2	75.4	47
10Q31	2	60.3	48
3Q82	2	59.6	49
7Q84	2	57.3	50
7Q78	2	56.9	51
7Q72	2	55.6	52
10Q32	2	55.4	53
7Q69	2	54.7	54
5Q48	2	54.4	55
6Q42	2	40.0	56
1Q22	2	34.8	57
9B12	1	342.9	58
2Q11	1	175.8	59
10Q40	1	163.0	60
5Q58	1	112.1	61
6Q34	1	76.2	62
2Q09	1	75.9	63
1Q06	1	71.9	64
2Q04	1	67.5	65
3Q94	1	64.9	66
7Q83	1	61.3	67
9Q47	1	59.6	68
1Q21	1	57.2	69
6Q38	1	56.8	70
6Q44	1	56.4	71
9B23	1	55.9	72

2024 QUEENS NETWORK FEEDER PERFORMANCE REPORT
TOTAL NETWORK FEEDERS = 195
OPEN AUTOMATICS (OA)

Feeder Number	OA COUNT	Total Outage Hours	Ranking
2Q02	1	55.6	73
5Q32	1	55.6	74
6Q36	1	51.8	75
5Q52	1	50.3	76
1Q01	1	49.8	77
5Q38	1	49.5	78
9B13	1	45.8	79
9Q44	1	38.8	80
1Q19	1	38.3	81
9Q46	1	37.7	82
6Q31	1	35.9	83
9B18	1	35.6	84
5Q37	1	35.6	85
1Q25	1	33.6	86
6Q33	1	32.4	87
5Q30	1	30.2	88
5Q46	1	21.8	89
7Q70	1	18.8	90
3Q95	1	14.6	91
3Q85	1	14.3	92
5Q41	1	2.7	93
5Q45	1	0.0	94

Note: Only network feeders that expierenced an OA are listed. Outage duration may include added scheduled work after the OA.

SECTION 4

MANHATTAN REGION

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MANHATTAN ELECTRIC OPERATIONS SERVICE AREA

GENERAL

The Manhattan Electric Operations Service Area covers 23 square miles and has an estimated population of 1,708,590 people.

ELECTRIC DISTRIBUTION SYSTEM

In 2024, the Manhattan Electric Operations Service Area supplied electric service to a total of 768,030[1] electric network customers. Of these, 82% are residential and 18% are commercial customers.

The Manhattan primary distribution system is comprised of

- 26 Area Substations
- 39 Secondary Networks[2]
- 662 13kV Network Feeders[3]
- 10 13kV Non-Network Feeders

CAPITAL AND OPERATING MAINTENANCE INVESTMENTS

The following table outlines Manhattan's budgeted and actual capital expenses and maintenance operating expenses over the last five years.

[1] Customers served as of December 31, 2023, as per General Accounting
[2] Includes the Freedom network.
[3] Includes 8 network feeders from the Freedom network and Randall's Island became part of West Bronx (2X) network.

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SYSTEM RELIEF AND RELIABILITY CAPITAL EXPENDITURES ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
RELIEF										
Area Substations	358	8,500	170	4,980	5,152	2,501	2,740	16,000	9,006	2,000
Primary Feeders	154	1,064	53	500	49	1,065	378	1,480	17	1,502
4KV Substations	0	0	0	0	0	0	0	0	0	0
4KV Feeders	0	0	0	0	0	0	0	0	0	0
Transformers	264	2,296	841	1,000	745	2,026	2,436	1,605	480	1,694
<$100K Load Relief	0	0	0	0	0	0	0	0	0	0
Sub-Total	**776**	**11,860**	**1,064**	**6,480**	**5,946**	**5,592**	**5,554**	**19,085**	**9,503**	**5,196**
RELIABILITY										
HiPot/Oil Minders	820	1,266	654	1,266	714	1,266	2,235	1,207	2,042	1,050
PILC	0	0	0	0	0	0	0	0	0	0
Underground Secondary Reliability Program	7,577	11,059	4,517	8,500	5,998	4,772	7,818	4,988	4,464	5,423
Remote Monitoring System	1,248	806	880	1,000	538	806	749	1,426	1,402	1,426
Targeted Primary DBC Replacement	0	0	0	0	0	0	0	0	0	0
Other Reliability	2,565	2,742	2,618	2,966	1,333	2,546	1,219	10,692	1,058	10,960
Overhead Reliability	0	0	0	0	0	0	0	0	0	0
Secondary Open Mains	39,455	55,371	48,197	50,040	52,013	47,947	47,236	51,478	48,254	52,615
Sub-Total	**51,665**	**71,244**	**56,866**	**63,772**	**60,597**	**57,337**	**59,257**	**69,611**	**57,219**	**71,474**
Total	**52,441**	**83,104**	**57,930**	**70,252**	**66,543**	**62,929**	**64,811**	**88,696**	**66,723**	**76,671**

SELECTED MAINTAINENCE PROGRAMS ($000s)

All Regions	2020		2021		2022		2023		2024	
	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget
Tree Trimming	0	0	0	0	0	0	0	0	0	0
Overhead Facilities	0	0	0	0	0	0	4	0	2	0
CINDE	675	777	761	673	709	629	1,346	577	963	934
Underground Inspection Program	21	1	772	1,526	1,023	3,372	908	1,386	266	886
Underground Repair Program	154	557	242	1,024	148	616	338	462	299	462
Stray Voltage Program*	0	0	0	0	1	0	0	0	0	0
Total	**853**	**1,335**	**1,775**	**3,223**	**1,881**	**4,617**	**2,595**	**2,424**	**1,531**	**2,281**

*Includes Manual/Mobile Stray (or Contact) Voltage Program

MANHATTAN ELECTRIC OPERATIONS SERVICE AREA

NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below shows Manhattan's network distribution system performance levels for the last five-years (2020-2024). The performance data excludes Winter Snow/Ice events as outlined in Appendix 18 of CASE-22-E-0064.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	260.4	13.7	12.0	9.4	12.5	**15**
CAIDI	0.66	5.65	5.28	4.23	4.23	**3.75 Hrs.**

NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, Manhattan's network SAIFI performance was 12.5 per 1,000 customers served. This performance is better than the PSC SAIFI Service Standard of 15.

NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, Manhattan's network CAIDI performance was 4.23 hours. This performance was higher than the PSC CAIDI service standard of 3.75 hours. Some of the main drivers for the CAIDI performance were:

- From January 16th to 29th , 1,183 customers were affected for an average duration of 4.04 hours due to wind/rain and snowstorms.
- From June 19th to 23rd, 363 customers were affected for an average duration of 13.34 hours due to heat event.
- From July 14th to 17th, 666 customers were affected for an average duration of 7.18 hours due to a 4-day heatwave.

NETWORK CAUSE CODES

The following table provides the five-year network history of customer interruptions by PSC cause codes:

NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
11	Service Connections	193,015	98%	10,291	69%	5,801	54%	2,758	39%	5,097	49%
12	Street Mains Cable	3,159	2%	4,169	28%	4,937	46%	3,973	56%	5,233	51%
13	Apparatus or Equipment Failure	593	0%	331	2%	4	0%	260	4%	3	0%
14	Accidents or Events Not Under Utilities Control	0	0%	0	0%	0	0%	0	0%	0	0%
15	Pre-arranged	140	0%	137	0%	97	1%	109	2%	0	0%
16	Customer's Equipment or Failure	0	0%	0	0%	0	0%	30	0%	0	0%
17	Unknown or Unclassified	0	0%	3	0%	0	0%	0	0%	0	0%
	Network Total	**196,907**		**14,931**		**10,839**		**7,130**		**10,333**	

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NETWORK RELIABILITY PROGRAMS

In 2024, twenty-nine (29) MG-90 Network Protectors were replaced. Nineteen (19) locations were inspected and deemed as not requiring replacement.

Primary Relief

Randall's Island network was transferred to the West Bronx network.

Paper and Lead Cable Replacement (PILC)

In 2024, a total of 153 sections of PILC cable was replaced.

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STATUS OF 2023 WORST PERFORMING NETWORK FEEDERS

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STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update
Feeder No.	3M47	Performance improved in 2024.	12/18/2024	2024 Performance
OAs	5			OA Update ---->>>> 1
Duration (Hrs)	687.9			
Feeder No.	3M54	Performance improved in 2024.	5/14/2024	2024 Performance
OAs	4			OA Update ---->>>> 1
Duration (Hrs)	924.8			
Feeder No.	7M26	Performance improved in 2024.		2024 Performance
OAs	4			OA Update ---->>>> 0
Duration (Hrs)	309.9			
Feeder No.	21M37	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	1306.3			
Feeder No.	17M86	Performance improved in 2024.	10/22/2024	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs)	527.7			
Feeder No.	6M21	Performance improved in 2024.	5/10/2024	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs)	460.2			
Feeder No.	6M37	Failures were random in nature. Repairs were completed and performance remains the same as 2023. Feeder performance will be monitored.	6/21/2024	2024 Performance
OAs	3			OA Update ---->>>> 3
Duration (Hrs)	407.9			
Feeder No.	13M67	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	363.4			

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STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update
Feeder No.	3M67	Performance improved in 2024.	8/9/2024	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs)	341.0			
Feeder No.	8M55	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	293.4			
Feeder No.	24M79	Failures were random in nature. Repairs were completed and performance remains the same as 2023. Feeder performance will be monitored.	9/21/2024	2024 Performance
OAs	3			OA Update ---->>>> 3
Duration (Hrs)	292.0			
Feeder No.	7M56	Performance improved in 2024.	6/21/2024	2024 Performance
OAs	3			OA Update ---->>>> 2
Duration (Hrs)	251.5			
Feeder No.	3M57	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	245.7			
Feeder No.	23M63	Performance improved in 2024.	4/25/2024	2024 Performance
OAs	3			OA Update ---->>>> 1
Duration (Hrs)	241.2			
Feeder No.	32M85	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	217.8			
Feeder No.	40M33	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	140.6			

STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update
Feeder No.	28M13	Performance improved in 2024.		2024 Performance
OAs	3			OA Update ---->>>> 0
Duration (Hrs)	134.4			
Feeder No.	17M91	Performance improved in 2024.	7/9/2024	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	3128.8			
Feeder No.	17M87	Performance improved in 2024.	2/3/2024	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	437.1			
Feeder No.	5M83	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	413.3			
Feeder No.	3M44	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	409.4			
Feeder No.	24M76	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	321.4			
Feeder No.	40M34	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	305.3			
Feeder No.	19M22	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	263.3			

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STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update
Feeder No.	6M34	Performance improved in 2024.	2/29/2024	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	257.3			
Feeder No.	16M75	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	249.1			
Feeder No.	24M83	Performance improved in 2024.	6/24/2024	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	243.8			
Feeder No.	5M90	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	230.0			
Feeder No.	8M53	Performance improved in 2024.	6/7/2024	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	221.3			
Feeder No.	29M62	Performance improved in 2024.	1/3/2025	2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	215.2			
Feeder No.	10M12	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	204.3			
Feeder No.	7M21	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 0
Duration (Hrs)	201.2			

STATUS UPDATE ON 2023 WORST PERFORMING NETWORK FEEDERS

Worst 5% Fdrs		Actions to Remedy	Target Date	OA Update
Feeder No.	4M72	Performance improved in 2024.		2024 Performance
OAs	2			OA Update ---->>>> 1
Duration (Hrs)	200.0			

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2024 WORST PERFORMING NETWORK FEEDERS

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MANHATTAN ELECTRIC OPERATIONS SERVICE AREA

ANALYSIS OF WORST PERFORMING NETWORK FEEDERS

WORST PERFORMING NETWORK FEEDERS

Each of the worst performing network feeders include the 2022 - 2024 Open Automatics (OA) performance, description of the type of failures associated with the feeder, and the 2024 outage and reliability activity, action planned, and status.

For 2024, the worst performing network feeders were:

1	7M28
2	1M09
3	19M31
4	15M08
5	4M60
6	8M48
7	16M74
8	9M32
9	20M08
10	2M17
11	10M02
12	19M26
13	1M08
14	4M86
15	3M43
16	44M15
17	26M45

18	7M37
19	20M02
20	16M79
21	28M06
22	7M52
23	4M77
24	6M42
25	24M79
26	6M37
27	10M09
28	44M16
29	8M58
30	2M22
31	40M40
32	3M60
33	8M63

NUMBER OF WORST PERFORMING NETWORK FEEDERS PER NETWORK

Network	No. of Feeders	No. of Worst Feeders		
		2022	2023	2024
Washington Heights - 1M	20	1	0	2
Harlem - 2M	28	1	0	2
Yorkville - 3M	29	1	5	2
Grand Central - 4M	24	0	1	3
Times Square - 5M	16	0	2	0
Madison Square - 6M	24	2	3	2
Cooper Square - 7M	26	1	3	3
City Hall - 8M	23	2	2	3
Hunter - 9M	12	0	0	1
Sheridan Square - 10M	16	0	1	2
Plaza - 11M	22	2	0	0
Empire - 12M	12	0	0	0
Chelsea - 13M	27	1	1	0
Cortlandt - 15M	12	1	0	1
Pennsylvania - 16M	27	0	1	2
Central Park - 17M	25	1	3	0
Battery Park City - 18M	12	0	0	0
Rockefeller Center - 19M	12	1	1	2
Sutton - 20M	12	1	0	2
Columbus Circle - 21M	16	1	1	0
Canal - 22M	12	0	0	0
Lincoln Square - 23M	15	0	1	0
Lenox Hill - 24M	28	1	3	1
Turtle Bay - 25M	12	3	0	0
Greeley Square - 26M	12	0	0	1
Fulton - 27M	24	2	0	0
Herald Square - 28M	16	3	1	1
Beekman - 29M	21	0	1	0
Fashion - 30M	12	0	0	0
Roosevelt - 31M	12	0	0	0
Greenwich - 32M	8	1	1	0
Park Place - 34M	12	0	0	0
Hudson - 39M	8	1	0	0
Bowling Green - 40M	18	3	2	1
Freedom Network - 41M	8	0	0	0
Kips Bay - 43M	13	2	0	0
Triboro - 44M	24	0	0	2
Midtown West – 53M	12	1	0	0

OPEN AUTOMATIC
2023 WORST PERFORMING NETWORK FEEEDERS

Feeder	2022	2023	2024
7M28	0	0	5
1M09	2	1	4
19M31	1	0	4
15M08	0	0	4
4M60	1	2	4
8M48	2	0	3
16M74	0	0	3
9M32	1	0	3
20M08	1	0	3
2M17	0	0	3
10M02	1	1	3
19M26	1	0	3
1M08	1	0	3
4M86	0	0	3
3M43	1	1	3
44M15	0	0	3
26M45	0	1	3
7M37	1	0	3
20M02	1	0	3
16M79	0	1	3
28M06	4	0	3
7M52	0	0	3
4M77	1	0	3
6M42	0	0	3
24M79	2	3	3
6M37	0	3	3
10M09	1	0	2
44M16	0	0	2
8M58	0	1	2
2M22	1	1	2
40M40	0	0	2
3M60	1	2	2
8M63	1	0	2

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2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
1	7M28	Cooper Square	Avenue A	0	0	5	1.67	9

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 02/05/24; repaired ESNAS on 02/08/24; replaced straight joint on 02/13/24; remade straight joint on 02/15/24; replaced straight joint at M-26056 on 02/17/24.

Failure & Avg Cost to Repair

Cable	1
Joint	4
Apparatus	0
Other	0
Avg Cost Repair	$11,700

Action Planned

HIPOT waived on 2/8/2024, 2/13/2024, 2/19/2024 ; DC HIPOT successful on 2/15/2024, 2/17/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
2	1M09	Washington Heights	Sherman Creek	2	1	4	2.33	24

Analysis

The repairs performed due to the open auto failures consisted of replaced cable on 01/10/24; isolated feeder section for inspection on 05/22/24; replaced cable section from M-34814 to M-34807 on 09/23/24; remade joint in M-25013 on 12/31/24.

Failure & Avg Cost to Repair

Cable	2
Joint	1
Apparatus	0
Other	1
Avg Cost Repair	$23,500

Action Planned

AC HIPOT successful on 1/12/2024, 9/27/2024, 1/5/2025 ; HIPOT waived on 6/3/2024

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
3	19M31	Rockefeller Center	West 65th Street No. 2	1	0	4	1.67	9

Analysis

The repairs performed due to the open auto failures consisted of remade 3W-1W joint on 07/08/24; remade straight joint on 08/18/24; replaced cable section from M-58444 to M58442 on 11/25/24; remade straight joint in M-62760 on 12/16/24.

Failure & Avg Cost to Repair

Cable	1
Joint	3
Apparatus	0
Other	0
Avg Cost Repair	$13,000

Action Planned

DC HIPOT successful on 7/9/2024 ; HIPOT waived on 8/21/2024, 12/5/2024, 1/2/2025

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
4	15M08	Cortlandt	Seaport No. 1	0	0	4	1.33	17

Analysis

The repairs performed due to the open auto failures consisted of replaced joint on 05/01/24; contractor damage on 07/01/24; replaced cable section on 07/30/24; repaired cable section in M-68910 on 09/07/24.

Failure & Avg Cost to Repair

Cable	2
Joint	1
Apparatus	0
Other	1
Avg Cost Repair	$23,500

Action Planned

AC HIPOT successful on 5/6/2024, 7/4/2024 ; DC HIPOT successful 7/4/2024, 9/10/2024 ; HIPOT waived 8/5/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
5	4M60	Grand Central	East 40th Street No. 1	1	2	4	2.33	12

Analysis

The repairs performed due to the open auto failures consisted of replaced joint on 01/01/24, 06/26/24 and 07/01/24; installed shunt on 07/31/24.

Failure & Avg Cost to Repair

Cable	0
Joint	3
Apparatus	0
Other	1
Avg Cost Repair	$6,700

Action Planned

DC HIPOT successful 6/28/2024 ; HIPOT waived 7/30/2024, 8/8/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
6	8M48	City Hall	Cherry Street	2	0	3	1.67	23

Analysis

The repairs performed due to the open auto failures consisted of dropped 8 banks of transformers via M-26230 on 04/09/24; replaced cable section on 05/10/24; replaced joint on 06/05/24.

Failure & Avg Cost to Repair

Cable	1
Joint	1
Apparatus	0
Other	1
Avg Cost Repair	$19,300

Action Planned

AC HIPOT successful on 4/19/2024, 5/26/2024 ; DC HIPOT successful on 4/19/2024, 5/26/2024 ; HIPOT waived on 7/16/2024

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
7	16M74	Pennsylvania	West 42nd Street No. 1	0	0	3	1.00	14

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced joint on 01/24/24, 02/21/24 and 03/25/24.	Cable	0
	Joint	3
	Apparatus	0
	Other	0
	Avg Cost Repair	$6,700

Action Planned
DC HIPOT successful on 2/11/2024 ; HIPOT waived on 2/25/2024, 3/30/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
8	9M32	Hunter	East 63rd Street No. 1	1	0	3	1.33	15

Analysis			Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced cable section on 01/29/24; replaced joint on 03/10/24; replaced cable section from M-59541 to M-59523 on 11/26/24.			Cable	2
			Joint	1
			Apparatus	0
			Other	0
			Avg Cost Repair	$23,500

Action Planned
HIPOT waived on 2/9/2024 ; AC HIPOT successful on 3/11/2024 ; DC HIPOT successful on 3/11/2024, 12/9/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
9	20M08	Sutton	East 63rd Street No. 1	1	0	3	1.33	20

Analysis

The repairs performed due to the open auto failures consisted of repaired ESNAS on 04/11/24; replaced cable section in M-10906 on 09/04/24; remade 3W-1W joint in M-54459 on 11/23/24.

Failure & Avg Cost to Repair

Cable	1
Joint	1
Apparatus	1
Other	0
Avg Cost Repair	$19,900

Action Planned

DC HIPOT successful on 4/13/2024, 9/8/2024, 12/10/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
10	2M17	Harlem	West 110th Street No. 1	0	0	3	1.00	26

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 03/23/24, replaced mechanical 2W-1W joint in M-58658 on 12/28/24 and replaced cable section from M-40850 to M-40864 on 12/31/24.

Failure & Avg Cost to Repair

Cable	2
Joint	1
Apparatus	0
Other	0
Avg Cost Repair	$23,500

Action Planned

HIPOT waived on 6/21/2024, 12/31/2024, 1/7/2025

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
11	10M02	Sheridan Square	Leonard Street No. 1	1	1	3	1.67	31

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced joint on 01/23/24 and 06/04/24; remade 2W-1W joint on 02/13/24.	Cable	0
	Joint	3
	Apparatus	0
	Other	0
	Avg Cost Repair	$6,700

Action Planned

DC HIPOT successful on 2/6/2024, 2/15/2024; HIPOT waived on 6/7/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
12	19M26	Rockefeller Center	West 65th Street No. 2	1	0	3	1.33	17

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced 2W-1W joint on 04/06/24; replaced cable section on 07/24/24; remade 2W-1W joint on 08/18/24.	Cable	1
	Joint	2
	Apparatus	0
	Other	0
	Avg Cost Repair	$15,100

Action Planned

DC HIPOT successful on 4/10/2024 ; AC HIPOT successful on 8/4/2024, 8/22/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
13	1M08	Washington Heights	Sherman Creek	1	0	3	1.33	14

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 01/22/24; replaced joint on 03/06/24 and 08/15/24.

Failure & Avg Cost to Repair

Cable	1
Joint	2
Apparatus	0
Other	0
Avg Cost Repair	$15,100

Action Planned

DC HIPOT successful on 1/31/2024, 3/12/2024 ; AC HIPOT successful on 8/17/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
14	4M86	Grand Central	East 40th Street No. 1	0	0	3	1.00	15

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 08/16/24; replaced cable section from M-56511 to M-34671 on 08/29/24; remade straight joint in M-43004 on 11/27/24.

Failure & Avg Cost to Repair

Cable	2
Joint	1
Apparatus	0
Other	0
Avg Cost Repair	$23,500

Action Planned

HIPOT waived on 8/24/2024, 11/30/2024 ; DC HIPOT successful on 9/5/2024

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
15	3M43	Yorkville	Hell Gate	1	1	3	1.67	23

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remade 3M joint in M-5948 on 07/27/24; replaced cable section in M-58332 on 12/03/24; replaced joint in M-58332 on 12/11/24.	Cable	1
	Joint	2
	Apparatus	0
	Other	0
	Avg Cost Repair	$15,100

Action Planned

DC HIPOT successful on 7/31/2024, 12/13/2024 ; HIPOT waived on 12/10/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
16	44M15	Triboro	Parkview	0	0	3	1.00	23

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced cable section on 04/13/24; replaced 3W-1W joint on 06/21/24; replaced cable section from M-62197 to VS-9355 on 09/14/24.	Cable	2
	Joint	1
	Apparatus	0
	Other	0
	Avg Cost Repair	$23,500

Action Planned

HIPOT waived on 4/19/2024 ; DC HIPOT successful on 6/22/2024, 9/21/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
17	26M45	Greeley Square	East 36th Street	0	1	3	1.33	13

Analysis

The repairs performed due to the open auto failures consisted of replaced joint on 07/03/24; replaced cable section from M-7522 to M-7526 due to contractor damage on 10/26/24; remade 2W-2W joint in M-56118 on 12/18/24.

Failure & Avg Cost to Repair

Cable	1
Joint	2
Apparatus	0
Other	0
Avg Cost Repair	$15,100

Action Planned

HIPOT waived on 7/5/2024, 11/3/2024, 12/21/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
18	7M37	Cooper Square	Avenue A	1	0	3	1.33	20

Analysis

The repairs performed due to the open auto failures consisted of replaced 3W-1W joint in M-25524 on 06/20/24; replaced cable section from M-25561 to M-25556 on 11/19/24 and replaced cable section from M-56516 to VS-3655 on 12/28/24.

Failure & Avg Cost to Repair

Cable	2
Joint	1
Apparatus	0
Other	0
Avg Cost Repair	$23,500

Action Planned

HIPOT waived on 6/21/2024, 11/22/2024, 1/5/2025

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
19	20M02	Sutton	East 63rd Street No. 1	1	0	3	1.33	22

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced 2W-1W joint on 02/13/24; unclassified or undetermined cause on 02/27/24; replaced joint on 02/29/24.	Cable	0
	Joint	2
	Apparatus	0
	Other	1
	Avg Cost Repair	$6,700

Action Planned

HIPOT waived on 2/21/2024, 3/3/2024 ; DC HIPOT successful on 2/28/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
20	16M79	Pennsylvania	West 42nd Street No. 1	0	1	3	1.33	20

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of remade straight joint on 01/19/24; remade 3W-1W joint on 07/04/24; remade 2W-1W joint on 08/18/24.	Cable	0
	Joint	3
	Apparatus	0
	Other	0
	Avg Cost Repair	$6,700

Action Planned

DC HIPOT successful on 1/21/2024, HIPOT waived on 7/7/2024, 8/25/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
21	28M06	Herald Square	Astor	4	0	3	2.33	12

Analysis

The repairs performed due to the open auto failures consisted of unclassified or undetermined cause on 04/17/24; installed live-end-cap (LEC) on 06/20/24; replaced cable section from M-44561 to M-57342 on 10/16/24.

Failure & Avg Cost to Repair

Cable	1
Joint	0
Apparatus	0
Other	2
Avg Cost Repair	$31,900

Action Planned

AC HIPOT successful on 4/20/2024, 6/21/2024, 10/22/2024 ; DC HIPOT successful on 10/22/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
22	7M52	Cooper Square	Avenue A	0	0	3	1.00	20

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 04/22/24; installed live-end-cap (LEC) on 07/06/24; replaced cable section from M-25722 to M-62335 on 09/04/24.

Failure & Avg Cost to Repair

Cable	2
Joint	0
Apparatus	0
Other	1
Avg Cost Repair	$31,900

Action Planned

HIPOT waived on 4/25/2024, 7/8/2024, 9/9/2024

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
23	4M77	Grand Central	East 40th Street No. 1	1	0	3	1.33	17

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of unclassified or undetermined cause on 08/29/24; replaced cable section from M-50195 to M-50204 on 11/06/24; installed live-end-cap (CAP) to drop disconnect switch DM-63354 and high tension vault HTV-9031 via M-50248 on 12/23/24.	Cable	1
	Joint	0
	Apparatus	0
	Other	2
	Avg Cost Repair	$31,900

Action Planned
HIPOT waived on 8/29/2024, 11/11/2024, 12/30/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
24	6M42	Madison Square	East 29th Street	0	0	3	1.00	14

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of conducted repairs on 05/07/24; replaced joint on 05/27/24; conducted MTA inspection in HTV-8626 on 12/22/24.	Cable	0
	Joint	1
	Apparatus	0
	Other	2
	Avg Cost Repair	$6,700

Action Planned
DC HIPOT successful 5/9/2024, 12/26/2024; AC HIPOT on 5/29/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
25	24M79	Lenox Hill	East 75th Street	2	3	3	2.67	18

Analysis

The repairs performed due to the open auto failures consisted of replaced joint on 06/01/24; remade straight joint on 07/17/24; installed live-end-cap (CAP) to drop M-48357 on 09/19/24.

Failure & Avg Cost to Repair

Cable	0
Joint	2
Apparatus	0
Other	1
Avg Cost Repair	$6,700

Action Planned

DC HIPOT successful on 6/3/2024 ; HIPOT waived on 7/18/2024, 9/21/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
26	6M37	Madison Square	East 29th Street	0	3	3	2.00	21

Analysis

The repairs performed due to the open auto failures consisted of unclassified or undetermined cause on 06/05/24; replaced joint on 06/14/24; installed live-end-cap (CAP) to drop damaged customer manhole on 06/21/24.

Failure & Avg Cost to Repair

Cable	0
Joint	1
Apparatus	0
Other	2
Avg Cost Repair	$6,700

Action Planned

HIPOT waived on 6/7/2024, 6/17/2024, 6/24/2024

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
27	10M09	Sheridan Square	Leonard Street No. 1	1	0	2	1.00	32

Analysis

The repairs performed due to the open auto failures consisted of replaced 2W-1W joint in M-46369 on 01/08/24 and replaced cable sections from damaged pothead compartment to area substation on 06/09/24.

Failure & Avg Cost to Repair

Cable	1
Joint	1
Apparatus	0
Other	0
Avg Cost Repair	$19,300

Action Planned

DC HIPOT successful on 1/12/2024, 8/7/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
28	44M16	Triboro	Parkview	0	0	2	0.67	19

Analysis

The repairs performed due to the open auto failures consisted of replaced cable section on 03/12/24 and repaired damaged ESNAS on 03/29/24.

Failure & Avg Cost to Repair

Cable	1
Joint	0
Apparatus	1
Other	0
Avg Cost Repair	$26,500

Action Planned

DC HIPOT successful on 3/19/2024 ; HIPOT waived on 4/15/2024

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2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
29	8M58	City Hall	Cherry Street	0	1	2	1.00	8

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced cable section on 04/01/24 and contractor damage on 07/21/24.	Cable	1
	Joint	0
	Apparatus	0
	Other	1
	Avg Cost Repair	$31,900

Action Planned
HIPOT waived on 4/10/2024, 9/25/2024

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
30	2M22	Harlem	West 110th Street No. 1	1	1	2	1.33	37

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced 3W-1W joint in M-31926 on 06/21/24 and replaced cable section from M-29556 to M-60601 due to contractor damage on 11/18/24.	Cable	1
	Joint	1
	Apparatus	0
	Other	0
	Avg Cost Repair	$19,300

Action Planned
AC HIPOT successful on 6/22/2024, HIPOT waived on 1/6/2025

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Avg OAs	Transformers
31	40M40	Bowling Green	Seaport No. 1	0	0	2	0.67	12

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced cable section on 05/01/24 and replaced cable section from M-68212 to M-68216 on 12/22/24.	Cable	2
	Joint	0
	Apparatus	0
	Other	0
	Avg Cost Repair	$31,900

Action Planned

AC HIPOT successful on 5/8/2024 ; DC HIPOT successful on 5/8/2024 ; HIPOT waived 12/31/2024HIPOT

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
32	3M60	Yorkville	Hell Gate	1	2	2	1.67	24

Analysis	Failure & Avg Cost to Repair	
The repairs performed due to the open auto failures consisted of replaced cable section on 01/16/24 and replaced cable section from bus-section 12-B in area substation to M-28602 due to damaged potheads on 04/11/24.	Cable	2
	Joint	0
	Apparatus	0
	Other	0
	Avg Cost Repair	$31,900

Action Planned

HIPOT waived on 1/26/2024 ; DC HIPOT successful on 4/16/2024

MANHATTAN

2024 Worst Performing Network Feeders

Electric Operations Service Area: Manhattan

OA Rank	Feeder	Network	Substation	2022 OAs	2023 OAs	2024 OAs	3 year Ave OAs	Transformers
33	8M63	City Hall	Cherry Street	1	0	2	1.00	23

Analysis

The repairs performed due to the open auto failures consisted of replaced straight joint on 02/08/24 and replaced cable section on 06/29/24.

Failure & Avg Cost to Repair

Cable	1
Joint	1
Apparatus	0
Other	0
Avg Cost Repair	$19,300

Action Planned

AC HIPOT successful on 2/16/2024 ; DC HIPOT successful on 2/16/2024; HIPOT waived 7/5/2024

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2024 PERFORMANCE REPORTS

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2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
7M28	5	310.6	1
1M09	4	503.0	2
19M31	4	398.8	3
15M08	4	333.0	4
4M60	4	275.9	5
8M48	3	782.6	6
16M74	3	645.8	7
9M32	3	627.4	8
20M08	3	557.1	9
2M17	3	466.1	10
10M02	3	446.9	11
19M26	3	443.8	12
1M08	3	390.1	13
4M86	3	379.2	14
3M43	3	325.6	15
44M15	3	300.6	16
26M45	3	294.3	17
7M37	3	281.4	18
20M02	3	263.6	19
16M79	3	238.3	20
28M06	3	223.1	21
7M52	3	220.0	22
4M77	3	218.6	23
6M42	3	184.8	24
24M79	3	129.9	25
6M37	3	127.8	26
10M09	2	1537.6	27
44M16	2	572.6	28
8M58	2	415.2	29
2M22	2	407.7	30
40M40	2	360.4	31
3M60	2	350.4	32

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
8M63	2	345.2	33
20M04	2	339.5	34
20M10	2	339.2	35
10M08	2	334.9	36
6M33	2	334.1	37
43M56	2	331.2	38
20M07	2	320.0	39
31M51	2	310.6	40
13M64	2	302.5	41
20M03	2	296.7	42
3M45	2	281.7	43
23M60	2	275.2	44
34M42	2	266.2	45
15M07	2	253.7	46
23M66	2	248.3	47
21M35	2	237.4	48
17M83	2	232.0	49
11M51	2	226.8	50
40M37	2	209.6	51
40M41	2	198.7	52
10M13	2	194.9	53
2M39	2	193.3	54
24M92	2	191.0	55
13M45	2	176.2	56
16M83	2	171.0	57
32M87	2	168.4	58
5M86	2	163.9	59
9M28	2	163.8	60
3M65	2	157.1	61
6M24	2	155.5	62
9M26	2	152.9	63
4M78	2	152.1	64

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
7M31	2	149.7	65
39M52	2	128.7	66
17M80	2	127.9	67
10M03	2	124.7	68
40M36	2	119.3	69
13M60	2	118.8	70
44M09	2	115.7	71
8M54	2	106.4	72
6M26	2	104.7	73
13M54	2	104.6	74
1M12	2	96.4	75
17M90	2	92.4	76
44M01	2	86.0	77
6M32	2	78.8	78
39M57	2	71.3	79
7M56	2	69.5	80
27M13	2	64.2	81
7M23	2	63.3	82
39M56	2	62.5	83
28M01	2	52.6	84
24M87	2	46.5	85
17M82	2	35.6	86
44M19	2	21.7	87
2M26	2	20.9	88
1M14	1	508.7	89
11M57	1	476.1	90
44M04	1	420.3	91
20M09	1	386.4	92
25M44	1	370.5	93

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
16M63	1	348.0	94
28M03	1	341.6	95
16M81	1	323.3	96
2M21	1	311.4	97
10M10	1	302.9	98
40M38	1	298.5	99
43M57	1	287.7	100
6M21	1	284.0	101
29M81	1	269.6	102
9M30	1	264.4	103
24M72	1	242.3	104
7M39	1	240.7	105
1M52	1	240.3	106
1M01	1	240.3	107
2M20	1	235.4	108
26M48	1	222.1	109
21M38	1	216.3	110
43M60	1	207.5	111
3M54	1	197.1	112
24M84	1	193.8	113
5M89	1	192.7	114
43M61	1	187.7	115
23M62	1	183.9	116
7M22	1	177.7	117
25M49	1	174.0	118
44M13	1	172.1	119
31M55	1	171.7	120
3M61	1	168.6	121
7M20	1	165.0	122
9M24	1	162.4	123
25M41	1	160.6	124

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
10M05	1	160.3	125
26M41	1	159.6	126
29M76	1	156.7	127
40M30	1	153.6	128
21M23	1	150.3	129
22M69	1	150.0	130
17M87	1	149.8	131
19M23	1	148.8	132
17M86	1	147.0	133
3M62	1	145.3	134
31M56	1	144.3	135
7M27	1	144.0	136
19M25	1	142.9	137
1M18	1	142.3	138
27M09	1	142.1	139
5M95	1	141.3	140
26M44	1	131.1	141
31M53	1	123.1	142
44M08	1	121.9	143
8M44	1	120.1	144
24M88	1	119.2	145
17M93	1	118.4	146
9M29	1	116.2	147
6M34	1	111.4	148
11M49	1	110.6	149
23M68	1	108.8	150
40M47	1	108.2	151
6M41	1	104.7	152
5M87	1	103.8	153
22M65	1	101.4	154
40M45	1	100.4	155

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
29M62	1	100.0	156
23M63	1	99.1	157
21M24	1	97.6	158
43M55	1	96.9	159
24M77	1	93.0	160
32M80	1	93.0	161
22M68	1	91.2	162
13M51	1	86.4	163
29M66	1	85.1	164
31M08	1	82.9	165
11M42	1	82.0	166
1M04	1	77.5	167
34M38	1	77.2	168
1M54	1	76.9	169
34M35	1	76.2	170
16M73	1	74.9	171
27M21	1	70.2	172
40M39	1	70.1	173
20M12	1	70.1	174
15M05	1	69.7	175
30M94	1	69.3	176
13M63	1	69.0	177
32M81	1	68.9	178
17M92	1	66.2	179
3M51	1	65.7	180
5M84	1	65.0	181
9M27	1	64.6	182
21M26	1	64.2	183
2M16	1	63.9	184
8M57	1	63.8	185
13M50	1	63.1	186
5M85	1	63.0	187

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
44M11	1	62.9	188
5M93	1	62.8	189
24M74	1	62.0	190
24M89	1	61.4	191
5M88	1	61.1	192
11M53	1	61.1	193
8M47	1	59.7	194
8M53	1	59.5	195
22M63	1	58.9	196
29M74	1	56.3	197
3M49	1	55.2	198
2M42	1	53.7	199
3M67	1	53.3	200
43M50	1	52.4	201
29M79	1	52.2	202
7M33	1	51.9	203
3M56	1	51.8	204
27M24	1	50.7	205
3M42	1	50.4	206
6M40	1	50.2	207
6M39	1	49.8	208
28M15	1	49.7	209
26M52	1	48.5	210
7M54	1	47.4	211
22M71	1	46.5	212
29M73	1	46.0	213
20M05	1	45.8	214
16M82	1	41.6	215
17M85	1	40.0	216
3M63	1	36.1	217
3M47	1	35.7	218
17M66	1	35.0	219

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
16M84	1	34.7	220
32M82	1	34.7	221
27M17	1	32.7	222
16M61	1	32.4	223
11M48	1	31.8	224
30M95	1	31.7	225
1M05	1	31.7	226
44M05	1	30.8	227
1M17	1	29.8	228
22M70	1	29.3	229
34M32	1	29.3	230
22M64	1	29.3	231
24M83	1	27.2	232
13M43	1	26.9	233
40M32	1	26.0	234
6M25	1	26.0	235
4M62	1	20.4	236
1M51	1	20.1	237
25M43	1	18.1	238
20M06	1	18.1	239
7M24	1	17.3	240
3M41	1	16.0	241
44M03	1	14.7	242
23M67	1	14.6	243
44M10	1	14.4	244
39M50	1	14.2	245
1M03	1	12.6	246
2M24	1	11.6	247
8M62	1	11.3	248
17M91	1	11.1	249
31M54	1	10.7	250
1M50	1	8.6	251

2024 MANHATTAN NETWROK FEEDER PERFORMANCE REPORT

TOTAL NETWORK FEEDERS = 662

OPEN AUTOMATICS (OA)

Feeder Number	OA Count	Total Outage Hours	Ranking
4M63	1	4.1	252
31M59	1	4.0	253
25M46	1	4.0	254
25M52	1	4.0	255
31M58	1	4.0	256

Note: Only network feeders that expierenced an OA are listed. Outage duration may include added scheduled work after the OA.

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SECTION 5

STATEN ISLAND REGION

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STATEN ISLAND ELECTRIC OPERATIONS SERVICE AREA

GENERAL

The Staten Island Electric Operations service area covers 58 square miles and has an estimated population of 1,185,608[1] people. It is one of the five boroughs of New York City and is a major suburban community.

ELECTRIC DISTRIBUTION SYSTEM

In 2024, the Staten Island Electric Operations area supplied non-network electric service to 189,012[2] customers of which 90% are residential and 10% are commercial customers.

Staten Island primary distribution system is comprised of:

- 5 Area substations
- 5 Load Areas
- 4 4kV multi-bank substations
- 31 4kV unit substations
- 187 4kV, 13kV and 33kV non-network feeders[3]

CAPITAL AND OPERATING MAINTENANCE INVESTMENTS

The following chart outlines Staten Island's budgeted and actual capital and operating maintenance investments over the last five years.

[1] Obtained from 2024 Electric Distribution System Manual.
[2] Customers served as of 12/31/2023, as per General Accounting.
[3] Includes step-down feeders.

SYSTEM RELIEF AND RELIABILITY CAPITAL EXPENDITURES ($000s)

	2020		2021		2022		2023		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
RELIEF										
Area Substations	0	0	232	0	10	0	12	0	0	0
Primary Feeders	0	0	0	0	0	0	0	0	0	0
4KV Substations	0	0	0	0	0	0	0	0	0	0
4KV Feeders	0	0	0	0	0	0	0	0	0	0
Transformers	364	962	679	962	835	962	628	962	874	962
<$100K Load Relief	0	0	0	0	0	0	0	0	0	0
Sub-Total	**364**	**962**	**911**	**962**	**846**	**962**	**640**	**962**	**874**	**962**
RELIABILITY										
HiPot/Oil Minders	0	0	0	0	0	0	0	0	0	0
PILC	0	0	0	0	0	0	0	0	0	0
Underground Secondary Reliability Program	75	115	113	94	284	60	569	61	306	61
Remote Monitoring System	2	54	0	54	0	54	0	95	0	95
Targeted Primary DBC Replacement	2,109	6,025	4,774	7,832	6,068	3,000	6,099	4,519	3,988	4,519
Other Reliability	322	153	360	220	1,187	766	108	3,213	157	3,294
Overhead Reliability	9,780	1,000	6,651	7,250	8,956	5,000	15,065	11,495	5,845	13,616
Secondary Open Mains	902	854	831	854	850	795	1,004	833	1,304	941
Sub-Total	**13,190**	**8,201**	**12,729**	**16,304**	**17,345**	**9,674**	**22,846**	**20,215**	**11,600**	**22,526**
Total	**13,554**	**9,163**	**13,640**	**17,266**	**18,190**	**10,636**	**23,486**	**21,177**	**12,474**	**23,488**

SELECTED MAINTAINENCE PROGRAMS ($000s)

	2021		2022		2023		2024		2024	
	Actual	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**	**Actual**	**Budget**
Tree Trimming	0	0	0	0	0	0	0	0	0	0
Overhead Facilities	82	165	132	176	137	225	552	152	846	832
CINDE	24	238	201	435	208	145	352	116	176	116
Underground Inspection Program	108	0	55	16	59	15	1,382	34	1,325	534
Underground Repair Program	28	0	20	453	71	32	284	11	434	261
Stray Voltage Program*	0	0	0	0	0	0	0	0	0	0
Total	**242**	**403**	**408**	**1,080**	**476**	**417**	**2,570**	**314**	**2,782**	**1,744**

*Includes Manual/Mobile Stray (or Contact) Voltage Program

STATEN ISLAND ELECTRIC OPERATIONS SERVICE AREA

NON-NETWORK DISTRIBUTION SYSTEM PERFORMANCE

The table below indicates Staten Island's non-network performance levels for the last five years (2020 – 2024). The system performance excludes all major storms which are listed in section 1.

	2020	2021	2022	2023	2024	PSC SERVICE STANDARD
SAIFI	438	549	634	393	461	**550**
CAIDI	1.50	1.19	1.20	1.27	1.39	**1.50 Hrs.**

NON-NETWORK SYSTEM SAIFI PERFORMANCE

In 2024, Staten Island's non-network SAIFI performance was 461 per 1,000 customers served. This performance is better than the PSC Service Standard of 550.

NON-NETWORK SYSTEM CAIDI PERFORMANCE

In 2024, Staten Island's non-network CAIDI performance was 1.39 hours. This performance is better than the PSC Service Standard of 1.50 hours.

NON-NETWORK CAUSE CODES

The following table provides the five-year non-network history of customer interruptions by PSC cause codes.

NON-NETWORK CUSTOMERS INTERRUPTED BY CAUSE CODE

PSC Code		2020		2021		2022		2023		2024	
		Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%	Cust Int.	%
1	Major Storms	78,839	50%	2,750	3%	0	0%	0	0%	0	0%
2	Tree Contact	8,567	5%	4,823	5%	2,817	2%	2,178	3%	2,988	3%
3	Overloads	24	0%	46	0%	32	0%	30	0%	33	0%
4	Operating or Working Errors	0	0%	0	0%	515	0%	14	0%	0	0%
5	Apparatus or Equipment Failure	57,304	36%	76,483	75%	94,199	81%	54,682	76%	70,140	80%
6	Accidents or Events Not Under Utilities Control	11,865	8%	12,628	12%	7,260	6%	7,355	10%	7,337	8%
7	Pre-arranged	94	0%	31	0%	4,776	4%	7,332	10%	5,722	7%
8	Customer's Equipment or Failure	0	0%	0	0%	241	0%	24	0%	40	0%
9	Lightning	1,109	1%	4,940	5%	5,433	5%	456	1%	52	0%
10	Unknown or Unclassified	219	0%	769	1%	595	1%	31	0%	862	1%
	Non-Network Total	**158,021**		**102,470**		**115,868**		**72,102**		**87,174**	

NON-NETWORK RELIABILITY PROGRAMS

These are some of the reliability and preventive maintenance programs aimed at improving performance of the non-network system.

Risk Reduction

The company replaced and/or rerouted failure prone conductors on feeder 33R27, feeder 33R30 and feeder 33R04, and a mini-13kv loop was split to create a new one. The scope of work included:

- Installation of 105 spans of 3-1C500 CU EPR Aerial cable.
- Replacement of 86 poles.
- Installation of 31 spans of 3-477AL open wire primary.
- Installation of 4 overhead switches.
- Replacement of 27 overhead transformers.
- Installation of 86 sections of 3-1C500 CU EPR UG cable.
- Installation of 14100 ft of conduit.
- Installation of 22 manholes.
- Removal of obsolete conductors.

The total investment on these projects was $ 17.5M.

Transformer Replacement

In 2024, 23 locations with overhead transformers were upgraded or had an additional transformer installed to relief the existing unit.

STATEN ISLAND

STATUS OF 2023 WORST PERFORMING FEEDERS

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STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS
SAIFI PSC MINIMUM STARDARD: 0.550

SAIFI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	S3R31M	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	1,794		0.99
3 Yr Avg Cust Intr	3,622		Target Date
3 Yr Avg SAIFI	1.94		
Feeder No.	S5R15	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	2,262		0.38
3 Yr Avg Cust Intr	2,721		Target Date
3 Yr Avg SAIFI	1.20		
Feeder No.	S3R33L	Performance remains the same as 2023. Further analysis will be performed and performance will be monitored in 2025.	2024 SAIFI
Customer Served	2,122		1.31
3 Yr Avg Cust Intr	2,959		Target Date
3 Yr Avg SAIFI	1.31		
Feeder No.	S3R36M	Performance improved in 2024. No further action required.	2024 SAIFI
Customer Served	1,529		0.20
3 Yr Avg Cust Intr	2,225		Target Date
3 Yr Avg SAIFI	1.22		
Feeder No.	S3R32L	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 SAIFI
Customer Served	1,266		1.34
3 Yr Avg Cust Intr	1,346		Target Date
3 Yr Avg SAIFI	0.83		

STATEN ISLAND

STATUS UPDATE ON 2023 WORST PERFORMING NON-NETWORK FEEDERS
CAIDI PSC MINIMUM STANDARD: 1.50 HOURS

CAIDI Worst 2.5% Feeders		Actions to Remedy	Performance Update/ Target Date
Feeder No.	S217	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 CAIDI
Customer Served	1,312		2.96
3 Yr Avg Cust Hrs	155		Target Date
3 Yr Avg CAIDI	2.60		
Feeder No.	S3R32M	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 CAIDI
Customer Served	1,118		2.60
3 Yr Avg Cust Hrs	533		Target Date
3 Yr Avg CAIDI	2.29		
Feeder No.	S2R13	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 CAIDI
Customer Served	633		2.35
3 Yr Avg Cust Hrs	622		Target Date
3 Yr Avg CAIDI	2.04		
Feeder No.	S250	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 CAIDI
Customer Served	1,156		3.09
3 Yr Avg Cust Hrs	1,107		Target Date
3 Yr Avg CAIDI	1.86		
Feeder No.	S246	Performance did not improve in 2024. Further analysis will be performed and performance will be monitored in 2025.	2024 CAIDI
Customer Served	1,113		3.16
3 Yr Avg Cust Hrs	131		Target Date
3 Yr Avg CAIDI	2.31		

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2024 WORST PERFORMING NON-NETWORK FEEDERS

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WORST PERFORMING NON-NETWORK FEEDERS

Included for each of the ten (10) worst performing non-network feeders is the 2022-2024 performance (SAIFI or CAIDI), 2022-2024 outage and reliability activity, analysis, actions planned and status.

The 2024 worst performing non-network SAIFI and CAIDI feeders are listed below.

SAIFI HISTORY OF 2024[4] WORST PERFORMING NON-NETWORK FEEDERS

PSC MINIMUM SAIFI 0.550

Feeder	2022	2023	2024
S3R31M	2.78	0.95	0.99
S2R30	0.98	0.73	1.89
S5R22	1.04	0.86	1.47
S3R37L	0.77	1.61	0.88
S2R24	1.06	0.99	0.90

CAIDI HISTORY OF 2024[5] WORST PERFORMING NON-NETWORK FEEDERS

PSC MINIMUM CAIDI 1.50 HOURS

Feeder	2022	2023	2024
S217	1.99	3.46	2.96
S4R56L	2.75	2.91	2.67
S2R39	3.52	2.10	1.55
S250	1.57	1.97	3.09
S354	2.82	1.96	1.86

[4] The PSC 3Yr Average Report (Report 16) SAIFI listings in PSC/CIAS Database
[5] The PSC 3Yr Average Report (Report 16) CAIDI listings in PSC/CIAS Database

STATEN ISLAND

2024 Worst Performing Non-Network Feeders **PSC SAIFI SERVICE Standard = 0.550**
Electric Operations Service Area: Staten Island

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
1	S3R31M	AL	13	Wainwright	1,830	2,919	2.78	0.95	0.99	1.57

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The largest impact were due to underground primary cable failures , followed by cable in duct insulation breakdown and Padmount transformer failures, planned outages, animal contact, emergency interruptions, and metering faults.	Animal	23.7%	0.0%	7.6%	10.4%
	Emerg Inter Req	31.6%	0.0%	2.2%	11.3%
	Metering	0.0%	0.1%	0.1%	0.0%
	Mylar Balloon	0.0%	1.3%	0.0%	0.4%
	OH Transformer	0.1%	0.0%	0.0%	0.0%
	ON-ROW	0.1%	0.0%	0.0%	0.0%
Action Planned	Open Wire	19.2%	74.9%	0.0%	31.4%
	Planned Outage	1.4%	6.9%	8.9%	5.8%
Nothing Pending. The incidents affecting these customers were random in nature. All repairs were made.	Primary Feeder	0.0%	2.1%	67.6%	23.2%
	Service	0.0%	3.5%	0.0%	1.2%
	Substation	23.9%	0.0%	0.0%	8.0%
	URD System	0.0%	11.3%	13.6%	8.3%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
2	S2R30	AL	13	Fox Hills	542		0.98	0.73	1.89	1.20

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact were due to underground primary cable failures, followed by emergency interruptions, traffic accidents, accidents not under utility's control, and service cable failures.	Comp Not Responsib	0.0%	0.0%	1.1%	0.4%
	Emerg Inter Req	0.0%	89.4%	48.4%	46.0%
	OFF-ROW	0.0%	6.0%	0.0%	2.0%
	Open Wire	99.8%	0.0%	0.0%	33.3%
	Planned Outage	0.0%	3.0%	0.0%	1.0%
	Primary Feeder	0.0%	0.0%	49.3%	16.4%
	Service	0.2%	0.3%	0.1%	0.2%
Action Planned	Substation	0.0%	0.3%	0.0%	0.1%
	Traffic Accident	0.0%	0.0%	1.1%	0.4%
Nothing Pending. The incidents affecting these customers were random in nature. All repairs were made.	URD System	0.0%	1.0%	0.0%	0.3%

2024 Worst Performing Non-Network Feeders **PSC SAIFI SERVICE Standard = 0.550**
Electric Operations Service Area: Staten Island

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
3	S5R22	AL	13	Woodrow	709	787	1.04	0.86	1.47	1.12

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
The largest customer interruption reasons were due to underground primary cable failures, followed by insulation breakdown of cable in duct, direct buried cable, transformer elbow failures, emergency interruptions, planned outages, switch lead failures, clamp and insulation breakdown on the open wire, and lateral service failures.	Emerg Inter Req	51.0%	0.0%	5.2%	18.7%
	Metering	0.0%	0.0%	0.1%	0.0%
	Open Wire	0.0%	0.0%	1.0%	0.3%
	Planned Outage	0.0%	0.0%	4.8%	1.6%
	Primary Feeder	0.0%	0.0%	64.9%	21.6%
	Service	0.0%	0.0%	0.1%	0.0%
Action Planned	Switch	0.0%	0.0%	1.3%	0.4%
Nothing Pending. The incidents affecting these customers were random in nature. All repairs were made.	Traffic Accident	0.0%	61.3%	0.0%	20.4%
	URD System	49.0%	38.7%	22.6%	36.8%

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
4	S3R37L	AL	13	Wainwright	2,047	2,179	0.77	1.61	0.88	1.08

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact were due to animal contact, tree contact (ON-ROW and OFF-ROW), undetermined causes, emergency interruption, secondary rack failure on pole, service failures and planned outages.	Animal	0.0%	0.0%	59.1%	19.7%
	Emerg Inter Req	52.8%	31.6%	9.7%	31.4%
	OFF-ROW	1.0%	0.2%	3.9%	1.7%
	OH Transformer	1.2%	0.3%	0.6%	0.7%
	ON-ROW	0.0%	0.0%	13.0%	4.3%
	Open Wire	11.1%	0.8%	0.0%	4.0%
	Planned Outage	0.1%	0.8%	0.1%	0.3%
	Pole Components	30.1%	0.0%	0.6%	10.2%
	Primary Feeder	0.0%	4.6%	0.0%	1.5%
Action Planned	Service	0.1%	0.0%	0.1%	0.1%
Nothing Pending. The incidents affecting these customers were random in nature. All repairs were made.	Switch	0.0%	61.6%	0.0%	20.5%
	Undetermined	0.0%	0.0%	12.9%	4.3%
	URD System	3.7%	0.0%	0.0%	1.2%

STATEN ISLAND

2024 Worst Performing Non-Network Feeders **PSC SAIFI SERVICE Standard = 0.550**
Electric Operations Service Area: Staten Island

SAIFI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Int	2022 SAIFI	2023 SAIFI	2024 SAIFI	3 Yr Avg
5	S2R24	AL	13	Fox Hills	269	265	1.06	0.99	0.90	0.99

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact were due to underground primary cable failures, followed by service cable pole connection failure.	Emerg Inter Req	1.8%	0.0%	0.0%	0.6%
	Metering	0.4%	0.0%	0.0%	0.1%
	ON-ROW	0.0%	99.6%	0.0%	33.2%
	Open Wire	96.1%	0.0%	0.0%	32.0%
	Primary Feeder	0.0%	0.0%	99.6%	33.2%
	Service	0.0%	0.4%	0.4%	0.3%
	URD System	1.8%	0.0%	0.0%	0.6%
Action Planned					
Nothing Pending. The incidents affecting these customers were random in nature. All repairs were made.					

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard = 1.50 Hours**
Electric Operations Service Area: Staten Island

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
1	S217	4kV Grid	4	Fresh Kills	1,346	153	1.99	3.46	2.96	2.80

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact was due to house connection failures followed by planned outages.	Planned Outage	0.4%	98.2%	45.0%	47.9%
	Primary Feeder	99.6%	0.0%	0.0%	33.2%
	Service	0.0%	1.8%	55.0%	18.9%
Action Planned					
The incidents affecting these customers were random in nature. All repairs were made.					

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
2	S4R56L	AL	13	Willowbrook	1,539	1,330	2.75	2.91	2.67	2.78

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact were due to direct buried cable insulation breakdown, followed by primary joint and underground cable failures, pole component failure, connector failure on the open wire, animal contact, planned outages, and service box connection failures.	Animal	0.0%	0.0%	5.7%	1.9%
	Metering	0.0%	0.2%	0.0%	0.1%
	OH Transformer	0.0%	1.4%	0.0%	0.5%
	Open Wire	0.0%	0.0%	5.6%	1.9%
	Others	18.2%	0.0%	0.0%	6.1%
	Planned Outage	1.4%	1.6%	1.6%	1.5%
Action Planned	Pole Components	0.0%	0.0%	11.3%	3.8%
The incidents affecting these customers were random in nature. All repairs were made.	Primary Feeder	0.0%	0.0%	28.8%	9.6%
	Service	0.5%	0.7%	0.1%	0.4%
	URD System	79.9%	96.1%	46.8%	74.3%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard = 1.50 Hours**
Electric Operations Service Area: Staten Island

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
3	S2R39	AL	13	Fox Hills	527	480	3.52	2.10	1.55	2.39

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact was due to primary feeder riser failures, followed by planned outages, and insulation breakdown of cable in duct in the URD system.	Emerg Inter Req	0.0%	36.8%	0.0%	12.3%
	Open Wire	0.5%	0.0%	0.0%	0.2%
	Planned Outage	0.0%	0.0%	6.3%	2.1%
	Pole Components	99.1%	0.0%	0.0%	33.0%
	Primary Feeder	0.0%	0.0%	87.8%	29.3%
Action Planned	Service	0.4%	3.9%	0.0%	1.4%
The incidents affecting these customers were random in nature. All repairs were made.	URD System	0.0%	59.3%	5.9%	21.7%

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
4	S250	4kV Grid	4	Fresh Kills	1,223	553	1.57	1.97	3.09	2.21

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact was due to overhead transformer failures, followded by planned outages, and service pole connections.	Emerg Inter Req	0.0%	67.2%	0.0%	22.4%
	OH Transformer	0.0%	11.3%	65.1%	25.4%
	Open Wire	0.5%	0.0%	0.0%	0.2%
	Planned Outage	5.1%	1.9%	32.7%	13.2%
	Pole Components	81.4%	19.6%	0.0%	33.7%
Action Planned	Service	0.1%	0.0%	2.3%	0.8%
The incidents affecting these customers were random in nature. All repairs were made.	Traffic Accident	12.9%	0.0%	0.0%	4.3%

2024 Worst Performing Non-Network Feeders **PSC CAIDI Service Standard = 1.50 Hours**
Electric Operations Service Area: Staten Island

CAIDI Rank	Feeder	Type	kV	Substation	Cust Serv	3 Yr Avg Cust Hrs	2022 CAIDI	2023 CAIDI	2024 CAIDI	3 Yr Avg
5	S354	4kV Grid	4	Fresh Kills	598	245	2.82	1.96	1.86	2.21

Analysis	Root Cause	2022	2023	2024	3 Yr Avg
In 2024, the largest impact was due to planned outages.	Emerg Inter Req	14.1%	0.0%	0.0%	4.7%
	OH Transformer	0.0%	4.2%	0.0%	1.4%
	Planned Outage	0.0%	8.0%	100.0%	36.0%
	Primary Feeder	0.0%	87.6%	0.0%	29.2%
	Service	0.0%	0.2%	0.0%	0.1%
	Traffic Accident	85.9%	0.0%	0.0%	28.6%

Action Planned

The incidents affecting these customers were random in nature. No action is planned.

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STATEN ISLAND

2024 PERFORMANCE REPORTS

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2024 STATEN ISLAND WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
S3R31M	1,830	2.78	0.95	0.99	1.57	3	1
S2R30	542	0.98	0.73	1.89	1.20	3	2
S5R22	709	1.04	0.86	1.47	1.12	3	3
S3R37L	2,047	0.77	1.61	0.88	1.08	3	4
S2R24	269	1.06	0.99	0.90	0.99	3	5
S4R66	2,884	1.38	0.63	0.89	0.96	3	6
S3R35M	1,792	4.21	0.00	0.77	1.66	2	7
S2R92	1,556	1.92	0.00	0.97	0.96	2	8
S3R31L	1,896	1.68	0.00	0.82	0.84	2	9
S3R32L	1,240	0.00	1.07	1.34	0.80	2	10
S309	813	0.00	1.43	0.97	0.80	2	11
S256	1,129	0.00	0.57	1.76	0.78	2	12
S3R33L	2,176	0.00	0.98	1.31	0.76	2	13
S305	926	1.02	0.00	0.96	0.66	2	14
S2R54	499	0.97	0.00	0.97	0.64	2	15
S5R20	2,426	0.73	0.00	1.07	0.60	2	16
S3R36L	1,168	0.70	0.00	0.76	0.49	2	17
S5R24	2,011	0.00	0.68	0.66	0.45	2	18
S392	1,530	0.00	0.00	3.62	1.21	1	19
S304	907	0.00	0.00	2.84	0.95	1	20
S286	1,003	0.00	0.00	1.88	0.63	1	21
S3R30M	2,095	0.00	0.00	1.58	0.53	1	22
S395	1,216	0.00	0.00	1.31	0.44	1	23
S5R27	2,033	0.00	0.00	1.29	0.43	1	24
S4R64	2,311	0.00	0.00	1.14	0.38	1	25
S422	701	0.00	0.00	1.15	0.38	1	26
S2R39	527	0.00	0.00	1.15	0.38	1	27
S390	892	0.00	0.00	1.10	0.37	1	28
S5R14	805	0.00	0.00	1.05	0.35	1	29
S210	836	0.00	0.00	0.99	0.33	1	30
S394	990	0.00	0.00	0.96	0.32	1	31
S428	513	0.00	0.00	0.96	0.32	1	32
S4R54L	2,283	0.00	0.00	0.96	0.32	1	33
S271	1,002	0.00	0.00	0.92	0.31	1	34
S5R29	1,477	0.00	0.00	0.92	0.31	1	35

2024 STATEN ISLAND WORST PERFORMING NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Cust Served	WSAIFI 2022	WSAIFI 2023	WSAIFI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
S2R34	369	0.00	0.00	0.89	0.30	1	36
S306	724	0.00	0.00	0.89	0.30	1	37
S307	321	0.00	0.00	0.87	0.29	1	38
S259	1,096	0.00	0.00	0.79	0.26	1	39
S312	1,944	0.00	0.00	0.67	0.22	1	40
S381	1,959	0.00	0.00	0.64	0.21	1	41
S4R54M	2,304	0.00	0.00	0.64	0.21	1	42
S276	1,126	0.00	0.00	0.57	0.19	1	43

Note: Only feeders with a 2024 SAIFI greater than the PSC Service Standard and at least 2 outages are listed.

2024 STATEN ISLAND WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 hours
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
S217	1,346	1.99	3.46	2.96	2.80	3	1
S4R56L	1,539	2.75	2.91	2.67	2.78	3	2
S2R39	527	3.52	2.10	1.55	2.39	3	3
S250	1,223	1.57	1.97	3.09	2.21	3	4
S354	598	2.82	1.96	1.86	2.21	3	5
S3R32M	1,142	1.62	2.27	2.60	2.16	3	6
S2R13	660	2.02	2.08	2.35	2.15	3	7
S5R11	2,306	1.83	2.79	1.69	2.10	3	8
S323	1,315	1.50	2.45	1.67	1.87	3	9
S2R49	572	0.00	4.73	1.71	2.14	2	10
S302	1,143	4.55	0.00	1.60	2.05	2	11
S3R31M	1,830	0.00	2.06	3.73	1.93	2	12
S3R34	1,748	0.00	3.69	1.72	1.80	2	13
S3R33M	1,567	0.00	1.97	3.17	1.71	2	14
S321	1,212	3.20	0.00	1.86	1.69	2	15
S2R28	476	2.32	0.00	2.75	1.69	2	16
S4R54M	2,304	2.49	0.00	2.56	1.68	2	17
S2R34	369	2.37	0.00	2.64	1.67	2	18
S5R15	2,359	0.00	1.86	3.10	1.65	2	19
S4R56M	1,667	0.00	1.79	3.14	1.64	2	20
S263	1,104	1.67	0.00	3.07	1.58	2	21
S5R13	1,186	0.00	1.53	3.13	1.55	2	22
S4R76L	2,169	2.86	0.00	1.75	1.54	2	23
S4R74L	1,997	2.08	0.00	2.14	1.41	2	24
S367	1,355	0.00	2.14	1.96	1.37	2	25
S2R92	1,556	0.00	1.61	2.43	1.35	2	26
S219	1,679	0.00	2.32	1.69	1.34	2	27
S5R22	709	0.00	1.95	1.87	1.27	2	28
S256	1,129	1.60	0.00	2.11	1.24	2	29
S290	1,331	1.79	0.00	1.68	1.16	2	30
S5R27	2,033	1.73	0.00	1.75	1.16	2	31
S212	1,269	0.00	1.83	1.58	1.14	2	32
S242	431	1.70	0.00	1.57	1.09	2	33
S270	1,043	0.00	1.64	1.53	1.06	2	34
S5R19	1,982	1.54	0.00	1.51	1.02	2	35

2024 STATEN ISLAND WORST PERFORMING NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 hours
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Cust Served	WCAIDI 2022	WCAIDI 2023	WCAIDI 2024	3-Year Avg WSAIFI	No. of Years over the PSC SAIFI Standard	Rank
S314	1,334	0.00	0.00	6.07	2.02	1	36
S238	746	0.00	0.00	4.05	1.35	1	37
S3R30L	1,904	0.00	0.00	3.88	1.29	1	38
S4R64	2,311	0.00	0.00	3.52	1.17	1	39
S5R23	2,446	0.00	0.00	2.43	0.81	1	40
S373	906	0.00	0.00	2.40	0.80	1	41
S258	911	0.00	0.00	2.19	0.73	1	42
S351	1,426	0.00	0.00	2.00	0.67	1	43
S222	1,071	0.00	0.00	1.99	0.66	1	44
S5R24	2,011	0.00	0.00	1.91	0.64	1	45
S5R26	2,060	0.00	0.00	1.83	0.61	1	46
S304	907	0.00	0.00	1.76	0.59	1	47
S1R81	1,515	0.00	0.00	1.74	0.58	1	48
S257	967	0.00	0.00	1.60	0.53	1	49
S2R91	3,200	0.00	0.00	1.55	0.52	1	50
S3R36L	1,168	0.00	0.00	1.57	0.52	1	51
S273	1,053	0.00	0.00	1.52	0.51	1	52

Note: Only feeders with a 2024 CAIDI greater than the PSC Service Standard and at least 2 outages are listed.

2024 STATEN ISLAND NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
S392	10	4,183.27	5,542	1,530	3.62	1
S304	6	4,536.82	2,579	907	2.84	2
S2R30	5	683.23	1,026	542	1.89	3
S286	13	1,246.25	1,888	1,003	1.88	4
S256	7	4,194.80	1,989	1,129	1.76	5
S3R30M	11	4,717.63	3,305	2,095	1.58	6
S5R22	20	1,943.20	1,040	709	1.47	7
S3R32L	8	1,173.55	1,665	1,240	1.34	8
S3R33L	22	3,468.85	2,854	2,176	1.31	9
S395	7	1,502.60	1,587	1,216	1.31	10
S5R27	10	4,602.18	2,626	2,033	1.29	11
S2R39	4	941.57	608	527	1.15	12
S422	2	230.33	805	701	1.15	13
S4R64	17	9,261.50	2,628	2,311	1.14	14
S390	6	281.45	985	892	1.10	15
S5R20	10	3,024.17	2,585	2,426	1.07	16
S5R14	3	456.60	848	805	1.05	17
S210	3	1,047.00	830	836	0.99	18
S3R31M	14	6,736.70	1,807	1,830	0.99	19
S2R92	19	3,664.42	1,510	1,556	0.97	20
S309	12	779.07	787	813	0.97	21
S2R54	3	394.78	482	499	0.97	22
S4R54L	14	2,405.62	2,201	2,283	0.96	23
S305	8	394.45	887	926	0.96	24
S428	2	87.00	491	513	0.96	25
S394	3	180.90	946	990	0.96	26
S434	1	763.13	944	995	0.95	27
S5R29	5	300.05	1,362	1,477	0.92	28
S271	5	959.63	922	1,002	0.92	29
S2R24	2	282.73	242	269	0.90	30
S2R34	7	870.83	330	369	0.89	31
S306	3	230.50	642	724	0.89	32
S4R66	11	1,938.12	2,553	2,884	0.89	33
S3R37L	15	1,123.18	1,801	2,047	0.88	34
S307	2	112.73	280	321	0.87	35
S3R31L	11	2,118.07	1,560	1,896	0.82	36
S259	4	958.15	863	1,096	0.79	37
S3R35M	16	1,762.75	1,372	1,792	0.77	38

2024 STATEN ISLAND NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
S3R36L	11	1,397.20	889	1,168	0.76	39
S312	7	1,191.67	1,301	1,944	0.67	40
S5R24	9	2,546.80	1,330	2,011	0.66	41
S4R54M	14	3,795.60	1,482	2,304	0.64	42
S381	4	268.68	1,250	1,959	0.64	43
S276	7	767.63	638	1,126	0.57	44
S372	6	170.32	402	742	0.54	45
S270	7	768.30	502	1,043	0.48	46
S5R19	15	1,420.65	940	1,982	0.47	47
S3R35L	10	1,050.88	990	2,095	0.47	48
S5R18	5	423.65	795	1,683	0.47	49
S5R17	23	1,662.60	1,412	2,997	0.47	50
S4R56L	15	1,894.68	709	1,539	0.46	51
S3R30L	9	3,178.13	820	1,904	0.43	52
S314	3	3,119.75	514	1,334	0.39	53
S5R15	17	2,795.65	903	2,359	0.38	54
S373	2	821.40	342	906	0.38	55
S289	5	356.52	356	944	0.38	56
S5R10	7	310.98	808	2,234	0.36	57
S303	3	279.92	379	1,067	0.36	58
S4R86L	14	742.77	590	1,714	0.34	59
S438	9	69.60	267	812	0.33	60
S272	5	106.58	603	1,866	0.32	61
S308	1	159.75	321	1,011	0.32	62
S4R76M	6	387.77	325	1,060	0.31	63
S242	2	207.13	132	431	0.31	64
S4R74L	12	1,254.22	586	1,997	0.29	65
S1R38	2	12.80	4	15	0.27	66
S370	5	269.92	525	1,982	0.26	67
S3R37M	10	332.92	344	1,366	0.25	68
S1R81	13	617.37	355	1,515	0.23	69
S215	5	194.45	387	1,750	0.22	70
S220	8	316.43	285	1,324	0.22	71
S246	1	793.13	251	1,171	0.21	72
S3R36M	10	449.98	344	1,752	0.20	73
S4R86M	9	539.08	383	2,056	0.19	74
S353	5	216.05	250	1,352	0.18	75
S3R33M	7	912.28	288	1,567	0.18	76

2024 STATEN ISLAND NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
S221	5	98.23	86	471	0.18	77
S5R23	25	1,015.07	417	2,446	0.17	78
S237	4	62.97	86	523	0.16	79
S4R76L	4	535.15	305	2,169	0.14	80
S366	2	37.40	133	948	0.14	81
S4R56M	10	690.88	220	1,667	0.13	82
S5R11	15	490.55	291	2,306	0.13	83
S3R32M	6	316.82	122	1,142	0.11	84
S382	5	104.05	100	954	0.10	85
S2R91	9	515.22	333	3,200	0.10	86
S365	3	188.20	158	1,648	0.10	87
S5R26	4	320.47	175	2,060	0.08	88
S211	2	73.20	57	738	0.08	89
S219	2	210.13	124	1,679	0.07	90
S2R13	3	108.23	46	660	0.07	91
S4R96L	11	129.97	119	1,729	0.07	92
S258	3	135.58	62	911	0.07	93
S367	5	162.92	83	1,355	0.06	94
S2R28	7	74.32	27	476	0.06	95
S2R19	1	8.70	18	321	0.06	96
S290	7	121.13	72	1,331	0.05	97
S3R34	7	126.97	74	1,748	0.04	98
S287	4	95.27	70	1,753	0.04	99
S424	2	32.33	22	560	0.04	100
S1R28	1	106.75	21	549	0.04	101
S321	2	81.97	44	1,212	0.04	102
S371	4	21.18	22	630	0.03	103
S2R49	3	32.42	19	572	0.03	104
S4R96M	6	52.45	46	1,455	0.03	105
S212	3	61.45	39	1,269	0.03	106
S263	4	95.12	31	1,104	0.03	107
S250	4	102.02	33	1,223	0.03	108
S354	2	27.85	15	598	0.03	109
S302	2	41.48	26	1,143	0.02	110
S323	2	48.48	29	1,315	0.02	111
S222	3	45.67	23	1,071	0.02	112
S5R16	4	57.85	42	2,119	0.02	113
S239	2	31.93	25	1,404	0.02	114

2024 STATEN ISLAND NON-NETWORK SAIFI FEEDERS
PSC SAIFI STANDARD: 0.55
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	SAIFI	RANK
S5R13	3	62.63	20	1,186	0.02	115
S236	4	16.63	13	885	0.01	116
S217	4	47.28	16	1,346	0.01	117
S238	2	28.33	7	746	0.01	118
S288	2	20.73	15	1,673	0.01	119
S2R94	1	3.30	2	369	0.01	120
S257	3	6.42	4	967	0.00	121
S278	3	8.85	7	1,963	0.00	122
S369	1	0.87	4	1,126	0.00	123
S351	2	8.00	4	1,426	0.00	124
S2R44	1	0.87	1	474	0.00	125
S253	2	2.88	2	969	0.00	126
S273	2	3.03	2	1,053	0.00	127
S5R28	1	4.70	2	1,190	0.00	128
S368	2	1.87	2	1,372	0.00	129
S322	1	2.33	2	1,493	0.00	130
S214	1	1.00	1	982	0.00	131
S380	1	0.95	1	1,553	0.00	132

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

2024 STATEN ISLAND NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
S314	3	3,119.75	514	1,334	6.07	1
S1R28	1	106.75	21	549	5.08	2
S238	2	28.33	7	746	4.05	3
S3R30L	9	3,178.13	820	1,904	3.88	4
S3R31M	14	6,736.70	1,807	1,830	3.73	5
S4R64	17	9,261.50	2,628	2,311	3.52	6
S1R38	2	12.80	4	15	3.20	7
S3R33M	7	912.28	288	1,567	3.17	8
S246	1	793.13	251	1,171	3.16	9
S4R56M	10	690.88	220	1,667	3.14	10
S5R13	3	62.63	20	1,186	3.13	11
S5R15	17	2,795.65	903	2,359	3.10	12
S250	4	102.02	33	1,223	3.09	13
S263	4	95.12	31	1,104	3.07	14
S217	4	47.28	16	1,346	2.96	15
S2R28	7	74.32	27	476	2.75	16
S4R56L	15	1,894.68	709	1,539	2.67	17
S2R34	7	870.83	330	369	2.64	18
S3R32M	6	316.82	122	1,142	2.60	19
S4R54M	14	3,795.60	1,482	2,304	2.56	20
S5R23	25	1,015.07	417	2,446	2.43	21
S2R92	19	3,664.42	1,510	1,556	2.43	22
S373	2	821.40	342	906	2.40	23
S2R13	3	108.23	46	660	2.35	24
S5R28	1	4.70	2	1,190	2.35	25
S258	3	135.58	62	911	2.19	26
S4R74L	12	1,254.22	586	1,997	2.14	27
S256	7	4,194.80	1,989	1,129	2.11	28
S351	2	8.00	4	1,426	2.00	29
S222	3	45.67	23	1,071	1.99	30
S367	5	162.92	83	1,355	1.96	31
S5R24	9	2,546.80	1,330	2,011	1.91	32
S5R22	20	1,943.20	1,040	709	1.87	33
S321	2	81.97	44	1,212	1.86	34
S354	2	27.85	15	598	1.86	35
S5R26	4	320.47	175	2,060	1.83	36
S304	6	4,536.82	2,579	907	1.76	37
S4R76L	4	535.15	305	2,169	1.75	38

2024 STATEN ISLAND NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
S5R27	10	4,602.18	2,626	2,033	1.75	39
S1R81	13	617.37	355	1,515	1.74	40
S3R34	7	126.97	74	1,748	1.72	41
S2R49	3	32.42	19	572	1.71	42
S219	2	210.13	124	1,679	1.69	43
S5R11	15	490.55	291	2,306	1.69	44
S290	7	121.13	72	1,331	1.68	45
S323	2	48.48	29	1,315	1.67	46
S2R94	1	3.30	2	369	1.65	47
S257	3	6.42	4	967	1.60	48
S302	2	41.48	26	1,143	1.60	49
S212	3	61.45	39	1,269	1.58	50
S3R36L	11	1,397.20	889	1,168	1.57	51
S242	2	207.13	132	431	1.57	52
S2R39	4	941.57	608	527	1.55	53
S2R91	9	515.22	333	3,200	1.55	54
S270	7	768.30	502	1,043	1.53	55
S273	2	3.03	2	1,053	1.52	56
S5R19	15	1,420.65	940	1,982	1.51	57
S424	2	32.33	22	560	1.47	58
S253	2	2.88	2	969	1.44	59
S3R30M	11	4,717.63	3,305	2,095	1.43	60
S4R86M	9	539.08	383	2,056	1.41	61
S288	2	20.73	15	1,673	1.38	62
S5R16	4	57.85	42	2,119	1.38	63
S287	4	95.27	70	1,753	1.36	64
S3R31L	11	2,118.07	1,560	1,896	1.36	65
S3R36M	10	449.98	344	1,752	1.31	66
S3R35M	16	1,762.75	1,372	1,792	1.28	67
S211	2	73.20	57	738	1.28	68
S236	4	16.63	13	885	1.28	69
S239	2	31.93	25	1,404	1.28	70
S278	3	8.85	7	1,963	1.26	71
S210	3	1,047.00	830	836	1.26	72
S4R86L	14	742.77	590	1,714	1.26	73
S3R33L	22	3,468.85	2,854	2,176	1.22	74
S276	7	767.63	638	1,126	1.20	75
S4R76M	6	387.77	325	1,060	1.19	76

2024 STATEN ISLAND NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
S365	3	188.20	158	1,648	1.19	77
S5R17	23	1,662.60	1,412	2,997	1.18	78
S5R20	10	3,024.17	2,585	2,426	1.17	79
S2R24	2	282.73	242	269	1.17	80
S322	1	2.33	2	1,493	1.17	81
S221	5	98.23	86	471	1.14	82
S4R96M	6	52.45	46	1,455	1.14	83
S220	8	316.43	285	1,324	1.11	84
S259	4	958.15	863	1,096	1.11	85
S4R54L	14	2,405.62	2,201	2,283	1.09	86
S4R96L	11	129.97	119	1,729	1.09	87
S3R35L	10	1,050.88	990	2,095	1.06	88
S271	5	959.63	922	1,002	1.04	89
S382	5	104.05	100	954	1.04	90
S289	5	356.52	356	944	1.00	91
S214	1	1.00	1	982	1.00	92
S309	12	779.07	787	813	0.99	93
S3R37M	10	332.92	344	1,366	0.97	94
S371	4	21.18	22	630	0.96	95
S380	1	0.95	1	1,553	0.95	96
S395	7	1,502.60	1,587	1,216	0.95	97
S368	2	1.87	2	1,372	0.93	98
S312	7	1,191.67	1,301	1,944	0.92	99
S2R44	1	0.87	1	474	0.87	100
S353	5	216.05	250	1,352	0.86	101
S2R54	3	394.78	482	499	0.82	102
S434	1	763.13	944	995	0.81	103
S4R66	11	1,938.12	2,553	2,884	0.76	104
S392	10	4,183.27	5,542	1,530	0.75	105
S303	3	279.92	379	1,067	0.74	106
S237	4	62.97	86	523	0.73	107
S3R32L	8	1,173.55	1,665	1,240	0.70	108
S2R30	5	683.23	1,026	542	0.67	109
S286	13	1,246.25	1,888	1,003	0.66	110
S3R37L	15	1,123.18	1,801	2,047	0.62	111
S5R14	3	456.60	848	805	0.54	112
S5R18	5	423.65	795	1,683	0.53	113
S370	5	269.92	525	1,982	0.51	114

2024 STATEN ISLAND NON-NETWORK CAIDI FEEDERS
PSC CAIDI STANDARD: 1.50 HOURS
NUMBER OF NON-NETWORK FEEDERS: 187

Feeder Number	Number Interrupted	Cust-Hrs Affected	Cust Affected	Cust. Served	CAIDI	RANK
S215	5	194.45	387	1,750	0.50	115
S308	1	159.75	321	1,011	0.50	116
S2R19	1	8.70	18	321	0.48	117
S305	8	394.45	887	926	0.44	118
S372	6	170.32	402	742	0.42	119
S307	2	112.73	280	321	0.40	120
S5R10	7	310.98	808	2,234	0.38	121
S306	3	230.50	642	724	0.36	122
S422	2	230.33	805	701	0.29	123
S390	6	281.45	985	892	0.29	124
S366	2	37.40	133	948	0.28	125
S438	9	69.60	267	812	0.26	126
S5R29	5	300.05	1,362	1,477	0.22	127
S369	1	0.87	4	1,126	0.22	128
S381	4	268.68	1,250	1,959	0.21	129
S394	3	180.90	946	990	0.19	130
S428	2	87.00	491	513	0.18	131
S272	5	106.58	603	1,866	0.18	132

Note: Only feeders that resulted in customer outages in 2024 are listed and secondary customer interruptions are excluded.

SECTION 6

2024 POWER QUALITY REPORT

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MOMENTARY INTERRUPTIONS

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Report on Power Quality

The Company is committed to providing quality and reliable electric service to its customers. In support of this commitment the Power Quality Service Center (PQSC) was established in 1994 to monitor, study, and analyze the quality of electric service provided. The main objectives of the PQSC are to:

- Maintain a high level of power quality expertise
- Be the region's leading source of power quality information
- Provide guidance to customers on power quality issues

To support these objectives, the PQSC has created strategic alliances with:

- Electric Power Research Institute (EPRI)
- Center for Energy Advancement through Technological Innovation (CEATI)
- National Electric Energy Testing Research & Applications Center (NEETRAC)
- Industry experts and utility affiliations

These alliances allow the PQSC to stay in the forefront of the industry’s latest power quality issues by participating in new industry developments and studies for continuous improvement and enhancing knowledge of technical trends and expertise.

In 2024, Con Edison Power Quality Department hosted the annual PQView User Group Meeting at 4 Irving Place. Department representatives also virtually attended the EPRI and the CEATI Power Quality Interest group meetings and attended the PQ Week Training from EPRI.

Power Quality (PQ) continues to generate a high level of interest and awareness with customers and is included in the initial design of new facilities where it is relevant. Based on the specific needs of the customer, PQSC can develop and provide focused research as necessary. The research translates into reports that target the specific areas of the customer’s concerns.

Power Quality Information System

The Power Quality Information System (PQIS) serves as database for power quality information and is the starting point for all customer assistance calls and studies. Specific PQ tools and case studies aid in providing fast and economical answers to customer inquiries. Several software and web-based tools allow for further in-depth analysis of studies and possible solutions to power quality issues. Additional analysis tools use historical case studies to guide the user to a solution. The case studies databank has expanded each year from internal and external documented cases, while providing an ever-expanding database of information.

Maintaining Power Quality Awareness

Power Quality Monitoring History

The latest technology in power quality monitoring equipment continues to be tested and evaluated for future enhancements. In 2008, after 7 years of work and two phases of PQ project installations, all distribution substations were equipped with at least one power quality monitor. In 2009 another phase of the substation PQ project was initiated, the installation of two more monitors in the substations that had previously had only one, and with Ethernet communication that would offer faster, real-time data.

Current Power Quality Monitor Totals

In 2024, Con Edison had 188 Power Quality Monitors in Substations and 85 Network Power Quality Monitors; this excludes Mohansic and localized customer studies.

These monitors record all network power quality events in real time such as voltage transients, sags, swells, harmonics, and trends. The data collected from these instruments provides critical information needed to monitor the system. The ability to analyze data from the area substations and the network(s) they serve enhances the capability to respond to customer inquiries. This data, in conjunction with prior case studies and work that is done with research organizations, allows for comprehensive solutions to be obtained regarding power quality issues.

Reactance-to-Fault (RTF) and Second Fault Analysis

Power Quality developed and currently maintains a Reactance-to-Fault system that is used to help locate distribution feeder faults in all customer service areas. The software suite uses fault oscillography data collected from area substations when a medium voltage feeder automatically opens and:

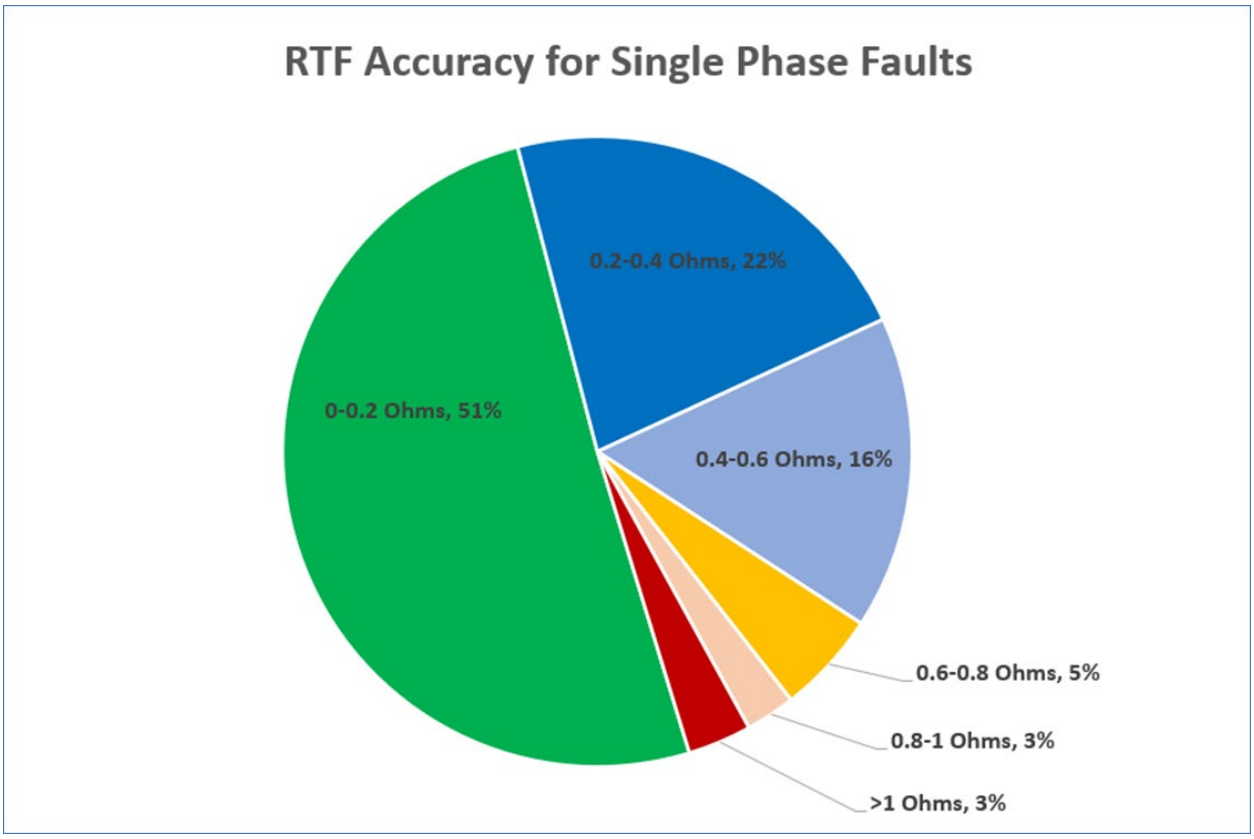
- Calculates the probable location of the original fault. This is accomplished by using PQView4 software together with existing Poly-Voltage-Load Flow (PVL) cable impedance data. This likely fault location is highlighted on an online field application map (HUD).
- Sends out automated notifications to regional control centers.
- Looks out for second faults that might develop while a feeder is alive on backfeed.
- Regional control centers then use all this data to determine the best way to bring a feeder back into service.

Reactance-to-Fault Accuracy in 2024

RTF continues to help reduce fault-locating time by an average of one hour.

The Ohm values in Figure 1 represent the accuracy in RTF estimates. The lower the Ohm value, the closer the estimated RTF is to the actual fault location.

Figure 1



Benchmarking

Through the continued sponsorship and participation in research organizations such as CEATI, EPRI, and NEETRAC, the Company has maintained an active role in addressing power quality issues of both customers and the industry as a whole. Con Edison is participating in research that addresses current issues, as well as future technologies, placing emphasis on gathering alternative solutions to help provide guidance to a diverse group of customers. Technology advancements in utility equipment and design are being studied and evaluated from a power quality perspective.

Customer Contact and Support

In 2024, Con Edison Distribution Engineering/Power Quality department's contribution, provided and accomplished:

- On-site assistance to 23 commercial, industrial, or residential customers with 38 visits. Off-site assistance was provided to 4 customers.
- There were 38 total Power Quality customer site visits to install/remove 52 Power Quality monitors, download data, and provide in person consultations.
- There were 9 total Power Quality site visits to MTA facilities to troubleshoot and remove 9 Power Quality monitors.
- Off-site Assistance was provided to at least 4 customers through phone and email consultations.
- There were 132 Power Quality PQ Node visits to install, remove, and troubleshoot; 149 Power Quality monitors in our Substations, Networks, Unit Substations, and the HTV-JFK monitoring and R&D projects.
- There were 124 Substation visits to address 131 RMS communication and troubleshooting issues, receiver upgrades, continuity and coil tests, and final connections, serving 64 networks.

The following three charts show the five-year customer contacts, the types of power quality issue, and the area of responsibility.

- Figures 2 shows the 5-year (2020-2024) counts of customer contacts with breakdown by type.
- Figures 3 shows the customer investigation complains by category.
- Figures 4 shows associated responsibility.

Figure 2: Five Year Customer Contacts (2020-2024)

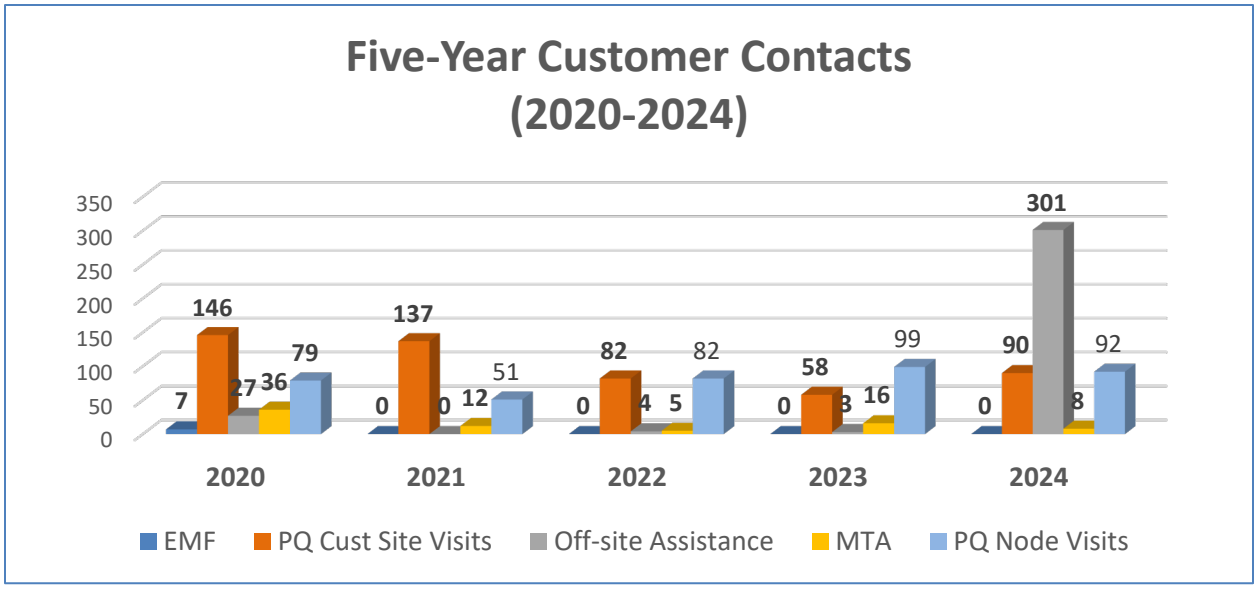


Figure 3: 2024 PQ Customer Investigation Complaints by Category

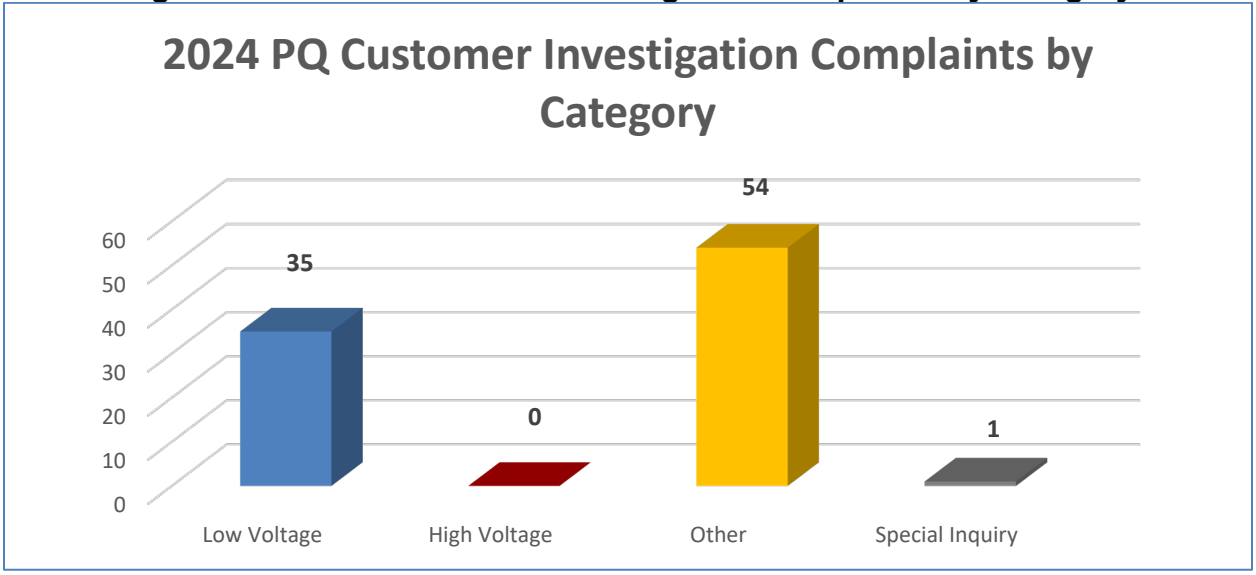
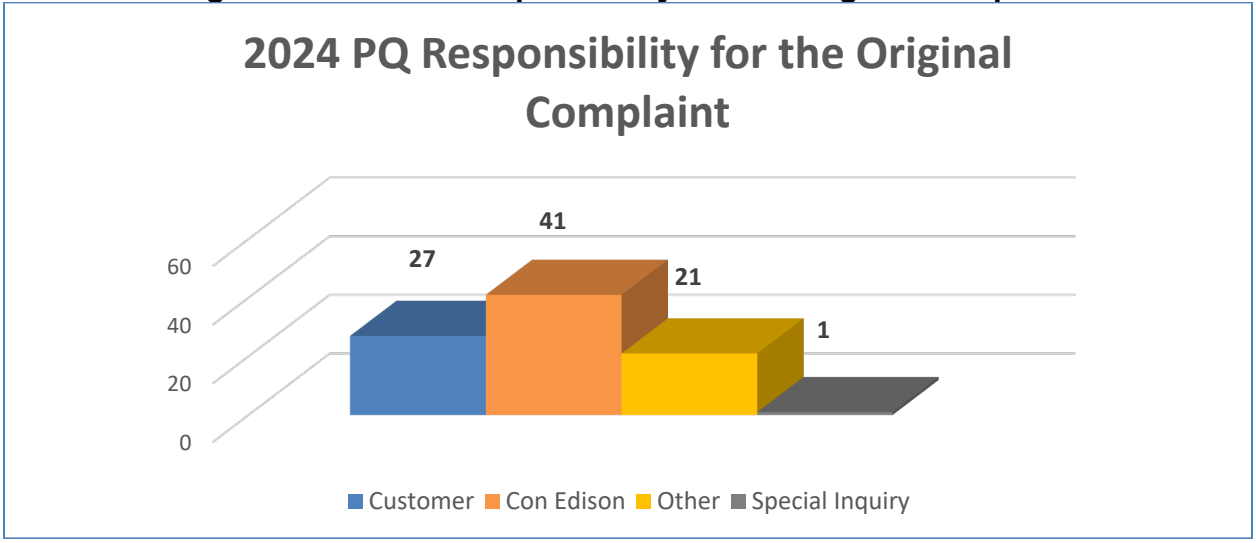


Figure 4: 2024 PQ Responsibility for the Original Complaint



Five Year Call Rate

During 2024, calls related to voltage quality were made throughout Con Edison's service territory at a rate of 723 per 100,000 customers; the rate is 668 calls per 100,000 customers if salt/snow event days are excluded.

A five-year call rate comparison and the 2024 breakdown of the five main categories of voltage quality calls are shown in the figures 5 and 6.

Figure 5: Five Year Customer Call Rate per 100,000 Customers

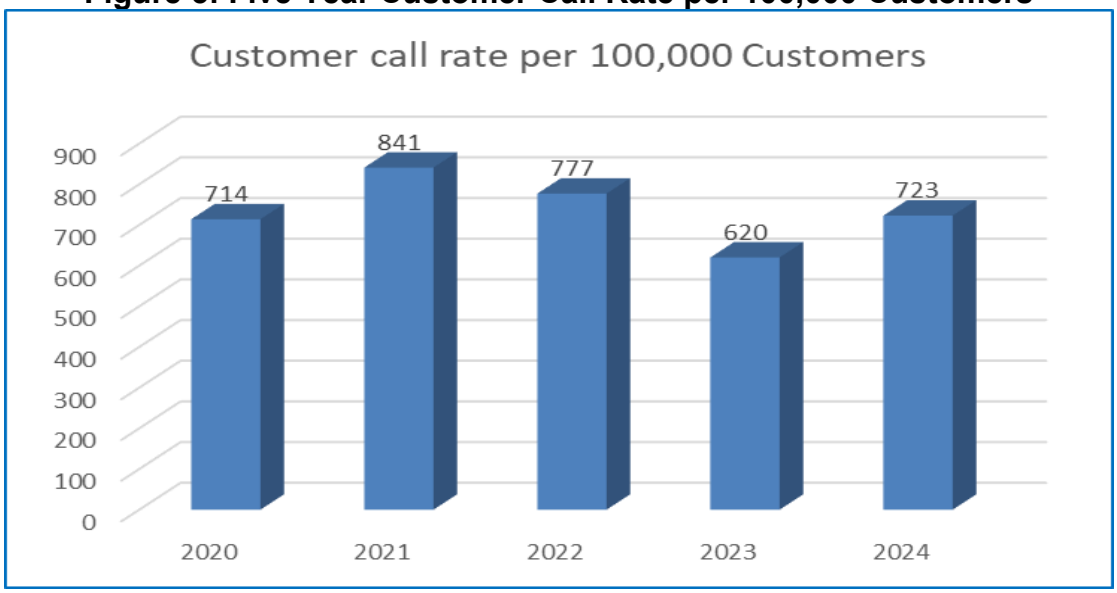
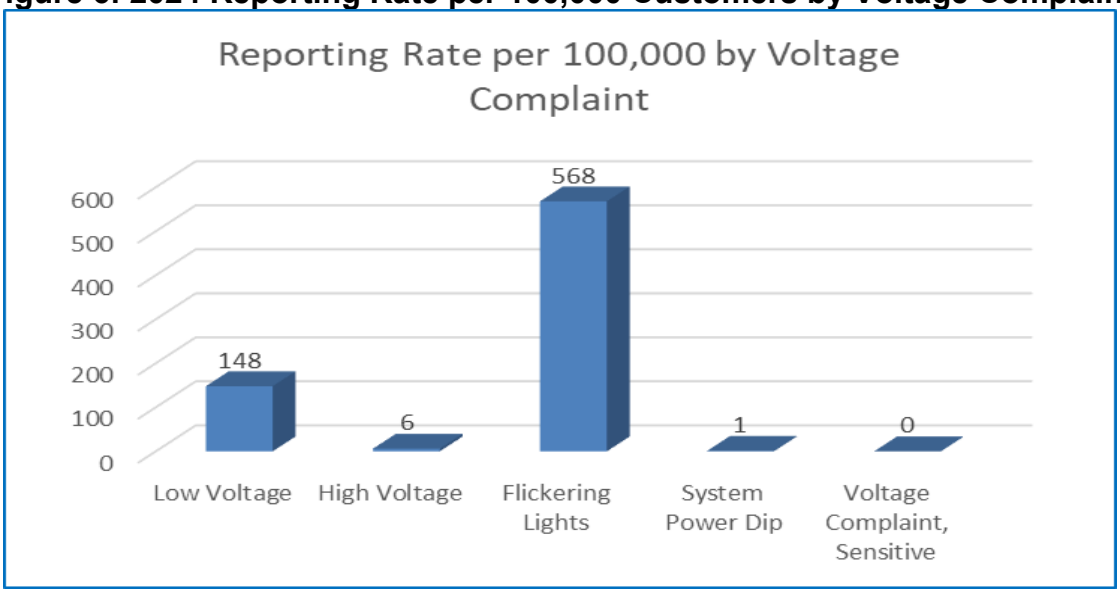


Figure 6: 2024 Reporting Rate per 100,000 Customers by Voltage Complaint



Figures 7 and 8 show 2024 breakdown of customer contacts of cause types and complaint investigation of voltage quality by operating regions.

Figure 7: PQ Customer Complaints by Region

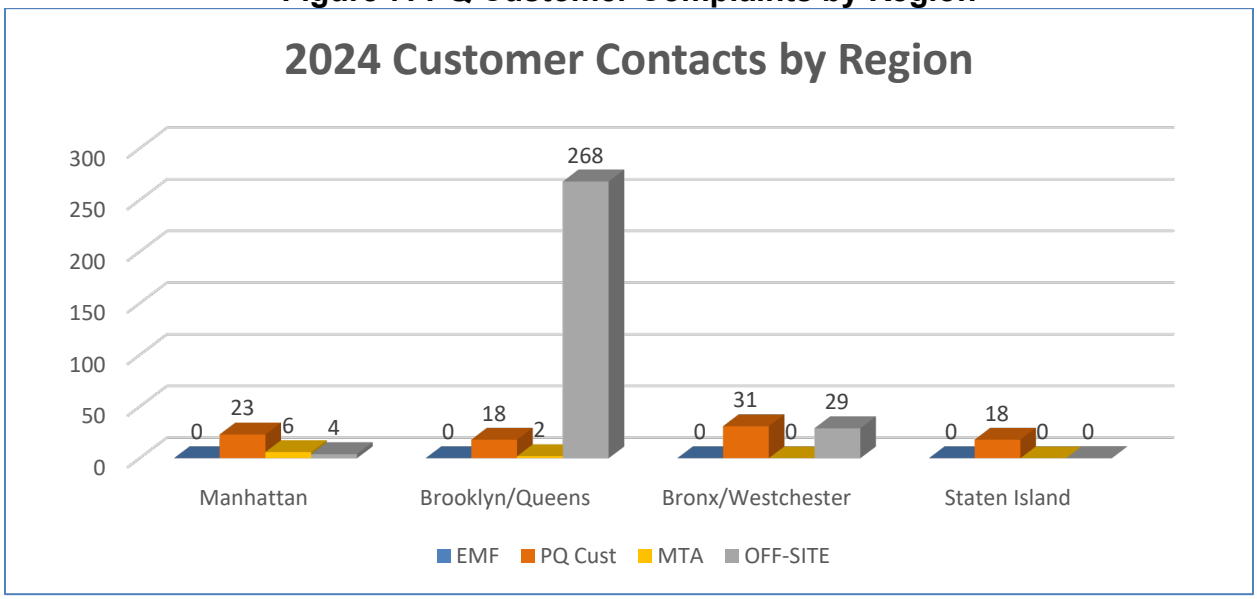
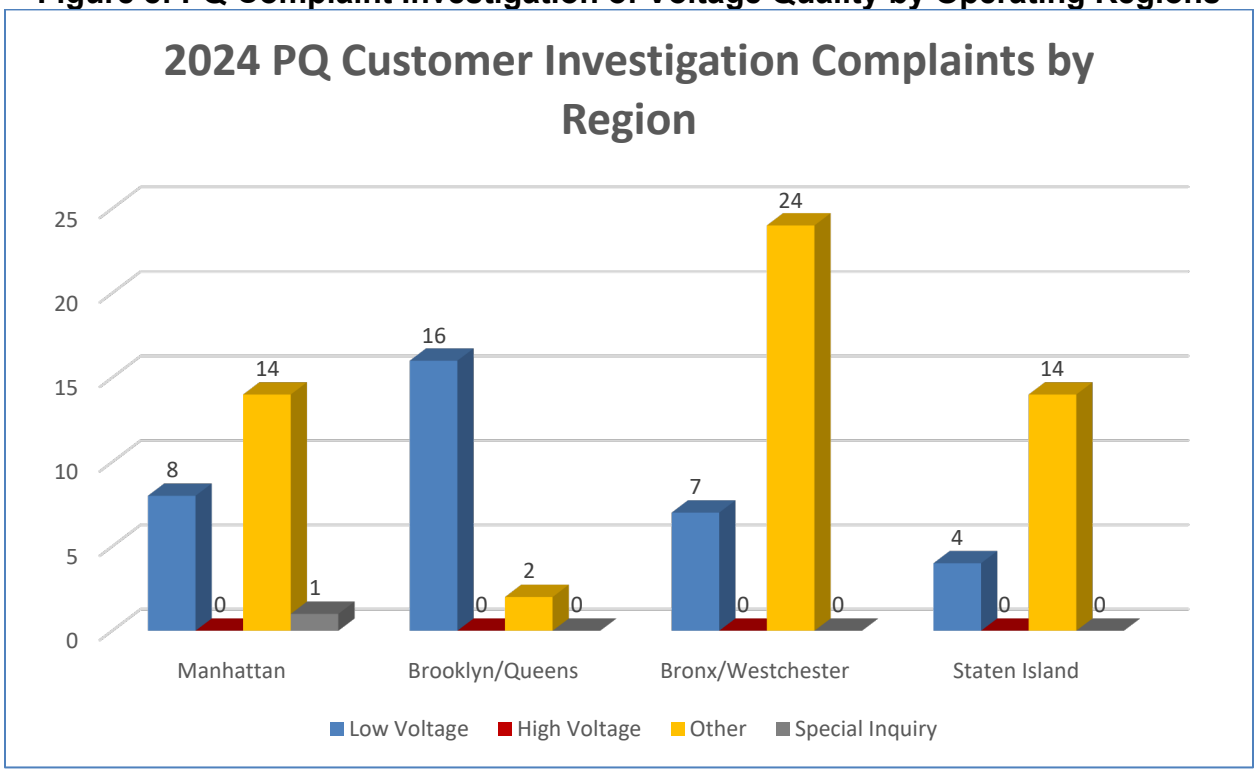


Figure 8: PQ Complaint Investigation of Voltage Quality by Operating Regions



The CEPQSC provides easy access to our services through a Toll-Free Customer Support Telephone Number (1-800-522-5635) and through e-mail at PQ@coned.com.

2024 MOMENTARY INTERRUPTIONS

The following table shows the MAIFI[1] by customer service area. Storm related activity is included in the momentary interruptions (MI).

	2020	2021	2022[1]	2023[1]	2024[1]
Bronx	5.85	4.45	2.71	0.74	0.67
Westchester	6.55	3.50	2.44	0.87	0.84
Brooklyn	4.67	2.47	2.52	1.34	1.71
Queens	4.63	2.95	0.43	0.12	0.26
Staten Island	3.12	1.76	4.47	0.81	0.36

The following tables provides a five-year list of momentaries by feeders for Bronx/Westchester, Staten Island and Brooklyn/Queens. The information includes momentary interruptions (MI) by Operating Area, Autoloop Name, Voltage Class (kV), and Number of Momentary Interruptions.

[1] Momentary Interruption (MI) and MAIFI were extracted from Oracle Analysis (OUA) 3.13 Momentary Outages reporting system starting in 2022 and 4.13 Momentary Outages reporting system starting in 2024, and it reports all non-network auto-loop and radial 4kV and 13 kV feeders.

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Bronx	1102-63U3	4	-	-	-	2	1
	5151	4	-	-	1	0	0
	5204	4	-	-	2	0	0
	5252	4	-	-	-	-	1
	5361	4	-	-	-	5	1
	5461	4	-	-	2	0	0
	7471	4	-	-	3	0	0
	7641	4	-	-	-	-	1
	7672	4	-	-	1	0	0
	7781	4	-	-	3	0	0
	City Island East	4	7	18	8	1	1
	City Island West	4	1	7	8	5	1
	Clason Point	13	8	14	17	6	4
	Gun Hill	13	18	12	20	16	6
	Laconia East	13	8	5	11	2	7
	Laconia West	13	27	11	27	11	7
	Neill Avenue	13	5	11	25	2	0
	Palisades	13	12	10	14	5	1
	Rhinelander	13	3	3	6	0	0
	Riverdale	13	27	16	21	6	5
	Sommers	13	8	2	6	0	0
	St. Peters	13	9	5	13	0	2
	Stadium	13	0	0	10	1	3
	Van Nest	13	5	7	15	0	0
	West Farms	13	8	10	4	0	1
	Woodlawn	13	11	3	4	8	3
	Bronx Total		157	134	221	70	45

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Westchester	10U1-78U1	4	-	-	1	0	0
	13W74	13	-	-	1	0	0
	13W80	13	-	-	3	0	0
	13W82	13	-	-	2	0	0
	14W03-14W04	13	-	-	-	1	0
	14U2	4	-	-	1	0	0
	14W03	13	-	-	1	0	0
	15U3-80U1	4	-	-	1	0	0
	15W12	13	-	-	1	0	0
	17W91	13	-	-	1	0	0
	19U2-77U3	4	-	-	1	0	0
	19U4-45U2	4	-	-	3	0	0
	1U4-53U1	4	-	-	-	1	1
	22U1-85U4	4	-	-	-	1	0
	22U3-85U1	4	-	-	1	0	0
	22U4-40U4	4	-	-	1	0	0
	23U1-84U2	4	-	-	1	0	0
	24U3-106U3	4	-	-	1	0	0
	26U2-91U1	4	-	-	-	1	0
	28U2-95U1	4	-	-	1	0	0
	29U2-71U2	4	-	-	-	-	1
	29U4-86U4	4	-	-	1	0	0
	30U2-52U2	4	-	-	1	0	0
	31U3-30U3	4	-	-	1	0	0
	34U4-86U3	4	-	-	1	0	0
	36U1-2U1	4	-	-	1	0	0
	411	13	-	-	1	0	0
	41U3	4	-	-	1	0	0
	43U2-43U3	4	-	-	4	0	0
	44U3-103U1	4	-	-	1	0	0
	4U3-106U2	4	-	-	1	0	0
	50U1-3U1	4	-	-	1	0	0
	51U1-43U5	4	-	-	1	0	0
	53U3-7U2	4	-	-	-	1	0
	55U1-16U1	4	-	-	1	0	0
	58U1-69U1	4	-	-	1	0	0
	59U1	4	-	-	2	0	0
	59U3	4	-	-	12	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Westchester	5U1-44U1	4	-	-	1	0	0
	5U3-88U2	4	-	-	1	0	0
	61U2-105U2	4	-	-	1	0	0
	64U2-89U3	4	-	-	1	0	0
	64U3	4	-	-	2	0	0
	66U5-74U3	4	-	-	1	0	0
	67U1-66U4	4	-	-	1	0	0
	69U3-25U2	4	-	-	-	-	1
	70U2-86U1	4	-	-	3	0	1
	70U3-54U3	4	-	-	-	-	1
	71U4	4	-	-	2	0	0
	79U1-16U2	4	-	-	3	0	1
	79U4-44U2	4	-	-	1	0	0
	7W45	13	-	-	4	0	0
	80U2-56U4	4	-	-	1	0	0
	82U1-13U4	4	-	-	-	1	0
	84U1-60U1	4	-	-	2	0	0
	86U2-42U1	4	-	-	-	1	0
	87U1-20U1	4	-	-	2	0	0
	89U4	4	-	-	1	0	0
	92U1-27U1	4	-	-	-	-	1
	93U2	4	-	-	7	0	0
	93U3-18U4	4	-	-	-	1	0
	98U1-60U4	4	-	-	1	0	0
	98U3-48U4	4	-	-	1	0	0
	99U2-2U2	4	-	-	2	0	0
	9W61	13	-	-	1	0	0
	Airport	13	13	9	11	1	0
	Aqueduct	13	0	0	6	33	7
	Ardsley	13	6	9	11	7	7
	Armonk	13	24	12	46	13	8
	Baldwin	13	-	-	24	26	12
	Banksville	13	10	12	31	5	12
	Battle Hill	13	12	5	27	1	1
	Bedford Road	13	21	7	7	1	15
	Benedict	13	-	-	-	7	13
	Bonwit	13	5	4	12	0	2
	Bowman	13	17	8	12	4	5
	Briarcliff	13	25	0	1	4	7

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Westchester	Business Park	13	25	18	0	0	0
	Byram	13	13	8	34	2	2
	Carpenter	13	22	8	3	8	3
	Central Avenue	13	10	13	22	4	3
	Chappaqua	4	-	-	2	0	0
	Chapel Hill	13	4	2	1	2	12
	City Island West	4	-	-	-	-	2
	Clove Brook	13	5	6	2	0	1
	Columbus	13	9	6	7	4	1
	Cortlandt	13	10	5	12	6	3
	Croton	13	12	7	13	9	2
	Crow Hill	13	4	9	24	2	2
	Davenport	13	17	8	44	3	28
	Division Street	13	11	3	5	1	3
	Don Bosco	13	7	7	27	3	4
	Eastchester	13	5	2	2	6	1
	Elmsford	13	5	14	17	2	12
	Fenimore	13	4	3	7	0	3
	Ferncliff	13	14	4	8	4	1
	Fleetwood	13	2	4	13	2	1
	Forest	13	-	-	2	0	0
	Fox Island	13	1	9	1	0	1
	Franklin Street	13	1	1	7	2	0
	Furnace Dock	4	-	-	2	0	0
	Furnace Dock	13	25	11	11	15	11
	Garden Avenue	13	5	2	5	0	0
	Glenwood	13	4	4	7	0	0
	Grasslands	13	22	14	14	3	1
	Greenville	13	15	2	7	9	5
	Greystone	13	2	3	0	0	0
	Griffen	13	14	6	10	3	21
	Hamilton	13	22	10	4	17	5
	Harbor Island	13	6	3	2	0	2
	Hardscrabble	13	-	-	1	2	10
	Harrison	13	24	3	8	0	0
	Hastings	13	42	7	6	2	3
	Heathcote	13	4	2	4	6	4
	Highland	13	-	-	1	1	2

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Westchester	Irvington	13	4	1	2	0	0
	John Walsh	13	-	-	1	0	0
	King Street	13	15	4	10	1	7
	Kitchawan	13	9	5	13	3	2
	Knollwood Park	4	-	-	1	0	0
	Lafayette	13	-	-	3	18	9
	Lake Street	13	9	5	23	2	0
	Larchmont	13	-	-	5	5	4
	Lawrence Park	4	-	-	2	0	0
	Lexington	13	-	-	10	7	4
	Lincoln	13	1	2	11	1	1
	Long Hill	13	18	5	67	13	2
	Ludlow	13	10	8	6	4	3
	Macquesten	13	16	7	18	9	18
	Manville	13	5	4	0	0	1
	Maple St	13	5	4	16	1	0
	Maryknoll	13	14	7	3	1	1
	McLean	13	10	8	9	0	2
	Meeting House	13	15	18	30	10	10
	Mill Road	13	16	5	2	1	0
	Milton Point	13	24	9	7	3	2
	Mount Hope	13	20	4	38	9	10
	Mount Kisco	13	29	26	34	13	3
	Mount Vernon	13	0	0	5	2	4
	New Castle	13	0	0	13	8	3
	New Rochelle	13	10	9	9	2	6
	Orchard	13	10	10	12	0	2
	Orienta	13	18	12	9	3	5
	Ossining	13	31	10	25	3	1
	Panas	13	2	0	1	19	4
	Parkview	13	9	1	7	0	2
	Pauling	13	-	-	3	11	16
	Peekskill	13	8	3	24	8	4
	Philipse Manor	13	9	12	14	5	1
	Pines Bridge	13	16	9	6	2	4
	Pleasantville	13	10	3	13	3	2
	Pocantico	13	39	12	76	18	10
	Portchester	13	8	9	8	1	4

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage	2020	2021	2022	2023	2024
Westchester	Premium Point	13	10	1	36	5	13
	Quaker Bridge	13	5	2	22	31	17
	Regent Street	13	3	2	3	0	2
	Ridge Street	13	11	3	6	3	3
	Roaringbrook	4	-	-	1	0	0
	Rye	13	18	12	26	3	5
	Sargent Place	13	6	4	10	1	2
	Scarborough	13	10	8	28	16	11
	SD10-SD11	4	4	4	0	1	2
	SD28-SD29	4	5	2	4	0	1
	SD37	4	5	4	4	0	0
	SD38	4	9	2	10	4	1
	SD40-SD41	4	5	3	1	0	0
	Shrub Oak	13	25	17	21	1	1
	Sing Sing	13	6	3	7	6	3
	Sleepy Hollow	13	4	3	3	3	0
	Southside	13	8	4	2	10	5
	Sprout Brook	13	16	10	0	7	5
	St Johns	13	7	7	8	1	3
	Sunnyside	13	25	0	7	10	1
	Tarrytown	13	20	28	24	2	4
	Teatown	13	2	0	28	6	3
	Terrace	13	15	11	10	13	5
	Thornwood	13	13	11	27	13	11
	Tibbets Avenue	13	7	2	4	8	1
	Tuckahoe	13	16	8	9	2	2
	Union	13	15	3	15	5	9
	Villard	13	-	-	-	0	2
	Wampus Lake	13	17	19	10	8	4
	Warburton	13	20	5	3	1	1
	Washington Street	13	17	5	21	16	7
	Whippoorwill	13	23	11	24	6	0
	White Plains	13	5	6	12	3	6
	Wilmot	13	15	12	4	14	4
	Winans	13	13	2	0	0	2
	Windmill Farms	13	21	7	36	11	4
	Winged Foot	13	0	0	16	2	8
	Wolden Road	13	8	1	5	0	0
	Wolfs Lane	4	-	-	1	0	0
	Yonkers	13	5	9	24	5	4
	Westchester Total		1303	713	1622	631	544

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Brooklyn	B3007	4	-	-	1	0	0
	B3015	4	-	-	1	0	0
	B3020	4	-	-	-	1	0
	B3023	4	-	-	3	0	0
	B3025	4	-	-	-	-	6
	B3033	4	-	-	1	0	0
	B3036	4	-	-	-	0	0
	B3040	4	-	-	1	0	3
	B3042-SD3110	4	-	-	-	-	1
	B3043	4	-	-	1	0	0
	B3044	4	-	-	1	0	0
	B3050	4	-	-	1	0	0
	B3056	4	-	-	1	1	0
	Coney Island	27	0	0	3	7	7
	Cropsey Loop	27	23	7	18	0	2
	Dyker	27	2	5	3	10	10
	Fort Hamilton	27	-	-	11	4	12
	Gerritsen Beach	27	0	0	0	2	0
	Gravesend	27	0	0	20	2	6
	Greenpoint	4	0	1	7	0	0
	L1	4	-	-	1	0	0
	L10	4	-	-	5	0	0
	L11	4	-	-	18	0	0
	L12	4	-	-	8	0	0
	L16	4	-	-	9	0	0
	L18	4	-	-	6	0	0
	L25	4	-	-	4	0	0
	L26	4	-	-	2	0	0
	L3	4	-	-	1	0	0
	L4	4	-	-	1	0	0
	L9	4	-	-	1	0	0
	Lombardy	4	4	5	5	3	1
	Madison	27	-	-	25	13	6
	Marine Park	27	23	12	11	22	18
	Midwood	27	11	3	13	6	15
	Red Hook	27	19	23	11	2	3
	SD3108-SD3109	4	-	-	1	0	0
	SD3110	4	8	1	0	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Brooklyn	SD3111	4	0	0	3	0	0
	SD3112-3057	4	-	-	-	2	0
	SD3113	4	2	2	1	0	1
	SD3117-SD3116	4	-	-	-	1	1
	SD3142	4	-	-	2	0	0
	SD3143	4	1	2	4	0	0
	SD3144	4	1	2	1	0	0
	Starr Street	4	3	0	0	6	1
	Tilden	27	19	5	9	6	17
	Vandervoort	27	4	9	0	0	0
	Varick	4	1	0	0	0	0
	Voorhies	27	-	-	7	11	11
	Brooklyn Total		121	77	222	99	121

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Queens	Q1202-SD2701	4	0	0	5	1	0
	Q1203	4	2	0	0	0	0
	Q1204	4	0	0	5	0	0
	Q1208-SD2700	4	-	-	5	0	1
	Q1209	4	0	0	11	0	0
	Q1294	4	-	-	5	0	0
	Q1295	4	-	-	1	0	0
	Q1357-SD2702	4	-	-	-	-	7
	Q1518-SD2713	4	-	-	-	-	1
	Q140AVE	4	-	-	1	0	0
	Q1432	4	-	-	1	0	0
	Q1497	4	-	-	2	0	0
	Q1501-SD2711	4	-	-	1	0	0
	Q1518-SD2713	4	-	-	2	0	0
	Q1584	4	-	-	19	0	0
	Q1592-SD2712	4	-	-	-	1	0
	Q160AV2	4	-	-	1	0	0
	Q1802-SD2714	4	-	-	1	1	0
	Q1871	4	-	-	-	-	3
	Q1915	4	-	-	7	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Queens	Q1986	4	-	-	-	-	4
	Q2263_1	4	-	-	1	0	0
	Q4451-SD2709	4	-	-	-	-	1
	Q4654	4	-	-	3	1	9
	Q4762	4	-	-	7	0	0
	Q4787	4	-	-	1	0	0
	Q5321	4	-	-	1	0	0
	Q5473	4	-	-	1	0	0
	Q5603-SD2724	4	-	-	2	2	0
	Q5604	4	-	-	1	0	0
	Q5608-SD2738	4	-	-	1	0	1
	Q5701	4	-	-	1	0	0
	Q5736	4	-	-	4	0	0
	Q6163	4	-	-	9	0	0
	Q6262	4	-	-	5	0	0
	Q6402	4	-	-	1	0	0
	Q6421-SD2707	4	-	-	-	2	1
	Q6505-SD2705	4	-	-	1	0	0
	Q6613	4	-	-	3	0	0
	Q7564	4	-	-	8	0	0
	Q7638	4	-	-	2	1	1
	Q7831	4	-	-	2	0	0
	Q7907	4	-	-	8	0	0
	Q8117	4	-	-	1	0	0
	Q8124	4	-	-	1	0	0
	Q8185	4	-	-	-	1	0
	Q8341	4	-	-	2	0	0
	Q8472	4	-	-	-	1	0
	Q8542	4	-	-	2	0	0
	Q8716	4	-	-	4	0	0
	Q8771-SD2719	4	-	-	1	1	0
	Q9143	4	-	-	1	0	3
	Q9251	4	-	-	1	0	0
	Q9324	4	-	-	1	0	0
	Q9344	4	-	-	1	0	0
	Q9359	4	-	-	1	0	0
	Q9387	4	-	-	1	0	0
	Q9434	4	-	-	1	0	0
	Q9458	4	-	-	1	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Queens	Q9473	4	-	-	-	-	1
	Q9527	4	-	-	-	-	1
	Q9532	4	-	-	1	0	0
	Q9554	4	-	-	3	2	0
	Q9624	4	-	-	1	1	0
	Q9850	4	-	-	1	5	0
	CNGMWEST	4	-	-	1	0	0
	City Line	4	3	8	0	0	0
	Cypress Hills	4	9	4	0	0	5
	Douglaston	27	12	3	3	2	12
	Haberman	27	-	-	7	3	0
	Hollis-2	4	-	-	2	0	0
	Hollis-3	4	-	-	1	0	2
	Juniper Valley	27	17	14	15	7	0
	Livonia-2	4	-	-	1	0	0
	Laurel Hill	27	22	13	1	1	16
	Middle Village	27	13	12	11	1	7
	Parkway	4	-	-	1	0	0
	SD2700	4	9	0	0	0	0
	SD2701	4	4	1	0	0	0
	SD2702	4	9	3	0	0	0
	SD2703	4	8	1	3	0	0
	SD2704	4	1	2	0	0	0
	SD2705	4	3	0	1	0	0
	SD2707	4	5	1	0	0	0
	SD2708	4	1	2	0	0	0
	SD2709	4	6	0	0	0	0
	SD2711	4	0	2	0	0	0
	SD2712	4	2	2	0	0	0
	SD2713	4	2	1	0	0	0
	SD2714	4	1	2	0	0	0
	SD2715	4	2	1	0	0	0
	SD2716-SD2735	4	11	2	0	0	0
	SD2718	4	3	2	0	0	0
	SD2719	4	3	3	0	0	0
	SD2720	4	3	0	0	0	0
	SD2721-SD2729	4	9	6	0	1	0
	SD2724	4	3	0	0	0	0
	SD2728-SD2732	4	9	4	9	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Queens	SD2733-SD2727	4	6	7	2	0	1
	SD2730-SD2731	4	4	8	0	2	0
	SD2734	4	1	1	2	0	0
	SD2735-SD2716	4	-	-	1	0	2
	SD2736-SD2737	4	2	1	5	0	1
	SD2740-SD2739	4	9	5	1	1	0
	SD3151-SD3152	4	-	-	3	0	0
	SD3153-SD2710	4	-	-	1	1	2
	SD3154-SD3100	4	2	1	5	0	0
	SD2738	4	4	1	0	0	0
	Whitestone	27	12	3	7	0	1
	Queens Total		212	116	237	39	83

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Staten Island	1R16-1R28	13	7	3	3	0	1
	1R32-1R27	13	-	-	-	-	7
	1R38-1R26	13	6	4	7	3	0
	1R82	13	1	3	6	0	0
	207	4	-	-	1	0	0
	212	4	-	-	1	0	0
	215	4	-	-	1	0	1
	216	4	-	-	1	0	0
	218	4	-	-	4	0	0
	219	4	-	-	4	0	0
	222	4	-	-	1	0	0
	237	4	-	-	1	0	0
	250	4	-	-	3	0	1
	256	4	-	-	-	-	1
	263	4	-	-	-	1	0
	271	4	-	-	1	0	0
	276	4	-	-	1	1	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Staten Island	289	4	-	-	1	0	0
	210-211	4	2	0	0	0	0
	218-390-395	4	1	0	0	0	0
	2R13-2R19	13	12	8	7	0	0
	2R28-2R34	13	6	3	5	5	0
	2R30-2R24	13	4	4	3	3	0
	2R39-2R44	13	4	7	1	5	0
	2R54-2R49	13	4	12	3	0	1
	2R91-4R86L	13	7	5	65	6	4
	303	4	-	-	1	0	0
	305	4	-	-	1	0	0
	308	4	-	-	1	0	0
	309	4	-	-	1	0	0
	311	4	-	-	1	0	0
	322	4	-	-	1	0	0
	323	4	-	-	1	0	0
	365	4	-	-	1	0	2
	367	4	-	-	1	0	0
	368	4	-	-	1	0	0
	371	4	-	-	4	0	0
	380	4	-	-	2	0	0
	382	4	-	-	1	0	0
	392	4	-	-	2	0	0
	394	4	-	-	7	0	0
	304-309-308	4	0	0	0	0	0
	305-307-313	4	2	2	0	0	0
	310-306	4	1	2	0	0	0
	33R01-33R27	33	0	0	0	0	0
	33R03-33R30	33	0	1	0	0	0
	33R04-33R14	33	2	2	0	0	0
	33R05-33R29	33	0	0	0	0	0
	33R07-33R08	33	1	3	0	0	0
	33R15-33R36	33	2	3	0	0	0
	33R35-33R35	33	0	0	0	0	0
	392-212	4	7	3	0	0	0
	394-216	4	1	0	0	0	0
	3R30	13	-	-	6	0	0
	3R31	13	-	-	14	0	0
	3R31-3R35	13	-	-	17	0	0

MOMENTARY INTERRUPTIONS (MI)

Operating Area	Autoloop Name	Voltage Class (KV)	2020	2021	2022	2023	2024
Staten Island	3R31-5R11	13	20	10	9	6	0
	3R31L	13	-	-	4	0	0
	3R31M	13	-	-	2	0	0
	3R31L-3R35L	13	22	6	0	0	0
	3R32-5R22	13	9	1	15	4	1
	3R33L-3R37L	13	17	8	24	0	0
	3R33-5R23	13	5	7	16	7	5
	3R34-3R30	13	10	2	12	2	1
	3R36-3R32	13	21	3	18	0	0
	3R36-5R16	13	11	4	36	5	6
	3R37	13	-	-	18	0	0
	3R37L	13	-	-	3	0	0
	422-428	4	1	0	6	4	2
	424-259	4	8	0	0	0	0
	434-367	4	0	1	0	0	0
	438-250	4	1	0	0	2	1
	4R54-4R56	13	5	0	8	2	0
	4R56-4R54	13	2	1	7	0	0
	4R64	13	4	2	16	0	0
	4R66	13	4	2	18	0	0
	4R74L-4R76L	13	7	5	12	1	0
	4R76-1R81	13	18	18	19	1	2
	4R96-2R92	13	8	5	21	0	0
	4R96-4R86	13	4	2	32	0	0
	5R13-5R26	13	-	-	12	6	2
	5R14-5R24	13	6	1	14	6	3
	5R15-3R35	13	9	7	9	0	1
	5R15S1	13	-	-	8	0	0
	5R15S2	13	-	-	13	0	0
	5R17-3R37	13	5	7	9	2	3
	5R18-5R10	13	13	7	25	6	0
	5R19-5R29	13	6	10	14	10	13
	5R20-3R30	13	5	2	16	3	2
	5R27-5R28	13	12	9	10	3	2
	Arlington-2	4	-	-	1	0	0
	Port Richmond	4	-	-	3	0	0
	Terrance-2	4	-	-	14	0	0
	Staten Island Total		303	185	627	94	62

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SECTION 7

SELECTED UNDERGROUND NETWORKS

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2024 SELECTED UNDERGROUND NETWORKS

This section reports on the Selected Underground Networks and presents associated technical information on primary feeders, transformers, substation, and secondary cable and several other miscellaneous items as outlined through the section. The information is provided annually as part of the 2007 request from the NYS Department of Public Service.

SELECTED UNDERGROUND NETWORKS

The Selected Underground Networks are the top ten ranked networks based on each network's average Network Reliability Index (NRI) ranking over the past five years[1]. The following ranking information is shown for each network: average five-year NRI; reporting year NRI; customer served; and peak megawatt (MW) load.

2024 Selected Underground Networks

Network	5 Year (2020-2024) NRI Avg. Ranking	2024 NRI Ranking	2024 Customers Served Ranking	2024 Peak Load (MW) Ranking
Williamsburg	1	1	5	3
Ridgewood	2	3	9	14
Central Bronx	3	6	24	22
West Bronx	4	20	20	10
Fordham	5	11	6	7
Southeast Bronx	6	16	15	18
Northeast Bronx	7	9	11	40
Borough Hall	8	13	26	5
Jamaica	9	7	1	1
Park slope	10	4	8	15
Long Island City	40	31	14	9

[1] If the Long Island City network is one of the top ten, an additional network will be added to the list of selected networks.

PRIMARY FEEDER INFORMATION FOR SELECTED NETWORKS

For each of the selected networks, the following 2024 primary feeder information is provided below:

- Total number of Cut-In Open Automatics (CIOA) per feeder.
- Percentage and amount (sections) of Paper-Insulated Lead-Covered Cable.
- Quantity of 2W-1W Elastimold and 3W-1W Raychem stop-joints.
- Summary of full and modified High Potential ("Hi-Pot") Testings, identifying the feeders test, the date of testing, a description, and the result of each test.

2024 CIOA by Network

Network Name	CIOA Total
Williamsburg	10
Ridgewood	5
Central Bronx	1
West Bronx	4
Fordham	4
Southeast Bronx	0
Northeast Bronx	3
Borough Hall	10
Jamaica	7
Park slope	5
Long Island City	7

2024 CIOA by Feeder[2] and Network

Network Name	Feeder	CIOA
Williamsburg	6B41	1
Williamsburg	6B43	2
Williamsburg	6B47	1
Williamsburg	6B49	1
Williamsburg	6B53	1
Williamsburg	6B54	2
Williamsburg	6B57	2

[2] Only feeders in the network that experienced a CIOA are listed.

2024 CIOA by Feeder[2] and Network (Cont.)

Network Name	Feeder	CIOA
Ridgewood	5B29	1
Ridgewood	5B35	4
Central Bronx	4X46	1
West Bronx	2X01	1
West Bronx	2X03	1
West Bronx	2X22	1
West Bronx	2X30	1
Fordham	3X72	1
Fordham	3X73	1
Fordham	3X77	2
Northeast Bronx	5X31	1
Northeast Bronx	5X32	1
Northeast Bronx	5X34	1
Borough Hall	1B55	1
Borough Hall	1B57	1
Borough Hall	1B58	1
Borough Hall	1B60	1
Borough Hall	1B66	2
Borough Hall	1B68	1
Borough Hall	1B69	2
Borough Hall	1B70	1
Jamaica	5Q33	1
Jamaica	5Q34	1
Jamaica	5Q38	1
Jamaica	5Q39	2
Jamaica	5Q48	1
Jamaica	5Q53	1
Park slope	2B02	1
Park slope	2B03	1
Park slope	2B05	1
Park slope	2B14	1
Park slope	2B15	1
Long Island City	1Q07	1
Long Island City	1Q08	1

2024 CIOA by Feeder[2] and Network (Cont.)

Network Name	Feeder	CIOA
Long Island City	01Q12	1
Long Island City	01Q15	1
Long Island City	01Q20	2
Long Island City	01Q22	1

Total Number of PILC Sections and Percent of PILC Cable

Network Name	Total Sections PILC Cable	Percent PILC Cable
Williamsburg	3	0.06%
Ridgewood	5	0.13%
Central Bronx	273	8.27%
West Bronx	343	8.07%
Fordham	484	12.66%
Southeast Bronx	208	6.64%
Northeast Bronx	123	6.94%
Borough Hall	157	3.77%
Jamaica	196	3.34%
Park slope	7	0.22%
Long Island City	91	2.40%

Quantity of 2W-1W Elastimold and 3W-1W Raychem Stop Joints

Network Name	Elastimold 2W-1W Stop-Joints	Raychem 3W-1W Stop-Joints
Williamsburg	0	0
Ridgewood	0	1
Central Bronx	0	194
West Bronx	0	189
Fordham	0	258
Southeast Bronx	0	154
Northeast Bronx	0	66
Borough Hall	0	83
Jamaica	0	93
Park slope	0	7
Long Island City	0	26

Summary of Hi-Pot Testing

In 2024, the Company performed 216 Hi-Pot tests on 117 feeders in the selected 11 networks (see the summary table below).

2024 Hi-Pot Test Summary

Network Name	NET Code	Feeder Count	Feeders Tested	30 Minute Test	5 Minute Test	Pass	Fail	Total Tests
Williamsburg	6B	24	14	0	31	24	7	31
Ridgewood	5B	15	6	0	20	15	5	20
Central Bronx	4X	21	9	0	18	13	5	18
West Bronx	2X	30	12	0	14	14	0	14
Fordham	3X	26	13	1	20	17	4	21
Southeast Bronx	7X	22	11	0	21	17	4	21
Northeast Bronx	5X	12	4	0	4	4	0	4
Borough Hall	1B	23	17	0	35	27	8	35
Jamaica	5Q	32	18	0	34	26	8	34
Park Slope	2B	16	2	0	3	3	0	3
Long Island City	1Q	24	11	1	14	15	0	15
Totals		**245**	**117**	**2**	**214**	**175**	**41**	**216**

Of the 216 tests performed in the selected networks, 214 were five-minutes tests and 2 were thirty-minute test. In addition, the selected networks received a total of 45 Hi-Pot tests during the summer period (all but one was a five-minute test). The following table shows the details of each feeder's Hi-pot for 2024.

Summary of High Potential Test

Network	Feeder Name	Card Type	Test Date	Test Duration	Result
SOUTHEAST NETWORK	7X83	Auto	01/06/24 03:11	5	Passed
LONG ISLAND CITY NETWORK	1Q06	Auto	01/10/24 00:33	5	Passed
FORDHAM NETWORK	3X68	Auto	01/11/24 06:00	5	Passed
LONG ISLAND CITY NETWORK	1Q19	OOE1	01/13/24 06:08	5	Passed
CENTRAL BRONX NETWORK	4X46	Auto	01/26/24 15:33	5	Passed
JAMAICA NETWORK	5Q30	Auto	01/29/24 03:04	5	Passed
JAMAICA NETWORK	5Q59	Auto	02/02/24 01:20	5	Failed
JAMAICA NETWORK	5Q61	OOE2	02/04/24 02:40	5	Failed
JAMAICA NETWORK	5Q61	FOT	02/05/24 20:56	5	Passed
CENTRAL BRONX NETWORK	4X63	Auto	02/08/24 04:40	5	Passed
BORO HALL NETWORK	1B53	OOE2	02/09/24 04:00	5	Passed
LONG ISLAND CITY NETWORK	1Q19	Auto	02/10/24 15:03	5	Passed
SOUTHEAST NETWORK	7X84	FOT	02/12/24 08:33	5	Passed
LONG ISLAND CITY NETWORK	1Q16	SCHD	02/15/24 05:35	5	Passed
LONG ISLAND CITY NETWORK	1Q16	Auto	02/15/24 12:08	30	Passed
LONG ISLAND CITY NETWORK	1Q16	Auto	02/21/24 17:41	5	Passed
JAMAICA NETWORK	5Q58	FOT	02/24/24 14:11	5	Passed
WEST BRONX NETWORK	2X12	SCHD	02/26/24 03:31	5	Passed
JAMAICA NETWORK	5Q52	Auto	02/28/24 02:22	5	Passed
SOUTHEAST NETWORK	7X79	Auto	02/28/24 17:22	5	Passed
FORDHAM NETWORK	3X61	Auto	02/28/24 22:02	5	Failed
FORDHAM NETWORK	3X68	Auto	02/29/24 07:26	5	Passed
JAMAICA NETWORK	5Q61	Auto	02/29/24 13:40	5	Passed
FORDHAM NETWORK	3X61	FOT	03/01/24 15:48	5	Failed
WILLIAMSBURG NETWORK	6B54	OOE2	03/02/24 06:26	5	Failed
FORDHAM NETWORK	3X61	FOT	03/03/24 13:15	5	Passed
BORO HALL NETWORK	1B51	SCHD	03/04/24 05:07	5	Passed
WEST BRONX NETWORK	2X03	SCHD	03/04/24 09:41	5	Passed
WILLIAMSBURG NETWORK	6B54	FOT	03/04/24 21:02	5	Passed
JAMAICA NETWORK	5Q58	Auto	03/10/24 03:01	5	Passed
SOUTHEAST NETWORK	7X81	Auto	03/12/24 05:04	5	Passed
JAMAICA NETWORK	5Q58	FOT	03/12/24 17:05	5	Passed
BORO HALL NETWORK	1B62	OOE2	03/12/24 21:20	5	Passed
FORDHAM NETWORK	3X67	SCHD	03/14/24 00:29	5	Passed
RIDGEWOOD NETWORK	5B35	FOT	03/16/24 05:20	5	Passed
JAMAICA NETWORK	5Q44	FOT	03/16/24 15:27	5	Passed
SOUTHEAST NETWORK	7X88	SCHD	03/17/24 13:24	5	Failed
CENTRAL BRONX NETWORK	4X41	FOT	03/17/24 19:21	5	Failed
SOUTHEAST NETWORK	7X88	FOT	03/18/24 11:17	5	Failed
SOUTHEAST NETWORK	7X88	FOT	03/18/24 13:19	5	Passed
RIDGEWOOD NETWORK	5B35	CIOA	03/19/24 09:48	5	Failed
CENTRAL BRONX NETWORK	4X41	FOT	03/20/24 06:24	5	Passed
CENTRAL BRONX NETWORK	4X41	FOT	03/20/24 12:22	5	Passed
WILLIAMSBURG NETWORK	6B53	Auto	03/21/24 10:25	5	Passed
RIDGEWOOD NETWORK	5B35	FOT	03/21/24 13:46	5	Passed
RIDGEWOOD NETWORK	5B35	Auto	03/25/24 04:00	5	Passed

Summary of High Potential Test (Cont.)

Network	Feeder Name	Card Type	Test Date	Test Duration	Result
WILLIAMSBURG NETWORK	6B52	Auto	03/25/24 07:19	5	Passed
BORO HALL NETWORK	1B61	SCHD	03/26/24 12:27	5	Failed
BORO HALL NETWORK	1B61	FOT	03/27/24 21:58	5	Failed
RIDGEWOOD NETWORK	5B35	Auto	03/28/24 01:12	5	Passed
BORO HALL NETWORK	1B61	FOT	03/29/24 07:35	5	Passed
SOUTHEAST NETWORK	7X88	Auto	04/01/24 08:08	5	Passed
WILLIAMSBURG NETWORK	6B52	FOT	04/02/24 04:45	5	Failed
WILLIAMSBURG NETWORK	6B52	FOT	04/02/24 09:09	5	Passed
SOUTHEAST NETWORK	7X92	SCHD	04/03/24 13:38	5	Passed
BORO HALL NETWORK	1B55	OOE2	04/11/24 13:30	5	Passed
JAMAICA NETWORK	5Q31	Auto	04/12/24 21:50	5	Passed
SOUTHEAST NETWORK	7X84	SCHD	04/13/24 15:04	5	Passed
WILLIAMSBURG NETWORK	6B43	SCHD	04/14/24 04:53	5	Passed
WILLIAMSBURG NETWORK	6B49	Auto	04/14/24 17:00	5	Passed
JAMAICA NETWORK	5Q31	Auto	04/15/24 10:49	5	Passed
WILLIAMSBURG NETWORK	6B43	CIOA	04/15/24 19:38	5	Passed
CENTRAL BRONX NETWORK	4X63	Auto	04/17/24 04:30	5	Passed
CENTRAL BRONX NETWORK	4X47	SCHD	04/18/24 16:56	5	Failed
NORTHEAST NETWORK	5X37	SCHD	04/18/24 19:19	5	Passed
WEST BRONX NETWORK	2X01	Auto	04/19/24 08:04	5	Passed
WILLIAMSBURG NETWORK	6B49	Auto	04/20/24 10:35	5	Passed
CENTRAL BRONX NETWORK	4X47	FOT	04/20/24 21:06	5	Failed
CENTRAL BRONX NETWORK	4X47	FOT	04/23/24 10:29	5	Failed
CENTRAL BRONX NETWORK	4X47	FOT	04/25/24 02:07	5	Passed
FORDHAM NETWORK	3X71	Auto	04/26/24 14:27	5	Failed
WILLIAMSBURG NETWORK	6B47	SCHD	04/26/24 20:52	5	Failed
JAMAICA NETWORK	5Q56	SCHD	04/27/24 15:31	5	Passed
WILLIAMSBURG NETWORK	6B47	FOT	04/28/24 11:59	5	Passed
BORO HALL NETWORK	1B58	SCHD	04/28/24 15:56	5	Passed
WILLIAMSBURG NETWORK	6B47	Auto	04/30/24 01:27	5	Passed
SOUTHEAST NETWORK	7X77	Auto	04/30/24 13:36	5	Passed
CENTRAL BRONX NETWORK	4X47	Auto	04/30/24 18:45	5	Failed
RIDGEWOOD NETWORK	5B21	Auto	04/30/24 21:30	5	Passed
BORO HALL NETWORK	1B54	Auto	05/01/24 19:28	5	Passed
CENTRAL BRONX NETWORK	4X47	FOT	05/01/24 20:13	5	Passed
FORDHAM NETWORK	3X71	FOT	05/04/24 01:53	5	Passed
BORO HALL NETWORK	1B54	FOT	05/04/24 08:57	5	Failed
JAMAICA NETWORK	5Q43	Auto	05/05/24 02:07	5	Failed
CENTRAL BRONX NETWORK	4X40	SCHD	05/05/24 18:17	5	Passed
WILLIAMSBURG NETWORK	6B61	SCHD	05/06/24 06:04	5	Passed
SOUTHEAST NETWORK	7X87	SCHD	05/06/24 22:35	5	Passed
FORDHAM NETWORK	3X75	Auto	05/07/24 13:10	5	Passed
JAMAICA NETWORK	5Q33	Auto	05/07/24 20:55	5	Passed
PARK SLOPE NETWORK	2B15	CIOA	05/08/24 04:01	5	Passed
JAMAICA NETWORK	5Q43	FOT	05/08/24 08:23	5	Failed
FORDHAM NETWORK	3X62	Auto	05/08/24 17:37	30	Passed

Summary of High Potential Test (Cont.)

Network	Feeder Name	Card Type	Test Date	Test Duration	Result
WEST BRONX NETWORK	2X12	Auto	05/09/24 14:12	5	Passed
WILLIAMSBURG NETWORK	6B56	SCHD	05/09/24 21:15	5	Passed
BORO HALL NETWORK	1B54	FOT	05/11/24 06:09	5	Passed
LONG ISLAND CITY NETWORK	1Q25	SCHD	05/12/24 16:32	5	Passed
RIDGEWOOD NETWORK	5B29	WR	05/16/24 08:04	5	Passed
FORDHAM NETWORK	3X58	SCHD	05/16/24 09:23	5	Passed
RIDGEWOOD NETWORK	5B22	Auto	05/19/24 06:03	5	Passed
JAMAICA NETWORK	5Q43	FOT	05/19/24 06:57	5	Failed
JAMAICA NETWORK	5Q38	SCHD	05/20/24 14:20	5	Passed
FORDHAM NETWORK	3X62	Auto	05/21/24 05:38	5	Passed
PARK SLOPE NETWORK	2B15	Auto	05/21/24 15:29	5	Passed
RIDGEWOOD NETWORK	5B29	WR	05/21/24 23:03	5	Passed
LONG ISLAND CITY NETWORK	1Q04	OOE2	05/24/24 22:29	5	Passed
JAMAICA NETWORK	5Q43	FOT	05/25/24 20:07	5	Passed
WEST BRONX NETWORK	2X84	Auto	05/26/24 18:48	5	Passed
RIDGEWOOD NETWORK	5B29	CIOA	05/28/24 12:24	5	Passed
JAMAICA NETWORK	5Q53	CIOA	05/28/24 17:24	5	Failed
JAMAICA NETWORK	5Q50	SCHD	05/28/24 21:58	5	Passed
JAMAICA NETWORK	5Q53	FOT	05/29/24 16:09	5	Passed
WILLIAMSBURG NETWORK	6B62	SCHD	05/31/24 18:53	5	Passed
NORTHEAST NETWORK	5X33	SCHD	05/31/24 21:33	5	Passed
JAMAICA NETWORK	5Q53	Auto	06/01/24 17:54	5	Failed
BORO HALL NETWORK	1B51	Auto	06/02/24 18:05	5	Passed
JAMAICA NETWORK	5Q53	FOT	06/03/24 03:51	5	Failed
RIDGEWOOD NETWORK	5B33	Auto	06/04/24 00:03	5	Failed
LONG ISLAND CITY NETWORK	1Q08	Auto	06/06/24 12:06	5	Passed
LONG ISLAND CITY NETWORK	1Q15	SCHD	06/06/24 23:26	5	Passed
RIDGEWOOD NETWORK	5B33	FOT	06/09/24 06:59	5	Passed
CENTRAL BRONX NETWORK	4X60	SCHD	06/10/24 02:22	5	Passed
RIDGEWOOD NETWORK	5B33	FOT	06/13/24 15:09	5	Passed
BORO HALL NETWORK	1B51	Auto	06/17/24 06:12	5	Passed
BORO HALL NETWORK	1B58	FOT	06/17/24 08:01	5	Passed
SOUTHEAST NETWORK	7X83	FOT	06/20/24 11:52	5	Passed
BORO HALL NETWORK	1B58	Auto	06/20/24 16:49	5	Failed
BORO HALL NETWORK	1B58	FOT	06/21/24 03:22	5	Passed
FORDHAM NETWORK	3X61	FOT	06/23/24 10:14	5	Passed
JAMAICA NETWORK	5Q35	Auto	06/23/24 20:46	5	Passed
CENTRAL BRONX NETWORK	4X41	FOT	06/25/24 16:00	5	Passed
RIDGEWOOD NETWORK	5B25	Auto	06/26/24 23:33	5	Passed
WEST BRONX NETWORK	2X25	SCHD	07/02/24 18:01	5	Passed
JAMAICA NETWORK	5Q35	Auto	07/03/24 09:09	5	Passed
LONG ISLAND CITY NETWORK	1Q19	SCHD	07/05/24 07:41	5	Passed
BORO HALL NETWORK	1B69	Auto	07/06/24 19:53	5	Failed
CENTRAL BRONX NETWORK	4X51	Auto	07/11/24 07:56	5	Passed
WEST BRONX NETWORK	2X82	Auto	07/14/24 11:38	5	Passed
BORO HALL NETWORK	1B69	Auto	07/14/24 15:35	5	Failed

Summary of High Potential Test (Cont.)

Network	Feeder Name	Card Type	Test Date	Test Duration	Result
WEST BRONX NETWORK	2X82	Auto	07/14/24 21:26	5	Passed
BORO HALL NETWORK	1B69	FOT	07/15/24 06:18	5	Passed
WILLIAMSBURG NETWORK	6B54	Auto	07/15/24 08:39	5	Passed
WILLIAMSBURG NETWORK	6B50	FOT	07/21/24 01:40	5	Passed
FORDHAM NETWORK	3X73	SCHD	07/30/24 15:22	5	Passed
BORO HALL NETWORK	1B70	OOE2	07/31/24 17:14	5	Passed
FORDHAM NETWORK	3X76	Auto	08/05/24 08:03	5	Passed
WEST BRONX NETWORK	2X15	Auto	08/09/24 18:49	5	Passed
WEST BRONX NETWORK	2X28	Auto	08/10/24 17:38	5	Passed
NORTHEAST NETWORK	5X40	Auto	08/12/24 07:01	5	Passed
CENTRAL BRONX NETWORK	4X48	Auto	08/14/24 08:48	5	Passed
SOUTHEAST NETWORK	7X86	Auto	08/14/24 12:19	5	Passed
FORDHAM NETWORK	3X64	Auto	08/14/24 15:37	5	Passed
JAMAICA NETWORK	5Q48	OOE2	08/17/24 04:12	5	Passed
BORO HALL NETWORK	1B71	WR	08/17/24 18:02	5	Passed
WILLIAMSBURG NETWORK	6B56	SCHD	08/20/24 09:45	5	Passed
WEST BRONX NETWORK	2X24	SCHD	08/23/24 12:28	5	Passed
WEST BRONX NETWORK	2X83	Auto	08/24/24 14:09	5	Passed
BORO HALL NETWORK	1B65	OOE2	08/25/24 00:20	5	Passed
SOUTHEAST NETWORK	7X83	Auto	08/31/24 22:05	5	Passed
FORDHAM NETWORK	3X80	SCHD	09/08/24 16:18	5	Passed
BORO HALL NETWORK	1B60	SCHD	09/09/24 09:11	5	Passed
BORO HALL NETWORK	1B60	CIOA	09/10/24 08:17	5	Passed
JAMAICA NETWORK	5Q49	SCHD	09/12/24 00:22	5	Passed
WILLIAMSBURG NETWORK	6B52	OOE2	09/12/24 03:42	5	Passed
BORO HALL NETWORK	1B73	OOE2	09/13/24 14:04	5	Passed
WILLIAMSBURG NETWORK	6B41	SCHD	09/14/24 22:19	5	Passed
RIDGEWOOD NETWORK	5B22	Auto	09/21/24 23:37	5	Failed
LONG ISLAND CITY NETWORK	1Q20	CIOA	09/24/24 13:50	5	Passed
RIDGEWOOD NETWORK	5B22	FOT	09/25/24 15:39	5	Passed
FORDHAM NETWORK	3X82	FOT	09/26/24 05:55	5	Passed
RIDGEWOOD NETWORK	5B33	Auto	09/29/24 01:03	5	Failed
WILLIAMSBURG NETWORK	6B61	SCHD	09/30/24 15:31	5	Passed
LONG ISLAND CITY NETWORK	1Q24	SCHD	10/05/24 00:04	5	Passed
RIDGEWOOD NETWORK	5B33	FOT	10/05/24 10:24	5	Failed
RIDGEWOOD NETWORK	5B33	FOT	10/07/24 01:46	5	Passed
WEST BRONX NETWORK	2X10	SCHD	10/09/24 21:15	5	Passed
BORO HALL NETWORK	1B69	Auto	10/09/24 21:17	5	Passed
BORO HALL NETWORK	1B66	CIOA	10/11/24 05:20	5	Passed
SOUTHEAST NETWORK	7X84	Auto	10/15/24 06:16	5	Passed
WILLIAMSBURG NETWORK	6B54	Auto	10/20/24 04:39	5	Passed
WEST BRONX NETWORK	2X38	SCHD	10/25/24 23:45	5	Passed
BORO HALL NETWORK	1B57	WR	10/26/24 06:19	5	Passed
SOUTHEAST NETWORK	7X82	Auto	10/26/24 22:03	5	Passed
FORDHAM NETWORK	3X78	FOT	10/29/24 16:36	5	Failed
JAMAICA NETWORK	5Q46	SCHD	10/30/24 21:54	5	Passed

Summary of High Potential Test (Cont.)

Network	Feeder Name	Card Type	Test Date	Test Duration	Result
FORDHAM NETWORK	3X78	FOT	10/31/24 05:58	5	Passed
LONG ISLAND CITY NETWORK	1Q21	FOT	11/05/24 04:02	5	Passed
PARK SLOPE NETWORK	2B20	OOE1	11/09/24 22:34	5	Passed
BORO HALL NETWORK	1B56	SCHD	11/10/24 16:20	5	Failed
LONG ISLAND CITY NETWORK	1Q18	SCHD	11/10/24 17:41	5	Passed
BORO HALL NETWORK	1B56	FOT	11/13/24 07:41	5	Passed
JAMAICA NETWORK	5Q35	SCHD	11/14/24 00:19	5	Passed
RIDGEWOOD NETWORK	5B33	Auto	11/15/24 19:23	5	Passed
WILLIAMSBURG NETWORK	6B57	SCHD	11/17/24 07:38	5	Failed
JAMAICA NETWORK	5Q41	SCHD	11/20/24 05:15	5	Passed
BORO HALL NETWORK	1B65	SCHD	11/29/24 17:29	5	Passed
WILLIAMSBURG NETWORK	6B51	SCHD	12/05/24 10:23	5	Failed
JAMAICA NETWORK	5Q43	SCHD	12/05/24 20:33	5	Passed
BORO HALL NETWORK	1B54	SCHD	12/09/24 13:00	5	Failed
SOUTHEAST NETWORK	7X95	Auto	12/10/24 23:00	5	Failed
JAMAICA NETWORK	5Q48	SCHD	12/11/24 00:28	5	Passed
BORO HALL NETWORK	1B54	FOT	12/11/24 01:41	5	Passed
SOUTHEAST NETWORK	7X83	Auto	12/11/24 14:27	5	Passed
JAMAICA NETWORK	5Q48	CIOA	12/12/24 14:45	5	Passed
WILLIAMSBURG NETWORK	6B51	FOT	12/13/24 05:08	5	Passed
SOUTHEAST NETWORK	7X95	FOT	12/14/24 12:31	5	Failed
BORO HALL NETWORK	1B60	SCHD	12/17/24 15:22	5	Passed
SOUTHEAST NETWORK	7X95	FOT	12/18/24 11:03	5	Passed
WILLIAMSBURG NETWORK	6B45	SCHD	12/18/24 12:50	5	Failed
WILLIAMSBURG NETWORK	6B45	FOT	12/20/24 06:02	5	Failed
WILLIAMSBURG NETWORK	6B45	FOT	12/22/24 04:35	5	Passed
CENTRAL BRONX NETWORK	4X65	SCHD	12/23/24 23:21	5	Passed
FORDHAM NETWORK	3X62	Auto	12/25/24 03:51	5	Passed
NORTHEAST NETWORK	5X31	SCHD	12/28/24 20:41	5	Passed
WILLIAMSBURG NETWORK	6B57	Auto	12/29/24 14:10	5	Passed
WILLIAMSBURG NETWORK	6B57	Auto	12/29/24 14:12	5	Passed
BORO HALL NETWORK	1B63	Auto	12/29/24 21:52	5	Passed

TRANSFORMER INFORMATION FOR SELECTED NETWORKS

For each of the selected networks, the following transformer information is provided below:[3]

- List of transformers scheduled for CINDE inspection in 2025.
- List of transformers that received CINDE inspection during 2024 and a summary of inspection results, the transformer failure rate and breakdown of failure causes (corrosion, DGOA, etc.…). Anodes installed or already in place.
- Quantity and percentage that are out of service as of July 1, 2024 and December 31, 2024, and quantity and percentage of transformers out of service for the entire system.
- Monthly Remote Monitoring System ('RMS") reporting rates for all 64 networks during 2024.
- Quantity of RMS transmitter units by type (1st, 2nd, and 3rd generation) within the network as of December 31, 2024.
- Number of high-tension customers with transformers reporting data back to the control center in comparison to the total number of HTC within the network.

List of Scheduled 2025 CINDE Inspections

CINDE inspections on these units will be performed on a data driven schedule if pressure, temperature, and oil (PTO) sensors are installed. Units without PTO sensors are inspected on a time-based program. Attached is the 2025 CINDE inspection schedule, which includes both data driven and time-based locations. Note that the data driven locations may change as the year progresses and risk evolves.

2025 CINDE Inspection - Details.p

List of CINDE Inspections Completed in 2024

The list of CINDE inspections completed in 2024 and the associated information required is voluminous. Starting in 2021 the company has transitioned CINDE from a time-based inspection program to a data driven program, which will prioritize locations based on sensor data, age, and risk. Note that this program is still in progress and these numbers may change as the year develops. The file is being submitted electronically but can be obtained as a paper copy from the Company upon request.

2024 CINDE Complete - Details.pd

[3] Certain information is provided for all networks.

Transformers Out of Service[4] as of July 1st, 2024

Network	Transformer Count	Banks Offline	% Banks Offline
Williamsburg	886	26	2.93
Ridgewood	597	9	1.51
Central Bronx	478	1	0.21
West Bronx	671	1	0.15
Fordham	678	2	0.29
Southeast Bronx	444	0	0.00
Northeast Bronx	306	0	0.00
Borough Hall	897	36	4.01
Jamaica	700	30	4.29
Park slope	596	5	0.84
Long Island City	749	23	3.07
Total	**7,002**	133	1.90

Transformers Out of Service[5] as of December 31st, 2024

Network	Transformer Count	Banks Offline	% Banks Offline
Williamsburg	886	29	3.27
Ridgewood	597	8	1.34
Central Bronx	478	0	0.00
West Bronx	671	0	0.00
Fordham	678	4	0.59
Southeast Bronx	444	1	0.23
Northeast Bronx	306	0	0.00
Borough Hall	897	50	5.57
Jamaica	700	32	4.57
Park slope	596	7	1.17
Long Island City	749	25	3.34
Total	**7,002**	156	2.23

[4] Data Source: 2024 EDSM and VDAMS for Banks Off
[5] Data Source: 2024 EDSM and VDAMS for Banks Off

RMS REPORTING RATE

Manhattan

Network	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Battery Park	95.1	95.1	95.1	95.1	95.1	95.1	95.1	93.8	95.1	95.1	93.8	93.8
Beekman	92.6	92.6	92.6	92.6	94.3	93.7	92.7	92.7	92.2	95.2	94.2	94.8
Bowling Green	93.6	94.2	93.5	92.0	93.5	94.3	93.9	92.5	93.4	95.2	94.8	95.6
Canal	94.7	96.3	96.8	95.2	96.3	96.3	96.8	96.3	96.8	96.8	96.8	95.7
Central Park	92.7	92.5	92.6	92.6	92.8	93.5	93.1	93.3	93.6	93.1	93.3	93.3
Chelsea	94.2	94.7	95.4	96.2	96.1	95.5	95.7	96.7	96.6	96.7	97.4	97.1
City Hall	89.8	90.4	91.5	92.3	92.3	93.2	93.1	93.6	91.9	92.6	93.2	94.3
Columbus Circle	94.4	95.1	94.8	95.9	95.6	95.6	96.0	96.0	94.7	95.2	95.6	95.2
Cooper Square	92.4	93.1	94.0	94.0	93.6	93.5	94.0	95.3	95.3	95.5	95.1	96.3
Cortlandt	91.6	91.0	93.4	94.7	95.8	94.6	95.8	95.7	95.2	96.4	97.0	95.8
Empire	90.3	90.4	90.4	88.8	92.1	92.8	92.9	92.8	92.9	93.7	90.3	92.7
Fashion	94.0	94.0	94.8	95.5	93.4	93.4	92.6	93.4	91.9	94.1	94.9	95.6
Fulton	94.4	94.0	94.5	95.4	95.9	93.5	94.0	93.9	94.4	94.4	94.9	94.9
Grand Central	91.7	92.4	93.3	94.2	93.9	92.3	92.9	94.8	94.8	92.8	92.5	92.8
Greeley Square	91.0	90.9	91.7	91.7	91.7	93.2	93.2	94.7	95.5	96.9	94.7	95.5
Greenwich	89.6	94.6	93.2	96.2	97.0	97.0	96.3	94.8	94.8	95.5	95.5	96.2
Harlem	91.7	92.2	92.0	91.8	91.7	92.0	92.7	92.5	91.9	91.8	93.4	92.9
Herald Square	93.6	96.3	96.3	96.9	95.7	95.3	94.1	95.2	95.7	94.7	95.2	95.2
Hudson	96.2	96.2	96.2	98.1	98.8	97.5	98.1	96.9	96.8	94.3	96.3	96.3
Hunter	94.7	92.4	91.7	91.6	92.4	93.2	93.2	93.2	93.9	93.2	94.7	91.7
Kips Bay	90.9	90.9	90.8	89.2	92.2	92.1	93.4	93.9	94.3	95.6	95.6	94.3
Lenox Hill	94.0	93.3	92.1	92.6	93.3	93.9	92.1	92.9	93.1	92.4	91.7	91.7
Lincoln Sq.	91.8	91.9	91.6	92.4	92.0	92.2	92.8	93.4	92.8	93.5	93.4	93.7
Madison Sq.	93.8	94.7	95.3	95.3	95.3	96.6	96.2	96.6	96.6	97.3	96.8	97.1

RMS REPORTING RATE (cont.)

Manhattan (Continue)

Network	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Midtown West	95.5	95.5	96.2	97.0	97.0	97.0	97.7	99.2	99.2	98.5	98.5	98.5
Park Place	91.2	92.1	92.0	94.3	93.5	93.6	95.6	95.6	94.9	95.6	95.7	94.9
Pennsylvania	98.6	98.3	99.2	98.9	93.5	93.8	93.8	94.9	96.6	97.2	97.5	97.2
Plaza	91.2	92.9	92.9	94.6	94.6	93.4	93.8	95.4	95.9	96.3	97.5	97.2
Randall's Island*	100.0	100.0	100.0	100.0	---	---	---	---	---	---	---	---
Rockefeller Center	90.6	90.6	91.3	96.0	94.4	92.1	94.4	94.4	95.2	95.3	95.3	95.3
Roosevelt	93.5	92.4	91.7	93.0	92.4	93.0	92.4	93.7	93.7	93.7	93.7	94.9
Sheridan Square	96.8	97.1	98.0	98.3	98.0	98.3	98.3	96.0	96.5	97.4	97.4	97.4
Sutton	94.9	94.1	93.7	94.0	94.5	95.0	94.1	94.2	93.7	93.7	92.3	92.3
Times Square	96.9	96.1	97.2	97.7	97.7	97.7	97.7	98.1	98.1	97.3	96.9	96.9
Triboro	92.1	92.1	93.7	94.3	94.0	94.4	94.7	95.0	95.0	95.3	95.0	95.6
Turtle Bay	91.2	91.8	91.3	95.7	95.1	95.1	95.1	94.5	95.1	94.5	97.6	97.0
Washington Heights	92.2	92.5	93.3	92.6	93.9	92.6	93.1	93.9	93.6	93.1	90.6	91.7
Yorkville	93.5	93.0	93.0	93.0	92.5	91.6	92.4	92.1	92.8	92.1	90.9	92.5

*Switching occurred in May – becoming part of West Bronx (2X) network.

RMS REPORTING RATE (cont.)

Brooklyn

Network	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Ridge	98.2	98.2	98.2	97.9	97.6	98.1	98.2	98.2	97.5	98.8	98.7	98.2
Borough Hall	90.3	91.3	91.3	91.9	91.0	91.1	91.3	91.7	91.0	89.1	89.3	90.1
Brighton Beach	91.2	91.2	91.8	92.9	92.1	92.4	92.7	93.0	92.4	92.1	91.8	91.8
Crown Heights	93.1	92.6	93.5	94.8	94.7	92.5	90.3	91.2	92.3	92.8	93.5	94.8
Flatbush	95.1	93.8	92.6	93.5	93.7	94.9	95.4	96.3	97.5	97.2	97.2	96.8
Ocean Parkway	94.5	93.7	95.7	94.9	96.0	96.3	96.4	97.0	97.6	97.2	97.8	97.8
Park Slope	90.2	90.6	90.7	91.5	90.9	92.3	92.1	91.6	88.1	88.2	88.4	90.1
Prospect Park	95.7	97.3	95.7	94.1	94.6	94.6	94.6	94.1	94.1	94.7	95.2	95.7
Ridgewood	90.0	91.1	91.4	93.0	92.7	93.1	93.9	94.9	95.4	95.5	95.0	95.8
Sheepshead Bay	95.1	95.1	95.9	94.9	95.5	96.5	96.3	96.3	96.9	97.8	96.9	96.7
Williamsburg	96.9	97.1	97.9	98.1	97.2	92.4	93.3	94.4	94.6	95.3	94.2	95.4

RMS REPORTING RATE (cont.)

Queens

Network	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Borden	93.0	92.9	87.5%	92.9	93.7	93.1	88.8	89.8	90.0	90.6	91.9	91.2
Flushing	90.7	92.3	91.0%	92.7	92.1	92.3	89.8	91.1	91.2	90.4	90.3	90.3
Jackson Heights	95.1	94.8	94.8%	94.0	93.8	94.0	93.8	94.9	94.6	93.8	92.0	93.0
Jamaica	91.6	91.2	91.1%	92.2	92.5	93.0	92.6	92.9	92.5	92.8	90.1	91.2
Long Island City	90.9	91.8	91.8%	90.7	92.3	91.2	90.5	91.2	90.5	90.3	88.1	87.2
Maspeth	90.5	91.6	90.1%	91.6	92.6	90.9	91.5	89.9	90.0	91.7	90.2	89.6
Rego Park	90.9	90.8	91.6%	91.3	92.9	92.3	91.7	90.7	88.8	89.1	89.1	89.7
Richmond Hill	97.2	97.0	89.7%	97.3	97.9	98.4	98.3	98.6	98.6	98.8	98.3	98.7
Sunnyside	94.3	93.4	91.2%	90.5	91.7	91.7	90.1	90.1	90.1	89.7	89.7	89.3

Bronx

Network	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Central Bronx	97.5	98.1	98.6	99.2	98.5	98.9	99.2	99.4	99.8	99.4	99.6	99.6
Fordham	97.6	98.3	98.9	99.0	97.7	98.0	96.4	97.6	97.6	97.2	98.3	98.3
Northeast Bronx	98.4	99.0	98.7	99.4	99.4	98.7	99.7	95.9	96.8	98.1	99.0	99.1
Riverdale	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.7	100.0
Southeast Bronx	97.8	98.2	98.0	98.9	98.9	99.1	98.9	99.1	99.3	99.1	99.3	99.8
West Bronx	95.1	97.3	97.4	98.2	98.2	98.6	98.9	98.7	98.6	99.0	99.0	98.6
Co Op City	97.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Edenwald	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

RMS REPORTING RATE (cont.)

Westchester

Network	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cedar Street	97.2	98.1	99.1	99.1	98.1	98.1	100.0	99.1	99.1	97.2	97.2	95.5
Elmsford	96.3	98.1	100.0	100.0	100.0	99.1	100.0	99.1	100.0	100.0	99.1	99.1
Grasslands	97.1	97.1	97.1	97.1	97.1	97.1	94.1	100.0	100.0	100.0	100.0	100.0
Harrison	96.7	96.7	96.7	100.0	100.0	100.0	100.0	100.0	98.3	98.3	98.3	98.3
Mount Vernon	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Rockview	98.9	98.9	100.0	100.0	98.9	97.8	97.8	97.8	98.9	98.9	98.9	98.9
White Plains	95.8	96.9	98.3	99.0	98.3	98.6	98.6	98.6	98.6	99.0	99.3	99.7
Yonkers	95.5	97.7	98.7	99.0	99.0	98.7	99.0	99.0	98.4	99.4	99.0	99.0

Quantity of RMS Transmitter Units by Type (1st, 2nd, and 3rd Generation) (12/31/24)

Network	Transmitter Gen.			
	1st Gen	2nd Gen	3rd Gen	TOTALS
Williamsburg	1	137	689	834
Ridgewood	0	84	479	536
Central Bronx	0	62	459	521
West Bronx	0	52	653	705
Fordham	0	63	634	697
Southeast Bronx	0	52	396	448
Northeast Bronx	0	32	280	312
Borough Hall	9	114	658	781
Jamaica	7	85	517	609
Park slope	0	86	437	523
Long Island City	6	78	547	631

Number of High-Tension Customers within Network and Number of High-Tension Customer Transformers Reporting Data to Control Centers

Network	Number of Network HT Customers	Number of Network HT Reporting Data to Control Center
Williamsburg	15	0
Ridgewood	13	0
Central Bronx	7	0
West Bronx	14	0
Fordham	12	0
Southeast Bronx	9	0
Northeast Bronx	7	0
Borough Hall	21	0
Jamaica	29	0
Park slope	8	0
Long Island City	22	0

SUBSTATION INFORMATION FOR SELECTED NETWORKS

For each of the selected networks, the following substation information is provided below as of 12/31/2024 unless otherwise stated:

- Summary of each substation's scheduled upgrades (2024 & 2025).
- Quantity of rack-out type circuit breakers and G&T devices within each substation.
- Connected transformer rating (kVA) for each feeder within the network.
- Quantity and location of PQ nodes available per substation and/or network.
- Amount of reactive power available per substation and/or network.
- Quantity of tempo relays installed in each network.
- Substation breaker relay information: estimated inrush current, end of line fault current, actual relay settings, and fault current margin in percent.

Summary of Each Substation's Scheduled Upgrades (2024 and 2025)

Brooklyn 2024

None scheduled for 2025 and none pending for 2024.

Queens 2024

None scheduled for 2025 and none pending for 2024.

Bronx 2024

None scheduled for 2025 and none pending for 2024.

Quantity of Rack-Out Type Circuit Breakers and G&T Devices within Each Substation as of 12/31/24

Network	Area Substation	Rack-out type breakers (network feeders)	G&T Devices Available	Breakers that use G&T
Williamsburg	Water St.	23	4	23
Ridgewood	Brownsville No.1	13	9	13
Central Bronx	Mott Haven	54	6	25
West Bronx	Bruckner	63	9	34
Fordham	East 179 Street	50	8	26
Southeast Bronx	Parkchester No.1	37	7	23
Northeast Bronx	Parkchester No.2	35	6	20
Borough Hall	Plymouth St.	25	3	25
Jamaica	Jamaica	32	13	32
Park slope	Greenwood	16	4	16
Long Island City	North Queens	24	11	24

Connected Transformer Rating (kVA)

Williamsburg

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
6B41	30,250	-	30,250
6B42	32,500	-	32,500
6B43	38,750	-	38,750
6B44	29,000	-	29,000
6B45	24,000	-	24,000
6B46	19,500	-	19,500
6B47	12,250	-	12,250
6B48	0	-	0
6B49	27,500	-	27,500
6B50	20,250	-	20,250
6B51	39,500	-	39,500
6B52	34,000	-	34,000
6B53	34,250	-	34,250
6B54	32,000	-	32,000
6B55	21,000	-	21,000
6B56	30,750	-	30,750
6B57	35,750	-	35,750
6B58	32,250	-	32,250
6B59	11,750	-	11,750
6B60	21,100	-	21,100
6B61	32,250		32,250
6B62	28,750		28,750
6B65	22,250	-	22,250
6B66	30,850	-	30,850

Connected Transformer Rating (kVA) (Cont.)

Ridgewood

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
5B21	25,250	-	25,250
5B22	28,500	-	28,500
5B23	26,250	-	26,250
5B24	22,250	-	22,250
5B25	27,750	-	27,750
5B26	26,000	-	26,000
5B27	29,000	-	29,000
5B28	24,250	-	24,250
5B29	42,250	-	42,250
5B30	34,250	-	34,250
5B31	21,250	-	21,250
5B32	22,000	-	22,000
5B33	33,250	-	33,250
5B34	17,000	-	17,000
5B35	21,250	-	21,250

Connected Transformer Rating (kVA) (Cont.)

Central Bronx

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
4X40	11,000	-	11,000
4X41	16,500	-	16,500
4X42	19,000	-	19,000
4X43	10,000	-	10,000
4X44	11,250	-	11,250
4X45	30,250	-	30,250
4X46	15,000	-	15,000
4X47	18,250	-	18,250
4X48	11,000	-	11,000
4X49	15,750	-	15,750
4X50	25,750	-	25,750
4X51	23,750	-	23,750
4X52	19,250	-	19,250
4X54	10,500	-	10,500
4X55	24,750	-	24,750
4X56	10,000	-	10,000
4X57	19,250	-	19,250
4X58	21,000	-	21,000
4X59	18,000	-	18,000
4X60	11,250	-	11,250
4X61	10,000	-	10,000
4X62	19,000	-	19,000
4X63	16,750	-	16,750
4X64	9,500	-	9,500
4X65	18,500	-	18,500

Connected Transformer Rating (kVA)(Cont.)

West Bronx

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
2X01	21,250	-	21,250
2X02	23,250	-	23,250
2X03	12,500	-	12,500
2X04	20,500	-	20,500
2X05	19,500	-	19,500
2X08	13,750	-	13,750
2X10	15,500	-	15,500
2X12	11,500	-	11,500
2X13	28,800	-	28,800
2X15	23,000	-	23,000
2X19	21,250	-	21,250
2X21	15,000	-	15,000
2X22	27,000	-	27,000
2X23	8,500	-	8,500
2X24	24,500	-	24,500
2X25	29,000	-	29,000
2X26	26,000	-	26,000
2X27	30,000	-	30,000
2X28	17,000	-	17,000
2X29	22,250	-	22,250
2X30	26,250	-	26,250
2X37	17,000	-	17,000
2X38	9,750	-	9,750
2X39	17,000	-	17,000
2X80	19,500	-	19,500
2X81	2,000	-	2,000
2X82	19,500	-	19,500
2X83	1,000	-	1,000
2X84	18,000	-	18,000
2X85	25,500	-	25,500

Connected Transformer Rating (kVA) (Cont.)

Fordham

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
3X58	20,500	-	20,500
3X59	9,500	-	9,500
3X60	24,250	-	24,250
3X61	18,750	-	18,750
3X62	33,250	-	33,250
3X63	23,000	-	23,000
3X64	22,500	-	22,500
3X65	11,000	-	11,000
3X66	31,000	-	31,000
3X67	14,500	-	14,500
3X68	22,000	-	22,000
3X69	30,250	-	30,250
3X70	23,550	-	23,550
3X71	24,000	-	24,000
3X72	29,500	-	29,500
3X73	19,750	-	19,750
3X74	22,250	-	22,250
3X75	23,500	-	23,500
3X76	26,000	-	26,000
3X77	22,750	-	22,750
3X78	18,000	-	18,000
3X79	20,000	-	20,000
3X80	14,750	-	14,750
3X81	8,500	-	8,500
3X82	15,500	-	15,500
3X83	4,000	-	4,000

Connected Transformer Rating (kVA) (Cont.)

Southeast Bronx

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
7X77	18,500	-	18,500
7X78	10,500	-	10,500
7X79	6,500	-	6,500
7X80	8,000	10,500	18,500
7X81	21,500	-	21,500
7X82	17,000	-	17,000
7X83	25,500	-	25,500
7X84	11,500	10,500	22,000
7X85	20,250	-	20,250
7X86	20,750	-	20,750
7X87	9,500	10,500	20,000
7X88	16,000	-	16,000
7X89	22,500		22,500
7X90	8,000	10,500	18,500
7X91	3,500	10,500	14,000
7X92	17,250	-	17,250
7X93	9,000	10,500	19,500
7X94	4,500	10,500	15,000
7X95	28,000	-	28,000
7X96	8,000	-	8,000
7X97	17,000	10,500	27,500
7X98	33,000	-	33,000

Connected Transformer Rating (kVA) (Cont.)

Northeast Bronx

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
5X31	26,500	-	26,500
5X32	16,000	-	16,000
5X33	24,000	-	24,000
5X34	18,000	-	18,000
5X35	18,000	-	18,000
5X36	31,000	-	31,000
5X37	29,000	-	29,000
5X38	20,500	-	20,500
5X39	12,500	-	12,500
5X40	23,000	-	23,000
5X41	20,000	-	20,000
5X66	9,500	-	9,500

Connected Transformer Rating (kVA) (Cont.)

Borough Hall

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
1B51	55,000	-	55,000
1B52	37,250	-	37,250
1B53	22,250	-	22,250
1B54	45,250	-	45,250
1B55	33,500	-	33,500
1B56	63,500	-	63,500
1B57	37,750	-	37,750
1B58	45,000	-	45,000
1B59	40,000	-	40,000
1B60	27,000	-	27,000
1B61	52,500	-	52,500
1B62	51,750	-	51,750
1B63	42,500	-	42,500
1B64	42,500	-	42,500
1B65	38,250	-	38,250
1B66	30,250	-	30,250
1B67	22,500	-	22,500
1B68	16,500	-	16,500
1B69	43,500	-	43,500
1B70	27,000	-	27,000
1B71	19,750	-	19,750
1B72	48,500	-	48,500
1B73	23,000	-	23,000

Connected Transformer Rating (kVA) (Cont.)

Jamaica

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
5Q30	21,500	-	21,500
5Q31	21,500	-	21,500
5Q32	32,000	-	32,000
5Q33	30,000	-	30,000
5Q34	34,250	10,500	44,750
5Q35	34,750	10,500	45,250
5Q36	34,250	10,500	44,750
5Q37	30,000	10,500	40,500
5Q38	32,250	10,500	42,750
5Q39	22,500	10,500	33,000
5Q40	3,500	10,000	13,500
5Q41	7,500	10,500	18,000
5Q42	28,500	10,500	39,000
5Q43	27,000	10,500	37,500
5Q44	26,000	10,000	36,000
5Q45	21,500	10,000	31,500
5Q46	8,250	38,420	46,670
5Q47	7,500	20,500	28,000
5Q48	9,000	21,000	30,000
5Q49	19,500	10,500	30,000
5Q50	2,250	21,000	23,250
5Q51	2,250	38,920	41,170
5Q52	9,500	10,500	20,000
5Q53	10,000	10,500	20,500
5Q54	4,000	20,500	24,500
5Q55	2,500	10,500	13,000
5Q56	14,000 ,	10,500	24,500
5Q57	11,500	48,900	60,400
5Q58	14,000	20,500	34,500
5Q59	15,000	10,500	25,500
5Q60	0	21,000	21,000
5Q61	16,500	10,500	27,000

Connected Transformer Rating (kVA) (Cont.)

Park Slope

Feeder	Transformer kVA	Unit Substation kVA	Total Connected kVA
2B01	19,250	-	19,250
2B02	16,250	-	16,250
2B03	20,750	-	20,750
2B04	20,000	-	20,300
2B05	21,500	-	21,500
2B06	19,850	-	19,850
2B09	24,750	-	24,750
2B10	27,350	-	27,350
2B13	22,000	-	22,00
2B14	23,350	-	23,350
2B15	23,500	-	23,500
2B16	21,250	-	21,250
2B19	22,500	-	22,500
2B20	24,750	-	24,750
2B21	21,250	-	21,250
2B22	16,350	-	16,350

Connected Transformer Rating (kVA) (Cont.)

Long Island City

Feeder	Transformer kVA	Unit Substation kVA (includes Airport)	Total Connected kVA
1Q01	7,500	-	7,500
1Q02	27,500	-	27,500
1Q03	21,000	-	21,000
1Q04	24,500	-	24,500
1Q05	24,000	-	24,000
1Q06	24,000	-	24,000
1Q07	14,250	-	14,250
1Q08	34,500	-	34,500
1Q09	22,500	-	22,500
1Q11	26,750	-	26,750
1Q12	13,500	-	13,500
1Q13	21,000	-	21,000
1Q14	28,500	-	23,500
1Q15	10,500	-	10,500
1Q16	18,500	7,000	25,500
1Q17	8,500	-	8,500
1Q18	20,250	-	20,250
1Q19	24,750	-	24,750
1Q20	34,500	7,000	41,500
1Q21	37,000	7,000	44,000
1Q22	37,000	-	37,000
1Q23	28,750	-	28,750
1Q24	5,000	-	5,000
1Q25	24,000	7,000	31,000

Quantity and Location of PQ Nodes Available

Manhattan

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
5	4	Astor	28M	Herald Square	LAN /WIRELESS
3	5	Avenue A	07M	Cooper Square	LAN /WIRELESS
3	5	Cherry St	08M	City Hall	LAN /WIRELESS
3	5	East 29th St	06M	Madison Square	LAN /WIRELESS
3	5	East 36th St	26M, 43M	Greeley Sq., Kips Bay	LAN /WIRELESS
3	5	East 40th St #1	04M	Grand Central (2)	LAN /WIRELESS
3	5	East 40th St #2	29M	Beekman	LAN /WIRELESS
4	7	East 63rd St #1	09M, 20M	Hunter, Sutton	LAN /WIRELESS
4	7	East 63rd St #2	25M, 31M	Turtle Bay, Roosevelt	LAN /WIRELESS
1	5	East 75th St	24M	Lenox Hill	LAN /WIRELESS
4	7	Leonard #1	10M, 32M	Sheridan Sq, Greenwich	LAN /WIRELESS
3	7	Leonard #2	22M, 34M	Canal, Park Place	LAN /WIRELESS
3	4	Murray Hill	12M, 30M	Empire, Fashion	LAN /WIRELESS
5	4	Parkview	44M	Triboro	LAN /WIRELESS
3	5	Seaport #1	15M, 40M	Cortlandt, Bowling Green	LAN /WIRELESS
3	5	Seaport #2	27M	Fulton	LAN /WIRELESS
3	4	Trade Center #1	18M	Battery Park City, Freedom	LAN /WIRELESS
3	5	West 110th St #1	02M	Harlem	LAN /WIRELESS
3	5	West 110th St #2	17M	Central Park	LAN /WIRELESS
3	5	West 19th St	13M	Chelsea	LAN /WIRELESS
3	5	West 42nd St #1	16M	Pennsylvania	LAN /WIRELESS
3	5	West 42nd St #2	21M, 53M	Columbus Circle, Midtown West	LAN /WIRELESS
3	5	West 50th St	05M, 39M	Times Square, Hudson	LAN /WIRELESS
2	5	West 65th St #1	11M	Plaza	LAN /WIRELESS
1	5	West 65th St #2	19M, 23M	Rockefeller Cent, Lincoln Sq.	LAN /WIRELESS

Quantity and Location of PQ Nodes Available (cont.)

Brooklyn

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
3	5	Bensonhurst #1	7B, 10B	Ocean Parkway (3), Sheepshead Bay	LAN /WIRELESS
3	4	Bensonhurst #2	4B, 11B	Flatbush, Brighton Beach	LAN /WIRELESS
3	5	Brownsville #1	3B, 5B	Crown Heights, Ridgewood	LAN /WIRELESS
3	5	Brownsville #2	9B	Richmond Hill (2)	LAN /WIRELESS
3	5	Greenwood	2B, 8B	Park Slope, Bay Ridge (2)	LAN /WIRELESS
3	5	Plymouth St	1B	Borough Hall (2)	LAN /WIRELESS
3	4	Water St	6B, 12B	Williamsburg (3), Prospect Park	LAN /WIRELESS

Queens

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
3	5	Corona #1	7Q	Flushing (2)	LAN /WIRELESS
3	4	Corona #2	3Q, 9Q	Rego Park, Jackson Heights	LAN /WIRELESS
3	4	Glendale	6Q	Maspeth (3)	LAN /WIRELESS
3	5	Jamaica	5Q	Jamaica	LAN /WIRELESS
3	3	Newtown	2Q, 10Q	Borden, Sunnyside	LAN /WIRELESS
3	5	North Queens	1Q	Long Island City (2)	LAN /WIRELESS

Quantity and Location of PQ Nodes Available (cont.)

Bronx

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
3	5	Bruckner	2X	West Bronx	LAN /WIRELESS
4	5	E 179th St	3X	Fordham	LAN /WIRELESS
6	5	Hell Gate	3M	Yorkville (2)	LAN /WIRELESS
5	4	Mott Haven	4X	Central Bronx	LAN /WIRELESS
5	8	Parkchester #1	7X	Southeast Bronx	WIRELESS
3	3	Parkchester #2	5X	Northeast Bronx	LAN /WIRELESS
4	4	Sherman Creek	1M, 1X	Washington Heights, Riverdale	LAN /WIRELESS

Westchester

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
2	3	Buchanan	13W		LAN
3	3	Cedar St	20W		LAN
4	4	Elmsford	12W		LAN
2	5	Granite Hill	10W, 15W	Yonkers	LAN/WIRELESS
3	3	Grasslands	19W		LAN
2	4	Harrison	17W	Rye	LAN/WIRELESS
2	2	Millwood West	7W		LAN
2	2	Ossining West	6W		LAN
2	2	Pleasantville	11W, 14W		LAN
3	3	Rockview	2W		LAN
2	4	Washington St	1W, 9W		LAN
3	4	White Plains	8W	White Plains	LAN/LAND LINE

Staten Island

No of PQ monitors per station	No of Transformers	Substation	Network (one monitor / network)		Communication
3	3	Fox Hills	2R, 33R	Fox Hills	LAN/WIRELESS
3	3	Fresh Kills	1R, 33R	Fresh Kills (3)	LAN/WIRELESS
2	2	Wainwright	3R		LAN
2	2	Willowbrook	4R		LAN
2	3	Woodrow	5R		LAN

In total, there are 62 area substations containing 186 PQ nodes (excludes nodes at Parkchester 138 kV switching station) that serve 82 network/load areas (excludes Mohansic).

Amount of Reactive Power Available

Network	Supply Area Substation	31-Dec-24	
		Area Station Capacitors (MVAR)	4 kV Feeder Capacitors (MVAR)
Williamsburg	Water Street	90	
Ridgewood	Brownsville No.1	90	1.5
Central Bronx	Mott Haven	0	
West Bronx	Bruckner	60	
Fordham	East 179th St.	60	
Southeast Bronx	Parkchester No. 1	60	2.85
Northeast Bronx	Parkchester No. 2	40	
Borough Hall	Plymouth Street	90	
Jamaica	Jamaica	90	18.15
Park Slope	Greenwood	90	
Long Island City	North Queens	90	

Quantity of Tempo Relays Existing in each Selected Network

Network Name	Tempo Relays Online
Williamsburg	11
Ridgewood	7
Central Bronx	1
West Bronx	5
Fordham	6
Southeast Bronx	8
Northeast Bronx	1
Borough Hall	0
Jamaica	14
Park slope	16
Long Island City	10

Substation Breaker Relay Settings for Each Network Feeder as of 12/31/24

The following tables include all the 27kV feeders with 32 MVA of total connected transformer capacity and all 13kV feeders with 19 MVA of total connected transformer capacity. Of these 11 selected networks, one (1) network, Park Slope, did not have any feeder meeting the criteria, and thus was not included. The tables are organized by network.

Network Feeders with 27 MVA Total Connected Transformer Capacity

Borough Hall Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	1B51	11,757	8,532	12IAC53B811A	1600	5200-0.5	7200	63%	4,748	12IAC53A803A	480	1440-0.5	889%
2	1B52	8,925	5,725	12IAC53B811A	1600	5200-0.5	6000	49%	3,499	12IAC53A803A	480	1440-0.5	629%
3	1B54	11,360	6,436	12IAC53B811A	1600	5200-0.5	6000	89%	4,529	12IAC53A803A	480	1440-0.5	844%
4	1B55	13,079	5,164	12IAC53B811A	1600	5200-0.5	4000	227%	6,001	12IAC53A803A	240	720-0.5	2400%
5	1B56	11,602	8,831	12IAC53B811A	1600	5200-0.5	7200	61%	4,948	12IAC53A803A	480	1440-0.5	931%
6	1B57	10,429	5,613	12IAC53B811A	1600	5200-0.5	4000	63%	4,104	12IAC53A803A	240	720-0.5	1962%
7	1B58	11,801	6,736	12IAC53B811A	1600	5200-0.5	4000	195%	5,015	12IAC53A803A	240	720-0.5	1990%
8	1B59	10,136	6,137	12IAC53B811A	1600	5200-0.5	6000	69%	4,297	12IAC53A803A	480	1440-0.5	795%
9	1B61	9,953	7,185	12IAC53B811A	1600	5200-0.5	6600	51%	4,351	12IAC53A803A	480	1440-0.5	806%
10	1B62	12,437	7,858	12IAC53B811A	1600	5200-0.5	7200	73%	5,047	12IAC53A803A	480	1440-0.5	951%
11	1B63	11,240	6,362	12IAC53B811A	1600	5200-0.5	6600	70%	4,422	12IAC53A803A	480	1440-0.5	821%
12	1B64	8,711	6,511	12IAC53B811A	1600	5200-0.5	6000	45%	3,383	12IAC53A803A	480	1440-0.5	605%
13	1B65	12,171	5,389	12IAC53B811A	1600	5200-0.5	4000	204%	4,577	12IAC53A803A	480	1440-0.5	854%
14	1B69	13,282	6,362	12IAC53B811A	1600	5200-0.5	6600	101%	5,775	12IAC53A803A	480	1440-0.5	1103%
15	1B72	9,221	7,260	12IAC53B811A	1600	5200-0.5	7200	28%	3,287	12IAC53A803A	480	1440-0.5	585%

Ridgewood Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	5B29	8,219	5,688	SEL-751	1500	3000-0.569	4000	105%	3,015	751501ACADA70850831	480	960-0.8189	528%
2	5B30	8,240	5,052	12IAC51B101A	1280	3840-0.3	4000	106%	2,984	12IAC51A2A	240	1200-0.3	1611%

Network Feeders with 27 MVA Total Connected Transformer Capacity (Cont.)

Williamsburg Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	6B42	8,195	4,865	CO-9 264C901A07	1600	4800-0.58	3000	173%	2853	CO-9 264C901A05	240	720-0.58	1089%
2	6B43	11,318	5,314	CO-9 264C901A07	1600	4800-0.58	3000	277%	4107	CO-9 264C901A05	240	720-0.58	1611%
3	6B51	7,278	5,314	CO-9 264C901A07	1600	4800-0.58	3000	143%	2417	CO-9 264C901A05	240	720-0.58	907%
4	6B52	7,361	4,902	SEL-751/SEL-451	1280	3840-0.4	5760	28%	2427	SEL-751/SEL-451	320	960-0.49	658%
5	6B53	7,791	5,089	CO-9 264C901A07	1600	4800-0.58	3000	160%	2722	CO-9 264C901A05	240	720-0.58	1034%
6	6B57	9,176	4,940	CO-9 264C901A07	1600	4800-0.58	4640	98%	3275	CO-9 264C901A05	320	960-0.58	923%
7	6B58	8,355	4,977	CO-9 264C901A07	1600	4800-0.58	3200	161%	3075	CO-9 264C901A05	240	720-0.58	1181%

Jamaica Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC TD	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC TD	%
1	5Q32	7,842	4,865	HZ Impedance Relay	N/A	N/A	N/A	No IOC Operation	2,913	12IAC55A2A	400	1200-0.07	628%
2	5Q34	9,358	5,089	12IAC51D1A	960	1920-1.02	No IOC	No IOC Operation	3,406	12IAC55A2	320	960-0.07	2705%
3	5Q35	6,979	5,201	HZ Impedance Relay	N/A	N/A	N/A	No IOC Operation	2,184	HZ Impedance Relay	N/A	N/A	N/A

Long Island City Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	1Q08	12,564	5,014	BE1-50/51B-219 & BE1-851	960	2800-0.19	4000	214%	4,700	BE1-851	640	1570-0.09	634%
2	1Q20	10,956	5,014	BE1-50/51B & BE1-851	960	2800-0.19	4000	174%	4,257	BE1-851	640	1570-0.09	565%
3	1Q21	10,792	5,538	BE1-50/51 & BE1-851	1280	4700-0.2	6400	69%	3,899	BE1-851	640	1570 - 0.09	509%
4	1Q22	10,653	5,538	BE1-50/51 & BE1-851	960	2800-0.19	4000	166%	3,921	BE1-851	640	1570-0.09	513%

Network Feeders with 19 MVA Total Connected Transformer Capacity

Central Bronx Network													
#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	4X45	8,207	9,249	GE F60/SEL 351A	1716	5160-0.49	6000	37%	2,023	GE F60/SEL 351A	480	1800-0.32	321%
2	4X50	10,108	7,461	GE F60/SEL 351A	1716	5160-0.49	6000	68%	2,987	GE F60/SEL 351A	480	1800-0.32	522%
3	4X51	8,232	7,228	GE F60/SEL 351A	1716	5160-0.49	6000	37%	2,403	GE F60/SEL 351A	480	1800-0.32	401%
4	4X55	9,764	7,306	GE F60/SEL 351A	1716	5160-0.49	6000	63%	2,798	GE F60/SEL 351A	480	1800-0.32	483%
5	4X57	9,483	5,907	GE F60/SEL 351A	1716	5160-0.49	6000	58%	2,803	GE F60/SEL 351A	480	1800-0.32	484%

Network Feeders with 19 MVA Total Connected Transformer Capacity (Cont.)

Fordham Network													
#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	3X58	7,824	5,984	GE-F60/SEL-451	1200	3600-0.22/ 3600-0.29	6000	30%	2,303	GF-F60/SEL-451	400	1200-0.1	476%
2	3X60	8,864	7,539	GE-F60/SEL-451	1680	5040-0.22/ 5040-0.29	7600	17%	2,372	GE-F60/SEL-451	600	2025-0.1	295%
3	3X62	9,977	10,725	GE-F60/SEL-451	1200	3600-0.22/ 3600-0.29	8000	25%	2,985	GE-F60/SEL-451	400	1200-0.1	646%
4	3X63	9,039	6,839	GE-F60/SEL-451	1800	5400-0.22/ 5400-0.29	8000	13%	2,469	GE-F60/SEL-451	600	1800-0.1	312%
5	3X64	8,202	6,995	GE-F60/SEL-451	1800	5400-0.22/ 5400-0.29	7000	17%	2,553	GE-F60/SEL-451	600	1800-0.1	326%
6	3X66	9,648	9,637	GE-F60/SEL-451	1680	5040-0.22/ 5040/0.29	7200	34%	2,902	GE-F60/SEL-451	600	1800-0.1	384%
7	3X68	8,981	6,684	GE-F60/SEL-451	1680	5040-0.22/ 5040/0.29	7200	25%	2,921	GE-F60/SEL-451	600	1800-0.1	387%
8	3X69	10,760	8,394	GE-F60/SEL-451	1920	5760-0.22/ 5760-0.29	7200	49%	3,230	GE-F60/SEL-451	600	1800-0.1	438%
9	3X70	9,101	7,166	GE-F60/SEL-451	1680	5040-0.22 /5040-0.29	7200	26%	3,169	GE-F60/SEL-451	600	1800-0.1	428%
10	3X71	8,809	7,461	GE-F60/SEL-451	1680	5040-0.22 /5040-0.29	7200	22%	2,454	GE-F60/SEL-451	600	1800-0.1	309%
11	3X72	9,256	8,238	GE-F60/SEL-451	1680	5040-0.22/ 5040-0.29	7920	17%	2,826	GE-F60/SEL-451	600	1800-0.1	371%
12	3X74	9,857	6,839	GE-F60/SEL-451	1680	5040-0.22/ 5040/0.29	4320	128%	2,790	GE-F60/SEL-451	600	1800-0.1	365%
13	3X75	10,054	6,062	GE-F60/SEL-451	1200	3600-0.22/ 3600-0.29	6000	68%	3,253	GE-F60/SEL-451	400	1200-0.1	713%
14	3X76	9,898	8,083	GE-F60/SEL-451	1680	5040-0.22 /5040-0.29	7200	37%	2,949	GE-F60/SEL-451	600	1800-0.1	392%
15	3X77	9,145	7,850	GE-F60/SEL-451	1800	4200-0.5	8880	3%	3,238	GE-F60/SEL-451	480	1440-0.1	575%
16	3X79	10,537	5,907	GE-F60/SEL-451	1800	5400-0.27	8400	25%	3,095	GE-F60/SEL-451	600	1800-0.10	416%

Network Feeders with 19 MVA Total Connected Transformer Capacity (Cont.)

Northeast Bronx Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	5X31	7,968	8,238	MCO-9	1800	5400-0.5	7200	11%	2,376	MCO-9	600	1800-0.5	296%
2	5X33	7,587	7,150	MCO-9	1800	5400-0.5	6300	20%	2,197	MCO-9	480	1440-0.52	358%
4	5X36	9,950	9,637	MCO-9	1800	5400-0.5	7200	38%	3,040	MCO-9	600	1800-0.5	407%
5	5X37	9,419	8,860	MCO-9/GE-F60	1800	5400-0.5 /6000-0.46	7200	32%	3,115	MCO-9/GE-F60	600/480	1800-0.5 /4000-0.19	590%
6	5X38	7,338	6,373	MCO-9	1200	3600-0.5	5616	31%	2,093	MCO-9	600	1800-0.5	249%
7	5X40	10,319	6,839	MCO-9	1200	3600-0.5	5900	75%	3,643	MCO-9	600	1800-0.5	507%
8	5X41	7,663	5,907	MCO-9/GE-F60	1800	5400-0.5 /6000-0.46	7200	6%	2,411	MCO-9/GE-F60	600/480	1800-0.5	280%

Southeast Bronx Network

#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	7X81	8,923	6,839	SEL-751/SEL751	1680	5040-0.34	7440	20%	3177	SEL-751/SEL-751	480	1440-0.34	562%
2	7X83	9,751	8,083	SEL-751/SEL751	1680	6720-0.2	9600	2%	3,009	SEL-751/SEL-751	480	2400-0.30	527%
3	7X85	8,123	6,295	SEL-751/SEL751	1600	4800-0.39	7200	13%	2,834	SEL-751/SEL-751	480	1440-0.38	490%
4	7X86	9,486	6,218	12IAC51B1A	1200	3600-0.5	5800	64%	2,836	12IAC55A2A	480	1440-0.07	491%
5	7X89	7,508	6,995	12IAC51B1A/GE-F60	1440/1800	4320-0.5 /6000-0.99	7512	0%	2,775	12IAC55A2A/GE-F60	480/720	1440-0.38 /2160-2.42	596%
6	7X95	6,768	8,705	12IAC51B101A	1200	3600-0.5	9600	29%	2,175	12IAC55A2A	480	1440-0.38	353%
7	7X98	9,736	9,948	12IAC51B101A/GEF60	1920	4800-0.70	7200	35%	3,371	12IAC55A2A/GE-F60	720/720	1440-0.53 /2160-1.59	366%

Network Feeders with 19 MVA Total Connected Transformer Capacity (Cont.)

West Bronx Network													
#	FEEDER NUMBER	3PH EOL Fault Current	Inrush Current	PHASE RELAY SETTINGS (50/51)				TPH Fault Current - Relay Setting Margin	1PH EOL Fault Current	GROUND RELAY SETTINGS (51N)			SLG Fault Current - Relay Setting Margin
		Amp	Amp	Relay Style	Phase TOC PU	Phase TOC Test Point (Amp-Sec)	Phase IOC PU	%	If (A)	Relay Style	Neutral TOC PU	Neutral TOC Test Point (Amp-Sec)	%
1	2X01	7,646	7,850	BE1-50/51B-219 /BE1-851	1680	5040-0.6 /6720-0.35	6000	27%	2,031	BE1-851	720	2880-0.11	182%
2	2X02	8,481	7,539	CO-7#1875263A	1680	5040-0.5	6400	33%	2,487	CO-2#1875222A	480	960-0.2	755%
3	2X03	11,367	6,062	CO-9#264C901A07	1680	5040-0.6	6400	78%	3,822	CO-2#1875222A	480	960-0.2	696%
4	2X04	7,080	6,062	BE1-50/51B-219	1680	5040-0.63 6720/0.35	5000	42%	1,958	BE1-851	600	2400-0.1	226%
5	2X08	13,496	11,192	CO-9#264C901A07	1680	5040-0.6	8400	61%	4,714	CO-2#1875222A	480	960-0.2	882%
6	2X10	8,526	8,549	CO-7#1875263A	1680	5040-0.5	6400	33%	2,444	CO-2#1875222A	480	960-0.2	409%
7	2X12	13,834	7,150	CO-9#264C901A07	1680	5040-0.60	6400	116%	4,575	CO-2#1875222A	480	960-0.2	853%
8	2X13	11,444	8,565	CO-9#264C901A07	1680	5040-0.6	6400	79%	3,350	CO-2#1875222A	480	960-0.2	598%
9	2X15	8,475	6,373	CO-7#1875263A	1200	5040-0.5	4800	77%	2,470	CO-2#1875222A	480	960-0.2	415%
10	2X19	8,407	6,606	CO-9#264C901A07	1680	5040-0.6	6400	31%	2,419	CO-2#1875222A	480	960-0.2	404%
11	2X21	12,582	8,083	CO-7#1875263A	1680	5040-0.5	6400	97%	3,821	CO-2#1875222A	480	960-0.2	696%
12	2X22	8,797	8,083	CO-7#1875263A	1200	3600-0.5	6100	44%	2,327	CO-2#1875222A	480	1440-0.13	385%
13	2X23	13,742	6,995	CO-7#1875263A	1200	3600-0.5	6400	115%	5,028	CO-2#1875222A	480	1440-0.13	948%
14	2X24	8,597	6,839	BE1-50/51B-219 /BE1-851	1680	5040-0.6 /6720-0.35	6480	33%	2,244	BE1-851	800	3200-0.18	181%
15	2X25	8,345	8,705	BE1-50/51B-219 /BE1-851	1920	5040-0.6 /5760-0.51	6000	39%	2,300	BE1-851	720	2880-0.09	219%
16	2X26	11,470	8,083	CO-7#1875263A	1200	3600-0.5	6600	74%	3,388	CO-2#1875222A	480	2400-0.1	606%
17	2X27	11,276	8,705	CO-9#264C901A07	1200	3600-0.5	7400	52%	3,169	CO-9#264C901A05	480	2400-0.3	560%
18	2X28	9,541	7,617	CO-7#1875263A	1200	4800-0.6	4800	99%	2,774	CO-2#1875222A	480	2400-0.1	478%
19	2X29	9,427	6,606	CO-7#1875263A	1200	3600-0.5	5100	85%	2,692	CO-2#1875222A	480	960-0.2	461%
20	2X30	9,175	8,161	CO-9#264C901A07	1680	5040-0.6	7200	27%	2,815	CO-9#264C901A05	480	2880-0.2	486%

SECONDARY INFORMATION FOR SELECTED NETWORKS

For each of the selected networks, the following secondary information is provided below:

- Quantity of secondary main inspections performed during calendar year 2024.
- Quantity of secondary cable sections replaced during 2024.

2024 Underground Inspection Summary

Network	Total Inspections	Unique Inspections	Number of U.G. Structures
Williamsburg	1720	1273	9519
Ridgewood	1507	1193	8588
Central Bronx	1617	975	6568
West Bronx	1584	810	7025
Fordham	1514	955	7155
Southeast Bronx	1008	694	5348
Northeast Bronx	563	390	3104
Borough Hall	1208	893	6824
Jamaica	1419	1182	16179
Park slope	1095	839	7929
Long Island City	737	565	8879

Quantity of Secondary Cable Sections Replaced

The table below shows the amount of secondary cable sections (mains) replaced by Region[6].

Region	Sections
Manhattan	955
Brooklyn & Queens	1193
Bronx & Westchester	233
System-wide	**2371**

[6] Data Source: Work Management System (WMS)

MISCELLANEOUS INFORMATION FOR SELECTED NETWORKS

For each of the selected networks, the following miscellaneous information is provided below:

- Manhole and CO events during the winter months (November 1st, 2024 – March 31st, 2025), including location and date of event.
- List of N-2 or higher contingency events during the summer months (June 1st – Sept 30st) with associated customer impacts, including summary of event with date and weather conditions.
- Summary of dollars spent within each network on repairs vs. scheduled improvements for calendar year 2024.

Manhole and CO Events during the Winter Months

This section reports on the CO and Manhole events associated with the "Ten Selected Networks" and Long Island City network from November 1st, 2024 to March 1st, 2025. The 2025 interim report on the Manhole Performance will cover the events from November 1st, 2024 to March 31st, 2025.

There were 2 CO Events and 450 manhole events in these eleven networks. Of these 2 CO events, both were associated to manhole events. The following table displays the distribution of the manhole events in each network.

Manhole Events by Network

Network	MHF	MHO	MHX	SMH
Williamsburg - 06B	5			68
Ridgewood - 05B	3	1	1	56
Central Bronx – 04X		1		35
West Bronx – 02X	2			32
Fordham - 3X			1	56
Southeast Bronx – 7X				19
Northeast Bronx - 05X				7
Borough Hall - 01B	4			33
Jamaica – 05Q	3	1		47
Park Slope – 02B	3			33
Long Island City -01Q	3			36
Grand Total	23	3	2	422

The following table displays the 2 CO events, and they were associated to manhole events.

Manhole Events with CO release in the Eleven Selected Networks

Incident Date	Network	Address	CO Reading [PPM]	Root Cause	Trouble Type	Cable Size	Weather
1/25/2025	Ridgewood	209 HIMROD ST	260	IN	COE	4/0	CL
12/24/2024	Central Bronx	938 E 163 ST	800	IN	COE	CU	CL

Summary Dollars Spent within Each Selected Network

2024 Dollars Spent ($000)

Network Name	Capital	O&M
Williamsburg - 06B	55,902	9,830
Ridgewood - 05B	37,320	6,951
Central Bronx – 04X	27,109	5,990
West Bronx – 02X	38,781	6,881
Fordham - 03X	40,433	7,689
Southeast Bronx – 07X	26,628	6,311
Northeast Bronx - 05X	20,529	4,871
Borough Hall - 01B	40,451	11,170
Jamaica – 05Q	52,331	12,059
Park Slope – 02B	28,319	9,378
Long Island City -01Q	27,525	4,447

List of N-2 or higher Contingency Events

Network	Highest Contingency	Customers Interrupted	Date	Duration (Hrs)	Max Dry (F)
Williamsburg	3	17	8/9	3	80
Central Bronx	2	2	6/23	7	92
West Bronx	2	0	8/9	13	80
Fordham	3	100	6/21	5	94
Fordham	2	2	8/3	8	93
Fordham	2	0	8/11	3	80
Fordham	2	0	8/27	15	86
Southeast Bronx	2	0	9/29	3	63
Borough Hall	2	0	9/24	89	68
Jamaica	2	0	7/23	11	81
Long Island City	2	0	6/6	1	81
Long Island City	2	0	6/7	14	82
Long Island City	2	0	9/18	51	75

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