STATE OF NEW YORK
PUBLIC SERVICE COMMISSION

Case No. 09-E-0115 *Proceeding on Motion of the Commission to Consider Demand Response Initiatives*

Case No. 10-E-0229 *Petition of Consolidated Edison Company of New York, Inc. for Approval of Direct Load Control Program*

Case No. 08-E-1463 *Tariff Amendments to Make Various Revisions to Rider U – Distribution Load Relief Program (DLRP) in Compliance with Commission Order Issued April 8, 2009 in this Case*

Case No. 15-E-0570 *Tariff filing by Consolidated Edison Company of New York, Inc. to Revise its Commercial Demand Response Programs*

Case No. 14-E-0423 *Proceeding on Motion of the Commission to Develop Dynamic Load Management Programs*

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. REPORT ON PROGRAM PERFORMANCE AND COST EFFECTIVENESS OF DEMAND RESPONSE PROGRAMS - 2023

Filed November 15, 2023

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1. Executive Summary

Consolidated Edison Company of New York, Inc. ("Con Edison" or the "Company") submits this report on the performance of its Demand Response ("DR") programs pursuant to the New York State Public Service Commission's ("Commission" or "PSC") October 23, 2009 Order Adopting in Part and Modifying in Part Con Edison's Proposed Demand Response Programs ("October 2009 Order").[1]

This report discusses five Con Edison DR programs: (1) Rider T – Commercial System Relief Program ("CSRP"); (2) Rider T - Distribution Load Relief Program ("DLRP"); (3) Rider AC – Direct Load Management (DLM) Program – Auto-DLM; (4) Rider AC – Direct Load Management (DLM) Program –Term-DLM; and (5) Rider L – Direct Load Control Program ("DLC" or "DLC Program")[2] through the Bring Your Own Thermostat ("BYOT") program. The report also reviews the New York Power Authority ("NYPA") DR enrollments and performance, and cost components and program performance associated with these programs for the 2023 program year, January 1, 2023 through December 31, 2023.[3] Con Edison DR program performance in 2023 is summarized below in Table 1:

[1] Case 09-E-0115, *Proceeding on Motion of the Commission to Consider Demand Response Initiatives*, Order Adopting in Part and Modifying in Part Con Edison's Proposed Demand Response Programs (issued October 23, 2009), p. 25-26. On April 20, 2018 the Commission ordered the Company to amend the filing date from December 1 of each year to November 15 of each year. Case 17-E-0741, *Petition of Consolidated Edison Company of New York, Inc. for Approval of Changes to Commercial Demand Response Programs with Associated Tariff Amendments*, Order Approving Changes to Commercial Demand Response Programs with Modifications (issued April 20, 2018), p. 11.

[2] The Commission directed that the DLC evaluation be included as part of the Company's evaluation of its demand response programs in Case 10-E-0229, *Petition of Consolidated Edison Company of New York, Inc. for Approval of Direct Load Control Program,* Staff Recommends Approval of the Continuation of the Company's Direct Load Control Program as Described in this Memorandum – Approved as Recommended and So Ordered (issued September 22, 2010), p. 10. While not required to do so, the Company has included DLRP in this report in order to provide the Commission with a comprehensive assessment of its demand response programs. CSRP and DLRP were previously in Rider S and Rider U respectively but were combined into Rider T as authorized in Case 15-E-0570, *Tariff Filing by Consolidated Edison Company of New York, Inc. to revise its Commercial Demand Response Programs,* Order Approving Tariff Amendments (issued January 27, 2016). The Critical Peak Rebate Program ("CPRP") was originally part of this evaluation, however it is not discussed here because in a subsequent order in this proceeding the Commission allowed the Company to eliminate the CPRP and to create a voluntary option in the CSRP program to accommodate existing CPRP large customer participants. *Order Adopting with Modifications Tariff Amendments Related to Demand Response Programs* (issued March 15, 2012), p. 9.

[3] Costs for October, November, and December are estimated.

Table 1: Summary of 2023 Program Performance

Program Name	2023 Customers Enrolled	2023 MW Enrolled[4]	2023 MW Reduction Achieved[5]
CSRP	32,121	437	363
DLRP	32,426	488	349
Term-DLM	533	25.2	25.1
Auto-DLM	7	7	2
BYOT	43,500	34.4[6]	27.5
Total	**108,587**	**991.6**	**766.6**

Con Edison enacted new initiatives and partnered with third-party market participants ("aggregators") on customer outreach in 2023 to grow the size of its DR programs both in terms of enrolled megawatts ("MW") and number of enrolled customers. The Company's completed rollout of AMI throughout its service territory at the end of 2022[7] significantly expanded the number of eligible customers by enabling residential and small-to-medium business ("SMB") customers to participate in its programs. To engage these customers, Con Edison launched new marketing campaigns and initiatives in 2023 such as email campaigns and cobranding with aggregators. Additionally, the Company directed prospective customers toward participating aggregators, who utilized the rollout of AMI meters to enroll new residential and SMB customers in their programs.

The size of the CSRP and DLRP programs increased from 2022 to 2023. Although new enrolled residential and SMB customers have lower overall usage and subsequently smaller MW reductions available to pledge compared to larger commercial customers, the Company saw increases in enrolled MW and the number of enrolled customers across both programs. One new aggregator also joined the CSRP and DLRP programs in 2023. Aggregators and Direct

[4] "Enrolled" is defined as the total pledged MW in a network, without adjusting for performance factor.
[5] "Achieved reductions" were calculated by adjusting enrollment values to reflect actual performance. These results are partly based on data that will be further validated.
[6] Potential load reduction if the total enrolled population of thermostats participated in an event.
[7] Con Edison Electric Long-Range Plan (January 2022).

Enrollees[8] that actively participated under Rider T and/or Rider AC programs increased from 33 in 2022 to 36 in 2023. CSRP saw an increase of 17 percent of MW enrolled from 374 MW to 437 MW, and DLRP enrolled MW increased by 20 percent from 406 MW to 488MW. [9] The number of customers enrolled in CSRP grew by 112 percent from 15,139 to 32,121 customers, and DLRP grew by 110 percent from 15,477 to 32,426 customers. The Company expects to see continued growth in enrollments for both programs for the 2024 DR program year.

For the 2023 DR event-calling season, which took place between May 1 and September 30 ("Capability Period"), there were 4 CSRP planned events called in one day, one event for each of four call windows, one CSRP Unplanned event, as well as 13 DLRP events across multiple networks and one DLRP test event. The average MW performance during system-wide DR tests and events increased for CSRP and decreased for DLRP; the performance in CSRP increased 18.2 percent from 307 MW to 363 MW, while DLRP average test performance decreased 0.6 percent from 351 MW to 349 MW. The average performance factor for CSRP events increased from 82 percent in 2022 to 83 percent in 2023, and the average performance factor for the DLRP test event decreased from 86 percent to 72 percent. Performance varied by network during events in CSRP and DLRP.

2023 was the third year of the Term- and Auto-DLM programs offered under Rider AC. These programs enable aggregators to bid for competitively procured long-term contracts lasting three-to-five years. In the 2023 Capability Period, there were twelve Term-DLM events. Customers enrolled in Auto-DLM were also called for the Term-DLM events. 533 customers enrolled in Term-DLM in 2023 compared to 315 in 2022, an increase due primarily to residential customers enrolling in aggregators' offerings. Customers pledged 25.17 MW for the program in 2023 compared to 25.6 MW in 2022 as some aggregators paid Early Exit Fees to exit their contracts early.[10] Seven customers enrolled in Auto-DLM in 2023 compared to two in 2022,

[8] Direct Enrollees are individual customers that: 1) pledge at least 50kW in load relief and 2) enroll directly with Con Edison rather than with an agreggator.

[9] This represents DLRP weekday pledges. In 2021, the DLRP program began allowing different pledge amounts for weekdays and weekends to meet the need for flexibility. Participants' weekend load relief pledge is required to be at least 25 percent of the participant's weekeday load relief plege. Case 20-E-0547, *Petition of Consolidated Edison Company of New York, Inc. for Approval of Changes to Commercial Demand Response Programs* ("2020 Con Edison DR Proceeding"), Order Adopting in Part, Modifying in Part, and Rejecting in Part Commercial Demand Response Program Changes (issued March 22, 2021) ("2021 Order"), p. 16. The total MW enrolled in DLRP weekend was 387 MW.

[10] Early Exit Fee refers to a fee paid to the Company prior to the beginning of a Capability Period to reduce the amount of Portfolio Quantity associated with an Aggregation for the remaining duration of the contract.

with a 7 MW program pledge that increased from 3.9 in the previous year.

The BYOT Program incentivizes customers to enroll their smart thermostats and participate in DR events. In 2023, 43,500 devices were enrolled in the program,[11] an increase from the 38,500 enrolled in 2022. Average load reduction during system-wide peak shaving events increased from 16.5 MW in 2022 to 27.5 MW in 2023.

The DR programs are a valuable and cost effective resource for providing load relief when peak shaving and contingency needs arise. The Company expects to see increased enrollments from customers in future years, especially from aggregators who continue to enroll residential customers. This increases the value of DR for resource planning and infrastructure deferral.

2. Demand Response Programs Introduction

Con Edison offers two categories of DR programs, contingency and peak shaving, to individual customers and aggregators which focus on supporting reliability and reducing costs of operating the electric distribution system. The programs operate during the summer Capability Period throughout the Company's service territory.

The Company's performance-based programs rely on interval meter data and a baseline methodology, as well as prescriptive offerings for customers to participate with smart devices. CSRP, DLRP, Term-DLM and Auto-DLM are designed for customers who are able to achieve a pledged reduction amount through their own demand reduction strategies. These programs are open to both large commercial and smaller customers, including direct metered residential customers. Customers and aggregators in these programs make load relief commitments for one or more years. Both CSRP and DLRP each have a mandatory ("Reservation Payment Option") and a voluntary ("Voluntary Option") enrollment option with separate obligations and incentive rates. In 2021, the Company introduced Term- and Auto-DLM programs where aggregators can sign multi-year contracts to provide load relief at a fixed dollar per kW value of compensation ("Incentive Rate") determined through a competitive procurement process. The Term-DLM program is a peak shaving program. Auto-DLM is a contingency program whose customers also provide peak shaving by participating in Term-DLM events when called.

[11] Includes devices enrolled prior to November 2023.

The DLC Program is a mass market program intended for smaller commercial and residential customers with an eligible smart thermostat who participate through the BYOT program. The DLC Program also addresses contingency and peak shaving demands, and uses Wi-Fi enabled thermostats and learning thermostats to control participants' air conditioning units during demand response events.

Performance evaluation for each program during the 2023 Capability Period is based upon test and actual event data for the contingency and peak-shaving programs.

3. Commercial System Relief Program (CSRP)

CSRP is a peak-shaving program open to customers throughout the Company service territory who can curtail load or use on-site generation to reduce their demand (or increase export for qualifying facilities[12]) by a minimum of 50 kW. Customers can also enroll through aggregators/curtailment service providers who aggregate a minimum of 50 kW of demand reduction. The Company releases an Advisory with a minimum of 21 hours of notice before a Planned Event. A Planned Event refers to the Company's demand for load relief when the day-ahead and then same-day forecasted load is at least 92 percent of the Company's forecasted summer system peak or the day-ahead and then same-day forecasted Temperature Variable is forecasted to exceed 84 degrees.[13] If the forecasted load is revised below 92 percent of the Company's forecasted summer peak or the forecasted Temperature Variable is below 84 degrees, the CSRP event can be cancelled up to two hours before the start of the event to avoid unnecessarily activating the program. An Unplanned Event refers to the Company's request for load relief: (a) on less than 21 hours' advance notice; or (b) for hours outside of the contracted hours; or (c) when, in the Company's judgment, a network needs load relief.

One Planned CSRP event was called during the 2023 Capability Period based on the forecasted Temperature Variable. There was one weekday during the 2023 Capability Period when the Temperature Variable ranged between 83 and 84 degrees. The load forecast on that day did not require calling CSRP.

CSRP includes both a Reservation Payment Option (mandatory participation) and a Voluntary Option (voluntary participation). Participant payment under both options is shown in Table 2.

[12] In 2012, the program was expanded to allow participation by qualifying facilities that export under Service Class 11 (SC-11) that can increase export load to the system during events. Case 09-E-0115, *Proceeding on Motion of the Commission to Consider Demand Response Initiatives*, Order Adopting with Modifications Tariff Amendments Related to Demand Response Programs (issued March 15, 2012), p. 8.

[13] In 2021, the program Advisories for CSRP Planned Events expanded to include Temperature Variable. 2020 Con Edison DR Proceeding, 2021 Order, p. 16.

Table 2: CSRP Payment Structure

Enrollment Option	Enrollment Location	Reservation Payment[14]	Event Type	Payment
Reservation Payment Option	Staten Island, Westchester	$6 / kW / month	Planned	$1 / kWh reduced during DR events
			Unplanned	$6 / kWh reduced during DR events
	Brooklyn, Bronx, Manhattan, Queens	$18 / kW / month	Planned	$1 / kWh reduced during DR events
			Unplanned	$6 / kWh reduced during DR events
Voluntary Option	All	N/A	Planned	$3 / kWh reduced during DR events
			Unplanned	$10 / kWh reduced during DR events

Participants must respond to a CSRP Planned Event for a four-hour period, with the time of the four-hour event period dependent on the participant's location. Four four-hour time blocks aligned to network peak hours are 11 AM to 3 PM, 2 PM to 6 PM, 4 PM to 8 PM, and 7 PM to 11 PM. In 2023, the Company implemented four additional six-hour Response Windows;[15] 10 AM to 4 PM, 1 PM to 7 PM, 3 PM to 9 PM, and 6 PM to 12 AM, to address increasing peak demands in the hours preceding and following a CSRP planned event due to pre-cooling and snapback usage. In the fifteen networks selected for an extended Response Window, customer load reductions are calculated using the average of the highest hourly load relief provided during four consecutive hours of reductions during the six-hour Response Window. Customers in these networks are also given the opportunity to earn additional performance payments by participating for more than four hours during the six-hour Response Window.[16]

[14] During a Capability Period that includes five or more Planned Events, the reservation payment increases by $5 per kW per month, beginning with the first month in which there were five or more program-year cumulative Planned Events in the network.
[15] Per the Copmany's Rider T Tariff, "Response Window" means a) the six-hour period including the four Contracted Hours, the hour prior to the Contracted Hours and the hour following the Contracted Hours for Networks with extended peaks as listed on the Company's website or b) the four Contracted Hours for all remaining Networks.
[16] Case 14-E-0423, *Proceeding on Motion of the Commission to Develop Dynamic Load Management Programs* ("DLM Proceeding"), Order Directing Dynamic Load Management Program Changes ("2022 Petition Order") (issued April 21, 2023).

Customer load reductions are measured using a Customer Baseline Load ("CBL")[17] methodology. The CBL for the day of an event is the estimate of the customer's load level had there been no event. The difference between the CBL and the actual load is used to determine the achieved performance. Customers have the choice of selecting an Average Day or Weather Adjusted CBL depending on how their load is normally affected by changes in the weather. The weather adjustment allows for a variation range of up to 20 percent in either direction (increase or decrease) from that of an average day assumption to account for the weather on the day of the event compared with the five days used for the baseline.

CSRP has environmental and performance requirements, including a 20 percent enrollment cap for diesel generators. Regulations adopted by the State Department of Conservation will further limit these generators' ability to participate beginning in 2025.[18] Enrollment by such generators is accepted on a first-come, first-served basis. Fossil fuel generation participation in the program is restricted based on emissions and model year vintage.

Events and Test Summary

In 2023, approximately 437 MW were enrolled in the CSRP program.[19] The CSRP event trigger was 12,000 MW, representing 92 percent of the forecasted summer system-wide peak of 12,990 MW.

Con Edison called four planned CSRP events over one day during the 2023 Capability Period. These events targeted specific networks or regions to support emergent system needs for load relief. Performance factors ranged from 67 percent to 126 percent.

Summaries of the CSRP results are shown in Table 3 and Table 4. A more detailed summary can be found in Appendix A: CSRP Event Performance Data.

[17] Customer Baseline Load methodology is available on the Con Edison Demand Response website: https://www.coned.com/-/media/files/coned/documents/save-energy-money/rebates-incentives-tax-credits/smart-usage-rewards/customer-baseline-load-procedure.pdf?la=en.

[18] Official Compilation of Codes, Rules and Regulations of the State of New York, *Title 6. Department of Environmental Conservation Chapter III. Air Resources Subchapter A. Prevention and Control of Air Pollution Part 222. Distributed Generation Sources* ("6 CRR-NY Part 222").

[19] With rounding, 414 MW were enrolled through the Reservation Payment Option. An additional 6,816 customers enrolled 21 MW of load relief through the Voluntary Option.

Table 3: CSRP Summary by Call Window

Event	Date	Call Window	Customers Enrolled	MW Enrolled [20]	MW Reduction Achieved	Performance Factor Achieved [21]
Event	7/28/2023	11 AM – 3 PM	2,901	140	151	108%
Event	7/28/2023	2 PM – 6 PM	13,762	162	123	76%
Event	7/28/2023	4 PM – 8 PM	10,809	128	86	67%
Event	7/28/2023	7 PM – 11 PM	4	2	3	126%

Table 4: CSRP Summary by Day

Test or Event	Date	Customers Enrolled	MW Enrolled	MW Reduction Achieved	Performance Factor Achieved
Event	7/28/2023	27,476	432	363	84%

Network Impacts

The goal of CSRP is to reduce network peak demands to defer capital investment that would otherwise be needed. To assess the potential impacts of CSRP at the network level, the Company analyzed the enrollment in the Reservation Payment Option in each network. Performance was analyzed using CSRP event data for the Reservation Option participants. Results are displayed in Table 5. The Company continues to see growth in the programs in terms of overall MW reduced from 307 MW in 2022 to 363 MW in 2023. The percentage of total peak demand also increased from 2.4 percent in 2022 to 7.2 percent in 2023. Appendix B: CSRP Enrolled and Achieved Network Impacts details program performance and network impacts as a percentage of network peaks for enrolled and achieved reductions.

Table 5: Summary of CSRP Reservation Payment Option Enrolled and Achieved Impact

Call Window	MW Enrolled	Average MW Reduction Achieved	Performance Factor Achieved	Call Window Peak Demand (MW)	CSRP Impact on Peak Demand (% of Call Window Peak)
11 AM – 3 PM	139	151	108%	2,096	7%
2 PM – 6 PM	148	123	83%	5,447	2%

[20] The numbers are rounded to the nearest whole MW.
[21] The numbers are rounded to the nearest whole percent.

4 PM – 8 PM	125	86	68%	4,910	2%
7 PM – 11 PM	2	3	126%	16	18%

Six-Hour Response Period

In 2022, the Company petitioned and was ordered to establish six-hour response windows across 15 select networks.[22] Participation varied during the six-hour Response Window with some customers participating in the first four hours and some customers participating in the last four hours. Customer responses overlapped in the middle hour of the Response Window, meaning all customers provided load relief at this time. Overall, the extended Response Window achieved the goal of spreading out participation within the Response Window to smooth load relief in these longer peaking networks. Table 6 summarizes the performance of the 15 select networks spread across the extended six-hour Response Window. The green cells highlight when kW reductions were the highest within the Response Window, showing that participation did spread across the extended six hours.

Table 6: Summary of 6-Hour Response Period

6 Hour Response Windows					
Network Name		**Event Hours 1 - 4**	**Event Hours 2 - 5**	**Event Hours 3 - 6**	**Total**
Beekman	# of Accounts	41	24	55	120
	kW Reductions	763.43	1670.64	5918.51	8352.57
Herald Square	# of Accounts	22	8	33	63
	kW Reductions	1873.83	589.35	4956.81	7419.99
Grand Central	# of Accounts	90	32	84	206
	kW Reductions	1526.32	1521.23	11074.99	14122.54
Fulton	# of Accounts	32	13	26	71
	kW Reductions	1797.81	1003.30	1476.54	4277.64
Pennsylvania	# of Accounts	88	37	92	217
	kW Reductions	6165.50	7145.53	9871.76	23182.79
Bowling Green	# of Accounts	18	14	22	54
	kW Reductions	1444.42	8757.06	4975.18	15176.66
Turtle Bay	# of Accounts	6	9	7	22
	kW Reductions	402.68	2059.26	2309.34	4771.28
Rockefeller Center	# of Accounts	16	8	11	35
	kW Reductions	970.50	3328.76	2518.70	6817.96

[22] DLM Proceeding, 2022 Petition, p. 14.

Times Square	# of Accounts	20	6	15	41
	kW Reductions	3706.58	1521.80	3758.35	8986.72
Greeley Square	# of Accounts	34	14	49	97
	kW Reductions	4146.13	-8.03	711.16	4849.26
Park Slope	# of Accounts	167	68	201	436
	kW Reductions	661.70	375.91	311.14	1348.76
Battery Park City	# of Accounts	32	12	34	78
	kW Reductions	470.28	5281.97	177.79	5930.04
Fresh Kills	# of Accounts	90	21	59	170
	kW Reductions	1394.00	1198.22	1616.88	4209.09
Randalls Island	# of Accounts	0	1	3	4
	kW Reductions	0.00	93.37	2628.15	2721.53
Freedom	# of Accounts	1	0	1	2
	kW Reductions	2163.77	0.00	880.23	3044.00

Costs

Total CSRP costs recovered via the Dynamic Load Management ("DLM") Surcharge during the 2023 program year were approximately $32,551,700 a 1.4 percent increase from the 2022 cost of $32,100,500. A majority of program costs in 2023 are Reservation and Performance payments to program participants. Table 7 summarizes the costs, by component, associated with CSRP in 2023.

Table 7: CSRP Cost Components for the 2023 Program Year[23]

Component	Cost	Percentage
Reservation and Performance Payments to Program Participants	$32,262,400	99%
Program Administration[24]	$9,800	<1%
M&V	$0	0%
Marketing	$11,500	<1%
Technology	$268,000	1%
Total Program Costs	**$32,551,700**	100%

[23] Fourth quarter (October, November and December) costs were estimated.
[24] Costs for the Con Edison staff salary and overhead associated with CSRP management and support are embedded in base rates, and not directly collected as part of the CSRP program costs. They are not included in the program costs presented. However, these costs are included in the SCT analysis for this program.

Assessment of Program Growth

In 2023, Reservation Payment Option enrollment increased in both the number of enrolled MW and achieved MW reductions compared to solely achieved MW reductions in 2022. Table 8 shows program enrollment changes that occurred in 2023. Operationally available MW across all call windows increased by 18 percent, though performance varied among call windows.

Growth in the number of enrolled MW and operationally available MW can be attributed to a variety of factors including in-person events and expanded email campaigns. First, the Company engaged in new, direct marketing initiatives aimed at multiple customer segments in 2023. The Company attended industry expos throughout its service territory to promote the programs to customers. For example, at events for property managers, building owners, and other real estate professionals, Con Edison shared information on its DR programs and advised attendees on how to reduce high electric bills through DR measures. Additionally, the Company emailed approximately 3 million customers new educational materials to encourage prospective customers to enroll in the Company's DR programs and direct customers toward participating aggregators. These initiatives were new to Con Edison in 2023 as the Company targeted customer segments that became newly eligible due to the rollout of AMI meters, and the Company expects to continue such efforts in 2024 and beyond. The Company also created a customer-facing webpage designed to simplify messaging and provide a resource for prospective customers to navigate the DR landscape.[25]

Second, the program's stable structure has improved customer retention and encouraged new customer enrollments. CSRP's multiyear implementation now provides customers and aggregators with program familiarity and a demonstrated track record of success that can be referenced and relied upon. Coupled with the widespread deployment of AMI which has significantly increased the pool of prospective customers, this presents an opportunity for continued CSRP growth, as newly eligible customers are introduced to a well-established program. Continued customer growth and performance of the CSRP resources will increase the

[25] Con Edison has a webpage specifically for residential customers, *see,* https://www.coned.com/en/save-money/rebates-incentives-tax-credits/rebates-incentives-tax-credits-for-residential-customers/smart-usage-rewards, and a webpage for businesses and multifamily owners, *see,* https://www.coned.com/en/save-money/rebates-incentives-tax-credits/smart-usage-rewards.

impact of DR on resource planning and infrastructure deferral.

Table 8: CSRP Reservation Payment Option Enrollment by Call Window and System-Wide

Call Window	2022 MW Enrolled	2022 Operationally Available MW	2023 MW Enrolled	2023 Operationally Available MW	2023 vs 2022 Change in MW Enrolled	2023 vs 2022 Change in Oper. Avail. MW
11 AM – 3 PM	117	110	139	151	19%	37%
2 PM – 6 PM	144	131	148	123	3%	-6%
4 PM – 8 PM	109	67	125	86	15%	28%
7 PM – 11 PM	0.18	0.15	2	3	1011%	1714%
All Networks[26]	**371**	**307**	**414**	**362**	**12%**	**18%**

4. Distribution Load Relief Program (DLRP)

DLRP is a network contingency program applicable to individual customers and aggregators who contract to reduce 50 kW or more during an event. DLRP may be called by the Company to reduce strain on local distribution networks (defined to include load areas) when contingencies or certain emergency conditions occur. The Company implemented changes in the 2022 Capability Period to allow both Contingency and Immediate DLRP Events to extend past 12:00 AM and up to 6:00 AM.[27]

DLRP includes both a Reservation Payment Option and a Voluntary Option. Participant payment under both options is shown in Table 9.

[26] Numbers may not sum due to rounding.
[27] This change allowed both Contingency and Immediate DLRP Events to be extended past 12:00 AM or called between 12:00 AM and 6:00 AM. *See*, Case 09-E-0115, *Proceeding on Motion of the Commission to Consider Demand Response Initiatives*, Order Directing Dynamic Load Management Program Changes (issued March 16, 2022), p. 3.

Table 9: DLRP Payment Structure

Enrollment Option	Enrollment Location	Reservation Payment[28]	Event Type	Performance Payment
Reservation Payment Option	Tier 1 Networks	$18 / kW / month	Contingency	$1 / kWh reduced during DR events
			Immediate	$1 / kWh reduced during DR events
	Tier 2 Networks	$25 / kW / month	Contingency	$1 / kWh reduced during DR events
			Immediate	$1 / kWh reduced during DR events
Voluntary Option	All	N/A	Contingency	$3 / kWh reduced during DR events
			Immediate	$3 / kWh reduced during DR events

All but ten of the Company's networks are Tier 1. Tier 2 networks are those identified as higher priority and in need of additional demand reduction resources.[29] During a Capability Period that includes five or more Contingency and Immediate Events, the reservation payment increases by $5 per kW per month, beginning with the first month in which there were five or more program-year cumulative events in the network.

Performance Payments for Reservation Payment Option customers are $1 per kWh in both Tier 1 and Tier 2 networks. Reservation Payment Option participants can receive both Reservation Payments and Performance Payments. Voluntary participants only receive Performance Payments.

As is the case with the CSRP program, customer load reductions are measured using a CBL methodology. Customers choose between an Average Day or Weather Adjusted CBL.

Events and Test Summary

During the 2023 Capability Period, the Company called 13 DLRP events, compared to

[28] During a Capability Period that includes five or more Contingency or Immediate Events, the reservation payment increases by $5 per kW per month, beginning with the first month in which there were five or more program-year cumulative Contingency or Immediate Events in the network.

[29] On April 20, 2018, the Commission ordered the Company to modify the definition of Tier 2 networks from a 5-year rolling average to a 3-year rolling average to better reflect the current state of the distribution electric system. Case 17-E-0741, *Petition of Consolidated Edison Company of New York, Inc. for Approval of Changes to Commercial Demand Response Programs with Associated Tariff Amendments*, Order Approving Changes to Commercial Demand Response Programs with Modifications (issued April 20, 2018), p. 11.

14 DLRP events called in 2022. In addition, Reservation Payment Option customers were required to participate in a two-hour test event, which occurred in the month of July. In total, 488 MW were enrolled in DLRP in 2023.[30]

The DLRP test was conducted on July 14, 2023 from 4:00 PM to 6:00 PM and included all Reservation Payment Option customers participating in DLRP at that time. The performance factor observed during the test event was approximately 72 percent, which is lower than the performance factor of 86 percent achieved in 2022.

Testing the entire DLRP portfolio provides the best possible insight into how customers would perform over a large sample, but the individual events can shed light on characteristics of program performance under specific conditions. The test event duration is two hours only, while performance during real events is measured in four to six-hour time periods. The test event performance data is summarized in Table 10.

Table 10: DLRP Test Summary by Tier

Networks	Date	Hours	Customers Enrolled	MW Enrolled[31]	MW Reduction Achieved	Performance Factor Achieved
Tier 1 Test	7/14/2023	4:00 PM – 6:00 PM	23,253	393.27	298.81	76%
Tier 2 Test	7/14/2023	4:00 PM – 6:00 PM	5,764	91.04	50.10	56%
Test Overall	**7/14/2023**	4:00 PM – 6:00 PM	**29,017**	**484.31**	**348.91**	**72%**

In addition to the test event, there were 13 DLRP events called across multiple networks throughout the region in July, August, and September. The events were called to support network contingencies. Detailed DLRP event data compiled by the Company is included in Appendix C: DLRP Event Performance Data.

DLRP event performance has high variance, in part because the program structure involves more variables; there are no fixed call windows for customers in different networks, there is less advanced notice time, and the number of customers called varies based on networks called. Due to these factors, performance in events ranged from -1.8 MW reduced to 3.09 MW

[30] With rounding, 445 MW were enrolled through the Reservation Payment Option. An additional 41 MW were enrolled through the Voluntary Option pledged by 6,905 customers.
[31] Numbers may not sum due to rounding.

reduced, and performance factor ranged from -9 percent to 77 percent. Performance during events can be swayed by the particular subset of participants and their relative MW pledged in the event. Networks with a large portion of their total pledged reduction enrolled by a few customers can have their overall performance significantly influenced by the performance of a single customer.

Network Impacts

The Company assessed potential impacts of DLRP at the network level by analyzing the enrollment in the Reservation Payment Option in each network. Table 11 summarizes performance data for Tier 1 networks, Tier 2 networks, and system-wide. Appendix D: DLRP Enrolled and Achieved Network Impacts details program performance and network impacts as a percentage of network peaks for enrolled and achieved reductions. The average achieved load reduction as a percentage of network peaks decreased in 2023 to approximately 2.78 percent, compared to 2.9 percent achieved in 2022. Greater enrollment is required to continue to increase the network impact of achieved load reductions.

Table 11: Summary of DLRP Reservation Payment Option Enrolled and Achieved Impact[32]

Network Tier	Enrolled MW	Operationally Available MW[33]	Peak Demand (MW)	DLRP Impact
Tier 1 Networks	376	297	10,246	2.90%
Tier 2 Networks	69	50	2,223	2.25%
All Networks / Load Areas	445	347	12,469	2.78%

Costs

Total costs for DLRP recovered via the DLM Surcharge during the 2023 program year were approximately $28,914,700 a 20 percent increase from the 2022 program cost of

[32] Values in the table may not sum due to rounding.
[33] Adjustment based on Performance Factors from 2023 test event.

$24,165,000. A majority of the program costs in 2023 came from Reservation and Performance payments to program participants. Table 12 summarizes the costs, by component, associated with DLRP in 2023.

Table 12: DLRP Cost Components for 2023 Program Year[34]

Component	Cost	Percentage
Reservation and Performance Payments to Program Participants	$28,749,500	99%
Program Administration[35]	$0	0%
M&V	$0	0%
Marketing	$10,300	<1%
Technology	$154,900	<1%
Total Program Costs	**$28,914,700**	100%

Assessment of Program Growth

In 2023, DLRP experienced an increase in the number of customers participating and in the total MW enrolled compared with 2022. The number of customers participating increased by 110% from 2022 to 2023. Similar to CSRP, DLRP program growth benefitted from the deployment of AMI throughout the Company's service territory, which enabled more customers to be eligible to participate in the program. The Company subsequently enacted new marketing and outreach initiatives in 2023, such as working with participating aggregators to align program messaging across DR programs and co-brand marketing materials. Con Edison education materials and participation in industry events, similar to CSRP, played an integral in increasing enrollments among previously ineligible customers into the DLRP program. Operationally available MW decreased by 0.67 percent in 2023. Table 13 summarizes the resources enrolled in DLRP in 2023 compared to the resources in 2022 by tier and system-wide. MW enrollment increased in Tier 1 and decreased in Tier 2 for Reservation Payment Option customers. Network tiers are evaluated and adjusted annually based on updated network reliability indexes.

[34] Fourth quarter (October, November, and December) costs are estimated.
[35] Costs for the Con Edison staff salary and overhead associated with DLRP management and support are embedded in base rates, and not directly collected as part of the DLRP program costs. They are not included in the program costs presented. However, these costs are included in the SCT analysis for this program.

Table 13: DLRP Reservation Payment Option Enrollment by Tier and System-Wide

Network Tier	2022 MW Enrolled	2022 Operationally Available MW	2023 MW Enrolled	2023 Oper. Avail. MW	2023 vs. 2022 Change in MW Enrolled	2023 vs. 2022 Change in Oper. Avail. MW
Tier 1 Networks	331	287	376	297	13.66%	3.53%
Tier 2 Networks	76	62	69	50	-8.92%	-20.13%
All Networks / Load Areas	407	349	445	347	9.71%	-0.67%

The Company now enables aggregators to improve the accuracy of their pledged enrollments in the Company's DR programs, including DLRP, through efforts such as the Green Button initiative.[36] Green Button Connect My Data allows utility customers who opt in to securely automate the transfer of their energy usage data to authorized third parties. AMI metering enables authorized aggregators to collect the usage data of participating DR customers at more frequent intervals. With more granular customer data, aggregators are able to improve the accuracy of their pledged enrollments which, in turn, improves the reliability of the Company's DR programs, particularly for contingency programs such as DLRP.

5. Distinctive Participant Groups in CSRP/DLRP

The Company tracks customer enrollment in CSRP and DLRP from several distinctive customer groups, including SC-11 customers and NYPA accounts.

Service Class No. 11 (SC-11) Customers – Export Demand Response

As required by the Commission's March 15, 2012 order, [37] DR export capacity was accepted as load relief during peak shaving and contingency events beginning in 2012. During the 2023 Capability Period, four SC-11 customers participated in both CSRP and DLRP. Combined, they pledged a total of 25.7 MW in CSRP and 25.35 MW in DLRP. Performance by these customers during the 2023 Capability Period was 93 percent for the DLRP test and 93

[36] *See,* https://www.energy.gov/data/green-button.
[37] Case 09-E-0115, *Proceeding on Motion of the Commission to Consider Demand Response Initiatives*, Order opting with Modifications Tariff Amendments Related to Demand Response Programs (issued March 15, 2012).

percent for CSRP.

NYPA

NYPA accounts are enrolled in the Company's DR programs through several different aggregators. The following summary in Table 14 includes all NYPA accounts enrolled in DR. No NYPA Customers enrolled in the Term- or Auto-DLM Programs.

Table 14: Enrollments and Performance for NYPA Accounts

Event Type	# of Accounts Enrolled	MW Enrolled	MW Reduction Achieved	Performance Factor Achieved
DLRP Test 7/14/2023	614	67.48	68.72	102%
CSRP Planned Event Performance	628	72.49	75.65	104%

6. Term and Auto Dynamic Load Management Programs (Term-DLM and Auto-DLM)

RFP and Enrollment Process

2023 was the third year of the Term- and Auto-DLM programs. To participate in Term- and Auto-DLM, aggregators are required to make bids for aggregations, collections of enrolled customers in a single network, that combine to provide at least 50 kW of load relief across a set of Term- or Auto-DLM contracts starting in a particular year, known as a "Vintage Year." For each aggregation, the aggregator specifies a $ per kW incentive rate they are seeking, the amount of load relief they are seeking to provide in kW for each aggregation, three-to-five-year contract durations, and which program the aggregation seeks to enroll in. In March 2023, contracts were awarded with participation beginning in the 2024 Capability Period based on the relationship between the benefits and costs of each aggregation. Contracts will continue to be awarded more than a year in advance of the initial capability period. Table 15 below shows the MW of pledged load relief awarded to and accepted by aggregators for the 2024 Vintage Year.

Table 15: Term- and Auto-DLM 2024 Vintage Year Procurement Results

Vintage Year	Program	Aggregations Bid	Aggregators Bidding	MW of Bids	Aggregators with Accepted Contracts	Aggregations Part of Accepted Contracts	MW of Accepted Bids
2024	Term-DLM	25	6	14.6	4	4	5.6
	Auto-DLM	21	4	95.8	1	1	8.5

Term-DLM Description

Term-DLM is a peak-shaving program open to customers throughout the Company's service territory who can curtail load or use on-site generation to reduce their demand (or increase export for qualifying facilities) by a minimum of 50 kW individually, or through aggregators,[38] with a minimum of 21 hours of notice before a Term-DLM Event. A Term-DLM Event refers to the Company's option to request load relief when the day-ahead and then same-day forecasted load is at least 88 percent of the Company's forecasted summer system peak. If the forecasted load is revised below 88 percent of the Company's forecasted summer peak, the Term-DLM event can be cancelled up to two hours before the start of the event to avoid unnecessarily activating the program. The Company is required to request load relief when forecasted load is at least 92 percent of the Company's forecasted summer system peak 21 hours in advance and that request can be cancelled if desired up to two hours before an event begins if the forecasted load falls below 92 percent of the Company's forecasted summer system peak.

Participants must respond to a Term-DLM Event for a four-hour period, with the time of the four-hour event period dependent on the participant's location. Four four-hour time blocks aligned to network peak hours are 11 AM to 3 PM, 2 PM to 6 PM, 4 PM to 8 PM, and 7 PM to 11 PM.

As is the case with the CSRP and DLRP programs, customer load reductions are measured using a CBL methodology. Customers choose between an Average Day or Weather Adjusted CBL.

Term-DLM has environmental and performance requirements and excludes onsite diesel generators from participating. Fossil fuel generation participation in the program is restricted

[38] Curtailment service providers who aggregate a minimum of 50 kW.

based on emissions and model year vintage.

Performance Payments for Term-DLM customers are $1 per kWh.

Auto-DLM Description

Auto-DLM is a network contingency program applicable to individual customers and aggregators who contract to reduce 50 kW or more during an event. Auto-DLM may be called by the Company to reduce strain on local distribution networks (defined to include load areas) when contingencies or certain emergency conditions occur. When Term-DLM events are called, Auto-DLM customers are required to participate unless they are called for a separate Auto-DLM event during that day.

Customer load reductions are measured using the same CBL methodology for Auto-DLM as for Term-DLM. Customers can choose between an Average Day or Weather Adjusted CBL.

Auto-DLM has environmental and performance requirements and excludes onsite diesel generators from participating. Fossil fuel generation participation in the program is restricted based on emissions and model year vintage.

As is the case with Term-DLM, incentive rates for Auto-DLM are determined by the rates submitted by RFP participants whose bids are accepted. All but ten of the Company's networks are Tier 1. Tier 2 networks are those identified as higher priority and in need of additional demand reduction resources. Performance Payments for Auto-DLM customers are $1 per kWh.

Enrollments

533 customers enrolled in Term-DLM in 2023 compared to 315 customers enrolled in 2022, an increase of 69 percent, and pledged 25.17 MW for the program in 2023 compared to 25.6 MW in 2022. Seven customers enrolled in Auto-DLM in 2023 compared to two customers enrolled in 2022, with a 7 MW program pledge in 2023 compared to 3.9 MW in 2022.

Events and Test Summary

Con Edison called 12 Term-DLM events during the 2023 Capability Period. These

events provided load relief system wide across the four Term-DLM Call Windows. Performance factors ranged from 66 percent to 90 percent. These events included Auto-DLM Customers as well. Table 16 summarizes Term-DLM enrollments and performance for each event during the 2023 Capability Period

Table 16: Term-DLM Summary by Day

Test or Event	Date	Customers Enrolled	Performance Factor Achieved
Event	7/27/2023	519	79%
Event	7/28/2023	519	90%
Event	9/6/2023	518	77%
Event	9/7/2023	518	66%

Assessment of Growth

As described above, the 2024 DLM RFP[39] created additional contracts for both Term- and Auto-DLM that will be effective during the 2024 Capability Period. Table 17 summarizes the annual change in Term- and Auto-DLM MW enrollment growth between 2022 and 2023.

Table 17: 2023 Term- & Auto- DLM Growth

Program	2022 MW Enrolled	2023 MW Enrolled	2023 vs. 2022 Change in MW Enrolled
Term DLM	25.6	25.2	-2%
Auto DLM	3.9	7	79%

[39] Case No. 18-E-0130, *In the Matter of Energy Storage Deployment Program*, Consolidated Edison Company of New York, Inc. Request for Proposals – Dynamic Load Management Solutions to Provide Demand Side Management for Subtransmission and Distribution System Load Relief – 2024 Vintage Year (filed November 14, 2022).

7. Cost Effectiveness Summary of CSRP, DLRP, Term-DLM and Auto-DLM

The Company's cost effectiveness analysis, which is based on the Company's application of the Societal Cost Test ("SCT")[40] for CSRP and DLRP, yields a cost effective outcome over a one-year period.[41] The same SCT for Term-DLM and Auto-DLM also yields a cost effective outcome.

The assumptions in the SCT analysis are:

- Program costs are updated with costs incurred in 2023 through the end of October and estimated for November and December; [42] and
- The benefits for the SCT calculation are quantified using the Company's BCA Handbook.[43]

[40] Freeman, Sullivan & Co., *Cost-effectiveness of CECONY Demand Response Programs*; *Prepared for Consolidated Edison Company of New York* (November 2013).
[41] The Technology costs for CSRP/DLRP include capital costs.
[42] Program costs include costs associated with both CSRP and DLRP.
[43] Case 16-M-0411, *In the Matter of Distributed System Implementation Plans*, Con Edison Electric Benefit-Cost Analysis Handbook v4.0 (filed June 30, 2023).

8. Direct Load Control Program (DLC)

The DLC program, under Rider L, is the direct-to-customer residential and small commercial component of the Company's DR offerings. The DLC program uses Wi-Fi enabled thermostats and learning thermostats to control participants' air conditioning units and reduce energy demand at times of critical system need.

The offerings under DLC are the BYOT program and the discontinued Company Provided Thermostat ("CPT") program.[44] Since 2014, the Company has offered a BYOT program allowing customers to enroll a thermostat through certain service providers or thermostat manufacturers. While new enrollments are no longer offered in the CPT program, those thermostats are still called during DR events along with those thermostats enrolled in BYOT.

Bring Your Own Thermostat

The BYOT program provides an opportunity for customers to enroll a thermostat through certain service providers or thermostat manufacturers and receive a one-time sign-up incentive of $85 per thermostat.[45] By enrolling their device in the BYOT program, customers enable their thermostat to operate as a curtailable resource. Customers can access the program details at Con Edison's smart thermostat website.[46]

The BYOT program allows the Company to coordinate DR with its other energy efficiency offerings. For example, the Con Edison Marketplace ("Marketplace") sells BYOT-eligible thermostats with an instant energy efficiency rebate of $50.

Events and Test Summary

In the 2023 program year as of mid-October, the BYOT program enrolled approximately 5,000 new thermostats, up from 3,200 new customers in 2022 achieving, in total, approximately

[44] New enrollment under the CPT program has been discontinued as of December 1, 2017.
[45] The Company also offers a $25 payment for participation in DR events after the Company can verify that the device has been enrolled for three consecutive Capability Periods and has participated in at least 50 percent of event hours during the third summer.
[46] Con Edison smart thermostat website link: http://www.coned.com/smartthermostat.

28,100 total customers with over 43,500 thermostats.[47] This population includes both customers who enrolled through BYOT and CPT.[48] During the 2023 Capability Period, 22 BYOT events were called, 12 of which were system wide. In 2022, there were 26 BYOT events called, with 24 system-wide events. In 2023, the Company experienced an energy use reduction of 0.82 kW on average per device during system-wide events. This average kW reduction is up from 0.54 kW per thermostat during system-wide events from 2022. This increase can be explained by a more refined strategy for calling these events after years of testing and by BYOT participants being called for just two system-wide events in 2023, compared to six system-wide events in 2022, reducing the effects of customer fatigue.[49] If the total enrolled population of thermostats participated in an event, the program has the potential to achieve approximately 34.4 MW of load reduction.

The program service provider, Resideo, manages Honeywell Home, Google Nest, Sensi, and Amazon thermostats. The demand reduction strategies used by these partners are described in Table 18. The CPT and BYOT event performance data for Honeywell Home thermostats have been combined under Resideo in the tables below. A summary of the peak-shaving events and their results is provided in Table 19. Event performance was consistent across the two system-wide events despite variations in network specific events due to intensified variables such as number of customers called, baseline differences within the networks, and customer opt-outs. The event producing the most load reduction, 28.2 MW on September 7th, utilized a 50 percent cycling strategy that activates a customer's central air unit for, at most, 50 percent of the event time along with a precooling cycling for one hour before the event time for all applicable

[47] The BYOT program experiences attrition throughout the year. CPT customers may choose to have their thermostat replaced with a lower cost thermostat or one provided by Con Edison at no cost. The attrition rate for BYOT customers seems to be variable due to the technical nature of Wi-Fi thermostats. Customers who lack technical expertise in configuring their networks may have difficulty maintaining connectivity with the Wi-Fi thermostats. A thermostat labeled "offline" may come back "online" when a Wi-Fi connection is re-established within its network.

[48] There are approximately 12,400 CPT customers, using 16,300 thermostats. Assuming all of the CPT thermostats participate in a system-wide event at an average of 0.79 kW of load reduction per device, the CPT population can provide 12.9 MW of peak load reduction.

[49] System-wide events in 2023 were called on July 28, 2023, and September 7, 2023. System-wide events in 2022 were called on July 20, 2022, July 21, 2022, August 4, 2022, August 5, 2022, August 8, 2022, and August 9, 2022.

networks.[50] A more detailed table of BYOT tests and events, including contingency and immediate events, can be found in Appendix E.

Table 18: Demand Reduction Strategies by Thermostat Manufacturer

Vendor	Demand Reduction Strategy
Google Nest	Resideo manages Nest devices enrolled in the program. Resideo sends a signal instructing the thermostat to run a 3 and 4 degree setback. A 3 and 4 degree setback was run with both precooling and without precooling.
Honeywell Home	Resideo manages the fleet of CPT thermostats enrolled in the BYOT program, as well as new Honeywell Home BYOT enrollments. Resideo sends a signal instructing the thermostat to disable the cooling setpoint every 15 minutes out of each half hour for the desired length of the event. For the opposite 15 minutes, the thermostat operates normally, engaging the cooling system if the temperature is higher than the cooling setpoint. This is considered a 50 percent cycling event as the cooling system is limited to at most 50 percent of the hour. This was run both with and without pre-cooling.
Emerson Sensi	Resideo manages the Emerson Sensi Thermostats enrolled in the BYOT program. Resideo sends a signal for 50 percent cycling event as the cooling system is limited to at most 50 percent of the hour.
Amazon	Resideo manages the Emerson Sensi Thermostats enrolled in the BYOT program. Resideo sends a signal for 50 percent cycling event as the cooling system is limited to at most 50 percent of the hour.

Table 19: Summary of BYOT Tests & Events

Date	Type of Event	Network	Number of Participating Thermostats[51]	Average kW Reduction per Device	Average MW Reduction per Event[52]
7/5/2023	Event	Fox Hills	1,394	0.57	0.8
7/6/2023	Event	Jamacia	588	0.69	0.4
7/6/2023	Event	Fox Hills	1,412	0.64	0.9

[50] There are 15 networks where precooling was not used during system wide events due to the elongated network peak. These networks are Greeley Square, Grand Central, Beekman, Herald Square, Bowling Green, Rockefeller Center, Turtle Bay, Pennsylvania, Freedom, Times Square, Fulton, Battery Park City, Park Slope, Fresh Kills, and Randall's Island.
[51] Number of thermostats that started the event and either completed the event or opted out during the event.
[52] Average calculated for overlapping hours of the resources called by different vendors.

7/11/2023	Event	Central Bronx	87	0.48	0.04
7/28/2023	Event	All	33,093	0.81	26.9
7/29/2023	Event	Jackson Heights	65	0.76	0.05
8/21/2023	Event	Borden & Sunnyside	274	0.44	0.1
9/5/2023	Event	Fresh Kills	1,780	0.59	1.0
9/6/2023	Event	Fresh Kills	1,775	0.58	1.0
9/7/2023	Event	All	33,676	0.84	28.2
9/8/2023	Event	Fresh Kills	1788	0.89	1.6
9/27/2023	Event	Fox Hills	1434	0.09	0.1

Costs

Table 20 shows BYOT program cost breakdown for 2023. The majority of costs came from Program Administration, followed by customer incentives. Costs increased from $767,000 in 2022 to $925,000 in 2023 because of increased implementation costs as a result of increased thermostat enrollment.[53]

Table 20: 2023 BYOT Program Costs[54]

Component[55]	Cost	Percentage
Customer Incentives[56]	$871,000	48%
Program Administration[57]	$925,000	50%
Marketing	$33,500	2%
Total Costs	**$1,829,500**	**100%**

[53] A new contract with the Company's implementation contractor that tiers prices by number of enrolled thermostats also contributed to increased implementation costs.
[54] Fourth quarter (October, November, and December) costs were estimated.
[55] CPT implementation and equipment costs are included.
[56] Includes preliminary calculations of the BYOT long-term participation incentive. The incentive is estimated to be paid to 19,225, totaling $480,625.
[57] Costs for the Con Edison staff salary and overhead associated with BYOT management and support are embedded in base rates, and not directly collected as part of the BYOT program costs. They are not included in the program costs presented. However, these costs are included in the SCT analysis for this program.

Cost Effectiveness Summary

The 2023 BYOT program was cost effective based upon the Company's application of the Societal Cost Test (SCT), which yielded a result of 3.95 and $7.8 million in net benefits.[58] In order to perform the SCT analysis, the following assumptions were made:

- The cost inputs of the program include the customer incentives, administration fees, marketing costs, and equipment costs associated with the thermostats enrolled in the program in 2023.
- The benefit inputs of the program include the MW and MWh reductions achieved by devices during peak-shaving events, de-rated based on network locations and call windows in 2023.
- The benefits for the SCT calculation are quantified using the Company's BCA Handbook. [59]
- Costs and benefits associated with the CPT program are included in the BCA.

Assessment of Program Growth

The BYOT program enrollments are projected to reach over 44,800 enrolled thermostats in 2023 compared to 38,500 in 2022.[60] The Company also added another thermostat vendor, Amazon, to participate in the BYOT program. The Company expects BYOT enrollment to continue through the end of 2023 as a result of ongoing marketing campaigns conducted by Con Edison and by thermostat vendors participating in the program.

In 2022, the Company recognized that demand reduction per thermostat varied based on the manufacturer and the service provider's demand reduction strategy. The Company then committed to monitoring and studying demand reduction strategies used by the service provider with the aim to implement a standardized baseline. After analyzing 2022 performance data, Con Edison implemented a standardized BYOT demand reduction strategy in 2023. The Company

[58] The BCA does not include the Electric Avoided Generation Capacity Cost Benefit encompasing system level benefits.
[59] Case 16-M-0411, *In the Matter of Distributed System Implementation Plans*, Third Distributed System Implementation Plan and Benefit-Cost Analysis Handbook of Consolidated Edison Company of New York, Inc. (filed July 31, 2020).
[60] This includes CPTs enrolled.

now implements a demand reduction strategy that runs a setback of three degrees with 50% cycling with a one-hour, 2-degree pre-cooling strategy. As an example, if a participating customer's thermostat is normally set at 72 degrees Fahrenheit, the demand reduction strategy would cool the customer's home at 70 degrees for one hour before a cycling event, then set the customer's thermostat at 75 degrees during the cycling event and run their central air unit for 50% of the event time to maintain that 75 degree temperature. This effort has directly contributed to improving reduction per thermostat by 49 percent.

In anticipation of 2024, the Company is exploring ways to expand and coordinate its BYOT marketing campaigns alongside other Con Edison energy efficiency programs.

2024 Operating Plan

The BYOT 2024 Operating Plan[61] includes: (1) the expected annual expenditure budget; (2) the anticipated number of control devices by program component to be installed during the year; and (3) the total number of megawatts the Company expects to have available in the program by the end of the year. Tables 21 and 22 showcase the total costs and the total operational enrollment of the DLC – BYOT program, respectively, for 2023.

Table 21: 2023 Expenditure Budget

Component	Cost
DLC – BYOT	$ 1,829,500
Con Edison Ancillary Expenditures[62]	$ 130,000
Total Program Costs	**$ 1,959,500**

Table 22: Operational Enrollment

	Thermostats	MW
Enrolled as of December 31, 2022	38,500	23.6
Projected Enrolled as of December 31, 2023	44,800	27.5

[61] The Commission's January 25, 2016 Order Adopting Modifications to the Direct Load Control Program and Instituting the Connected Devices Pilot Program ("DLC Order") instructs the Company to include the Annual Operating Plan ("Operating Plan") for the BYOT program in the DR Annual Report each year.
[62] These are estimated cost referring to cost outside of normal invoices.

Appendix A: CSRP Event Performance Data

2023 Summary of CSRP Events

Event Type	Date	Hours	Network or Zone	Customers Enrolled	MW Enrolled	MW Reduction Achieved	Performance Factor Achieved
Planned	7/28/2023	11 AM – 3 PM	All	2,901	140	151	108%
Planned	7/28/2023	2 PM – 6 PM		13,762	162	123	76%
Planned	7/28/2023	4 PM – 8 PM		10,809	128	86	67%
Planned	7/28/2023	7 PM – 11 PM		4	2	3	126%

Appendix B: CSRP Enrolled and Achieved Network Impacts

2023 CSRP Network Impacts – Reservation Payment Option Participants

Network	Call Window	Enrolled CSRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	Reduced % of Network Peak (MW)
Battery Park City	2PM-6PM	9.18	9.73	106%	55.15	18%
Bay Ridge	2PM-6PM	10.05	7.53	75%	245.18	3%
Beekman	11AM-3PM	14.56	15.66	108%	95.79	16%
Borden	2PM-6PM	7.94	6.72	85%	134.12	5%
Borough Hall	2PM-6PM	27.99	23.34	83%	321.67	7%
Bowling Green	11AM-3PM	26.24	26.23	100%	80.81	32%
Brighton Beach	2PM-6PM	8.39	4.76	57%	107.58	4%
Buchanan	4PM-8PM	12.87	12.14	94%	115.95	10%
Canal	2PM-6PM	6.34	7.72	122%	93.06	8%
Cedar Street	2PM-6PM	4.19	3.28	78%	101.95	3%
Central Bronx	2PM-6PM	8.25	4.75	58%	184.63	3%
Central Park	2PM-6PM	5.12	3.31	65%	200.65	2%
Chelsea	2PM-6PM	11.81	8.67	73%	200.75	4%
City Hall	11AM-3PM	25.37	20.03	79%	137.83	15%
Columbus Circle	4PM-8PM	9.41	7.96	85%	110.16	7%
Cooper Square	2PM-6PM	5.95	3.29	55%	227.90	1%
Cortlandt	11AM-3PM	6.28	5.83	93%	48.72	12%
Crown Heights	4PM-8PM	4.89	3.21	66%	215.60	1%
Elmsford No. 2	2PM-6PM	15.11	7.39	49%	157.73	5%
Empire	2PM-6PM	5.01	4.36	87%	45.28	10%
Fashion	11AM-3PM	2.91	4.34	149%	61.38	7%
Flatbush	4PM-8PM	18.17	17.02	94%	279.05	6%
Flushing	2PM-6PM	23.91	23.21	97%	362.96	6%
Fordham	4PM-8PM	11.16	6.75	61%	261.87	3%
Fox Hills	4PM-8PM	7.13	6.12	86%	201.59	3%
Freedom	11AM-3PM	7.50	7.56	101%	39.11	19%
Fresh Kills	4PM-8PM	39.23	6.75	17%	173.36	4%
Fulton	11AM-3PM	11.30	10.16	90%	79.45	13%
Grand Central	11AM-3PM	27.69	29.31	106%	156.49	19%
Granite Hill	4PM-8PM	15.18	4.03	27%	213.86	2%

Network	Call Window	Enrolled CSRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	Reduced % of Network Peak (MW)
Grasslands	2PM-6PM	12.75	10.26	80%	101.93	10%
Greeley Square	11AM-3PM	10.90	9.68	89%	46.41	21%
Greenwich	2PM-6PM	0.69	0.27	40%	46.51	1%
Harlem	2PM-6PM	14.89	14.32	96%	205.28	7%
Harrison	2PM-6PM	6.99	6.35	91%	201.86	3%
Herald Square	11AM-3PM	12.99	13.54	104%	86.08	16%
Hudson	2PM-6PM	8.83	8.41	95%	60.49	14%
Hunter	2PM-6PM	7.16	5.99	84%	58.50	10%
Jackson Heights	4PM-8PM	3.01	1.84	61%	191.90	1%
Jamaica	4PM-8PM	15.59	10.78	69%	464.44	2%
Kips Bay	2PM-6PM	32.20	26.79	83%	93.65	29%
Lenox Hill	11AM-3PM	30.96	37.98	123%	221.05	17%
Lincoln Square	11AM-3PM	16.03	11.93	74%	148.26	8%
Long Island City	2PM-6PM	7.61	6.30	83%	230.02	3%
Madison Square	2PM-6PM	15.87	11.48	72%	216.95	5%
Maspeth	4PM-8PM	12.87	8.57	67%	248.60	3%
Midtown West	11AM-3PM	6.62	6.11	92%	59.24	10%
Millwood West	11AM-3PM	0.80	0.72	90%	65.78	1%
Mohansic	4PM-8PM	0.09	0.01	15%	6.17	0%
Northeast Bronx	4PM-8PM	25.34	3.81	15%	104.04	4%
Ocean Parkway	2PM-6PM	5.59	3.10	55%	164.19	2%
Ossining West	4PM-8PM	4.06	2.81	69%	64.58	4%
Park Place	11AM-3PM	13.09	13.14	100%	75.29	17%
Park Slope	2PM-6PM	3.47	2.68	77%	224.06	1%
Pennsylvania	11AM-3PM	42.96	45.82	107%	177.21	26%
Plaza	11AM-3PM	15.50	14.08	91%	123.07	11%
Pleasantville	4PM-8PM	1.95	1.12	58%	76.23	1%
Prospect Park	4PM-8PM	0.59	0.25	42%	67.68	0%
Randalls Island	7PM-11PM	4.40	6.03	137%	15.52	39%
Rego Park	4PM-8PM	3.04	1.78	59%	218.34	1%
Richmond Hill	4PM-8PM	33.37	19.47	58%	338.03	6%
Ridgewood	4PM-8PM	2.98	1.13	38%	228.20	0%
Riverdale	4PM-8PM	5.96	3.70	62%	98.51	4%
Rockefeller Center	11AM-3PM	31.77	33.41	105%	60.83	55%

Network	Call Window	Enrolled CSRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	Reduced % of Network Peak (MW)
Rockview	4PM-8PM	1.05	0.65	62%	95.81	1%
Roosevelt	2PM-6PM	4.08	2.30	56%	76.79	3%
Sheepshead Bay	4PM-8PM	6.70	6.47	97%	160.29	4%
Sheridan Square	2PM-6PM	6.87	4.90	71%	148.86	3%
Southeast Bronx	4PM-8PM	42.67	37.32	87%	204.48	18%
Sunnyside	4PM-8PM	1.18	0.78	66%	78.91	1%
Sutton	11AM-3PM	16.12	15.78	98%	125.35	13%
Times Square	11AM-3PM	18.42	22.72	123%	119.34	19%
Triboro	2PM-6PM	5.13	3.69	72%	148.98	2%
Turtle Bay	11AM-3PM	14.80	14.94	101%	88.70	17%
Wainwright	4PM-8PM	0.90	0.61	68%	87.56	1%
Washington Heights	2PM-6PM	11.55	6.94	60%	184.93	4%
Washington Street	4PM-8PM	4.64	3.32	72%	201.85	2%
West Bronx	4PM-8PM	11.15	8.54	77%	221.50	4%
White Plains	2PM-6PM	11.57	8.88	77%	217.27	4%
Williamsburg	2PM-6PM	14.72	7.03	48%	340.05	2%
Willowbrook	4PM-8PM	1.22	1.76	144%	78.01	2%
Woodrow	4PM-8PM	1.96	2.05	105%	103.49	2%
Yorkville	2PM-6PM	20.36	17.16	84%	287.82	6%

Appendix C: DLRP Event Performance Data

2023 Summary of DLRP Test & Events

Event Type	Date	Hours	Network or Zone	Customers Enrolled	MW Enrolled	MW Reduction Achieved	Performance Factor Achieved
Immediate	7/5/2023	6:30 PM - 11:30 PM	Fox Hills	401	3.82	0.91	24%
Contingency	7/6/2023	10 AM - 4 PM	Fox Hills	401	3.82	1.94	51%
Contingency	7/6/2023	4 PM - 12 AM	Jamaica	631	7.99	2.93	37%
Immediate	7/11/2023	4 PM - 10:30 PM	Central Bronx	496	11.42	2.30	20%
Test	7/14/2023	4 PM - 6 PM	All	29,017	484.31	348.91	72%
Immediate	7/28/2023	5 PM - 11 PM	Washington Street	569	3.74	1.39	37%
Immediate	7/28/2023	6 PM - 12 AM	Elmsford No. 2	875	4.23	1.50	35%
Immediate	7/29/2023	3:30 PM - 9:30 PM	Jackson Heights	289	1.22	0.53	44%
Contingency	8/21/2023	2 PM - 8 PM	Borden	508	4.00	3.09	77%
Contingency	8/21/2023	2 PM - 8 PM	Sunnyside	176	0.57	0.36	63%
Immediate	9/5/2023	4:30 PM - 11:30 PM	Fresh Kills	210	19.61	2.37	12%
Immediate	9/6/2023	6 PM - 12 AM	Fresh Kills	210	19.61	2.62	13%
Immediate	9/7/2023	4 PM - 10 PM	Rego Park	638	1.58	0.69	44%
Immediate	9/8/2023	3:30 PM - 9:30 PM	Fresh Kills	209	19.61	-1.80	-9%
Immediate	9/27/2023	12:30 PM - 6:30 PM	Fox Hills	412	3.82	2.39	63%

Appendix D: DLRP Enrolled and Achieved Network Impacts

2023 DLRP Network Impacts – Reservation Payment Option Participants

Network	Tier	Enrolled DLRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	% Reduced of Network Peak (MW)
Battery Park City	1	4.27	3.82	89%	55.15	7%
Bay Ridge	1	4.20	2.60	62%	245.18	1%
Beekman	1	6.90	5.76	84%	95.79	6%
Borden	1	7.80	5.70	73%	134.12	4%
Borough Hall	2	14.60	11.54	79%	321.67	4%
Bowling Green	1	13.15	11.05	84%	80.81	14%
Brighton Beach	1	2.41	0.64	26%	107.58	1%
Buchanan	1	6.32	5.89	93%	115.95	5%
Canal	1	3.16	3.84	122%	93.06	4%
Cedar Street	1	1.94	1.44	74%	101.95	1%
Central Bronx	2	8.32	3.68	44%	184.63	2%
Central Park	1	2.46	1.66	67%	200.65	1%
Chelsea	1	5.16	4.17	81%	200.75	2%
City Hall	1	8.83	8.76	99%	137.83	6%
Columbus Circle	1	4.77	4.00	84%	110.16	4%
Cooper Square	1	3.26	1.60	49%	227.90	1%
Cortlandt	1	3.15	2.61	83%	48.72	5%
Crown Heights	1	2.39	1.39	58%	215.60	1%
Elmsford No. 2	1	8.08	3.75	46%	157.73	2%
Empire	1	2.36	2.37	101%	45.28	5%
Fashion	1	1.49	2.03	136%	61.38	3%
Flatbush	1	9.23	8.42	91%	279.05	3%
Flushing	1	10.84	10.26	95%	362.96	3%
Fordham	2	5.50	3.35	61%	261.87	1%
Fox Hills	1	14.50	8.26	57%	201.59	4%
Freedom	1	3.75	4.52	120%	39.11	12%
Fresh Kills	1	78.15	5.45	7%	173.36	3%
Fulton	1	5.49	4.45	81%	79.45	6%
Grand Central	1	12.03	11.77	98%	156.49	8%

Network	Tier	Enrolled DLRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	% Reduced of Network Peak (MW)
Granite Hill	1	7.50	1.62	22%	213.86	1%
Grasslands	1	8.11	6.06	75%	101.93	6%
Greeley Square	1	5.27	4.22	80%	46.41	9%
Greenwich	1	0.35	0.16	47%	46.51	0%
Harlem	1	7.83	6.99	89%	205.28	3%
Harrison	1	3.37	2.76	82%	201.86	1%
Herald Square	1	6.17	5.52	89%	86.08	6%
Hudson	1	5.91	5.87	99%	60.49	10%
Hunter	1	3.15	2.40	76%	58.50	4%
Jackson Heights	2	2.26	1.66	73%	191.90	1%
Jamaica	1	15.42	8.45	55%	464.44	2%
Kips Bay	1	14.73	12.12	82%	93.65	13%
Lenox Hill	1	11.66	10.08	86%	221.05	5%
Lincoln Square	1	7.60	5.32	70%	148.26	4%
Long Island City	1	3.20	2.84	89%	230.02	1%
Madison Square	1	7.86	5.64	72%	216.95	3%
Maspeth	1	5.69	2.70	47%	248.60	1%
Midtown West	1	3.43	2.62	76%	59.24	4%
Millwood West	1	0.39	0.36	92%	65.78	1%
Mohansic	1	0.07	0.00	-5%	6.17	0%
Northeast Bronx	2	5.53	4.00	72%	104.04	4%
Ocean Parkway	2	2.70	1.61	59%	164.19	1%
Ossining West	1	2.00	0.91	45%	64.58	1%
Park Place	1	6.56	6.10	93%	75.29	8%
Park Slope	1	1.70	1.34	79%	224.06	1%
Pennsylvania	1	20.28	20.13	99%	177.21	11%
Plaza	1	7.69	5.53	72%	123.07	4%
Pleasantville	1	0.97	0.49	51%	76.23	1%
Prospect Park	1	0.27	0.13	48%	67.68	0%
Randalls Island	1	2.24	3.30	148%	15.52	21%
Rego Park	1	2.94	1.47	50%	218.34	1%
Richmond Hill	1	6.43	4.21	65%	338.03	1%
Ridgewood	2	1.51	0.70	46%	228.20	0%

Network	Tier	Enrolled DLRP Reservation (MW)	Reduction During Events (MW)	Network Performance Factor	2023 Forecasted Network Peak (MW)	% Reduced of Network Peak (MW)
Riverdale	1	3.45	2.02	59%	98.51	2%
Rockefeller Center	1	8.60	9.28	108%	60.83	15%
Rockview	1	0.35	0.14	41%	95.81	0%
Roosevelt	1	1.79	0.74	41%	76.79	1%
Sheepshead Bay	1	3.41	3.25	96%	160.29	2%
Sheridan Square	1	3.40	2.66	78%	148.86	2%
Southeast Bronx	2	21.11	17.99	85%	204.48	9%
Sunnyside	1	1.13	0.68	61%	78.91	1%
Sutton	1	7.85	6.04	77%	125.35	5%
Times Square	1	7.09	8.42	119%	119.34	7%
Triboro	1	2.48	1.74	70%	148.98	1%
Turtle Bay	1	5.54	5.64	102%	88.70	6%
Wainwright	1	0.44	0.16	37%	87.56	0%
Washington Heights	1	4.41	2.66	60%	184.93	1%
Washington Street	1	4.63	2.90	63%	201.85	1%
West Bronx	2	5.38	3.99	74%	221.50	2%
White Plains	1	4.36	2.67	61%	217.27	1%
Williamsburg	2	7.27	3.78	52%	340.05	1%
Willowbrook	1	0.54	0.96	177%	78.01	1%
Woodrow	1	0.93	1.39	149%	103.49	1%
Yorkville	1	10.42	8.27	79%	287.82	3%

Appendix E: DLC Event Performance Data

2023 Summary of BYOT Test & Events[63]

Date	Hours	Type of Event	Thermostat Type	Network	Participating Thermostats[64]	Average kW Reduction per Device	Average MW Reduction per Event
7/5/23	6:50 PM – 11:50 PM	Contingency	All	Fox Hills	1,394	0.57	0.8
7/6/23	4 PM – 8 PM	Contingency	All	Jamaica	588	0.69	0.4
7/6/23	10 AM – 4 PM	Contingency	All	Fox Hills	1,412	0.64	0.9
7/11/23	4:50 PM – 10:50 PM	Contingency	All	Central Bronx	87	0.48	0.0
7/28/23	2 PM – 6 PM	Planned	All	All	466	0.63	0.3
7/28/23	11 AM - 3 PM	Planned	All	All	167	0.55	0.1
7/28/23	11 AM – 3 PM	Planned	All	All	1,754	0.76	1.3
7/28/23	4 PM - 8 PM	Planned	All	All	12,252	0.81	10.0
7/28/23	2 PM – 2 PM	Planned	All	All	16,671	0.83	13.8
7/28/23	4 PM – 8 PM	Planned	All	All	1,783	0.77	1.4
7/29/23	3:45 PM – 9:45 PM	Contingency	All	Jackson Heights	65	0.76	0.0
8/21/23	2 PM – 8 PM	Contingency	All	Borden & Sunnyside	274	0.44	0.1
9/5/23	4:45 PM – 8:45 PM	Contingency	All	Fresh Kills	1,780	0.59	1.0
9/6/23	6:30 PM – 10:30 PM	Contingency	All	Fresh Kills	1,775	0.58	1.0
9/7/23	11 AM - 3 PM	Planned	All	All	1,748	0.71	1.2
9/7/23	11 AM – 3 PM	Planned	All	All	167	0.72	0.1
9/7/23	2 PM – 6 PM	Planned	All	All	469	0.58	0.3

[63] Events with the same date and time indicate periods when the Company was testing various thermostat cycling strategies. Overlapping events indicate that certain networks were called during each time period according to their CSRP call window – and all networks were called during that day.
[64] Number of thermostats that started the event and either completed the event or opted out during the event.

Date	Hours	Type of Event	Thermostat Type	Network	Participating Thermostats	Average kW Reduction per Device	Average MW Reduction per Event
9/7/23	4 PM – 8 PM	Planned	All	All	1,784	0.58	1.0
9/7/23	4 PM – 8 PM	Planned	All	All	15,145	0.88	13.3
9/7/23	2 PM – 6 PM	Planned	All	All	14,363	0.85	12.2
9/8/23	3:45 PM – 7:45 PM	Contingency	All	Fresh Kills	1,788	0.89	1.6
9/27/23	12:35 AM – 6:45 PM	Contingency	All	Fox Hills	1,434	0.09	0.1

Appendix F: 2023 Con Edison Demand Response Event Review

2023 Demand Response Program Activity

Event Date	Administrator	Program	Start Time	End Time	Event Hours	Zone/ Network	Event Type
2/22/2023	NYISO	SCR	16:00	17:00	1:00	Zone D, E, F, G, H I	Test
3/1/2023	NYISO	SCR	16:00	17:00	1:00	Zone D	Test
4/20/2023	NYISO	SCR	16:00	17:00	1:00	Zone A, H, I, J	Test
7/5/2023	Con Edison	DLRP	18:30	23:30	5:00	Fox Hills	Immediate
7/5/2023	Con Edison	BYOT	18:50	23:50	5:00	Fox Hills	Contingency
7/6/2023	Con Edison	DLRP	10:00	16:00	6:00	Fox Hills	Contingency
7/6/2023	Con Edison	BYOT	10:00	16:00	6:00	Fox Hills	Contingency
7/6/2023	Con Edison	DLRP	16:00	23:59	8:00	Jamaica	Contingency
7/6/2023	Con Edison	BYOT	16:00	20:00	4:00	Jamaica	Contingency
7/11/2023	Con Edison	DLRP	16:30	22:30	6:00	Central Bronx	Immediate
7/11/2023	Con Edison	BYOT	16:50	22:50	6:00	Central Bronx	Contingency
7/14/2022	Con Edison	DLRP	16:00	18:00	2:00	All	Test
7/27/2023	Con Edison	Term DLM	11:00	15:00	4:00	All	Event
7/27/2023	Con Edison	Term DLM	14:00	18:00	4:00	All	Event
7/27/2023	Con Edison	Auto-DLM	14:00	18:00	4:00	All	Event
7/27/2023	Con Edison	Term DLM	16:00	20:00	4:00	All	Event
7/27/2023	Con Edison	Auto-DLM	16:00	20:00	4:00	All	Event
7/28/2023	Con Edison	CSRP	10:00	15:00	6:00	All	Event
7/28/2023	Con Edison	CSRP	11:00	15:00	4:00	All	Event
7/28/2023	Con Edison	Term DLM	11:00	15:00	4:00	All	Event
7/28/2023	Con Edison	CSRP	13:00	19:00	6:00	All	Event
7/28/2023	Con Edison	CSRP	14:00	18:00	6:00	All	Event
7/28/2023	Con Edison	Term DLM	14:00	18:00	4:00	All	Event
7/28/2023	Con Edison	Auto-DLM	14:00	18:00	4:00	All	Event
7/28/2023	Con Edison	CSRP	15:00	21:00	6:00	All	Event
7/28/2023	Con Edison	Auto-DLM	16:00	20:00	4:00	All	Event
7/28/2023	Con Edison	CSRP	16:00	20:00	4:00	All	Event
7/28/2023	Con Edison	Term DLM	16:00	20:00	4:00	All	Event
7/28/2023	Con Edison	CSRP	19:00	23:00	6:00	All	Event
7/28/2023	Con Edison	DLRP	17:00	23:00	6:00	Washington Street	Immediate
7/28/2023	Con Edison	DLRP	18:00	0:00	6:00	Elmsford 2	Immediate

Event Date	Administrator	Program	Start Time	End Time	Event Hours	Zone/ Network	Event Type
7/28/2023	Con Edison	BYOT	11:00	15:00	4:00	All	Event
7/28/2023	Con Edison	BYOT	14:00	18:00	4:00	All	Event
7/28/2023	Con Edison	BYOT	16:00	20:00	4:00	All	Event
7/28/2023	Con Edison	BYOT	19:00	23:00	4:00	All	Event
7/29/2023	Con Edison	DLRP	15:30	21:30	6:00	Jackson Heights	Immediate
7/29/2023	Con Edison	BYOT	15:45	21:45	6:00	Jackson Heights	Contingency
8/21/2023	Con Edison	BYOT	14:00	20:00	6:00	Borden,Sunnyside	Event
8/21/2023	Con Edison	DLRP	14:00	20:00	6:00	Borden,Sunnyside	Event
9/5/2023	Con Edison	BYOT	16:45	20:45	4:00	Fresh Kills	Contingency
9/5/2023	Con Edison	DLRP	16:30	23:30	7:00	Fresh Kills	Immediate
9/6/2023	Con Edison	Term DLM	11:00	15:00	4:00	All	Event
9/6/2023	Con Edison	Term DLM	14:00	18:00	4:00	All	Event
9/6/2023	Con Edison	Auto-DLM	14:00	18:00	4:00	All	Event
9/6/2023	Con Edison	Auto-DLM	16:00	20:00	4:00	All	Event
9/6/2023	Con Edison	Term DLM	16:00	20:00	4:00	All	Event
9/6/2023	Con Edison	DLRP	18:00	0:00	6:00	Fresh Kills	Immediate
9/6/2023	Con Edison	BYOT	18:30	22:30	4:00	Fresh Kills	Contingency
9/7/2023	Con Edison	Term DLM	11:00	15:00	4:00	All	Event
9/7/2023	Con Edison	Term DLM	14:00	18:00	4:00	All	Event
9/7/2023	Con Edison	Auto-DLM	16:00	20:00	4:00	All	Event
9/7/2023	Con Edison	Term DLM	16:00	20:00	4:00	All	Event
9/7/2023	Con Edison	Auto-DLM	14:00	20:00	4:00	All	Event
9/7/2023	Con Edison	CSRP	10:00	15:00	6:00	All	Unplanned
9/7/2023	Con Edison	CSRP	11:00	15:00	4:00	All	Unplanned
9/7/2023	Con Edison	CSRP	13:00	19:00	6:00	All	Unplanned
9/7/2023	Con Edison	CSRP	14:00	18:00	6:00	All	Unplanned
9/7/2023	Con Edison	CSRP	15:00	21:00	6:00	All	Unplanned
9/7/2023	Con Edison	CSRP	16:00	20:00	4:00	All	Unplanned
9/7/2023	Con Edison	CSRP	19:00	23:00	6:00	All	Unplanned
9/7/2023	Con Edison	CSRP	10:00	23:00	13:00	All	Unplanned
9/7/2023	Con Edison	DLRP	16:00	22:00	6:00	Rego Park	Immediate
9/8/2023	Con Edison	DLRP	15:30	21:30	6:00	Fresh Kills	Immediate
9/7/2023	Con Edison	BYOT	11:00	15:00	4:00	All	Event
9/7/2023	Con Edison	BYOT	14:00	18:00	4:00	All	Event

Event Date	Administrator	Program	Start Time	End Time	Event Hours	Zone/ Network	Event Type
9/7/2023	Con Edison	BYOT	16:00	20:00	4:00	All	Event
9/7/2023	Con Edison	BYOT	19:00	23:00	4:00	All	Event
9/8/2023	Con Edison	BYOT	15:30	21:30	4:00	Fresh Kills	Contingency
9/27/2023	Con Edison	DLRP	12:30	18:30	6:00	Fox hills	Immediate
9/27/2023	Con Edison	BYOT	12:35	18:35	6:00	Fox Hills	Contingency
10/4/2023	NYISO	SCR	13:00	14:00	1:00	Zone A, H, I, J	Test

2011-2023 Demand Response Program Activity

Historical Demand Response program activity can be found on the Con Edison DR website[65] under "View History of Past Events."[66]

NYISO TDRP – Borough/Network/Subzone

Borough	Network	Subzone	Borough	Network	Subzone
BK	Bay Ridge	J3	MN	Madison Square	J7
BK	Borough Hall	J8	MN	Midtown West	J6
BK	Brighton Beach	J3	MN	Park Place	J7
BK	Crown Heights	J8	MN	Pennsylvania	J6
BK	Flatbush	J3	MN	Plaza	J6
BK	Ocean Parkway	J3	MN	Randall's Island	J2
BK	Park Slope	J3	MN	Rockefeller Center	J6
BK	Prospect Park	J8	MN	Roosevelt	J2
BK	Ridgewood	J8	MN	Sheridan Square	J7

[65] *See,* https://www.coned.com/en/save-money/rebates-incentives-tax-credits/rebates-incentives-tax-credits-for-commercial-industrial-buildings-customers/smart-usage-rewards

[66] *See,* https://www.coned.com/-/media/files/coned/documents/save-energy-money/rebates-incentives-tax-credits/smart-usage-rewards/demand-response-events.pdf?la=en

Borough	Network	Subzone	Borough	Network	Subzone
BK	Sheepshead Bay	J3	MN	Sutton	J2
BK	Williamsburg	J8	MN	Times Square	J6
BX	Central Bronx	J8	MN	Triboro	J8
BX	Fordham	J1	MN	Turtle Bay	J2
BX	Northeast Bronx	J1	MN	Washington Heights	J1
BX	Riverdale	J1	MN	Yorkville	J2
BX	Southeast Bronx	J1	QN	Borden	J3
BX	West Bronx	J1	QN	Flushing	J5
MN	Battery Park City	J8	QN	Jackson Heights	J5
MN	Beekman	J3	QN	Jamaica	J5
MN	Bowling Green	J8	QN	Long Island City	J5
MN	Canal	J7	QN	Maspeth	J3
MN	Central Park	J8	QN	Rego Park	J5
MN	Chelsea	J7	QN	Richmond Hill	J8
MN	City Hall	J7	QN	Sunnyside	J3
MN	Columbus Circle	J6	SI	Fox Hills	J4
MN	Cooper Square	J7	SI	Fresh Kills	J4
MN	Cortlandt	J8	SI	Wainwright	J4
MN	Empire	J3	SI	Woodrow	J4
MN	Fashion	J3	SI	Willowbrook	J4
MN	Freedom	J8	WS	Buchanan	H
MN	Fulton	J8	WS	Cedar Street	I
MN	Grand Central	J3	WS	Elmsford No. 2	I
MN	Greeley Square	J7	WS	Granite Hill	I
MN	Greenwich	J7	WS	Harrison	I
MN	Harlem	J8	WS	Millwood West	H
MN	Herald Square	J6	WS	Ossining West	H
MN	Hudson	J6	WS	Washington Street	I
MN	Hunter	J2	WS	White Plains	I
MN	Kips Bay	J7	WS	Grasslands	I
MN	Lenox Hill	J8	WS	Pleasantville	I
MN	Lincoln Square	J6	WS	Rockview	I