

Statewide Low- and Moderate-Income Portfolio 2022 Annual Report

Jointly Filed By:

The Brooklyn Union Gas Company d/b/a National Grid NY
Central Hudson Gas & Electric Corporation
Consolidated Edison Company of New York, Inc.
KeySpan Gas East Corporation d/b/a National Grid
National Fuel Gas Distribution Corporation
NMPC Power Corporation d/b/a National Grid
New York State Electric & Gas Corporation
New York State Energy Research and Development Authority
Orange and Rockland Utilities, Inc.
Rochester Gas and Electric Corporation

April 1, 2023

Table of Contents

1. Executive Summary.....	1
2. Introduction	6
3. Portfolio Administration and Progress	6
3.1. LMI Joint Management Committee	7
3.2 Statewide LMI Portfolio Performance Metrics	7
3.3 Budgets and Targets	9
3.4 Coordination Points	10
4. Stakeholder Engagement.....	14
4.1 Summary of Stakeholder Engagement Activity	14
4.2 LMI Portfolio Stakeholder Engagement Sessions	14
4.3 AMEEP Participating Contractor and Industry Partner Webinars	15
4.4 Continuous Stakeholder Input and Integration	15
5. 1-4 Family Homes.....	15
5.1 Program Summary	15
5.1.1 EmPower NY and AHP.....	16
5.1.2 Home Energy Affordability Team (HEAT).....	17
5.2 Program Implementation Milestones.....	17
5.3 Budgets, Targets, and Metrics	20
5.4 Findings & Planned Improvements.....	20
6. Existing Affordable Multifamily Buildings.....	21
6.1 Program Summary	21
6.1.1 Affordable Multifamily Energy Efficiency Program (AMEEP).....	22
6.1.2 Con Edison Programs and Community Partnerships	23
6.1.3 Technical Assistance for Affordable Multifamily Buildings.....	25
6.1.4 Multifamily Performance Program (MPP)	25
6.1.5 RetrofitNY.....	26
6.1.6 NYSERDA Partnerships with Affordable Housing Agencies	27
6.2 Program Implementation Milestones.....	28
6.2.1 Statewide Existing Affordable Multifamily Program.....	28
6.2.2 Technical Assistance for Affordable Multifamily Buildings.....	29
6.3 Budgets, Targets, and Metrics	31
6.4 Findings & Planned Improvements.....	32

7.	Affordable New Construction	33
7.1	Program Summary	33
7.2	Program Implementation Milestones	33
7.3	Budgets, Targets, and Metrics	35
7.4	Findings & Planned Improvements	36
8.	Pilots and Demonstrations	36
8.1	Program Summary	36
8.2	Program Implementation Milestones	37
8.3	Budgets, Targets, and Metrics	38
8.4	Findings & Planned Improvements	38
9.	Beneficial Electrification in Low- and Moderate-Income Homes	38
9.1	Program Summary	38
9.2	Program Implementation Milestones	39
9.3	Budgets, Targets, and Metrics	42
9.4	Findings & Planned Improvements	42
10.	Additional LMI Initiatives	43
10.1	Program Summary	43
10.1.2	New York State Healthy Homes Value-Based Payment Pilot	43
10.1.3	Solar for All	44
10.2	Program Implementation Milestones	45
10.3	Budgets, Targets, and Metrics	46
10.4	Findings & Planned Improvements	48
11.	Customer Awareness, Outreach & Engagement	49
11.1	Statewide Branding and Marketing	49
11.2	NY Energy Advisor	49
11.3	Community-Based Outreach and Engagement	50
11.4	Community-Based Customer Engagement Initiatives	50
11.5	Program Implementation Milestones	51
11.5.1	LMI Portfolio Marketing	51
11.5.2	Community-Based Outreach, Education, and Engagement Partnerships	52
11.5.3	Community-Based Customer Engagement Initiatives	52
11.6	Budgets, Targets, and Metrics	53
11.6	Findings & Planned Improvements	54

12. Evaluation, Measurement, and Verification	55
12.1 Evaluation, Measurement, and Verification Summary.....	55
12.2 Program Implementation Milestones.....	55
12.3 Budgets, Targets, and Metrics	56
12.4 Findings & Planned Improvements.....	56
13. Appendix A: Achievement to Budgets and Targets by Program Administrator	57
13.1 Central Hudson	57
13.2 Consolidated Edison.....	62
13.3 KEDLI	67
13.4 KEDNY	70
13.5 National Fuel Gas Distribution Corporation.....	73
13.6 New York State Energy Research & Development Authority	75
13.7 New York State Electric & Gas	81
13.8 NMPC	86
13.9 Orange & Rockland	91
13.10 Rochester Gas & Electric.....	96
14. Appendix B: LMI Portfolio Unit Costs.....	101
14.1 Utility Electric LMI Energy Efficiency Portfolio Unit Costs	101
14.2 Utility Gas LMI Energy Efficiency Program Unit Costs	101
14.3 NYSERDA LMI Unit Costs (\$/ MMBtu-e)	102
15. Appendix C: Measure Mix by Program Administrator	103
15.1 1-4 Family Homes MWh Measure Mix	103
15.2 1-4 Family Homes MMBtu Measure Mix.....	104
15.3 Existing Affordable Multifamily MWh Measure Mix	105
15.4 Existing Affordable Multifamily MMBtu Measure Mix.....	106
15.5 Customer Awareness, Outreach, & Engagement MWh Measure Mix	107
15.6 Customer Awareness, Outreach, & Engagement MMBtu Measure Mix.....	108
16. Appendix D: Realization Rates by Program Administrator	109
16.1 Central Hudson	109
16.2 Consolidated Edison.....	111
16.3 KEDLI	113
16.4 KEDNY	114
16.5 National Fuel Gas Distribution Corporation.....	115

16.6 New York State Energy Research & Development Authority	116
16.7 New York State Electric & Gas	118
16.8 NMPC	119
16.9 Orange & Rockland	121
16.10 Rochester Gas & Electric.....	122

1. Executive Summary

Pursuant to the January 16, 2020 Order Authorizing Utility Energy Efficiency and Building Electrification Portfolios through 2025 (“2020 NE: NY Order”), the New York State Energy Research and Development Authority (“NYSERDA”) and the New York Utilities¹ (collectively, “Program Administrators”) hereby file this Statewide LMI Portfolio Annual Report for 2022 (“Annual Report” or “Report”).²

In 2022 the Program Administrators continued the implementation and advancement of the Low- and Moderate-Income (“LMI”) statewide³ portfolio of energy efficiency programs and initiatives (the “Statewide LMI Portfolio” or the “Portfolio”), consistent with the Statewide Low- and Moderate-Income Portfolio Implementation Plan (“2022 Implementation Plan” or “2022 Plan”).⁴ The Implementation Plan⁵ aims to advance energy affordability and access to energy efficiency for New York’s LMI residents and communities while supporting New York State’s nation-leading climate policy to transition to carbon-free electricity systems and dramatically reduce greenhouse gas emissions. As stated in the 2020 Plan, the Statewide LMI Portfolio is designed to: (1) improve the experience of and ultimately benefit LMI customers seeking to access clean energy services; (2) reduce administrative costs and increase the impact of ratepayer funding; and (3) provide more consistent and streamlined participation for service providers. The Plan contributes to achieving key goals from the Climate Leadership and Community Protection Act⁶ (“Climate Act”), including the requirement that disadvantaged communities receive no less than 35% (with a goal of 40%) of the overall benefits of spending on clean energy programs, by focusing on the equity issues that can be most directly addressed by clean energy programs such as energy affordability, reduced fossil fuel combustion to advance environmental justice, and enhanced community engagement. The Statewide LMI Portfolio advances Governor Hochul’s 2022 State of the

¹ Central Hudson Gas & Electric Corporation (“Central Hudson”); Consolidated Edison Company of New York, Inc. (“Con Edison”); KeySpan Gas East Corporation d/b/a National Grid (“KEDLI”), The Brooklyn Union Gas Company d/b/a National Grid NY (“KEDNY”), NMPC Power Corporation d/b/a National Grid (“NMPC”) (collectively “National Grid”); National Fuel Gas Distribution Corporation (“National Fuel Gas” or “NFGDC”); New York State Electric & Gas Corporation (“NYSEG”); Orange and Rockland Utilities, Inc. (“Orange & Rockland”); and Rochester Gas and Electric Corporation (“RG&E”) (collectively, “Utilities”).

² Case 18-M-0084, *In the Matter of a Comprehensive Energy Efficiency Initiative* (“NE: NY Proceeding”), Order Authorizing Utility Energy Efficiency and Building Electrification Portfolios Through 2025 (issued January 16, 2020) (“2020 NE: NY Order”), p. 103.

³ For the purpose of the Statewide LMI Portfolio, these initiatives serve customers located in the territories of the Utilities defined and do not serve, unless otherwise noted, customers in other utility territories across the state. NYSEERDA and the Utilities coordinate and share information on initiatives with utilities not outlined in this Report, to ensure alignment and advancement of energy efficiency initiatives across the state.

⁴ NE: NY Proceeding, Statewide Low- and Moderate-Income Implementation Plan, Version 2 (“2022 Implementation Plan”), (filed August 15, 2022). The Program Administrators also filed a Statewide Low- and Moderate-Income Implementation Plan, Version 3 on November 22, 2022. In general, this 2022 Annual Report makes data and other comparisons to the 2022 Implementation Plan filed on August 15, 2022, in particular for data comparison between planned and actual 2022 performance. Where information is included from the November 22, 2022 filing, this is specifically noted. The initial Statewide Low- and Moderate-Income Implementation Plan was filed on July 24, 2020 (“2020 Implementation Plan”),

⁵ Whereas “2022 Implementation Plan” and “2022 Plan” refer to the Implementation Plan filed August 15, 2022, this Annual Report also use the non-date-specific term “Implementation Plan” to describe more generally the applicable governing plan for the Portfolio, which is to be revised and updated periodically (*i.e.*, “Implementation Plan”).

⁶ Chapter 106 of the Laws of 2019. The Climate Act is available at

<https://legislation.nysenate.gov/pdf/bills/2019/S6599>.

State commitment to achieve two million climate-friendly homes by 2030, with at least 800,000 serving LMI households. The acceleration of energy efficiency, end-use electrification, and equitable access to these solutions for low-income and disadvantaged communities, as outlined in New York’s [Scoping Plan](#)⁷ (“Scoping Plan”) to achieve the mandates of the Climate Act, is core to the work and the outcomes of the LMI portfolio. In December 2022, Staff released the Energy Efficiency and Building Electrification Report (“EE/BE Report”), initiating the triennial review of the LMI Portfolio (among other programs).⁸ The Program Administrators will continue to work with Staff in their comprehensive review of the LMI Portfolio.

In the administration of the Portfolio, the Program Administrators are preserving flexibility with annual budgets and production projections to provide for the ability to respond to increased demand and serve more households or buildings as necessary. Where necessary and feasible (*i.e.*, given regulatory requirements), Program Administrators either: have spent and/or will spend budgets from future years to meet program demand; or have spent and/or will spend budgets from earlier years in later years for the same reason. Any such reallocations applicable to 2022 are reflected in this Annual Report, including in tables throughout the Report, and the Implementation Plan.⁹

In the Portfolio to date, 2020-2022, the Program Administrators collectively spent \$354.5 million, with estimated annual electric savings of approximately 140,000 megawatt hours (“MWh”)¹⁰, annual gas savings of approximately 1,724,700 million British Thermal Units (“MMBtu”),¹¹ and annual greenhouse gas emissions reductions of approximately 159,300 metric tons of carbon dioxide equivalent (“CO₂e”). The Program Administrators served approximately 156,300 participants through the 1-4 Family Homes, Affordable Multifamily, and Affordable New Construction initiatives, and reached approximately 910,800 participants through Customer Awareness, Outreach and Engagement initiatives.¹²

[Tables 1](#) and 2 below, provide a summary of Portfolio-level progress towards 2020-2025 targets as detailed in the 2022 Implementation Plan and 2020 NE:NY Order.

⁷ <https://climate.ny.gov/resources/scoping-plan/>

⁸ NENY Proceeding, Energy Efficiency and Building Electrification Report (“EE BE Report”) (filed December 19, 2022).

⁹ See, NE: NY Proceeding, 2020 NE: NY Order, p. 69-70.

¹⁰ Note savings are represented as “blended” throughout the 2022 Annual Report (*i.e.*, VGS where applicable and gross where no realization rate is available for the particular program), consistent with reporting on the Clean Energy Dashboard.

¹¹ Throughout the body of this Annual Report, NYSERDA savings from fuels other than electric and gas are included in MMBtu savings calculations.

¹² The Customer Awareness, Outreach and Engagement initiatives included measures such as energy efficiency kits and LED distribution at food banks. More detail regarding these programs and how metrics are calculated is provided in the sector-specific sections of this report.

Table 1. LMI Portfolio Progress – 2022 Achieved vs. 2022 Implementation Plan Projection

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance
Total CEF Budget*	\$105,276,999	\$93,081,599	\$12,195,400
Total Utility Electric Budget**	\$9,085,601	\$12,295,626	\$(3,210,026)
Total Utility Gas Budget**	\$44,055,487	\$54,210,744	\$(10,155,257)
Total Combined Budget	\$158,418,087	\$159,587,969	\$(1,169,882)
MWh Annual Savings	58,297	49,302	8,995
MMBtu Annual Savings	823,439	999,590	(176,151)
<p>* NYSERDA currently manages and reports Administration, EM&V, and NYS Cost Recovery Fees at a broader Clean Energy Fund Market Development Portfolio (“CEF Market Development Portfolio” or “CEF”) level. To ensure that LMI spend expenditures and impact achievements can be assessed comprehensively, DPS has established the following LMI allocations for these costs: Administration + EM&V: 27%; Market Development Cost Recovery Fee: 26%. These allocations increase NYSERDA’s total 2020-2022 Achieved budget to \$287M and the total Implementation Plan Target to \$704M. ** Utility budgets include Administration and EM&V. Utility details can be found in Appendix A.</p>			

Table 2. LMI Portfolio Progress – 2020-2022 Achieved vs. 2020-2022 Projection and Targets

Metric	2020 - 2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection	NE: NY Targets (Ordered and from EE BE Report) ¹³	% Achieved 2020-2022 to Targets (NE: NY + EE BE Report)
Total CEF Budget*	\$256,565,593	\$631,580,250	41%	\$726,066,776	35%
Total Utility Electric Budget**	\$21,260,883	\$82,685,423	26%	\$89,322,095	24%
Total Utility Gas Budget**	\$76,699,085	\$262,806,543	29%	\$265,720,213	29%
Total Combined Budget	\$354,525,561	\$977,072,215	36%	\$1,081,109,084	33%
MWh Annual Savings	140,032	348,171	40%	356,498	39%
MMBtu Annual Savings	1,724,712	6,890,171	25%	9,001,290	19%
<p>*NYSERDA currently manages and reports Administration, EM&V, and NYS Cost Recovery Fees at a CEF portfolio-level. To ensure that LMI expenditures and achievements can be assessed comprehensively, DPS has established the following LMI allocations for these costs:</p>					

¹³ The values in this column include additional savings target added to KEDLI’s LMI portfolio as a result of incorporating rate case funding into the portfolio. These additional savings were calculated at the same run rate as the NE:NY Ordered run rate for the KEDLI LMI portfolio. This funding was authorized in Case-19-G-0310, *Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service*, Order Approving Joint Proposal as Modified and Imposing Additional Requirements (issued and effective Aug. 12, 2021) pg. 164; Joint Proposal Sec. IV.7.1.2..

Administration + EM&V: 27%; Cost Recovery Fee: 26%. These allocations increase NYSERDA's total 2020-2022 Achieved budget to \$287M and the total Implementation Plan Target to \$704M.

** Utility budgets include Administration and EM&V. Utility details can be found in Appendix A.

[Table 3](#), below, provides a brief description and key highlights and takeaways for each major segment of the Statewide LMI Portfolio, organized by Annual Report section.

Table 3. Key Highlights and Takeaways by Annual Report Section

Section Name	Key Highlights and Takeaways
2. Introduction	Continued implementation of Statewide LMI Portfolio for New York
3. Portfolio Administration and Progress	<ul style="list-style-type: none"> • Reporting on status of Performance Metrics for 2022 • Portfolio administration, implementation and program updates
4. Stakeholder Engagement	<ul style="list-style-type: none"> • Over 200 attendees participated in two formal Portfolio webinar stakeholder input sessions; approximately 300 attendees participated in five Participating Contractor and Industry Partner (“PCIP”) webinars for the Affordable Multifamily Energy Efficiency Program (“AMEEP”).
5. 1-4 Family Homes	<ul style="list-style-type: none"> • Created a combined LMI programs application and built an online version • Doubled the number of moderate-income homes served through Assisted Home Performance (“AHP”) over pre-COVID annual average
6. Existing Affordable Multifamily Buildings	<ul style="list-style-type: none"> • Continued implementation of the Statewide multifamily program, AMEEP • Continued partnership between NYSERDA and NYC Housing Preservation and Development (“NYC HPD”), integrating high-efficiency and electrification incentives into affordable housing preservation finance process • Expanded partnership between NYSERDA and New York State Homes and Community Renewal (“HCR”) to provide technical assistance and integrate high efficiency and electrification incentives for existing affordable multifamily projects within the financing application applications. • Awarded contracts to two manufacturers under the Clean Heat for All Challenge, an industry competition jointly administered by NYSERDA, New York City Housing Authority (“NYCHA”), and New York Power Authority (“NYPA”) to develop a packaged, window-mounted cold climate heat pump that will accelerate electrification of NYCHA’s portfolio and NYS multifamily buildings
7. Affordable New Construction	<ul style="list-style-type: none"> • Continued transformative partnership with HCR to integrate technical assistance and high-efficiency and electrification incentives into affordable new construction finance applications • Awarded second round winners of Buildings of Excellence competition, recognizing design, construction and operation of low-carbon or carbon neutral multifamily buildings, with 78% of units constructed serving LMI households
8. Pilots and Demonstrations	<ul style="list-style-type: none"> • Continued the Heat Pump Adder Pilot, funding over \$10M in electrification measures as part of comprehensive energy upgrades in low-to-moderate income homes and affordable multifamily buildings
9. Beneficial Electrification in LMI Homes	<ul style="list-style-type: none"> • Continued implementation of Heat Pump Adder Pilot for 1-4 family and multifamily LMI homes • Conducted market research and analysis to inform new heat pump deployment strategies in LMI market segment
10. Additional LMI Initiatives	<ul style="list-style-type: none"> • Launched Healthy Homes Pilot
11. Customer Awareness, Outreach & Engagement	<ul style="list-style-type: none"> • Launched 13 Regional Clean Energy Hubs in ten economic development regions of the state to provide holistic, multi-disciplinary outreach services to ensure equitable access to the benefits of New York’s clean energy transition
12. Evaluation, Measurement, and Verification	<ul style="list-style-type: none"> • Developed a standardized series of survey questions for statewide use in process evaluation research • Completed an evaluation of EmPower NY for 2017-Q1 2019

2. Introduction

Pursuant to the 2020 NE: NY Order, this Statewide LMI Portfolio Annual Report for 2022 gives an overview of the Statewide LMI Portfolio’s performance and subsequent findings and planned improvements.¹⁴ This Annual Report is consistent with the August 15, 2022 Implementation Plan, and the Program Administrators’ compliance filings that provide additional detail on the plans for implementing the Statewide LMI Portfolio: the LMI JMC Manual, the LMI Coordination Plan, and the LMI VGS Specifications. This Annual Report also demonstrates that Program Administrator activity for 2022 is consistent with the directives from the New York Public Service Commission (“Commission”), including the Accelerated Efficiency Order¹⁵ from December 2018 and the 2020 NE: NY Order from January 2020.¹⁶ The LMI programs currently administered and in development under the Statewide LMI Portfolio will advance the climate and equity objectives of New York’s Climate Act, which requires a minimum of 35% of clean energy program spending, with a goal of 40%, be directed to disadvantaged communities. Furthermore, Statewide LMI Portfolio will incorporate the Disadvantaged Communities criteria as established by the Climate Justice Working Group and informed by public comment into existing programs and new initiative developments where applicable and appropriate. The activities and investments outlined in this Report seek to lower energy consumption and energy bills for LMI residents and affordable housing owners; reduce on-site combustion of fossil fuels; reduce localized air pollution; and improve outreach and engagement within LMI and disadvantaged communities.

In the sections below, the Program Administrators describe their activities and results in 2022, including data on budgets, savings, and participants, both targeted and actual achievement. This data is provided at a Portfolio level. Data specific to each Program Administrator is provided in [Appendix A](#). In the 2020 Implementation Plan, the Program Administrators established key objectives and associated performance metrics for the Statewide LMI Portfolio, described further in [Section 3.2](#).¹⁷ The reporting of performance metrics in this Annual Report is consistent with those established in the 2020 Implementation Plan.

3. Portfolio Administration and Progress

Effective and robust coordination among the Program Administrators is foundational to the success of the Statewide LMI Portfolio, and the Program Administrators’ activity in 2022 reflects their focus on this key objective. Central to this is continuous improvement in the operation and effectiveness of the LMI Joint Management Committee (“LMI JMC”) in delivering on the goals and outcomes of the Statewide LMI Portfolio framework and addressing complex coordination topics (“Coordination Points”) as part of the

¹⁴ NE: NY Proceeding, 2020 NE: NY Order, p. 103.

¹⁵ NE: NY Proceeding, Order Adopting Accelerated Energy Efficiency Targets (issued December 13, 2018) (“Accelerated Efficiency Order”).

¹⁶ Per the directives in the Accelerated Efficiency Order and the 2020 NE: NY Order, the Program Administrators have allocated over 20% of incremental energy efficiency funding to the LMI sector in 2022, with approximately 50% of utility incremental energy efficiency funding allocated to the multifamily market segment on a cumulative Portfolio basis.

¹⁷ NE: NY Proceeding, 2020 Implementation Plan, p. 7, 11-12. Key objectives listed on p. 7 are to: Achieve savings goals within budget; Increase the number of customers served annually; Encourage customer adoption of comprehensive efficiency projects; Encourage new affordable housing to adopt more energy efficient profiles; Increase LMI customer and affordable housing owner awareness of the Portfolio’s energy efficiency programs and offerings; Achieve high customer satisfaction; Improve energy affordability for LMI customers; and Increase administrative efficiencies.

development and refinement of the Statewide LMI Portfolio.¹⁸ Areas of emphasis in the Portfolio’s coordinated administration and progress include performance metrics and budgets and targets.

3.1. LMI Joint Management Committee

The LMI JMC provides a forum for the Program Administrators to jointly develop and coordinate new market offerings and assess and refine ongoing programmatic activity, per the Implementation Plan. The LMI JMC consists of representatives from each of the Utilities and NYSERDA, including a lead representative from each organization who serves as the point of contact for Committee-related communications and administrative matters. The New York State Department of Public Service (“DPS”) Staff provides an oversight and consultative role for the LMI JMC.

3.2 Statewide LMI Portfolio Performance Metrics

In the 2020 and 2022 Implementation Plans, the Program Administrators noted they would measure the success of the Statewide LMI Portfolio in meeting the objectives noted above¹⁹ by tracking the Performance Metrics shown in [Table 4](#). The Performance Metrics provide a roadmap for future Portfolio evaluation, guiding the investigation of and informing the basis for measuring performance. The objectives and corresponding Performance Metrics will be reviewed on a periodic basis and updated as appropriate to reflect Portfolio maturity. The objectives in [Table 4](#) are not the only key objectives of this Portfolio, but have been identified as those that should be tracked to report performance. The Program Administrators track and report the Performance Metrics related to savings and spending in [Table 4](#) quarterly through Scorecards posted on the Clean Energy Dashboard (“CED”) (as well as in each Annual Report). The Program Administrators will periodically survey stakeholders and customers to gauge their awareness of and satisfaction with the program offerings. The third column in this table, “Status,” addresses the current ability of the Program Administrators to assess each of the Performance Metrics.

Table 4: Portfolio Objectives and Performance Metrics

Portfolio Objective	Performance Metrics	Status
Portfolio Savings & Spend		
Achieve Portfolio-wide savings goals within budget	MWh annual and lifetime savings achievements	Reported via Clean Energy Dashboard and Annual Report
	MMBtu annual and lifetime savings achievements	Reported via Clean Energy Dashboard and Annual Report
	CO2e Emission Reduction (metric tons) annual and lifetime savings achievements	Reported via Clean Energy Dashboard and Annual Report

¹⁸ The Program Administrators addressed the LMI JMC and the Coordination Points in the 2020 Implementation Plan (p. 9-11 and 8, respectively) and the separate LMI JMC Manual and LMI JMC Coordination Plan filings, which were provided in compliance with the DPS Staff letter approving the 2020 Implementation Plan. NE: NY Proceeding, “Statewide LMI Implementation Plan Approval Letter,” (Filed September 14, 2020) (“Approval Letter”), p. 2

¹⁹ See, Footnote 17, above.

Portfolio Objective	Performance Metrics	Status
	Budget spent	Reported via Clean Energy Dashboard and Annual Report
Portfolio Participation		
Increase the number of customers served annually	Number of participants ²⁰ served	Reported via Clean Energy Dashboard, where applicable, and Annual Report
Adopt comprehensive ²¹ efficiency projects	Energy savings acquired from comprehensive projects	Reported via Annual Report
Portfolio Customer Experience		
Increase customer Portfolio awareness	Percentage of LMI customers that learn about Portfolio initiatives from various sources (e.g., NY Energy Advisor website, Utility or NYSERDA outreach materials, contractors, etc.)	Program Administrators, including EM&V teams, are currently discussing approaches for assessing, including survey instruments, to be coordinated with evaluation contractors
Achieve high customer satisfaction	Participation satisfaction rating	
Advance energy affordability for LMI customers	Participant bill savings, annual and lifetime	Reported via Clean Energy Dashboard and Annual Report
Portfolio Efficiencies		
Increase efficiencies of Portfolio investments ²²	Cost and burden associated with all Portfolio investments	Reported via Annual Report comparing spend and unit costs (\$/MMBtu-e)

²⁰ For the purposes of this Report, “participants” are defined as dwelling units served in statewide programs. Dwelling units that receive both electric and gas measures are counted in both the electric and gas categories in CED scorecards; participant counts are reflected identically in this Annual Report. Prior to the launch of AMEEP, the definition of participants depended on the Multifamily initiative type, and may have referred to households, multifamily buildings, tenants, and/or accounts.

²¹ NE: NY Proceeding, Accelerated Efficiency Order, p. 36. The Accelerated Efficiency Order states “Comprehensive programs that combine lower cost-effective measures with higher cost-effective measures can optimize the total reduction that can be attained through a single customer transaction. Further, comprehensive building efficiency improvements often result in the installation of measures with longer effective useful lives (EUL), resulting in savings that persist well into the future.”

²² Such efficiencies are described in [Section 3.3](#), and may apply to categories including, but not limited to, administration, implementation, marketing, incentives, and EM&V.

3.3 Budgets and Targets

During 2022, the Program Administrators collectively spent \$158 million, with estimated annual electric savings of approximately 58,300 MWh, and annual gas savings of approximately 823,400 MMBtu. Individual Program Administrator budgets and targets, as well as other metrics, are shown in [Appendix A](#). [Appendix A](#) also includes Program Administrator-specific narrative regarding 2020-2022 spending and savings performance as compared to targets and projections in the [August 15, 2022 Implementation Plan](#). For several Program Administrators, the 2022 savings achieved differ materially from those in the 2022 Implementation Plan and from those in the 2020 NE: NY Order, with the result primarily being an increase in operating run rate. Additionally, in their Long Island territory (KEDLI), National Grid is investing additional funding approved in their most recent rate case to support the HEAT program²³. Furthermore, NFGDC's pre-existing LMI funding and performance targets that were approved in its February 2019 Energy Efficiency Transition Implementation Plan/System Energy Efficiency Plan ("ETIP/SEEP") filing to support its Low Income Usage Reduction Program ("LIURP") are also incorporated into the present Statewide LMI Portfolio, and will continue to be included in the Statewide LMI Portfolio in the future. In an effort to maximize participation in AMEEP, Central Hudson is currently planning to exceed its cumulative gas LMI portfolio budget through a corresponding underspend of the cumulative authorized budgets for electric LMI, electric non-LMI, and/or gas non-LMI programs. Program Administrator performance is also updated quarterly in Clean Energy Dashboard scorecards filed with DPS.²⁴

As noted in the 2021 Annual Report and subsequent LMI Implementation Plan, filed August 2022, the budgets and savings targets from the Accelerated Efficiency Order (issued December 2018) and the 2020 NE: NY Order (issued January 2020) were based on historic unit cost data. The historic run rates that informed the ordered budgets and targets are lower than the run rates Program Administrators are currently experiencing with the programs in market today. Therefore, Program Administrators have included additional funding from non-LMI portfolios to achieve savings targets. Additional funding is identified in the LMI Implementation Plan, page 107.

The following section summarizes key trends, which are discussed in detail in [Appendix A](#):

Targets

- Achievement of electric Utility Program Administrator targets for 2022 varied from overachievement, to alignment, to underachievement relative to 2020 NE: NY Order and 2022 Implementation Plan targets.
- NYSERDA's funding is fuel neutral and aligns with the 2020 NE: NY Order and 2022 Implementation Plan budgets. NYSERDA notes an over achievement in Affordable New Construction. NYSERDA performance compared to gas targets shows overachievement in the 1-4 Family Homes and Affordable New Construction sectors and underachievement in Existing

²³ The rate case funding included in the LMI KEDLI portfolio includes additional savings targets, calculated at the same run rate as the NE:NY Ordered run rate for the KEDLI portfolio. This funding was authorized in Case-19-G-0310, *Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service*, Order Approving Joint Proposal as Modified and Imposing Additional Requirements (issued and effective Aug. 12, 2021) pg. 164; Joint Proposal Sec. IV.7.1.2.

²⁴ <https://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=18-M-0084>;
<https://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=14-m-0094>

Affordable Multifamily. NYSERDA 2022 overall performance compared to electric targets shows a slight underachievement within the 1-4 Family and Existing Affordable Multifamily sectors.

Budgets:

- Utilities shifted funds or plan to shift funds between years to optimize Portfolio performance; some plan to use additional 2022 budgets in future years while others spent future year funding in 2022 to meet demand.

The Program Administrators specifically address instances in which there is substantial variance between portfolio targets as identified in the 2022 Implementation Plan and actual 2022 achievement in [Appendix A](#). Specifically, each Program Administrator provides a narrative description explaining this variance alongside its Program Administrator-specific [Appendix A](#) tables, including the factors that may have caused variance from projected performance, and any actions taken or planned in response.

The Program Administrators remain committed to achieving cost efficiencies to reduce overall costs. Cost efficiencies identified and achieved and/or continuing to be pursued beyond 2022 by the Program Administrators include the following, which are noted in detail throughout this Report:

- Formalizing processes and documents for multifamily implementation contractors (“Implementation Contractors”) to be largely consistent statewide and simplified for regions with overlap;
- Further improving the referrals, lead generation, and customer access for the 1-4 Family LMI Homes sector;
- Collaboration among Program Administrators on a single NY Energy Advisor site and a statewide marketing campaign;
- Collaborating on, sharing, and applying best practices from regional customer awareness and outreach efforts in overlapping and neighboring utilities (*e.g.*, NYSEG and National Grid working together on a direct-to-customer lighting program); and
- Combining and streamlining the EmPower and AHP programs into one new program, EmPower+, that will serve the 1-4 Family LMI sector beginning in Spring 2023 to streamline customer and contractor experiences and increase operational efficiencies.

3.4 Coordination Points

The Program Administrators filed a Coordination Plan²⁵ in November 2020 to address several complex coordination and administration elements requiring a transition period and timelines for the identified topics.²⁶ These Coordination Points are:

- Data Sharing Between the Program Administrators
- Evaluation, Measurement & Verification
- Implementation Contractor Models and Procurement

²⁵ NE: NY Proceeding, Statewide Low- to Moderate-Income Joint Management Committee Coordination Plan (“Coordination Plan”) (filed November 13, 2020).

²⁶ NE: NY Proceeding, Approval Letter, p. 2, citing, NE: NY Proceeding, 2020 Implementation Plan, p. 8. In the Approval Letter DPS Staff cited the 2020 Implementation Plan in the identification of these topics.

- Marketing
- Development and Use of Single Applications Across Program Administrators

The following sections describe areas of coordination.

A critical mechanism to facilitate coordination across these points are the nine agreements to allow for the administration of utility funding through NYSEERDA. Through these agreements, NYSEERDA and the Utilities have centralized the administration of 1-4 Family programs through NYSEERDA’s EmPower program. The LMI JMC has also leveraged the agreement to administer funding through NYSEERDA to centralize the development and implementation of the NY Energy Advisor website and marketing plan.

Data Sharing Between the Program Administrators

The Coordination Plan noted that an important component of achieving the goals and objectives described in the Implementation Plan is the efficient sharing of data between the Utilities and NYSEERDA. As noted in the 2020 Annual Report, such sharing must, however, balance the improved customer experience and streamlined administration of programs with the need for diligence in rules, processes, and systems that protect customer privacy and security, consistent with Commission and Program Administrator policies, laws, and regulations. The Program Administrators developed the following approach:

- Identify the data sharing needs for the Portfolio to streamline customer access to all eligible programs and minimize administrative friction;
- Develop a comprehensive understanding of the existing data sharing framework in place;
- Determine whether any gaps exist between data needs for the Portfolio and the existing data sharing framework; and
- Identify and implement solutions to address any gaps that are identified.

In 2022, progress on data-sharing was made in two high-impact areas of the Portfolio, AMEEP, and EmPower NY:

AMEEP

- NYSEERDA and the Utilities continued to administer a single lead intake form for AMEEP. This provides a uniform intake experience for customers statewide and channels customers to the appropriate utility service territory and associated Implementation Contractor efficiently.
- NYSEERDA has updated terms in its Flexible Technical Assistance (“FlexTech”) program for customer consent authorizing NYSEERDA to share FlexTech study information with the Utilities.
- Customer consent integrated into the terms of the program application and authorizing the Utilities to share relevant application information with NYSEERDA continued to allow for coordination of technical assistance.²⁷
- The Utilities are coordinating projects in overlapping service territories, which has required new and/or amended agreements and processes among the Utilities and Implementation Contractors to enable the new customer experience and implement data sharing protocols to protect customer information, as well as updated program materials. The Utilities are actively working to refine these efforts.

²⁷ Usage data is not included in the application, and is therefore not shared as part of this process.

EmPower NY

- For EmPower NY, enhanced bidirectional data sharing is in place. The Utilities provide customer referrals to NYSERDA on a routine basis, which Program Administrators have described in detail in the EmPower NY Referral Process filings submitted by each of the Utilities on October 25, 2021.²⁸ NYSERDA shares individual and aggregate referral status information with each utility via an interactive dashboard.
- The Program Administrators developed and executed agreements to enable centralized program delivery through EmPower and improved coordination for the benefit of customers and service providers.
- The Program Administrators are coordinating on a statewide evaluation of the EmPower/EmPower+ program, as described further in [Section 12](#), below.

In 2023, the Program Administrators will continue to identify any necessary modifications to current agreements to facilitate the sharing of relevant data for the benefit of customers. For example, through the EmPower program, the Utilities will consider sharing additional data via referrals to target high-impact customers. As part of AMEEP, the Utilities, and NYSERDA worked to improve processes for sharing energy audits and application information. In 2022, the Program Administrators aligned on a process for projects to flow from FlexTech to AMEEP, to take advantage of the technical assistance offered by NYSERDA while maintaining a streamlined customer flow. The Program Administrators also discussed data sharing related to standardized statewide reporting for AMEEP and aligned on data tracking and reporting methods to provide insight into project measure mixes and the breakout of comprehensive and non-comprehensive projects. In 2023 the Program Administrators will continue improving the granularity of data tracking to provide greater insight into the measure types installed.

Evaluation, Measurement & Verification

- EM&V is addressed in [Section 12](#), below.

Implementation Contractor Models and Procurement

The Coordination Plan recognized the central function of Implementation Contractors in the Portfolio, noting that a more integrated set of initiatives between the Utilities and NYSERDA provides the potential to assess the role of Implementation Contractors to achieve economies of scale and reduce overall administrative costs within the Statewide LMI Portfolio. The Coordination Plan identified and discussed a range of possible topics and solutions, including contracting timelines, Implementation Contractor functions, cost issues, and streamlining of different Implementation Contractor models among Program Administrators. As the Program Administrators developed AMEEP in 2021, there was a significant focus on the approach to procuring and contracting with Implementation Contractors. As a foundational element, the Utilities shared and assessed the scope and term of Implementation Contractors in current existing utility multifamily programs and aligned on two Implementation Contractors Statewide. In 2022, the Utilities continued aligning on processes between the two Implementation Contractors, especially in areas of overlapping utilities. For example, Con Edison and National Grid in KEDNY worked together with

²⁸ DMM Case Number 18-M-0084.

<https://documents.dps.ny.gov/public/MatterManagement/CaseMaster.aspx?MatterCaseNo=18-M-0084>

their Implementation Contractor to develop a submission guide for contractors in the Downstate²⁹ NY area, and National Fuel Gas, NYSEG, RG&E, and National Grid in the NMPC service territory worked with their Implementation Contractor to collaborate on outreach efforts for the Central and Western regions of NYS where their territories overlap.

For 1-4 Family residential programs, a single Implementation Contractor model is used to deliver the programs statewide. NYSERDA administers the program for the vast majority of the state, with implementation support provided by a third-party Implementation Contractor. In areas of the state where electric service is not provided by one of the Investor Owned Utilities, close coordination occurs: for example, on Long Island, where NYSERDA and National Grid coordinate to support National Grid's Home Energy Affordability Team ("HEAT") Program, and in municipal electric territories, where supplemental funding is provided through the RGGI Annual Operating Plan³⁰.

The LMI JMC will continue to assess opportunities for optimal Implementation Contractor structures in 2023 by performing an analysis of existing structures. Throughout this analysis, the Program Administrators will collaborate with Staff.

Marketing

The Coordination Plan addressed marketing and outreach, noting the importance of these efforts in raising awareness among LMI customers and affordable multifamily property owners about the initiatives and services available to them. As described in the Coordination Plan, marketing efforts consist of a combination of statewide and localized marketing. The LMI JMC continued to build on the success of the NY Energy Advisor website, optimizing material to meet program needs, as well as on collateral materials and a statewide branded campaign

The LMI JMC Marketing Working Group launched the NY Energy Advisor marketing campaign in Q1 2022. The working group focused in 2022 on steering the campaign launch, assessing its effectiveness at reaching customers and meeting their needs, and refining the NY Energy Advisor marketing campaign to maximize impact for LMI customers.

[Section 11](#) provides additional information about the progress and findings of marketing among the Program Administrators.

Development and Use of Single Applications Across Program Administrators

In the Coordination Plan, the Program Administrators identified the importance of assessing the program application process for participants. Feedback from customers, market actors, and other stakeholders confirmed the need to simplify and streamline the application process. The Program Administrators identified solutions to achieve these goals.

The LMI JMC continues to leverage NYSERDA's single statewide electronic application for the EmPower NY and AHP programs. The application portal was launched in 2021 and has expanded access to information on these programs for customers in National Grid's KEDLI service territory. Similarly, the Program Administrators maintain a single statewide application for AMEEP. Links to both program pages

²⁹ For the purposes of this Annual Report, the "downstate" New York utility service territories include Con Edison and National Grid's KEDLI and KEDNY service territories. "Upstate" refers to Central Hudson, NFGDC, National Grid's NIMO service territory, NYSEG, RG&E, and Orange & Rockland.

³⁰ RGGI Meeting and Planning Documents website: <https://www.nyserdera.ny.gov/Researchers-and-Policymakers/Regional-Greenhouse-Gas-Initiative/Useful-Documents>

can be found on the NY Energy Advisor website,³¹ and the AMEEP application can be found on the Statewide AMEEP documents page.³²

4. Stakeholder Engagement

4.1 Summary of Stakeholder Engagement Activity

As noted in the 2020 Implementation Plan,³³ the Program Administrators view engagement with stakeholders as core to the design, implementation, refinement, and overall success of the Portfolio, and this priority was reflected in 2022 through numerous stakeholder engagement efforts.³⁴ Stakeholder input provides the foundation for much of what follows in the initiative summaries in Sections 5-12.

4.2 LMI Portfolio Stakeholder Engagement Sessions

The Program Administrators conducted statewide stakeholder engagement sessions on June 22 and December 15, 2022. Each session was held virtually, with over 100 individuals attending each webinar.

Before each session, the Program Administrators posted meeting announcements on the DPS Document and Matter Management website (“DMM”),³⁵ and on NYSERDA’s LMI Stakeholder Resources webpage.³⁶ In addition, email invitations soliciting stakeholders to submit questions to LMIForum@nyserd.ny.gov were also sent to a broad distribution list of potential attendees. The invitations included the agenda so that potential attendees would know what would to be addressed in each session.

The Program Administrators presented a wide range of topics during these two stakeholder engagement sessions, providing stakeholders with both general background and specific details, as appropriate. Topics included outlining the context for the LMI initiatives, providing updates and priorities for initiatives and services (*i.e.*, 1-4 Family and Multifamily), and giving updates on the NY Energy Advisor website, partnerships with affordable housing agencies, and the launch of the Regional Clean Energy Hubs.

The Program Administrators organized these stakeholder sessions to encourage engagement and feedback from attendees. At both sessions, stakeholders had the opportunity to ask questions and provide comments, during and following the presentations. This provided insights to the presenters regarding areas of interest, attention, or clarification in “real time.” The range of interest in all aspects of the Portfolio was evident in the breadth of the questions and comments raised. Those questions, comments, and responses are found in the summary reports of each session,³⁷ which the Program

³¹ <https://energyadvisor.ny.gov/>

³² <https://www.nyserd.ny.gov/All-Programs/Low-to-moderate-Income-Programs/LMI-Stakeholder-Resources-New-Efficiency-New-York/NYS-Affordable-Multifamily-Energy-Efficiency-Program>

³³ NE: NY Proceeding, 2020 Implementation Plan, p. 11-12.

³⁴ The 2020 NE: NY Order requires the Program Administrators to conduct two stakeholder engagement sessions annually, which are described herein. NE: NY Proceeding, 2020 NE: NY Order, p. 101.

³⁵ NE: NY Proceeding, Notice Announcing Statewide LMI Stakeholder Webinar, (filed June 6, 2022 and December 6, 2022, respectively).

³⁶ <https://www.nyserd.ny.gov/All-Programs/Low-to-moderate-Income-Programs/LMI-Stakeholder-Resources-New-Efficiency-New-York>

³⁷ NE: NY Proceeding, Statewide Low- to Moderate-Income Portfolio Stakeholder Webinar June 22, 2022 - Summary Report, (filed December 9, 2022); Statewide Low- to Moderate-Income Portfolio Stakeholder Webinar, December 15, 2022 - Summary Report, (filed January 19, 2023).

Administrators posted following each session, along with meeting slides.³⁸ The December 2022 Stakeholder Session also included a survey that provided the Program Administrators with information regarding the Portfolio and the stakeholder engagement session, as is described in the report for that session.³⁹

4.3 AMEEP Participating Contractor and Industry Partner Webinars

In addition, the Program Administrators continued to engage with stakeholders throughout 2022 in the implementation and operation of AMEEP by establishing the Participating Contractor and Industry Partners (“PCIP”) webinars. These PCIP webinars address changes to the AMEEP Program Manuals, provide education regarding program elements, and solicit input and discussion on the program. The following table provides additional data on the 2022 AMEEP PCIP webinars.

Table 5. AMEEP PCIP Webinar Information

Event	Date	Participants
AMEEP PC&IP Webinar Session 1	April 8, 2022	78
AMEEP PC&IP Webinar Session 2	May 5, 2022	60
AMEEP PC&IP Webinar Session 3	July 8, 2022	46
AMEEP PC&IP Webinar Session 4	September 19, 2022	66
AMEEP PC&IP Webinar Session 5	December 9, 2022	49

4.4 Continuous Stakeholder Input and Integration

At LMI JMC meetings and applicable working groups, the Program Administrators regularly share, discuss, and integrate stakeholder input. Further, the Program Administrators are regularly engaging with stakeholders through the administration of current programs; feedback received during such engagement is raised and discussed at the LMI JMC and/or appropriate working groups.

5. 1-4 Family Homes

5.1 Program Summary

In 2022 the EmPower NY,⁴⁰ AHP, and HEAT programs were administered, providing energy efficiency services to LMI households in 1-4 Family homes.⁴¹ The Program Administrators expended approximately \$94 million on 1-4 Family homes initiatives in 2022, serving over 19,200 households and achieving over 5,110 annual MWh savings and over 279,000 annual MMBtu savings. EmPower and AHP exceeded most

³⁸ <https://www.nyserda.ny.gov/All-Programs/Low-to-moderate-Income-Programs/LMI-Stakeholder-Resources-New-Efficiency-New-York>

³⁹ NE: NY Proceeding, Statewide Low- to Moderate-Income Portfolio Stakeholder Webinar, December 15, 2022 - Summary Report, (filed January 19, 2023).

⁴⁰ Through the end of 2020, NFGDC’s low-income energy efficiency program was called the Low income usage reduction program (“LIURP”). As of January 1, 2021, NFGDC’s program has become the EmPower NY program, consistent with the other New York utilities.

⁴¹ Eligibility for the LMI programs is set as follows: households with annual income below 60% of the State Median Income (“SMI”) meet the low-income threshold; while households with annual incomes over 60% of SMI up to 80% of the Area Median Income (“AMI”) or SMI, whichever is greater, meet the moderate-income threshold.

2022 projections, including doubling the number of homes served through AHP. The HEAT program also exceeded the 2022 projections for energy savings and households served.

5.1.1 EmPower NY and AHP

EmPower NY provides no-cost energy efficiency services to low-income households in utility service territories that pay into the System Benefits Charge with funding through the CEF and NE: NY order. The AHP program provides incentives that cover up to 50% of the cost of an energy efficiency retrofit, up to \$10,000, for moderate-income households with funding through CEF. In 2022, 11,343 households were served through the EmPower NY program with CEF funding, saving an average of \$347 annually per participant; while 2,582 households received services under AHP, saving an average of \$278 annually per participant. The EmPower and AHP programs expended \$63 million in CEF-funded incentives, achieving 3,983 annual MWh savings and 216,663 annual MMBtu savings. In 2022, 6,304 households were served through the EmPower NY program with NE:NY funding, saving an average of \$108 annually per participant. The EmPower program expended \$20 million in NE:NY-funded incentives, achieving 1,132 annual MWh savings and 62,349 annual MMBtu savings.

The EmPower NY program has continued its work to streamline services and gain efficiencies through consolidation with the Assisted Home Performance moderate income program. After intensive planning and stakeholder engagement, the two programs launched the Combined Application⁴² in July 2021, which enabled a customer to apply for energy efficiency services on one application and be directed to the appropriate income-based incentive level. Combined Applications can be submitted either online through NYSERDA's application portal or with a paper application available in 11 languages. Since launching, the program has received over 75% of the applications online, creating efficiencies and reducing administrative burden. Geo-eligibility was also launched for program applicant qualification with the Combined Application. With this technique, families that live in 1-4 Family homes in identified low-income census tracts are automatically qualified for EmPower incentives and do not need to present income documents when applying for the program. To date, 17% of program applications have been approved using geo-eligibility.

By Q1-2022, NYSERDA executed Agreements with the Utilities to administer \$20.6M in NENY funding directly through the EmPower program. These agreements last through 2025. The 1-4 family working group focused heavily on several tasks, including:

- Enhancements to the program application language
- Collaboration and development of consistent measure-level monthly data reporting
- Improved alignment of utility's customer referral transfer
- Testing and analysis of utility-driven outreach strategies to customers.

In March 2022, the programs made changes to further align the EmPower and Assisted Home Performance programs in preparation for the launch of EmPower+ in the spring of 2023. The focus of these changes expanded no-cost direct installation to Moderate Income households and further aligned program measures, forms, modeling tools, and processes so that Empower and Assisted Home

⁴² <https://www.nyserdera.ny.gov/ahp-empower>

Performance would operate by a standard set of rules. Coordinating the programs will streamline project submission and approval, making it easier for contractors to operate in the programs. The EmPcalc modeling tool used by each program was brought into alignment with the TRM energy savings calculations so savings calculations would be applicable across programs. Cost-effectiveness tests were moved from the measure to the project level, allowing a more global approval of projects to help achieve more comprehensive projects to make homes more climate-friendly. Heat Pump Water Heaters were added as the preferred water heating measure, and incentives for fossil fuel heating and water heating measures were capped at \$4,000 for low-income projects. Taken in totality, these program changes will help the program to meet the goals of New York's Climate Act and Scoping Plan.

In 2022 NYSERDA also received \$26 million in American Recovery Act funding and \$10.8 million in Home Energy Assistant Program ("HEAP") funding from Office of Temporary and Disability Assistance ("OTDA") to further the assistance of energy-burdened families with weatherizing their homes. This money will be used on projects through 2022 and 2023. Additional OTDA funding is expected in early 2023. Funding from OTDA goes directly to homeowners who have participated in the HEAP energy assistance program during the funding program year.

5.1.2 Home Energy Affordability Team (HEAT)

In 2022 National Grid administered the EmPower Replacement Program in their Long Island territory, marketed under the brand name "Home Energy Affordability Team" (HEAT) program. It was designed to align with the EmPower NY program closely. The HEAT program provides gas energy efficiency and health, safety and resiliency measures to customers. Due to the impacts of the COVID-19 pandemic, National Grid began offering remote energy audits and quality assurance/quality control visits.

In early 2022, the HEAT program launched a pilot for moderate-income incentives. The incentives are provided on a sliding scale based on income. Income is determined based on the utility bill account holder, and the incentives are as follows:

- 75% work scope covered for customers at 61-70% AMI
- 50% work scope covered for customers at 71-80% AMI
- 25% work scope covered for customers at 81-99% AMI

Once the moderate-income pilot has spent a year in the market the National Grid team will analyze the performance to share lessons learned with the LMI JMC and 1-4 Family Working Group.

National Grid, through their Implementing Contractor, provided energy efficiency services to over 560 households, providing prescriptive measures and custom health and safety for 561 completed work scopes in 2022, delivering an estimated savings of 20,233 MMBtus.

5.2 Program Implementation Milestones

With the approval of the 2020 Implementation Plan, the Program Administrators began working to: redesign the EmPower NY program to provide a more streamlined process for service providers and customers; develop a no-cost direct install component available to moderate-income customers; align eligible measures; and streamline and improve the application and intake process, which includes strengthening the identification and enrollment of eligible customers from the Utilities to NYSERDA.

Progress on the implementation milestones identified in the 2022 Implementation Plan include the information in the following table.

2022 Milestone from the 2022 Implementation Plan ⁴³	Status
<ul style="list-style-type: none"> Improve coordination with other programs (e.g., HEAP and WAP) 	<p>In Progress</p> <ul style="list-style-type: none"> In 2022, NYSERDA received \$36.8M in HEAP/APRA funding from OTDA to administer incentives through EmPower+. Additional allocations are expected in early 2023.
<ul style="list-style-type: none"> Enhance effectiveness of the EmPower referral process and improve customer conversion rate by conforming to consistent data file submission to NYSERDA 	<p>Completed</p> <ul style="list-style-type: none"> Enhanced customer application attestation language, making data sharing between PAs consistent and easier. Each utility provides customer referrals to EmPower in a consistent data template. All Utilities provide the necessary data to complete customer application mailings and provide monthly usage information. Secondary data points such as email address, phone number, months in arrears, are not provided consistently across the board. Each utility filters referrals prior to sending, prioritizing high needs and highest energy users.
<ul style="list-style-type: none"> Identify ways to enhance or add measures to the existing EmPower offerings, particularly for gas savings 	<p>Completed</p> <ul style="list-style-type: none"> No-cost Direct Install measures available to Moderate Income households. Aligned EmPower and Assisted Home Performance eligible measures list. Ended incentives for converting clothes dryers and DHW to natural gas.
<ul style="list-style-type: none"> Contract for new program workflow software and implementation support services 	<p>In Progress</p> <ul style="list-style-type: none"> Completed: A contract for a single workflow for the combined EmPower/AHP workflow (EmPower+) was contracted in Fall 2022, with a scheduled transition to the new platform planned for April 2023. The existing implementation contracts are scheduled to end in December 2023. A competitive solicitation will be issued to select the next round of implementation services starting in Fall 2023, allowing time for transition, if necessary.

⁴³ In general, milestones identified throughout this Annual Report are from the August 15, 2022, Implementation Plan filing. Where milestones were added or updated in the November 22, 2022, filing, it is indicated by an explanatory footnote.

<ul style="list-style-type: none"> • Increase awareness, community outreach and education through coordination with the new Clean Energy Hubs and existing utility outreach programs. 	<p>In Progress</p> <ul style="list-style-type: none"> • Clean Energy Hubs are under contract and initial introduction to the Outreach subcommittee is complete. • In early 2023, individual meetings between utility representatives and local Hubs are underway with a focus on coordination of services. • In Fall 2022, the Utilities completed an electronic communication outreach plan targeting referred customers with a follow up email to drive application submissions. Open rates and click throughs exceeded industry standards.⁴⁴ • In 2023, the 1-4 family working group will work to expand on these efforts by building better customer profiles to seek better participation rates, enhancing the application landing page, and testing other utility outreach strategies focused on referrals.
<ul style="list-style-type: none"> • Work with NYS Clean Heat Joint Management Committee (JMC) to streamline customer access to both NYS Clean Heat and EmPower with appropriate affordability protections 	<p>In Progress</p> <ul style="list-style-type: none"> • Process reviews specific to (installation) contractor coordination is underway with LMI JMC. • Draft action plan to be submitted to joint LMI and Clean Heat JMCs by the end of Q2 2023
<ul style="list-style-type: none"> • Outline and seek input on a plan to phase out support for fossil fuel fired equipped in Green Jobs Green New York (GJGNY) audits, financing, and LMI programs to align with Climate Act while preserving energy affordability. 	<p>Completed</p> <ul style="list-style-type: none"> • Capped incentives for like for like replacement fossil fuel heating equipment at \$4,000 • Discontinued conversion of oil heating, hot water heaters, and appliances to natural gas.

⁴⁴ The utilities that participated in this effort (Central Hudson, Con Edison, NFGDC, National Grid, NYSEG and RG&E) tested three different email messages which resulted in average open rates of 42.39%, 35.11%, and 40.07%, respectively, and average click-through rates of 2.9%, 3.25%, and 4.33%, respectively.

5.3 Budgets, Targets, and Metrics

The budgets, targets, and metrics below reflect program spend for the 1-4 Family Homes portfolio.

Metric	2022 Achieved	2022 Implementation Plan Projection ⁴⁵	2022 Achieved to 2022 Implementation Plan Projection Variance	2020 - 2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$93,959,522	\$66,845,552	\$25,852,270	\$221,815,680	\$265,677,449	83%
MWh Annual	5,115	6,521	(1,407)	12,789	28,406	45%
MWh Lifetime	77,638	99,242	(21,604)	183,760	438,204	42%
MMBtu Annual	279,012	242,575	36,438	702,304	1,114,316	63%
MMBtu Lifetime	6,659,737	5,852,541	807,196	16,973,076	26,407,404	64%
CO2e Emission Reduction (metric tons) Annual	17,896	17,057	840	44,916	72,983	62%
CO2e Emission Reduction (metric tons) Lifetime	413,330	385,773	27,557	1,040,422	1,623,990	64%
Participant Bill Savings Annual	\$3,762,635	\$1,788,392	\$1,974,243	\$9,982,970	\$8,174,404	122%
Participant Bill Savings Lifetime	\$86,570,527	\$42,843,563	\$43,726,964	\$228,216,063	\$192,464,652	119%
Participants	19,209	18,064	1,240	51,492	101,596	51%
Leveraged Funds	\$10,022,200	\$12,374,611	\$(2,352,411)	\$50,714,924	\$65,101,047	78%

5.4 Findings & Planned Improvements

NYSERDA worked with each utility to execute agreements to administer utility funding through EmPower. This allows for a streamlined administrative approach, centralized program implementation, and mitigating customer confusion. Funding allocated for 2022 but not spent was rolled forward to be administered in future years.

NYSERDA and the Utilities are working to improve outreach and program design and have committed to meeting bi-monthly during the first full year of implementation. Enhanced referrals from the Utilities identifying high energy use, low-income customers, are a priority. Enhanced referrals are a focus for the EmPower workstream, including utility facilitation of customers to the online EmPower application and the use of referral codes to measure the success of outreach efforts. In 2023, the Program Administrators will leverage the materials developed and lessons learned from their 2022 test campaign of three email message alternatives to support referrals.

⁴⁵ NE: NY Proceeding, August 15, 2022 Implementation Plan, Appendix C.

In addition, the working group established priorities for 2023 to further program efficiencies and better align program activities and impact with the Climate Act and Scoping Plan.

In 2023, NYSERDA will launch a new project management system, NY Home Energy Portal, that will serve as the basis for the final transformation to the EmPower+ program by uniting the implementation of low- and-moderate-income projects into one program with a single application, set of program rules, and administration. The streamlining and automation provided by the new system will greatly help the program as it prepares for the influx of IRA funding and other funding that will help the program increase the number of homes served towards Governor Hochul's goal of 2 Million Climate-Friendly Homes by 2030. Combining EmPower and AHP into one program, EmPower+, will reduce market confusion, streamline messaging, and reduce the administrative burden for program staff, contractors, and outreach organizations.

In late Spring of 2023, the moderate-income pilot from the HEAT program will have reached one full year in the market. At this point, the National Grid team will analyze the performance of the tiered incentive pilot and provide lessons learned back to the JMC for consideration in future program design.

6. Existing Affordable Multifamily Buildings

6.1 Program Summary

Affordable multifamily housing is a key component of the Statewide LMI Portfolio, as a large proportion of LMI customers in New York State live in multifamily buildings. Improving the performance and sustainability of affordable multifamily housing will benefit disadvantaged communities, as required by the Climate Act. As directed in the 2020 NE: NY Order, at least 40% of the portfolio's incremental energy efficiency funds must be directed to affordable multifamily initiatives through 2025.⁴⁶

The Affordable Multifamily Energy Efficiency Program (AMEEP) represents a significant step in the development of the Statewide LMI Portfolio. It provides a consistent framework across the state whereby all existing affordable multifamily building owners, developers, and their representatives have access to enhanced financial incentives for energy efficiency upgrades. AMEEP includes a technical assistance offering, which helps building owners inform capital planning to achieve greater energy efficiency savings. AMEEP's design reflects key portfolio objectives of helping affordable multifamily buildings reduce energy use and costs, increasing operating efficiency and tenant comfort, and contributing to the State's carbon reduction and climate goals. AMEEP launched in late 2021, so the 2022 program year was its first full year in the market. In 2022, the Program Administrators expended approximately \$34 million on Existing Affordable Multifamily Building projects, serving over 81,000 dwelling units and achieving approximately 14,000 annual MWh savings and 456,400 annual MMBtu gas savings. Concurrent with AMEEP, through its

⁴⁶ NE: NY Proceeding, 2020 NE: NY Order, p. 93. As is noted in the August 15, 2022 Implementation Plan, 53% of total Portfolio budgets and 66% of total incremental energy efficiency budgets were allocated to the affordable multifamily market segment. In 2022, approximately 15% of total Portfolio funding and 50% of NE: NY LMI Ordered Funds for 2022 went to multifamily initiatives. The Program Administrators will manage budgets such that at least 40% of incremental funding is directed to affordable multifamily initiatives over the course of 2020-2025, as directed by the 2020 NE: NY Order.

Existing Multifamily Initiatives, NYSEDA continued its work with Housing Agencies, partnering with HCR and NYC HPD to build capacity.

The sections below describe the multifamily programs in the market during 2022. These initiatives and programs reflect the objectives identified for this segment, which include addressing cost barriers experienced by owners of affordable multifamily buildings, increasing awareness of energy efficiency among tenants and building owners, providing a simplified experience to navigate offerings, and addressing the barrier of split incentives between owner and tenant.⁴⁷

6.1.1 Affordable Multifamily Energy Efficiency Program (AMEEP)

AMEEP is the statewide LMI multifamily program designed and managed collaboratively by the Program Administrators, offering incentives for the installation of energy-efficient equipment and technology in existing affordable multifamily housing. The Program Administrators began accepting applications through AMEEP in November 2021. In 2022, the Program Administrators expended approximately \$25.5 million on projects through AMEEP, serving over 78,000 dwelling units and achieving 7,240 annual MWh savings and 353,931 annual MMBtu gas savings.

AMEEP Design

The core focus of AMEEP is to maximize energy savings and lower costs to tenants and owners of affordable multifamily buildings by encouraging comprehensive building upgrades while providing project flexibility. AMEEP includes two program pathways: (1) a “Comprehensive Pathway,” which encourages whole-building energy retrofits; and (2) a “Non-Comprehensive Pathway” for customers who are interested in smaller, measure-level upgrades. Utilities fund the measure installation incentives for AMEEP and serve as the main point of contact for customers applying to the program.

AMEEP also includes streamlined, uniform application materials for the Comprehensive and Non-Comprehensive Pathways to simplify participation for program applicants across the state. The materials include a single “Program Manual,” customer application, contractor application, contractor agreement letter, and incentive fact sheet.⁴⁸ Throughout 2022, updates have been made to the program documentation to clarify program requirements and processes and advance the streamlined customer journey.

Before publishing updates to the Program Manual, the Program Administrators hold a PC&IP webinar to describe the planned changes and hear feedback from contractors and/or other industry partners. In the beginning of 2022, the Program Administrators also held a webinar mid-quarter to check in with the contractors and answer questions on the program process. In 2022, the Program Administrators held five PC&IP webinars with approximately 300 total participants, as seen in [Table 5](#) above. Topics for 2022 webinars included Program Manual changes, trainings on program documentation requirements, trainings on the process flow for comprehensive projects between technical assistance from NYSEDA and the utility Implementation Contractor, the benefits of pursuing a comprehensive project, and more. The Program Administrators find the PC&IP webinars useful and will continue them into 2023. The

⁴⁷ NE: NY Proceeding, 2020 Implementation Plan, p. 26.

⁴⁸ <https://www.nyserda.ny.gov/All-Programs/Low-to-moderate-Income-Programs/LMI-Stakeholder-Resources-New-Efficiency-New-York/NYS-Affordable-Multifamily-Energy-Efficiency-Program>

cadence for these webinars will be like 2022; a session will be held before the release of the next Program Manual update, and any ad hoc sessions may be scheduled as needed.

The Program Administrators frequently met through 2022 to align program administration and develop collaboration opportunities. For example, the Program Administrators frequently meet as a group with the program Implementation Contractors to develop Program Manual changes consistently and resolve any questions regarding possible project scopes of work. In areas where there is overlap in service territories, such as in upstate New York with National Fuel Gas, National Grid, and NYSEG RG&E or in downstate New York with Con Edison and National Grid, the Program Administrators meet frequently to discuss overlapping pipeline, and align on issuing single Preliminary Offer Letters or Notices to Proceed to the customer. In 2022, the Program Administrators produced new marketing collateral for program outreach, such as digital one-pagers on AMEEP and printed tri-fold versions for upstate and downstate NY.

In downstate New York where the 2022 AMEEP pipeline was strongest, Con Edison and National Grid worked to develop additional resources. For example, the utilities created a detailed downstate NY Submission Guide to help energy service providers and contractors navigate the program requirements, and a comprehensive project calculation tool. In 2023, the Program Administrators will continue to explore opportunities for increasing program process alignment in overlapping service territories.

Transition to AMEEP from the Multifamily Performance Program (MPP)

NYSERDA and the Utilities coordinated a statewide transition as MPP wound down and AMEEP was launched. NYSERDA and the Utilities organized a strategic overlap period of three months in which both MPP and AMEEP were operational, allowing the market sufficient time to submit final MPP project applications and adjust to the new AMEEP structure. MPP's last day accepting applications was February 4, 2022, and NYSERDA is allowing projects that applied to MPP to continue in that program through project completion. As part of the transition, the Program Administrators also developed criteria and processes that allowed certain customers who had already applied to MPP the option to switch to AMEEP. Effective communication was provided to the multifamily customer base and service providers about the transition to guide them through the process. MPP has approximately 30 projects that are still eligible to transition to AMEEP. All MPP projects are expected to have approved scopes of work by the end of June 2023, and transfers from MPP to AMEEP should be completed before then.

6.1.2 Con Edison Programs and Community Partnerships

In 2022, Con Edison operated new multifamily initiatives, coordinated with NYC HPD and NYCHA, and solidified partnerships with community-based organizations such as the Urban Homesteading Board ("UHAB").

AMEEP Eligibility Screener

Con Edison launched an Eligibility Screener initiative in July 2022 to fast-track AMEEP customer eligibility by eliminating the need for affordable housing documentation for non-comprehensive electric projects. Con Edison developed an online screener tool that identifies whether a multifamily building is affordable housing based on customer address or Con Edison account number. If the building qualifies as affordable housing, the customer can download a pre-approval letter and submit it as part of their AMEEP

application package in lieu of regulatory agreement, public subsidy, or rent roll documentation. In 2022, the pre-approval letter from the LMI screener was used in 26 completed projects.

Electric Geotargeting Initiative

Con Edison conducted an electric geotargeting initiative in 2021 in Bronx Community District 4 to test methods of determining affordability eligibility other than supporting documentation. The goal was to understand the degree to which the removal of this step in the application process would increase AMEEP program participation. 119 projects completed in 2021, compared to 10 in 2020, showing a significant increase. Con Edison distributed a participant survey in 2022 to audit the initiative's performance and understand the affordability status of participating buildings. The response rate was low, but respondents supported the initiative and confirmed that their participating buildings were affordable. Going forward, Con Edison will apply these learnings as future geotargeting opportunities are considered.

NYC HPD

Con Edison launched an initiative through AMEEP in partnership with NYC HPD and New York City Accelerator to help buildings identify and install the prescriptive energy conservation measures required by LL97. Con Edison and NYC HPD co-developed the prescriptive measure package for NYC HPD asset managed buildings greater than 25,000 square feet. Con Edison provides incentives on a dollar-per-dwelling unit basis based on the building's vintage. NYC Accelerator leads outreach efforts for this initiative by engaging directly with building owners. Participation in the program has been limited thus far. Con Edison plans to examine barriers to participation and further develop the program to increase project enrollment.

Relatedly, Con Edison continued its partnership with NYC HPD and NYSERDA on the Retrofit Electrification Pilot, which aims to reduce barriers to electrification adoption in existing affordable multifamily buildings by increasing retrofit opportunities in the NYC HPD Preservation pipeline. Con Edison provides project scope support, electrical service upgrade coordination with internal departments, and will coordinate program incentives to fill funding gaps for these projects.

NYCHA

Con Edison continues to meet regularly with NYCHA to provide additional AMEEP project support and worked with NYCHA to complete seven projects in 2022.

Community Based Partnerships

From 2021 through 2022, Con Edison partnered with a community-based organization in NYC, UHAB, to drive customer participation in AMEEP and for Con Edison and UHAB to promote, jointly, the benefits of energy efficiency with LMI customers. UHAB is an organization that works with, and advocates for cooperative buildings incorporated as Housing Development Fund Corporations (HDFCs) that own properties and provide affordable housing to low- and moderate-income families. Throughout the partnership, UHAB is credited with driving the completion of 25 non-comprehensive projects during the initial agreement, 10 of these projects were completed in 2022. Con Edison and UHAB are working toward developing a continued partnership agreement that is anticipated to be finalized in the spring of 2023.

Additionally, Con Edison works with Kinetic Communities Consulting (“KC³”), a women-and minority-owned business and certified social enterprise Benefit Corporation, on AMEEP. Con Edison collaborated with KC³ throughout 2022 to facilitate the alignment of NYC HPD design guidelines with minimum AMEEP installation requirements. KC³ supports Con Edison by facilitating complementary AMEEP referral partnership opportunities with UHAB and the Association of Neighborhood and Housing Development (“ANHD”), a coalition of community-based groups across New York City.

6.1.3 Technical Assistance for Affordable Multifamily Buildings

In November 2019, the NYSERDA Flexible Technical Assistance Program (FlexTech) extended its services to multifamily buildings in PON4192, and funding was approved in the Statewide LMI Portfolio Implementation Plan in September 2020. Technical assistance helps building owners plan projects to achieve greater energy efficiency savings and simultaneously maximize program incentive opportunities. The program was initially available to both market-rate and affordable multifamily housing. The initial affordable multifamily housing projects were projects that also planned to conduct implementation through the Multifamily Performance Program, which was used as the proxy for verifying affordability. FlexTech services generally consist of comprehensive energy studies and targeted energy studies that NYSERDA provides a 50% cost share.

In June 2021, the Low Carbon Capital Planning Support program (“LCCP”) was launched as a primary service of FlexTech for multifamily buildings. LCCP follows the FlexTech delivery model, but the projects must also include an assessment of electrification or electrification-ready measures. LCCP requires that a final report supplement be used to generate a capital plan for the building owner in addition to the traditional FlexTech deliverables of a final report and project summary sheet showing all potential measures and projected energy and cost savings. LCCP offers a 75% cost share.

In February 2022, FlexTech updated its PON4192 which adjusted the eligibility of multifamily buildings for the different FlexTech services. This PON update prepared guidelines to receive affordable housing verification documentation through a Seamless application.⁴⁹ This Seamless application has streamlined the process for verifying housing as affordable and facilitated affordable housing participation in LCCP and other FlexTech services. This PON update also established a cost-share adder for affordable multifamily projects to receive up to 75% cost share if they participate in AMEEP’s comprehensive pathway. The energy audit from FlexTech is used to identify energy efficiency opportunities and develop an initial scope of work for comprehensive projects in AMEEP. FlexTech projects that received a 50% cost share and apply to AMEEP and receive a Preliminary Incentive Offer Letter from AMEEP will receive an additional 25% cost share from NYSERDA. NYSERDA also oversees workforce development and the training of energy service providers in the FlexTech Consultant and Multifamily Building Solutions Networks. In 2022, 38 existing affordable multifamily projects received a FlexTech audit.

6.1.4 Multifamily Performance Program (MPP)

In December 2020, NYSERDA launched the Heat Pump Demonstration Study under MPP. The Study aims to provide proof points of heat pump installations in existing multifamily building retrofits, understand the market and technical barriers to these installations in affordable multifamily buildings, and inform future program design. Under this Study, \$5 million has been provided in incentives for MPP projects with heat pumps in their work scopes. The heat pumps must meet the technical requirements of the NYS

⁴⁹ <https://nyserda.seamlessdocs.com/f/AffordabilityVerification>

Clean Heat Program. A project approved for the Study is eligible to receive incentives from MPP, the NYS Clean Heat Program, and the Study. The Study provides two types of incentives on a per dwelling unit basis – an incentive for installing approved heat pump equipment and an incentive for electric service upgrade, if deemed necessary for the building. As of the end of 2022, there are currently 23 MPP projects enrolled in the Heat Pump Demonstration Study program, and of those, three projects have completed construction. A dozen of the projects have approved scopes of work, and the remaining scopes of works are under review. The Heat Pump Demonstration Study also requires projects to submit deliverables to assess electrical panel needs and asks building owners to confirm that they will keep rents affordable in consideration of the upgrade.

Lastly, NYSERDA supports the adoption of Integrated Physical Needs Assessments (“IPNA”) under the MPP umbrella. The IPNA Management Committee, composed of representatives from NYC HPD, NYC Housing Development Corporation (“NYC HDC”), and HCR, continued to meet throughout 2022 and finalized updated versions of the IPNA Tool, the IPNA Standard and the IPNA Provider Request for Qualifications (“RFQL”). The latest versions of the Tool and Standard were released in February 2023 and were available to IPNA Providers for 30 days for comments. The IPNA Provider RFQL was previously released in 2020, and a new list of pre-qualified IPNA Providers was announced on December 7, 2021. A new IPNA Provider RFQL was released in February 2023 and will be open for new provider proposals until March 31, 2023.

MPP closed to new applications on February 4, 2022, due to the following the launch of AMEEP. MPP projects may transfer to AMEEP provided they did not receive incentives from NYSERDA. As a result, approximately 30 MPP projects are planning to transfer or have already transferred to AMEEP.

6.1.5 RetrofitNY

In 2018, under the first RetrofitNY pilot round, NYSERDA selected six design-build teams to each design a retrofit solution for a specific building. All designs were completed in 2019, and the first pilot project started construction in mid-2019. RiseBoro Community Partnership owns the project, part of the Casa Pasiva development. The design team was led by Chris Benedict, R.A. HCR, NYC HPD and NYSERDA financed the project. The construction faced some delays due to COVID-19 and was completed in November 2022. Two selected teams under round-1 are also working toward starting construction in 2023. In addition, NYSERDA released a round-2 solicitation in November of 2021 totaling \$5 million. The first project is in the feasibility phase, hoping to continue into the design stage in 2023.

In 2021, the program also worked with NYCHA to select a design team for the first RetrofitNY-style project funded by NYCHA. NYSERDA collaborated with NYCHA on a Request for Proposal (“RFP”) issued by NYCHA in January 2020 to select a design team. Before issuing the RFP, NYSERDA released a Request for Qualification (RFQL) and selected teams eligible to respond to NYCHA’s RFP. The design team was selected at the end of 2020, and a Request for Quote (“RFQ”) was issued by NYCHA in Q3 2022. Bids came back higher than budgeted and the designs were revised, with NYCHA expected to release a new RFQ in mid 2023, and construction is anticipated to start by end of 2023.

Additionally, the program made substantial progress on demand aggregation and industry engagement. NYSERDA continued to spur adoption of the RetrofitNY Pledge, a formal call to action signed by building owners to help motivate manufacturers to make cost-effective, high-performance building solutions more affordable and accessible. The Pledge enables building owners to use their collective buying power, at no risk to themselves, to urge manufacturers to introduce new retrofit solutions into the market. To date, the Pledge has aggregated over 416,000 units of affordable housing. NYSERDA also released several

innovation solicitations to support industry players in creating new types of mechanical systems and offsite-manufactured envelope panel systems, accelerate innovation, and rapidly reduce the cost of deep energy retrofits.

NYSERDA has released a series of rolling Requests for Qualifications in March 2021 to qualify teams for participation in future RetrofitNY funding rounds. The Solution Provider RFQL solicited responses from companies with the capabilities necessary to develop a scalable deep energy retrofit solution applicable across buildings of a similar typology and deliver the project using a more cost-effective process than a conventional construction firm. Seven companies were qualified as Solution Providers and entered numerous partnerships, made substantial investments, and acquired key capabilities on the path to delivering to market a cost-competitive deep energy retrofit solution. The qualified Solution Providers and their partners also submitted proposals for novel technologies capable of reducing installation costs to NYSERDA's NextGen HVAC PON 3519. Through a Participation Agreement, the qualified Solution Providers also agreed to disclose information about cost drivers behind the solution and plans to reduce those costs, including entering into long-term agreements with manufacturers to deliver fast pricing information to building owners.

6.1.6 NYSERDA Partnerships with Affordable Housing Agencies

In 2022, the Program Administrators made significant progress in building partnerships with state and local affordable housing agencies and public housing authorities, which in turn continued to demonstrate vital leadership on climate action and building decarbonization. NYSERDA and HCR announced a transformative partnership called the Clean Energy Initiative ("CEI"), providing CEF funding to create state-of-the-art all-electric affordable homes and creating streamlined access to technical assistance and electrification funding integrated directly into HCR's affordable housing finance applications.

The CEI launched in 2021, starting with affordable new construction and adaptive reuse projects and expanded to encompass existing affordable multifamily retrofits in 2022. In 2022, NYSERDA committed \$25 million to HCR to be awarded under HCR's 9% and 4% financing RFPs, and seven new construction projects were selected.

In a similar effort, NYSERDA also partnered with NYC HPD to create the Retrofit Electrification Pilot, with NYSERDA providing \$24M to support space heating and cooling and/or domestic hot water electrification for existing multifamily building rehabilitation projects in NYC HPD's preservation programs and bring the comfort and health benefits of electrification to roughly 1,200 LMI households. These partnerships demonstrate scalable models for integrating efficiency and electrification technical assistance and incentives into affordable housing refinancing by giving owners direct access to decarbonization resources and funding as part of their refinancing process. In 2022, NYC HPD and NYSERDA selected six projects to receive incentives for space heating electrification scopes.

In 2021, NYSERDA also joined forces with the NYCHA -- the largest public housing authority in the country and the largest landlord in New York City -- and NYPA to create the Clean Heat for All Challenge, a heating and cooling industry competition to create a packaged, cold climate heat pump that can be mounted in a window opening and provide comfortable, efficient heating and cooling to NYCHA residents on a room-by-room basis. The partnership leverages RGGI funding and technical assistance from NYSERDA, NYPA's

procurement vehicle and project management, and NYCHA’s portfolio size and funding commitment to invest \$70M in a proven solution to advance their electrification agenda.

Consequently, NYSERDA, NYPA, and NYCHA issued an RFP soliciting the window heat pump solution at the end of 2021. In Q1 of 2022, the three authorities received responses to the RFP, hosted a scoring committee, and evaluated the proposals. In August of 2022, Governor Hochul, Mayor Adams, and executives from NYSERDA, NYCHA, and NYPA announced the selection of two manufacturers, Gradient and Midea, to be awarded purchase orders of 10,000 and 20,000 window heat pumps, respectively.

Additional partnerships with housing agencies by Con Edison are outlined in [Section 6.1.2](#).

6.2 Program Implementation Milestones

6.2.1 Statewide Existing Affordable Multifamily Program

The chart below outlines the implementation milestones from the 2022 Implementation Plan that the JMC targeted for completion in 2020 and 2021, as well as progress towards achieving those milestones.

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> Identify additional areas to streamline administration of program 	<p>Continuous</p> <ul style="list-style-type: none"> The status for this milestone is updated to ‘Continuous’ as this will continue to be a focus and goal of the program. In 2022, the Program Administrators continued to streamline the program by making updates to relevant program documents and processes as described in the AMEEP design section above
<ul style="list-style-type: none"> Expand direct funding partnership between NYSERDA and HCR to serve affordable housing new construction and preservation 	<p>Complete</p> <ul style="list-style-type: none"> Refer to Section 6.1.6
<ul style="list-style-type: none"> Develop Program Administrator processes for statewide operations of AMEEP (e.g., document updates) and launch webinar series to engage Participating Contractors and Industry Partners by Q2 	<p>Complete</p> <ul style="list-style-type: none"> The PC&IP webinar series was launched in April 2022 and will continue through 2023. The Program Administrators also follow consistent process guidelines for the webinars and document updates, the timeline around providing NYSERDA the updated documents to be uploaded to the AMEEP Resource page⁵⁰.
<ul style="list-style-type: none"> Coordinate AMEEP incentives with NYS Clean Heat and align release to market with NYS Clean Heat announcement cycles for program changes 	<p>In Progress</p> <ul style="list-style-type: none"> The LMI JMC has been working closely on this topic over the last year and has focused on ways to protect tenants from any undue cost shifts that may occur when electrifying building heat. Work

⁵⁰ <https://www.nyserdanyc.gov/All-Programs/Low-to-moderate-Income-Programs/LMI-Stakeholder-Resources-New-Efficiency-New-York/NYS-Affordable-Multifamily-Energy-Efficiency-Program>

	is ongoing in this area with DPS Staff and will be included in conversation around the EE/BE Report
<ul style="list-style-type: none"> • NYSERDA to support housing agencies in development of sustainability/design guidelines for efficient, all-electric new construction and retrofit projects 	<p>Complete</p> <ul style="list-style-type: none"> • HCR has completed and released guidelines. NYC HPD has released existing buildings guidelines and will release new construction guidelines in Q2 2023
<ul style="list-style-type: none"> • A partnership between NYSERDA, NYPA, and NYCHA issued Clean Heat for All packaged window heat pump RFP 	<p>Complete</p> <ul style="list-style-type: none"> • Issued Clean Heat for All RFP in Q4 2021
<ul style="list-style-type: none"> • NYSERDA, along with NYCHA and NYPA, select winning manufacturer(s) that responded to Clean Heat for All packaged window heat pump challenge RFP 	<p>Complete</p> <ul style="list-style-type: none"> • Manufacturers were selected in Q3 2022, with awards announced by Gov Hochul and Mayor Adams in August 2022
<ul style="list-style-type: none"> • NYSERDA provided technical assistance and staffing resources to assist with capacity-building at HCR and NYC HPD 	<p>Complete</p> <ul style="list-style-type: none"> • NYSERDA-funded technical assistance contractors are engaged to provide agency and project-level support through 2027

6.2.2 Technical Assistance for Affordable Multifamily Buildings

Technical assistance helps building owners inform capital planning to achieve greater energy efficiency savings and simultaneously maximize program incentive opportunities. As noted above, technical assistance through NYSERDA’s FlexTech program is a key component of AMEEP. In addition, FlexTech operated in 2021 prior to AMEEP’s launch and continues to operate as a standalone program in addition to supporting AMEEP. Additional information on FlexTech in 2022 is provided below.

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> Update program eligibility to increase access in disadvantaged communities 	<p>Completed</p> <ul style="list-style-type: none"> Q1 2022 – NYSERDA PON updated to require affordable housing documentation Q2 2022 – NYSERDA developed process to capture affordable housing documentation
<ul style="list-style-type: none"> Engage with HCR colleagues, affordable housing owners, and developers to refine integration of technical assistance within housing financing application processes 	<p>In Progress</p> <ul style="list-style-type: none"> Q2 – Q4 2022 – NYSERDA worked with stakeholders to understand how FlexTech and IPNA processes and deliverables align Q2 2023 – NYSERDA plans to release guidance on how the programs align to streamline program deliverables
<ul style="list-style-type: none"> Encourage energy service providers to include electrification and/or electrification readiness as part of any subsidized technical assistance scopes to support long-term decarbonization efforts 	<p>In Progress</p> <ul style="list-style-type: none"> Q2 2022 – NYSERDA Completed an analysis of FlexTech reports with heat pumps Q3 2022 through Q4 2023 – NYSERDA has worked through recommendations stemming from the analysis Q1 2023 – NYSERDA hosted an ASHRAE webinar on heat pump technology for energy service providers. Q2 2023 – NYSERDA has planned for an additional ASHRAE webinar. Q3 2023 – NYSERDA to release guidelines for electrification assessments in FlexTech projects
<ul style="list-style-type: none"> Added non-CEF funding to enable comprehensive projects going through AMEEP that do not pay into electric SBC to participate in FlexTech aligning FlexTech’s eligibility criteria with AMEEP’s eligibility criteria. 	<p>Complete</p> <ul style="list-style-type: none"> Q4 2022 – NYSERDA updated the PON included this opportunity.
<ul style="list-style-type: none"> Exempted buildings that had less than \$100,000 in annual energy expenditure from a cap on NYSERDA cost share based on annual energy expenditure enabling smaller buildings to receive more cost share. 	<p>Complete</p> <ul style="list-style-type: none"> Q1 2022 – Exemption went into effect with NYSERDA PON updates

6.3 Budgets, Targets, and Metrics

The savings, budgets, and acquired savings broken out by project types reported for 2022 existing affordable multifamily initiatives are described below. In 2022, AMEEP started to see applications for comprehensive projects that tend to have a longer completion timeline. Due to this longer timeline, very few comprehensive projects were able to complete in 2022 and the program administrators expect to see greater savings from comprehensive projects in 2023 and 2024.

Direct Savings⁵¹

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance	2020 - 2022 Achieved	Implementation Plan Target (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$34,242,515	\$61,705,670	\$(27,502,722)	\$76,583,720	\$391,591,877	20%
MWh Annual	14,097	16,106	(2,009)	37,109	143,838	26%
MWh Lifetime	165,778	206,667	(40,889)	447,060	1,913,912	23%
MMBtu Annual	456,439	707,574	(251,135)	819,909	5,156,739	16%
MMBtu Lifetime	5,572,153	10,126,840	(4,554,688)	10,874,128	75,575,768	14%
CO2e Emission Reduction (metric tons) Annual	28,546	46,576	(18,030)	58,499	359,445	16%
CO2e Emission Reduction (metric tons) Lifetime	341,571	645,844	(304,274)	750,853	5,126,628	15%
Participant Bill Savings Annual	\$5,836,021	\$6,636,405	\$(800,384)	\$10,881,935	\$41,897,849	26%
Participant Bill Savings Lifetime	\$69,788,647	\$93,421,616	\$(23,632,969)	\$132,933,376	\$606,874,970	22%
Participants ⁵²	81,080	114,756	(33,339)	95,310	498,161	19%
Leveraged Funds	\$61,054,592	\$115,408,604	\$(54,354,012)	\$135,867,410	\$1,157,533,800	12%

⁵¹ NYSERDA had both direct and indirect MWh and MMBtu savings projections for Existing Affordable Multifamily Buildings in the August 15, 2022 Implementation Plan. Indirect savings and their corresponding CO2e emissions reductions have been broken out into a separate table, as is the case throughout this report where NYSERDA had savings projections in the August 15, 2022 Implementation Plan.

⁵² Prior to the launch of AMEEP in late 2021, the Program Administrators defined program participants in multifamily initiatives differently (e.g., Con Edison participants are calculated based on total electric and gas accounts, NYSEG/RG&E participants are calculated based on unit area or property owner, and NYSERDA's MPP program calculates participants based on dwelling units served). With the launch of AMEEP, the Program Administrators standardized the definition of program participants as dwelling units served.

Indirect Savings⁵³

Metric	2020 - 2022 Achieved	2020-2023 Implementation Plan Projection	% Achieved 2020-2022 to Implementation Plan Projection
MWh Annual	-	117,440	0%
MWh Lifetime	-	2,035,819	0%
MMBtu Annual	-	3,025,221	0%
MMBtu Lifetime	-	48,859,849	0%
CO2e Emission Reduction (metric tons) Annual	-	243,335	0%
CO2e Emission Reduction (metric tons) Lifetime	-	3,990,393	0%

2022 AMEEP Comprehensive Savings

	MWh	MMBtu
Annual Comprehensive Savings	9	7,009
Annual Non-Comprehensive Savings	7,231	346,922
Total Annual Savings	7,240	353,931

6.4 Findings & Planned Improvements

In 2022, the Program Administrators expended approximately \$34 million on existing affordable multifamily initiatives, serving roughly 81,000 participants and achieving approximately 14,000 annual MWh savings and 456,4000 annual MMBtu savings.

In 2022, Program Administrators released multiple documents to facilitate compliance with project requirements for AMEEP, including “Downstate AMEEP Comprehensive Project Submission Guide” and “FlexTech and AMEEP: How They Work Together”. Program Administrators also prepared marketing materials to increase program awareness in the multifamily market. In 2023, the Program Administrators plan to perform ongoing calibration of AMEEP, where necessary, to improve the impact and effectiveness of the program. The Program Administrators are also developing processes for efficient statewide

⁵³ 2022 Implementation Plan indirect savings projections are discounted by 50% throughout the 2022 LMI Annual Report.

operations of AMEEP, such as document updates, reporting, and stakeholder engagement. Simultaneously, the Program Administrators will seek additional areas to streamline program administration.

NYSERDA’s affordable housing agency partnerships with HCR and NYC HPD will continue to drive progress in the electrification of LMI households. Most notably, in 2023 NYSERDA and HCR will be rolling out a multiyear collaboration that will leverage \$100 million of NYSERDA NYS Clean Heat/CEF (and other RGGI funds) along with \$750 million of HCR funds included in their 5-year capital plan to support electrification in affordable housing. The partnerships with NYC HPD will expand to support affordable new construction electrification.

7. Affordable New Construction

7.1 Program Summary

Under the CEF, NYSERDA has administered the New Construction Housing Program and the Buildings of Excellence initiative, which target the development of higher-performance, affordable new construction. These initiatives continued in 2022.

In 2022, 4,536 units of high-performance affordable housing were completed through the New Construction Housing Program, with 7,596 units entering the pipeline. The New Construction Housing program received an influx of interest in, and applications to, the program in the months leading up to the close of the program, resulting in the program exceeding the anticipated goals for commitments and expenditures 2022. In addition, NYSERDA held the launch event for round 3 of the Buildings of Excellence competition⁵⁴ in April 2022 to support early-stage design and demonstration projects of high-performance affordable housing, which features an all-electric design. NYSERDA also engaged in 104 outreach and education events related to high-performance new construction.

The New Construction Team also furthered its partnership with HCR to implement the second phase of the Clean Energy Initiative, a groundbreaking partnership to imbed decarbonization incentives directly inside of HCR’s programs. The program’s pilot phase launched in 2021 and successfully created a carbon neutral level of performance eligibility and funding the first round of projects. NYSERDA is continuing to work with NYC HPD to implement a similar program.

7.2 Program Implementation Milestones

In 2022, the Program Administrators achieved the following implementation milestones, as outlined in the 2020 Implementation Plan.

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> • Launch of high-performance demonstrations and competitions 	<p>Complete</p> <ul style="list-style-type: none"> • Round 3 of NYSERDA’s Buildings of Excellence competition was launched in April 2022, and the demonstration project solicitation closed in July 2022, with awards being announced in Q1 of 2023.

⁵⁴ More information on the Buildings of Excellence competition, including details on the award-winning projects can be found here: <https://www.nyserda.ny.gov/All-Programs/Programs/Multifamily-Buildings-of-Excellence/Winners>

<ul style="list-style-type: none"> • Incorporation of lessons learned from previous demonstrations and competitions 	<p>Complete</p> <ul style="list-style-type: none"> • Round 3 of NYSERDA’s Buildings of Excellence competition incorporated lessons learned from previous program rounds, including the new offer of the Buildings of Excellence Early Design Support Request for Proposals (RFP). This new RFP provides approved firms with early-stage design support for new construction and adaptive reuse projects that will achieve carbon-neutral-ready performance while being beautiful and functional, providing healthy, safe, comfortable, and resilient living spaces for their occupants.
<ul style="list-style-type: none"> • Launch of Round 3 of the Buildings of Excellence Multifamily Design Competition 	<p>Complete⁵⁵</p> <ul style="list-style-type: none"> • Round 3 of NYSERDA’s Buildings of Excellence competition was launched in April 2022, and the demonstration project solicitation closed in July 2022, with awards being announced in Q1 of 2023.
<ul style="list-style-type: none"> • Expand integrated funding with State and local affordable housing agencies 	<p>Complete</p> <ul style="list-style-type: none"> • NYSERDA continued to work with HCR in 2022 to expand the offer of the Clean Energy Incentive to new construction and adaptive reuse affordable housing projects as a part of HCR’s capital stack of incentives to projects. In 2022, NYSERDA also began working with NYC HPD to design a similar offering through NYC HPD’s project award and funding process.

⁵⁵ Status updated from “In Progress” in the August 15, 2022, Implementation Plan filing to “Complete” in the November 22, 2022, Implementation Plan filing.

7.3 Budgets, Targets, and Metrics

Direct Savings

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Target Variance		2020 - 2022 Achieved	Implementation Plan Target (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$17,763,153	\$8,180,123	\$9,583,030		\$29,413,789	\$137,953,466	21%
MWh Annual	8,192	6,296	1,896		14,254	82,453	17%
MWh Lifetime	179,534	157,400	22,134		317,750	2,061,325	15%
MMBtu Annual	81,453	43,587	37,866		159,137	550,148	29%
MMBtu Lifetime	1,805,151	1,089,675	715,476		3,631,068	13,753,700	26%
CO2e Emission Reduction (metric tons) Annual	8,429	5,510	2,919		15,608	71,184	22%
CO2e Emission Reduction (metric tons) Lifetime	185,787	126,421	59,366		352,412	1,711,177	21%
Participant Bill Savings Annual	\$1,213,646	\$360,642	\$853,004		\$2,813,058	\$4,275,039	66%
Participant Bill Savings Lifetime	\$26,743,602	\$9,016,059	\$17,727,543		\$63,621,175	\$106,875,978	60%
Participants	4,536	3,110	1,426		9,526	38,986	24%
Leveraged Funds	\$25,728,995	\$16,417,020	\$9,311,975		\$44,986,242	\$162,999,321	28%

Indirect Savings

Metric	2020 - 2022 Achieved	2020-2023 Implementation Plan Projection	% Achieved 2020-2022 to Implementation Plan Projection
MWh Annual	-	16,750	0%
MWh Lifetime	-	418,738	0%
MMBtu Annual	-	102,527	0%
MMBtu Lifetime	-	2,563,175	0%
CO2e Emission Reduction (metric tons) Annual	-	13,999	0%
CO2e Emission Reduction (metric tons) Lifetime	-	349,969	0%

7.4 Findings & Planned Improvements

Although economic uncertainty and supply chain issues for developers resulting from the global pandemic continued to impact expected affordable new construction across the state, nearly all participation and efficiency-related targets were met in the multifamily sector of the New Construction Housing Program. Affordable new construction for the single-family sector continues to experience project delays resulting in dwelling unit and efficiency target shortfalls. In addition to developing a coordinated set of affordable new construction offerings between NYSERDA and the Utilities scheduled for 2022, NYSERDA continues to work with HCR and NYC HPD to deliver clean energy incentives into the capital stack for projects financed through those respective programs.

8. Pilots and Demonstrations

8.1 Program Summary

To continuously improve the programs and offerings under the Statewide LMI Portfolio, the Program Administrators will incorporate the piloting and demonstration of new technologies and approaches for serving LMI customers and communities. Through pilot activities, the Program Administrators will seek to:

- Identify and test technologies and/or approaches for addressing the barriers to improving energy efficiency in the LMI market segment;
- Test approaches that can scale the adoption of energy efficiency solutions in the LMI market segment;
- Prove models for improving the delivery of energy efficiency solutions across the LMI market segment that can reduce the administrative burden for customers and administrators; and
- Determine innovative approaches for improving awareness and access to energy efficiency solutions for LMI or otherwise disadvantaged communities.

8.2 Program Implementation Milestones

The 2022 Implementation Plan did not include Implementation Milestones for Pilots and Demonstrations. Implementation Milestones will be added as appropriate to future Implementation Plan filings to highlight the ongoing work to evaluate lessons learned from research, analysis, pilots, and incentive offerings.

In 2022, NYSERDA selected an LMI-focused marketplace concept through the Innovative Market Strategies⁵⁶ initiative to pilot, with the intention to test whether a holistic marketplace that combines education on the high-efficiency products, access to low-interest financing, and targeted incentives can provide an effective complement to traditional energy efficiency retrofit programs to advance equitable access to clean energy solutions and lower barriers to adoption of higher efficiency products. The pilot is expected to launch in Spring 2023. The Utilities were part of the scoring committee to select the pilot. NYSERDA will coordinate with the Utilities throughout the pilot to share findings and identify opportunities for broader-scale deployment.

⁵⁶ <https://www.nysesda.ny.gov/All-Programs/Innovative-Market-Strategies-Program>

8.3 Budgets, Targets, and Metrics

The 2022 Implementation Plan outlined the projected achievements for Pilots and Demonstrations to begin in 2022.

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance	2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$468,966	\$213,166	\$255,800	\$468,966	\$2,443,532	19%
MWh Annual	-	-	-	-	-	
MWh Lifetime	-	-	-	-	-	
MMBtu Annual	-	-	-	-	-	
MMBtu Lifetime	-	-	-	-	-	
CO2e Emission Reduction (metric tons) Annual	-	-	-	-	-	
CO2e Emission Reduction (metric tons) Lifetime	-	-	-	-	-	
Participant Bill Savings Annual	\$-	\$-	\$-	\$-	\$-	
Participant Bill Savings Lifetime	\$-	\$-	\$-	\$-	\$-	
Participants	-	-	-	-	-	
Leveraged Funds	\$-	\$-	\$-	\$-	\$-	

8.4 Findings & Planned Improvements

In 2023, NYSERDA and the Utilities will develop a protocol for identifying and approving pilot initiatives that address the pilot objectives outlined in Section 8.1.

9. Beneficial Electrification in Low- and Moderate-Income Homes

9.1 Program Summary

NYSERDA is investing \$30 million to address the financial and institutional barriers⁵⁷ that pose a challenge to the widescale adoption of heat pumps in LMI households or affordable housing, as well as deployment of heat pumps for LMI households and subsequent analysis of bill impacts and customer experience.

⁵⁷ For example, the potential for cost shift from building owners to tenants when an affordable multifamily building converts from a central heating system to in-unit air source heat pumps.

These efforts include research and analysis towards identifying solutions to address institutional barriers and financial models in the LMI market segment; pilots and demonstrations to identify replicable models for heat pump installation; incentives to allow for the incorporation of heat pumps into LMI energy efficiency projects, where feasible; and consumer education to enable LMI consumers to maximize the benefit of a heat pump installation. The Program Administrators expect these investments to inform the long-term strategy for advancing beneficial electrification for LMI households and affordable housing.

9.2 Program Implementation Milestones

The Program Administrators achieved the following implementation milestones, as outlined in the 2022 Implementation Plan:

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> Launch evaluation and market insights study based on projects completed through short-term incentive offering 	<p>Complete</p> <ul style="list-style-type: none"> Study launched in Q1 2022 Project cost data analysis underway for 1-4 Family projects First full-year billing data collected for 1-4 Family projects Customer survey developed and deployed Participating Contractor survey developed and deployed
<ul style="list-style-type: none"> Push into market early findings from evaluation and market insights study 	<p>Planning</p> <ul style="list-style-type: none"> Results of Year 1 billing analysis and project cost analysis for 1-4 Family projects to be communicated to stakeholders upon completion
<ul style="list-style-type: none"> Publish LMI chapter within Building Electrification Roadmap (“BER”), outlining key policy approaches to scale LMI electrification through 2030 	<p>In Progress</p> <ul style="list-style-type: none"> BER analysis ongoing
<ul style="list-style-type: none"> Partner with sister agencies to aggressively shift existing benefit programs into alignment with the State’s housing decarbonization targets, especially LIHEAP, WAP, and the State’s Energy Affordability Policy and Utility Energy Assistance Programs 	<p>In Progress</p> <ul style="list-style-type: none"> Interagency Coordination underway through the Low Income Energy Task Force EAP Study launched Q2 2022

<ul style="list-style-type: none"> Conduct research and analysis on electrification of affordable housing, develop recommendations for protecting tenants from heating cost shifts⁵⁸ 	<p>In Progress</p> <ul style="list-style-type: none"> Cost modeling study launched Q3 2022 to analyze pre- and post-electrification utility costs for key electrification retrofit scenarios Study looking at different measure packages, metering configurations, and other technical solutions Expected completion Q2 2023
<ul style="list-style-type: none"> Continue programmatic support for LMI heat pump installations, with a focus on segments that present the least technical difficulty and/or the most favorable return on investment, including buildings using delivered fuels and electric resistance heat, buildings with inefficient gas furnaces or boilers, and multifamily buildings with steam distribution systems 	<p>In Progress</p> <ul style="list-style-type: none"> Budgets are being deployed as needed to support specific initiatives, adder incentives, and special projects that enter NYSERDA’s pipeline. \$5M assigned to support Community Thermal Energy Networks supporting LMI communities.
<ul style="list-style-type: none"> Design and launch a program offering or supporting rapid response heat pump conversions in situations where existing fossil heating systems are at or near failure 	<p>In Progress</p> <ul style="list-style-type: none"> Pilot design 60% complete, anticipated launch Q4 2023
<ul style="list-style-type: none"> Launch additional program support for LMI multifamily building owners seeking to integrate electrification into their portfolio by providing wraparound services for guidance on capital planning, identifying best-fit technology solutions, employee training, project scoping, information about how to overcome hurdles related to existing subsidy agreements and tenant leases, and information about identifying incentives and other financial support for installing heat pumps 	<p>Planning</p> <ul style="list-style-type: none"> This initiative has been put on hold for now due to staff capacity and the triannual review particularly regarding statewide Clean Heat and AMEEP programs and will be revisited at a later date.
<ul style="list-style-type: none"> Design pilot(s) supporting DHW electrification conversions for multifamily buildings 	<p>No Longer Applicable</p> <ul style="list-style-type: none"> Initiative is no longer under consideration due to other priorities
<ul style="list-style-type: none"> Launch research focused on policy and regulatory initiatives that can further enable heat pump adoption in LMI housing 	<p>In Progress</p> <ul style="list-style-type: none"> A study was launched in Q3 2022, in conjunction with the Utility Cost Modeling study described above Quantitative and qualitative analysis of policy and regulatory supports needed to enable LMI heat pump adoption

⁵⁸ Milestone updated from “Conduct research and analysis leading to the development of an Affordability and Consumer Protections framework for LMI Electrification, outlined in the Two Million Climate-Friendly Homes Action Plan” in the August 15, 2022, Implementation Plan filing to current language, as reflected in the November 22, 2022 Implementation Plan filing.

<ul style="list-style-type: none"> • Conduct Stakeholder engagement to develop promising approaches for community- and place-based interventions supporting heat pump deployment in LMI and Disadvantaged Communities 	<p>No Longer Applicable</p> <ul style="list-style-type: none"> • Initiative not currently under consideration, pending completion of cost studies described above and pending developments within the State's Energy Equity Collaborative
<ul style="list-style-type: none"> • Develop and launch additional educational materials for LMI customers and building owners, including short how-to videos and other multimedia offerings 	<p>Planning</p> <ul style="list-style-type: none"> • Coordination ongoing with NYSERDA Marketing and Communications teams, owners of comprehensive household education strategy • Pending review of resources needs and budget availability
<ul style="list-style-type: none"> • In collaboration with DPS and the Utilities, identify the scope of and pathway to increased support for pre-electrification make-ready work such as electrical panel upgrades 	<p>In Progress</p> <ul style="list-style-type: none"> • Topic is under consideration as part of the triannual review
<ul style="list-style-type: none"> • Initiate cross-agency effort to design a novel tax incentive to support electrification and tenant protection in rent stabilized housing, representing nearly one million units in downstate NY. 	<p>In Progress</p> <ul style="list-style-type: none"> • Foundational research is complete to advance in 2024
<ul style="list-style-type: none"> • Develop financial impact analysis of change in utility bills for State's largest portfolios of affordable housing and public housing, to support agencies' budget planning processes and internal policies supporting electrification. 	<p>In Progress</p> <ul style="list-style-type: none"> • Task underway as part of Utility Cost Modeling study described above, to be completed Q2 2023

9.3 Budgets, Targets, and Metrics

The LMI Beneficial Electrification expenditures were for research and analysis, which did not have direct savings attributed to the activities. Performance metrics for the LMI beneficial electrification initiatives were not included in the 2020 Implementation Plan or in the revised Implementation Plan filed in 2022.

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance (\$)	2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$2,203,112	\$3,868,000	\$(1,664,888)	\$6,060,736	\$30,000,000	20%
MWh Annual	-	-	-		0	
MWh Lifetime	-	-	-		0	
MMBtu Annual	-	-	-		0	
MMBtu Lifetime	-	-	-		0	
CO2e Emission Reduction (metric tons) Annual	-	-	-		0	
CO2e Emission Reduction (metric tons) Lifetime	-	-	-		0	
Participant Bill Savings Annual	\$-	\$-	\$-		\$0	
Participant Bill Savings Lifetime	\$-	\$-	\$-		\$0	
Participants	-	-	-		0	
Leveraged Funds	\$-	\$-	\$-		\$0	

9.4 Findings & Planned Improvements

The initiatives described above continue to inform the development of additional demonstrations and programmatic activity between NYSERDA and the Utilities to increase the adoption of heat pump solutions in the LMI market segment.

The activities launched in 2022 centered on market research and technical analysis to result in actionable intelligence for targeted program support for sub-segments of the LMI market; policy and regulatory decision-makers, including DPS and the Utilities; and specific portfolios within the State’s affordable housing and public housing stock.

The analysis includes (1) utility bill modeling to assess the bill affordability impacts of electrification in sub-segments based on size, existing heating system type, metering configuration, regulatory/subsidy

status, vintage, region, and other variables, and (2) complementary qualitative research assessing the electrification-readiness of sub-segments based on similar variables. It also includes scenario planning to refine further best-fit technology solutions corresponding to specific sub-segments of the LMI building stock.

Additionally, \$5M was allocated to support the design & development of Community Thermal Energy Networks serving LMI housing.

In 2023, market research and analysis in concert with DPS and the housing agencies will remain a heavy focus. Pilots that test novel strategies will be developed and launched by the end of the year.

10. Additional LMI Initiatives

10.1 Program Summary

In addition to the Statewide LMI Portfolio initiatives, NYSERDA administers other initiatives to increase access to clean energy solutions and improve energy affordability for LMI residents and communities as part of the CEF Market Development Portfolio. The New York State Healthy Homes Value-Based Payment Pilot and Solar for All were initially filed as part of the LMI Chapter of the CEF but were transitioned to the LMI Implementation Plan in 2020.

10.1.2 New York State Healthy Homes Value-Based Payment Pilot

Approved in 2019, the NYS Healthy Homes Value-Based Payment (“VBP”) Pilot seeks to develop a framework that allows New York’s managed care organizations (“MCOs”) to fund residential healthy homes interventions⁵⁹ as part of their value-based payment arrangements with healthcare providers within the Medicaid Healthcare Delivery System.⁶⁰ By validating impacts such as healthcare cost savings and benefits to residents, as well as providing market development support, including specification of services and guidance related to VBP contracting, the Healthy Homes Pilot facilitates the adoption of

⁵⁹ A residential healthy homes intervention combines energy efficiency and weatherization measures (*e.g.*, insulation and air sealing) with measures that address persistent respiratory health conditions such as asthma (*e.g.*, ventilation, moisture/mold mitigation, carpet removal), and includes additional measures aimed at home injury prevention (smoke and carbon monoxide alarms, stair repair, electrical outlet covers). When implemented together, these interventions can improve occupant health, reduce energy bills and healthcare costs, and improve the comfort and safety of a home. The Pilot intervention includes home skilled nursing visits providing in-home education related to asthma self-management and medication adherence and community health worker support throughout.

⁶⁰ New York State Medicaid has transitioned the managed care healthcare delivery system from a fee-for-service to a VBP model that links healthcare provider performance and reimbursement through a pre-determined set of value metrics. Under the VBP model, managed care organizations (“MCO”) (*i.e.*, healthcare plans such as Empire Blue Cross Blue Shield) can enter into arrangements with healthcare providers or provider networks. To support local investment in activities that address social determinants of health (“SDH”), two of three VBP arrangement levels require incorporation of a community-based organization (“CBO”) engaging in work focused on SDH. Among the five social determinants of health categories established within the VBP system, the Neighborhoods and Environment category includes “substandard housing” as a determinant and includes funded interventions and standard metrics associated with healthy homes interventions within the established SDH Intervention Menu. The substandard housing determinant places energy efficiency and weatherization measures, when incorporated within a Healthy Homes intervention, within the DOH VBP model.

healthy homes treatments by MCOs as part of their Medicaid VBP Arrangements that incorporate social determinants of health. Adopting this approach addresses avoidable medical costs associated with respiratory conditions such as asthma and household injury while encouraging third-party capital investment in residential energy efficiency through MCO adoption of healthy home interventions within the VBP social determinants of health framework after the completion of the Pilot.

The Pilot is a partnership between NYSERDA and the NYS Department of Health (“DOH”). It has a budget of \$9.6 million and aims to provide healthy homes interventions in 500 Medicaid member homes, with NYSERDA and DOH jointly evaluating the associated Medicaid cost savings and benefits for participants.

Initially, NYSERDA and DOH partnered with four MCOs covering service areas within all New York City boroughs and Erie, Chautauqua, and Niagara counties to implement the Pilot. NYSERDA and DOH targeted the pilot launch for late 2020, however, due to complications of the COVID-19 pandemic, the field launch was delayed until late 2021, with projects anticipated for completion in 2024.

Though managed care organizations that are participating in the pilot and community health workers are continuing outreach and intake activities, the pilot has experienced delays in enrolling participants in part due to limited capacity of community health workers, which stems from shifting healthcare industry priorities and lower staffing coming out of the COVID-19 pandemic.

Given these challenges and expecting that reaching the pilot goal of 500 projects will remain challenging under current conditions, NYSERDA and NYS Department of Health leadership made modifications to pilot eligibility, which previously was limited to Medicaid members who are attributed to value-based payment (VBP) arrangements through Pilot-participating managed care organizations. To encourage higher levels of enrollment, the allowable eligibility has been broadened to include Medicaid members regardless of VBP arrangement, with all other participation criteria remaining constant. The modifications will streamline participant consent and enrollment processes, aiming to increase the number of consented participants and the number of referrals to NYSERDA for housing intervention services accordingly. In February 2023, managed care organizations began outreach to newly eligible members using their expanded eligibility lists. Improved participation rates associated with the expanded eligibility are expected in Q2 2023.

10.1.3 Solar for All

The Solar for All initiative, also administered by NYSERDA, was designed to allow low-income customers access to the community solar market by: (1) developing a community solar subscription model specifically for low-income customers; (2) issuing solicitations for community solar projects to commit project capacity to subscriptions for low-income customers; and (3) working with low-income energy efficiency programs, utilities, community agencies, solar project developers, investors and other market actors to market the program to low-income customers and develop a strategy for a post-initiative transition.

The Solar for All initiative was launched under the CEF Market Development Portfolio in 2018 and community solar project procurement was funded under the CEF Market Development Portfolio through 2020. A single solicitation round was conducted in 2018, which resulted in 9 MWdc of community solar projects being procured for this purpose. No additional solicitation rounds under this model are

anticipated. A Solar for All subscription was added as an eligible measure on the EmPower NY application in 2020, to help streamline access to energy efficiency and solar benefits for low-income households. Approximately 4,000 low-income customers are currently enrolled in Solar for All. In January 2022, the Public Service Commission approved with modifications an Expanded Solar for All proposal, filed jointly by National Grid and NYSEERDA, that proposed launch in 2022 and will ultimately serve over 160,000 low-income National Grid electric customers. New York’s 10 GW Distributed Solar Roadmap, filed by NYSEERDA in December 2021, articulates the go-forward strategies to grow this market. It includes a Solar Energy Equity Framework to benefit low-income customers.⁶¹

10.2 Program Implementation Milestones

In 2022, key achievements for the Program Administrators include:

NYS Healthy Homes VBP Pilot

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> Complete value-based payment participation toolkits for MCO/VBP providers and community-based organizations 	In Progress

⁶¹ 10 GW Solar Roadmap. <https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId=%7B4C42AAFF-0EB9-4890-AA0D-21C70B088F4B%7D>

10.3 Budgets, Targets, and Metrics

NYS Healthy Homes VBP Pilot

Direct Savings

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance (\$)		2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$529,678	\$2,184,801	\$(1,655,123)		\$1,735,932	\$9,824,687	18%
MWh Annual	1	30	(29)		2	300	1%
MWh Lifetime	21	420	(399)		27	4,200	1%
MMBtu Annual	2	1,000	(998)		2	10,000	0%
MMBtu Lifetime	41	20,000	(19,959)		41	200,000	0%
CO2e Emission Reduction (metric tons) Annual	1	76	(75)		1	748	0%
CO2e Emission Reduction (metric tons) Lifetime	14	1,420	(1,406)		17	14,061	0%
Participant Bill Savings Annual	\$197	\$9,435	\$(9,238)		\$265	\$94,350	0%
Participant Bill Savings Lifetime	\$3,123	\$188,675	\$(185,553)		\$4,134	\$1,886,754	0%
Participants	3	50	(47)		4	500	1%
Leveraged Funds	\$-	\$-	\$-		\$-	\$-	

Indirect Savings

Metric	2020 - 2022 Achieved	2020-2023 Implementation Plan Projection	% Achieved 2020-2022 to Implementation Plan Projection
MWh Annual	-	28,000	0%
MWh Lifetime	-	392,000	0%
MMBtu Annual	-	935,000	0%
MMBtu Lifetime	-	18,700,000	0%
CO2e Emission Reduction (metric tons) Annual	-	70,581	0%
CO2e Emission Reduction (metric tons) Lifetime	-	1,327,571	0%

Solar for All⁶²

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance (\$)	2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$836,644	\$1,300,000	\$(463,356)	\$3,014,106	\$11,712,619	26%
MWh Annual	0				0	
MWh Lifetime	0				0	
MMBtu Annual	0				0	
MMBtu Lifetime	0				0	
CO2e Emission Reduction (metric tons) Annual	0				0	
CO2e Emission Reduction (metric tons) Lifetime	0				0	
Participant Bill Savings Annual	\$0				\$0	
Participant Bill Savings Lifetime	\$0				\$0	
Participants	0			773	0	
Leveraged Funds	\$0				\$0	

10.4 Findings & Planned Improvements

Going forward, the Solar for All initiative and other initiatives designed to increase access to solar for LMI households, affordable housing, and disadvantaged communities will be funded as part of the Solar Equity Framework of NY Sun, as outlined in the NY Sun 2020-2025 Operating Plan,⁶³ filed with the DPS on June 1, 2020.

As noted in Section 10.1.2, allowable eligibility for the NYS Healthy Homes VBP Pilot has been broadened to encourage higher enrollment levels. The modification is intended to streamline participant consent and enrollment processes, aiming to increase the number of consented participants and the number of referrals to NYSERDA for housing intervention services accordingly.

⁶² Metrics associated with Solar for All are included and reported as part of NY-Sun. Solar for All reported a lower number of participants in the Q4 2020 Scorecard. This discrepancy will be addressed in the Q1 2021 Scorecard.

⁶³ <http://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId=%7B4F3CB5E3-BA5A-4182-AA44-94C3C24C2441%7D>.

11. Customer Awareness, Outreach & Engagement

The 2020 Implementation Plan outlined several initiatives intended to increase awareness and access to energy efficiency and affordability programs, and increase energy literacy for LMI residents and communities. In 2022, the Program Administrators continued the development of the NY Energy Advisor website and commenced planning for statewide branding and marketing. Progress and key milestones for Customer Awareness, Outreach, and Engagement initiatives are provided below.

11.1 Statewide Branding and Marketing

The Program Administrators continued to develop statewide branding and a coordinated marketing strategy for the Statewide LMI Portfolio to drive LMI customers and affordable building owners to available programs and resources. This work is ongoing and is expected to accelerate as initiatives are developed.

11.2 NY Energy Advisor

In 2021, the Program Administrators launched the full NY Energy Advisor website, a platform that offers streamlined access to initiatives and services for LMI customers, affordable multifamily property owners and managers, contractors, and stakeholders throughout the state. The completed NY Energy Advisor is designed to provide clear, consistent, and easy-to-find information on all relevant LMI initiatives and services, including energy efficiency, renewable energy, and energy education materials. Statewide marketing began for NY Energy Advisor in January 2022 with a plan that was built in collaboration between NYSERDA and the Utilities. 2022 was the benchmark year for website analytics. In-market activities will be optimized year over year as NY Energy Advisor continues in the market.

In 2022, 313,065 users visited the website for a total of 465,090 site sessions. Analytics for the website are tracked via a comprehensive dashboard that reports on demographics, site usage metrics, advertising referral sources, event actions (defined as a click on any action), Paid Search Keyword analysis, and dayparting. All this data helps inform optimizations to statewide marketing efforts. This data is shared between Program Administrators monthly, and a metrics chart reflecting on-site actions (or events) is generated so program interaction can be monitored. The data shows how many times a user clicks “Learn More,” or “Apply Now” to the programs listed.

In addition to the Statewide Marketing Plan, a comprehensive toolkit of online and offline collateral materials was developed and posted on the NYSERDA site. The toolkit is comprised of NY Energy Advisor Posters, Fact Sheets, Talking Points, Newsletter Blurbs, and Imagery locked up with a NY Energy Advisor Logo for credibility. This toolkit was made public for any organization to use its contents to help facilitate discussions with potential income-eligible customers, and serve as an access point to those who may not have access to the internet. Moving forward, the toolkit content and copy are currently being updated to maintain fresh messaging that resonated with customers better (based on interaction with paid media and click-through rates during the active campaign).

Both the Statewide paid marketing plan creative and toolkit updates based on learnings from 2022 relaunched in early 2023. The goal for NY Energy Advisor in 2023 is to build upon the awareness started in the first year of statewide support and yield an 8-10% growth rate in user engagement.

11.3 Community-Based Outreach and Engagement

In 2020 and 2021, NYSEERDA undertook a co-design process with 30 organizations to identify opportunities to improve the reach and effectiveness of the Community Energy Engagement Program. As a result of the co-design process, NYSEERDA issued an RFP in 2021 to establish the Regional Clean Energy Hubs. In December 2022, the Regional Clean Energy Hubs were announced, with one hub in each of the ten economic development regions across the state except for the New York City region, where three hubs were established. The Regional Clean Energy Hubs are a team of trusted, knowledgeable, community-based organizations in and from New York State with an aim to assist communities and residents with accessing clean energy programs and solutions and participating in the clean energy economy. The Regional Clean Energy Hubs will play an instrumental role in positioning disadvantaged communities to benefit from the clean energy transition by:

- Acting as a trusted local resource for community members to learn more about the energy-related programs and services available to them.
- Increasing awareness of these programs and services by leveraging the expertise and trust of local community organizations - particularly those with a proven track record of engaging disadvantaged communities.
- Developing outreach and engagement strategies to elevate the needs of communities and residents into program and policy development.
- Addressing gaps in and advancing diversity of the clean energy workforce by connecting residents with educational, training, and job opportunities and by connecting small businesses with resources to support economic development.

11.4 Community-Based Customer Engagement Initiatives

Con Edison has conducted efforts focused on increasing education and awareness about energy efficiency, as well as providing energy efficient equipment for use in the home. In 2022, Con Edison distributed 11,448 kits to customers participating in Con Edison's Energy Affordability Program, which provides bill assistance. This program is an opt-in only program, where eligible customers can claim a kit online. Kits can contain three LED lightbulbs, two faucet aerators, and a low-flow showerhead. Con Edison also collaborated with food pantries to distribute 62,544 packs of four LEDs to low-income customers.

In 2022, NFGDC provided 10,000 weatherization kits to area block clubs, community-based organizations, and non-profits. Although this program benefited LMI customers, the funding related to this effort came from non-LMI sources, so associated savings and participant numbers are not included in this report. The pandemic created a need to promote greater awareness of newly implemented payment assistance programs, the HEAP Residential Supplement Plan, and the NYS Emergency Rental Assistance Program. NFGDC created a slip sheet that was placed into a door hanger for customer homes to alert customers of the various assistance programs that are available and urging a phone call if anyone was struggling to pay their bill.

In 2022, National Grid continued its Food Bank LED program to increase awareness of programs and services available to its customers and to encourage customers to utilize them. National Grid continued collaborating with NYSEG to distribute LED lightbulbs and brochures that contained information on energy efficiency and payment assistance programs such as EmPower NY, HEAP, National Grid's Energy Affordability Program ("EAP") and assistance provided by National Grid's Consumer Advocates. National

Grid and NYSEG partnered on this initiative due to their overlapping service territory to utilize resources most efficiently and ensure there were no redundancies. This initiative will continue into 2023.

In 2022, Orange & Rockland continued its partnership with food banks to distribute 11,496 LED light bulb kits. The kits included messaging to educate customers about energy efficiency and included a link to Orange & Rockland’s EmPower Webpage to drive awareness of the program. In December 2022, Orange and Rockland Launched its LMI enhanced rebates on the Marketplace. Those customers that were identified as LMI were eligible for an enhanced rebate at checkout for various energy saving devices. An email campaign to these customers was sent out to let them know about the launch of the enhanced rebates.

In 2022, Central Hudson continued its partnership with local food pantries and the United Way to distribute 20,330 LEDs. Additional efforts were directed towards adding partners to the distribution network and designing packaging materials to include with the LEDs. A printed sleeve was added to the packaging, highlighting the ENERGY STAR LED contents, and providing guidance on payment assistance programs such as EmPower NY, HEAP and other Low-Income Bill Discount programs.

NYSEG/RGE initiated outreach to local food pantries providing energy saving measures with referrals and endorsements directing customers to sign up for Empower as well as the AMEEP program. NYSEG/RGE also partnered with its government relations team and low-income advocates to jointly attend local community-based events located within DAC tracts. NYSEG/RGE also distributed energy saving measures and referrals to Empower. Deep price reductions on energy saving measures were also provided at local discount retailers and thrift stores located within LMI census tract neighborhoods identified as low-income.

11.5 Program Implementation Milestones

11.5.1 LMI Portfolio Marketing

2022 Milestone from 2022 Implementation Plan	Status
NY Energy Advisor: <ul style="list-style-type: none"> • Relaunch a marketing campaign for the NY Energy Advisor in Q1 2023 that will continue through 2025 	Complete
Hard Copy Customer Education Collateral and Multilingual Communications: <ul style="list-style-type: none"> • Update collateral toolkit for NY Energy Advisor based on user engagement learnings from 2022. Toolkit continues to be available in multiple languages. 	Complete
Community-Based Marketing and Paid Advertising: <ul style="list-style-type: none"> • Specific media and paid advertising approaches will be developed and coordinated with the statewide campaign and as initiatives are added/changed in the Portfolio 	In Progress

11.5.2 Community-Based Outreach, Education, and Engagement Partnerships

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> The Regional Clean Energy Hub network will be launched in Q3 2022, incorporating input from the 2020 co-design process with community partners to improve the reach and impact of outreach and engagement efforts within disadvantaged communities 	Complete

11.5.3 Community-Based Customer Engagement Initiatives

2022 Milestone from 2022 Implementation Plan	Status
<p>Community-Based Customer Engagement Initiatives:</p> <ul style="list-style-type: none"> Central Hudson plans to continue their Community Lighting Program and will distribute LEDs through Food Banks and the United Way starting again in 2022. Con Edison will continue to offer energy efficiency kits via an opt-in approach to customers participating in Con Edison’s Energy Affordability Program (formerly called the Low-Income Discount Program) and to collaborate with food pantries to distribute LED lightbulbs. National Grid will expand their LED Food Bank program to the Albany and Syracuse areas and will increase frequency to twice per year with continued collaboration with NYSEG/RGE Orange & Rockland will continue their food bank kit offering and will provide energy efficiency kits via an opt-in approach for customers participating in the Company’s Energy Affordability Program. Orange & Rockland will expand the existing MY ORU Store e-commerce platform to include enhanced rebates on Energy Saving tools, products, and offerings. 	<p>Complete/ Continuous</p> <ul style="list-style-type: none"> The Program Administrators listed in this milestone operated these customer engagement initiatives in 2022 as previously noted. This milestone is being updated to “continuous” as implementation of these initiatives is planned to continue.
<p>Neighborhood-Based Delivery Model:</p> <ul style="list-style-type: none"> During the balance of 2022, the Program Administrators will assess evaluation results from the existing pilots and determine effectiveness of the neighborhood-based delivery model. If warranted, the Program Administrators will develop a replicable event/implementation plan, including consideration of remote webinar-based platforms as an alternative delivery mechanism to minimize risks associated with large, in-person events. This event/outreach strategy would be implemented beginning in 2022 after final evaluation results are determined. 	<p>In Progress</p> <ul style="list-style-type: none"> Lessons learned from the Neighborhood-Based Delivery Models will be considered for Utility collaboration with NYSERDA’s Regional Clean Energy Hubs

11.6 Budgets, Targets, and Metrics

Direct Savings

Metric	2022 Achieved	2022 Implementation Plan Projection	2022 Achieved to 2022 Implementation Plan Projection Variance (\$)	2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
Total Budget Spend	\$5,072,924	\$9,163,239	\$(4,090,314)	\$9,326,506	\$58,988,345	16%
MWh Annual	30,892	20,349	10,543	75,877	93,174	81%
MWh Lifetime	396,165	240,979	155,186	686,217	918,436	75%
MMBtu Annual	6,534	4,854	1,680	43,360	58,968	74%
MMBtu Lifetime	65,335	48,539	16,797	224,654	549,360	41%
CO2e Emission Reduction (metric tons) Annual	15,803	10,439	5,364	40,267	49,751	81%
CO2e Emission Reduction (metric tons) Lifetime	201,680	123,146	78,535	355,266	488,710	73%
Participant Bill Savings Annual	\$4,637,169	\$56,923	\$4,580,245	\$14,771,312	\$642,011	2301%
Participant Bill Savings Lifetime	\$53,910,117	\$571,895	\$53,338,222	\$107,570,381	\$5,953,576	1807%
Participants	278,024	245,241	32,783	910,769	1,069,288	85%
Leveraged Funds	\$ -	\$ -	\$ -	\$3,055,714	\$-	

Indirect Savings

Metric	2020-2022 Achieved	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved 2020-2022 to Implementation Plan Projection
MWh Annual	-	-	0%
MWh Lifetime	-	-	0%
MMBtu Annual	-	-	0%
MMBtu Lifetime	-	-	0%
CO2e Emission Reduction (metric tons) Annual	-	4,503	0%
CO2e Emission Reduction (metric tons) Lifetime	-	90,056	0%

11.6 Findings & Planned Improvements

Orange and Rockland have found that the costs associated with the EmPower program are running higher than planned, and in order to balance the portfolio, plan to grow Customer Engagement Programs. These plans include continuing our previous community-based customer initiatives with the local food banks and including gas savings kits in the future.

Central Hudson found success collaborating internally with the Consumer Outreach team to streamline the delivery mechanisms for LEDs distributed. During the first quarter of 2022, Central Hudson’s Community Lighting Program was paired with The Regulated Arrears Supplement (RAS) Program to distribute LEDs. The RAS program provided gas and electric utility arrears assistance to eligible households –both renters and homeowners –who were unable to pay their electric and/or gas utility arrears. The eligibility criteria for RAS matched the eligibility criteria for the Community Lighting Program. Each customer who enrolled in the RAS program received hand delivered LEDs and other marketing materials about enrollment opportunities for other assistance programs such as EmPower NY.

National Grid found success expanding their offering to Albany and Syracuse and with collaborating with NYSEG R&GE in neighboring territories. National Grid plans to continue this initiative in 2023 and consider if there are any other energy savings measures that make sense to be offered within this initiative.

12. Evaluation, Measurement, and Verification

12.1 Evaluation, Measurement, and Verification Summary

Consistent with the Coordination Plan and the Approval Letter, the Program Administrators initially filed VGS Specifications for the Statewide LMI Portfolio in December 2020 for the following initiatives:

- Existing 1-4 Family Homes
- Existing Affordable Multifamily Buildings
- Affordable New Construction
- Additional LMI Initiatives⁶⁴

Throughout 2022, the Program Administrators' EM&V experts continued to coordinate on EM&V topics, including with DPS Staff. This work contributed to revisions to the VGS Specifications, filed on November 1, 2022.⁶⁵ VGS Specifications filings include the name and description of each initiative, gross savings methodology, realization rates, planned VGS approach, and an indication of whether the initiative had an exemption status from a utility's earnings adjustment mechanism ("EAM").⁶⁶ Aside from the updates to the VGS Specifications, key EM&V activity from 2022 includes the following:

- The Program Administrators developed a standardized series of survey questions for statewide use when conducting process evaluation research with LMI customers.
- For EmPower NY, an evaluation of the program from 2017-Q1 2019 was completed, which produced new realization rates that can be applied to the program retrospectively beginning in 2017.
- The Program Administrators have decided to evaluate AMEEP with a joint, statewide evaluation, beginning with an evaluation of the 2022 program year in 2023. Upon completion of the AMEEP evaluation, those results will be retroactively applied beginning January 1, 2022. The Program Administrators will use company-specific evaluation results for multifamily programs run prior to AMEEP in 2020 and 2021. The Program Administrators began drafting an RFP for this evaluation in 2022 and will continue the process into 2023.

New Construction program impacts are undergoing a Gross Savings Analysis for the program period 2017-2020. A contractor was procured by NYSEDA in Q1 2021 to perform this analysis. Details related to the Gross Savings Analysis methodology were submitted in an EM&V Plan in Q1 2022. Results of the single-family analysis will be complete in Q1 2023, and the multifamily analysis will be completed in Q2 2023. Analysis will continue for projects completed through 2022. The estimated completion of the Gross Savings Analysis report is Q1 2024.

12.2 Program Implementation Milestones

In 2022, the Program Administrators achieved the following implementation milestones, as outlined in the Implementation Plan filed in early 2022.

⁶⁴ The initial VGS Specifications were filed in December 2020. NE: NY Proceeding, "Consolidated LMI VGS Specifications." (Filed December 14, 2020). Updated VGS Specifications were filed with the revised Implementation Plan filing on Nov. 1, 2022.

⁶⁵ NE: NY Proceeding, "Consolidated LMI VGS Specifications." (Filed November 1, 2022).

⁶⁶ See, Clean Energy Guidance CE-08: Gross Savings Verification Guidance (issued August 23, 2019)

2022 Milestone from 2022 Implementation Plan	Status
<ul style="list-style-type: none"> Continued ongoing meetings between Program Administrator VGS teams 	Ongoing
<ul style="list-style-type: none"> Refine and finalize standardized survey questions to be used when conducting process evaluation research 	Complete
<ul style="list-style-type: none"> Complete 2017-Q1 2019 evaluation of EmPower NY Program, on target to be finished by NYSERDA in Q2 2022 	Complete
<ul style="list-style-type: none"> Begin to develop and implement average existing condition baselines, facilitated through the TRM Management Committee, and identify key LMI measures for further research 	In Progress
<ul style="list-style-type: none"> Select EM&V vendor for AMEEP evaluations to be undertaken in 2023 	In Progress
<ul style="list-style-type: none"> Develop the workplan and conduct statewide evaluation for AMEEP, as operated in 2022 	In Progress
<ul style="list-style-type: none"> Begin EmPower+ evaluation process 	Planning
<ul style="list-style-type: none"> Assess impact of NYS Clean Heat coordination with AMEEP and any resulting evaluation needs 	Planning

12.3 Budgets, Targets, and Metrics

Budgets, targets, and metrics related to Portfolio EM&V for each Program Administrator can be found in [Appendix A](#). NYSERDA currently manages and reports Administration, EM&V, and NYS Cost Recovery Fees at a broader CEF portfolio level. To ensure that LMI spend and impact can be assessed comprehensively, DPS has established the following LMI allocations for these costs: Administration + EM&V: 27%; Market Development Cost Recovery Fee: 26%.

The percentage of gross savings verified in the LMI Portfolio is as follows:

Metric	Percent of Gross Savings Verified
Direct Annual Gross MWh Savings	25%
Direct Annual Gross MMBtu Savings	64%

12.4 Findings & Planned Improvements

The completion of the EmPower 2017-Q1 2019 evaluation in 2022 resulted in updated realization rates for this program, which are reflected in [Appendix D](#).

Going forward into 2023, the EM&V subcommittee plans to continue work in developing and initiating evaluations for AMEEP and EmPower+, along with continuing their routine activities.

13. Appendix A: Achievement to Budgets and Targets by Program Administrator⁶⁷

13.1 Central Hudson

Electric Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$80,954	\$81,321	\$(367)	\$80,954	\$433,008	19%
Program Implementation	\$7,206	\$10,426	\$(3,220)	\$7,206	\$55,514	13%
Total Budget	\$88,160	\$91,747	\$(3,587)	\$88,160	\$488,522	18%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$33,144	\$(33,144)	\$-	\$208,778	0%
Program Implementation	\$-	\$9,081	\$(9,081)	\$-	\$57,200	0%
Total Budget	\$-	\$42,225	\$(42,225)	\$-	\$265,978	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$1,735	\$(1,735)	\$-	\$6,940	0%
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$1,735	\$(1,735)	\$-	\$6,940	0%
Portfolio Administration	\$-	\$22,009	\$(22,009)	\$-	\$80,672	0%

⁶⁷ Please note descriptions of variance between Implementation Plan budgets and targets and Ordered budgets and targets may be found in the LMI Implementation Plan to be filed May 1, 2023.

Portfolio EM&V	\$-	\$7,819	\$(7,819)	\$-	\$42,785	0%
Total Portfolio Budget	\$88,160	\$165,535	\$(77,375)	\$88,160	\$884,897	10%

Electric Target Distribution (MWh)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	51	108	(57)	51	440	11%
Existing Affordable Multifamily Buildings	-	53	(53)	-	334	0%
Affordable New Construction	-	-	-	-	-	N/A
Customer Awareness, Outreach & Engagement	604	137	468	604	957	63%
Total	655	297	358	655	1,731	38%

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$217,564	\$272,862	\$(55,298)	\$217,564	\$959,722	23%
Program Implementation	\$21,522	\$34,983	\$(13,461)	\$21,522	\$123,042	17%
Total Budget	\$239,086	\$307,845	\$(68,759)	\$239,086	\$1,082,764	22%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$182,700	\$(182,700)	\$-	\$1,237,680	0%
Program Implementation	\$-	\$28,420	\$(28,420)	\$-	\$192,528	0%
Total Budget	\$-	\$211,120	\$(211,120)	\$-	\$1,430,208	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Portfolio Administration	\$-	\$44,109	\$(44,109)	\$-	\$141,446	0%
Portfolio EM&V	\$-	\$21,584	\$(21,584)	\$-	\$100,561	0%
Total Portfolio Budget	\$239,086	\$584,658	\$(345,572)	\$239,086	\$2,754,979	9%

Gas Target Distribution (MMBtu)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	635	1,258	(623)		635	5,575	11%
Existing Affordable Multifamily Buildings	-	1,421	(1,421)		-	9,627	0%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	-	-	-		-	-	N/A
Total	635	2,679	(2,044)		-	15,202	0%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	884,897	1,731
NENY Order(s)	910,438	1,579
Difference	(25,541)	152
Difference (%)	-3%	9%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	2,754,979	15,202
NENY Order(s)	2,124,356	19,667
Difference	630,623	(4,465)
Difference (%)	26%	-26%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

Existing 1-4 Family Homes:

During 2022, most of Central Hudson's LMI budgets for both electric and gas were invested in EmPower NY. The Program unit costs of EmPower NY have run 3x higher than ordered unit costs, resulting in a savings shortfall.

Existing Affordable Multifamily Buildings:

For Central Hudson, 2022 was a development year for the Affordable Multifamily Energy Efficiency Program (AMEEP).

Customer Awareness, Outreach & Engagement:

The Customer Awareness, Outreach & Engagement category, which includes the food banks and kits programs, overachieved significantly in electric savings due to the success of the Community Lighting Program relaunch after being dormant through the COVID-19 pandemic. Also, during the first quarter of 2022, Central Hudson's Community Lighting Program was paired with The Regulated Arrears Supplement (RAS) Program to distribute LEDs added to the steep increase in participation and overall success of the initiative.

13.2 Consolidated Edison

Electric Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$468,000	\$202,800	\$265,200	\$468,000	\$1,279,200	37%
Program Implementation	\$60,000	\$26,000	\$34,000	\$60,000	\$164,000	37%
Total Budget	\$528,000	\$228,800	\$299,200	\$528,000	\$1,443,200	37%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$3,463,211	\$5,281,827	\$(1,818,616)	\$8,929,212	\$35,879,632	25%
Program Implementation	\$320,809	\$923,969	\$(603,160)	\$1,321,406	\$8,009,846	16%
Total Budget	\$3,784,021	\$6,205,796	\$(2,421,775)	\$10,250,617	\$43,889,478	23%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$367,131	\$714,339	\$(347,208)	\$1,514,777	\$2,800,814	54%
Program Implementation	\$307,512	\$459,895	\$(152,383)	\$1,571,939	\$2,192,430	72%
Total Budget	\$674,643	\$1,174,235	\$(499,591)	\$3,086,716	\$4,993,244	62%
Portfolio Administration	\$546,757	\$328,000	\$218,757	\$1,270,079	\$2,724,670	47%
Portfolio EM&V	\$109,303	\$198,209	\$(88,906)	\$617,100	\$1,960,434	31%
Total Portfolio Budget	\$5,642,724	\$8,135,040	\$(2,492,316)	\$15,752,512	\$55,011,026	29%

Electric Target Distribution (MWh)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	119	268	(149)	119	1,285	9%
Existing Affordable Multifamily Buildings	6,634	4,965	1,669	14,402 ⁶⁸	32,371	44%
Affordable New Construction	-	-	-	-	-	N/A
Customer Awareness, Outreach & Engagement	10,362	10,040	322	55,347	74,871	74%
Total	17,115	15,273	1,842	69,868	108,527	64%

⁶⁸ For 2020, 99.8% of gross savings were evaluated, and a weighted realization rate of 46% was applied to those gross savings. The remaining 0.2% of gross savings from unevaluated measures are not included here. For 2021, 96.5% of gross savings were evaluated, and a weighted realization rate of 45% was applied to those gross savings. The remaining 3.5% of gross savings from unevaluated measures are not included here.

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$1,535,625	\$682,500	\$853,125	\$1,535,625	\$3,935,039	39%
Program Implementation	\$196,875	\$87,500	\$109,375	\$196,875	\$504,492	39%
Total Budget	\$1,732,500	\$770,000	\$962,500	\$1,732,500	\$4,439,531	39%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$18,155,625	\$23,150,393	\$(4,994,768)	\$32,038,447	\$87,305,190	37%
Program Implementation	\$2,881,906	\$4,587,050	\$(1,705,144)	\$6,555,811	\$20,753,253	32%
Total Budget	\$21,037,531	\$27,737,443	\$(6,699,912)	\$38,594,259	\$108,058,443	36%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$21,527	\$11,025	\$10,502	\$357,340	\$406,781	88%
Program Implementation	\$15,733	\$21,953	\$(6,221)	\$496,731	\$542,156	92%
Total Budget	\$37,260	\$32,979	\$4,281	\$854,072	\$948,937	90%
Portfolio Administration	\$965,463	\$686,805	\$278,658	\$1,711,922	\$3,577,494	48%
Portfolio EM&V	\$525,214	\$1,119,936	\$(594,722)	\$1,186,931	\$5,645,831	21%
Total Portfolio Budget	\$24,297,968	\$30,347,163	\$(6,049,195)	\$44,079,683	\$122,670,236	36%

Gas Target Distribution (MMBtu)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	2,214	3,147	(933)		2,214	23,586	9%
Existing Affordable Multifamily Buildings	348,061	294,786	53,274		612,580	1,178,378	52%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	1,842	1,210	633		38,669	37,262	104%
Total	352,117	299,143	52,975		653,463	1,239,226	53%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	55,011,026	108,527
NENY Order(s)	61,649,935	106,935
Difference	(6,638,909)	1,592
Difference (%)	-11%	1%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	122,670,236	1,239,226
NENY Order(s)	116,031,327	1,074,165
Difference	6,638,909	165,061
Difference (%)	6%	14%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

At a portfolio level in 2022, Con Edison's electric and gas expenditures came in lower than planned values indicated in the August 2022 Implementation Plan (IP), with an underspend of 31% for electric and 20% for gas. Savings for both commodities came in higher than planned. This variance, however, is the result of the fact that 2022 savings from Con Edison's unevaluated programs (AMEEP and the Efficiency Starter kits program) are reported in gross, consistent with the blended savings methodology applied throughout this report. Con Edison applies a 70% placeholder realization rate (RR) to unevaluated, planned savings in the IP. If the 70% placeholder RR were applied to unevaluated gross savings in 2022, electric savings would fall short of planned values by 3% and gas savings would fall short of planned values by 17%.

For the multifamily category in 2022, Con Edison underspent on funds for electric and gas and overachieved on electric and gas savings if gross savings are compared against IP targets. With the application of the 70% placeholder RR, Con Edison would fall slightly short toward achievement of planned electric savings. This savings variance is the result of a higher share of lower savings per project measures, such as lighting, than anticipated. As a result, Con Edison is targeting modern building types to acquire additional non-lighting projects. With the application of the placeholder 70% RR, fewer gas savings were achieved than planned. Lower gas savings and underspend in 2022 are attributable to the fact that Con Edison lowered non-comprehensive AMEEP gas incentives by as much as 25% in 2022 as compared to those offered through the Company's 2021 Multifamily Energy Efficiency Program offering to drive participation toward AMEEP's comprehensive pathway. Comprehensive projects, however, are more complex and time intensive. Con Edison completed one comprehensive project in 2022, which was less than expected; remaining projects were shifted to 2023.

Electric savings from the Customer Awareness, Outreach & Engagement category in 2022, which includes Con Edison's food bank and kits programs, performed above expectations. Electric spend appears significantly lower than 2022 planned spend due to cash accounting reporting from the Scorecard. If cash accounting were not applied, 2022 electric spend would only be slightly less than planned. Gas savings and spend for this category, which largely depends on the kits program, performed above expectations due to higher than anticipated gas customer response rates. With the application of the 70% placeholder RR, electric savings from the kits program would be slightly lower than planned values; gas savings would exceed planned values.

For the 1-4 Family Homes category in 2022, additional funds delivered from Con Edison to NYSERDA for its EmPower program drove savings and spending. EmPower savings came in lower than projected. Further, in December 2022, Con Edison paid NYSERDA for 2023 EmPower and Energy Advisor costs, which amounted to \$1,617,842. As a result, these costs are reflected in the EmPower and administration spend for 2022 but do not correspond to 2022 savings.

13.3 KEDLI

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$3,279,701	\$1,850,000	\$1,429,701	\$5,476,840	\$12,132,139	45%
Program Implementation	\$570,825	\$500,000	\$70,825	\$1,309,351	\$3,128,258	42%
Total Budget	\$3,850,525	\$2,350,000	\$1,500,525	\$6,786,191	\$15,260,397	44%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$735,000	\$(735,000)	\$-	\$3,839,700	0%
Program Implementation	\$-	\$157,500	\$(157,500)	\$-	\$822,793	0%
Total Budget	\$-	\$892,500	\$(892,500)	\$-	\$4,662,493	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$-	\$-	\$-	\$475,000	0%
Program Implementation	\$70,719	\$127,850	\$(57,131)	\$70,719	\$759,400	9%
Total Budget	\$70,719	\$127,850	\$(57,131)	\$70,719	\$1,234,400	6%
Portfolio Administration	\$1,113	\$271,719	\$(270,606)	\$26,398	\$1,423,281	2%
Portfolio EM&V	\$-	\$106,500	\$(106,500)	\$8,109	\$521,768	2%
Total Portfolio Budget	\$3,922,357	\$3,748,569	\$173,788	\$6,891,417	\$23,102,339	30%

Gas Target Distribution (MMBtu)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	20,233	9,542	10,691	31,530	55,776	57%
Existing Affordable Multifamily Buildings	-	10,500	(10,500)	-	54,853	0%
Affordable New Construction	-	-	-	-	-	N/A
Customer Awareness, Outreach & Engagement	-	-	-	-	4,480	0%
Total	20,233	20,042	191	31,530	115,109	27%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	23,102,339	115,109
NENY Order(s) ⁶⁹	30,101,131	278,667
Difference	(6,998,792)	(163,558)
Difference (%)	-26%	-83%

⁶⁹ Additional funding and target from a rate case has been added to the NENY Ordered budget and target for the KEDLI LMI portfolio to support the 1-4 Family Program KEDLI HEAT. After discussion with DPS Staff, it was determined this was the best way to reflect the total potential for spend and savings achievement given the additions from the rate case. The rate case authorized \$2.5 Million annually for 2020-2023. This results in \$10 Million added to the portfolio. Because additional funding was brought into the portfolio, it was determined that an associated savings target should be added as well. This was calculated using the ordered portfolio run rate of about \$108/MMBTU, resulting in 92,580 MMBTU added to the portfolio savings target. Case-19-G-0310, *Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service*, Order Approving Joint Proposal as Modified and Imposing Additional Requirements (issued and effective Aug. 12, 2021)

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In the KEDLI service territory, the KEDLI HEAT program built upon the growing momentum from 2021 to achieve higher savings than previous program years and higher than planned for 2022 in the Implementation Plan. In 2022 KEDLI HEAT expanded the pool of potential program participants by launching a moderate-income incentive pilot. An increase in participants has led to an increase in program spend and savings achieved. The KEDLI HEAT program will continue its moderate-income pilot in 2023 until it has been in market for a full year. The program will then evaluate the effectiveness of that incentive structure and determine if it would continue to be a beneficial model.

In Existing Affordable Multifamily, AMEEP did not spend or achieve any of its 2022 planned budget or target. While a significant amount of outreach was completed by the program vendor in the KEDLI territory, the current pipeline of projects is notably smaller than what National Grid experiences in KEDNY. This is due in part to the KEDLI service territory having one tenth of the multifamily coded accounts that KEDNY does. In 2022 National Grid brainstormed with PSEG LI on how to best work together for comprehensive affordable housing projects. A comprehensive project with electric and gas measures has not yet been committed in the KEDLI territory, but National Grid intends to collaborate with PSEG LI to serve that kind of project when it does. In 2023, the program will continue to complete outreach in the KEDLI territory to build awareness and interest in participating in the program. To get closer to the ordered savings target in KEDLI, the planned program budget target for AMEEP will be re-examined to determine if some of the funds may be better suited for community outreach type initiatives that bring in savings.

The Customer Awareness, Outreach, & Engagement category reflects underspend and no savings achieved for 2022. The spend reflected represents funds paid to NYSERDA to support the implementation of the Energy Advisor website. These dollars were previously included in planned portfolio admin spend. The remaining underspend and underachievement for savings is due to a slow ramp up in the launch of additional customer outreach initiatives in KEDLI. National Grid expects to realize more spend and savings for this category in 2023.

Note that for KEDLI, the Implementation Plan used as a comparison for 2022 actuals did not include the full amounts of additional rate case funding and savings target. This will be fully reflected in the Implementation Plan, to be filed May 1, 2023.

13.4 KEDNY

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$900,001	\$900,002	\$(1)	\$900,001	\$3,704,425	24%
Program Implementation	\$84,616	\$84,616	\$-	\$84,616	\$420,188	20%
Total Budget	\$984,617	\$984,618	\$(1)	\$984,617	\$4,124,613	24%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$340,886	\$2,198,229	\$(1,857,343)	\$340,886	\$12,444,089	3%
Program Implementation	\$-	\$437,779	\$(437,779)	\$-	\$2,766,384	0%
Total Budget	\$340,886	\$2,636,008	\$(2,295,122)	\$340,886	\$15,210,473	2%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$38,420	\$(38,420)	\$-	\$153,680	0%
Program Implementation	\$83,815	\$7,738	\$76,077	\$83,815	\$30,952	271%
Total Budget	\$83,815	\$46,158	\$37,657	\$83,815	\$184,632	45%
Portfolio Administration	\$84,616	\$766,313	\$(681,697)	\$84,616	\$4,113,801	2%
Portfolio EM&V	\$84,616	\$173,302	\$(88,686)	\$84,616	\$762,260	11%
Total Portfolio Budget	\$1,578,550	\$4,606,399	\$(3,027,848)	\$1,578,550	\$24,395,778	6%

Gas Target Distribution (MMBtu)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	3,720	5,967	(2,247)		3,720	31,143	12%
Existing Affordable Multifamily Buildings	2,020	27,688	(25,668)		2,020	162,702	1%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	-	-	-		-	-	N/A
Total	5,740	33,655	(27,915)		5,740	193,845	3%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	24,395,778	193,845
NENY Order(s)	24,395,776	225,844
Difference	2	(31,999)
Difference (%)	0%	-15%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In the KEDNY territory, the 1-4 Family Program under-achieved their 2022 savings target from the Implementation Plan. For this program, National Grid provides funding to NYSERDA's Empower program to fund projects within the service territory and claim the associated savings. The spend matches the amount planned for 2022 since that is an amount that is pre-funded to NYSERDA to support projects in the KEDNY service territory in 2022. The savings, however, fall short due to the actual projects having a higher run rate.

For existing Affordable Multifamily, AMEEP actuals reflect underspend and underachievement from the 2022 plan. While AMEEP built a significant pipeline of projects during the first full year the program was in market, many of the projects had installation timelines that went beyond calendar year 2022. In 2023 KEDNY will examine the AMEEP non-comprehensive process to identify areas that program design can further improve efficiencies to make the process quicker so projects can complete sooner. Comprehensive projects will have a longer project timeline due to the nature of the projects

The Customer Awareness, Outreach, & Engagement category reflects underspend and no savings achieved for 2022. The spend reflected represents funds paid to NYSERDA to support the implementation of the Energy Advisor website. These dollars were previously included in planned portfolio admin spend. The remaining underspend and underachievement for savings is due to a slow ramp up in the launch of additional customer outreach initiatives in KEDLI. National Grid expects to realize more spend and savings for this category in 2023.

13.5 National Fuel Gas Distribution Corporation

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$8,660,293	\$4,724,173	\$3,936,120	\$16,761,734	\$27,083,252	62%
Program Implementation	\$349,163	\$605,663	\$(256,500)	\$717,343	\$2,797,892	26%
Total Budget	\$9,009,456	\$5,329,836	\$3,679,620	\$17,479,077	\$29,881,144	58%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$364,001	\$(364,001)	\$-	\$1,841,173	0%
Program Implementation	\$3,600	\$90,466	\$(86,866)	\$3,600	\$467,388	1%
Total Budget	\$3,600	\$454,467	\$(450,867)	\$3,600	\$2,308,561	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$284,000	\$(284,000)	\$-	\$1,601,200	0%
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$284,000	\$(284,000)	\$-	\$1,601,200	0%
Portfolio Administration	\$377,236	\$545,097	\$(167,861)	\$377,236	\$2,636,741	14%
Portfolio EM&V	\$-	\$181,699	\$(181,699)	\$-	\$728,914	0%
Total Portfolio Budget	\$9,390,292	\$6,795,099	\$2,595,193	\$17,859,913	\$37,156,560	48%

Gas Target Distribution (MMBtu)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	24,658	21,781	2,877	52,415	141,963	37%
Existing Affordable Multifamily Buildings	-	4,823	(4,823)	-	21,917	0%
Affordable New Construction	-	-	-	-	-	N/A
Customer Awareness, Outreach & Engagement	-	-	-	-	-	N/A
Total	24,658	26,604	(1,946)	52,415	163,880	32%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	37,156,560	163,880
NENY Order(s)	40,441,391	409,257
Difference	(3,284,831)	(245,377)
Difference (%)	-8%	-86%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In 2022, most of National Fuel Gas Distribution Corporation's (NFGDC) LMI budget was invested in EmPower. Program unit costs of EmPower have been higher than ordered unit costs, resulting in a savings shortfall. 2022 was a development year for the Affordable Multifamily Energy Efficiency Program (AMEEP), NFGDC has comprehensive and non-comprehensive AMEEP projects starting in 2023.

13.6 New York State Energy Research & Development Authority

CEF Budget Distribution						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$63,328,858	\$43,049,411	\$20,279,447	\$163,358,714	\$167,219,742	98%
Program Implementation	\$8,716,634	\$7,193,507	\$1,523,127	\$22,632,845	\$34,686,397	65%
Research and Technology Studies	\$-	\$150,000	\$(150,000)	\$-	\$400,000	0%
Tools, Training, and Replication	\$20,000	\$350,000	\$(330,000)	\$28,333	\$973,000	3%
Business Support	\$49,432	\$100,000	\$(50,568)	\$49,432	\$350,000	14%
Total Budget	\$72,114,925	\$50,842,918	\$21,272,007	\$186,069,324	\$203,629,139	91%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$6,675,014	\$17,058,737	\$(10,383,723)	\$19,195,064	\$153,507,505	13%
Program Implementation	\$1,447,066	\$1,892,586	\$(445,520)	\$5,808,832	\$21,750,041	27%
Research and Technology Studies	\$5,974	\$-	\$5,974	\$5,974	\$3,000,000	0%
Tools, Training, and Replication	\$568,916	\$904,518	\$(335,602)	\$1,104,618	\$10,136,833	11%
Total Budget	\$8,696,969	\$19,855,841	\$(11,158,872)	\$26,114,487	\$188,394,379	14%
Affordable New Construction						
Incentives & Services	\$16,549,398	\$6,691,835	\$9,857,563	\$26,100,640	\$124,704,055	21%
Program Implementation	\$754,167	\$538,288	\$215,879	\$2,252,840	\$3,526,855	64%
Tools, Training, and Replication	\$459,587	\$950,000	\$(490,413)	\$1,060,308	\$7,088,070	15%

Total Budget	\$17,763,153	\$8,180,123	\$9,583,030		\$29,413,789	\$135,318,980	22%
Customer Awareness, Outreach & Engagement							
Incentives & Services	\$377,840	\$805,691	\$(427,851)		\$1,004,350	\$4,057,742	25%
Program Implementation	\$661,626	\$1,564,863	\$(903,237)		\$979,700	\$6,988,271	14%
Tools, Training, and Replication	\$1,624,088	\$4,266,196	\$(2,642,108)		\$1,704,202	\$39,210,900	4%
Total Budget	\$2,663,554	\$6,636,750	\$(3,973,196)		\$3,688,252	\$50,256,913	7%
Pilots and Demonstrations							
Program Implementation	\$468,966	\$213,166	\$255,800		\$468,966	\$2,443,533	19%
Total Budget	\$468,966	\$213,166	\$255,800		\$468,966	\$2,443,533	19%
LMI Solar							
Incentives & Services	\$811,517	\$1,200,000	\$(388,484)		\$2,725,940	\$10,962,471	25%
Program Implementation	\$25,127	\$100,000	\$(74,873)		\$288,166	\$750,148	38%
Total Budget	\$836,644	\$1,300,000	\$(463,356)		\$3,014,106	\$11,712,619	26%
Electrification							
Incentives & Services	\$1,850,184	\$3,358,000	\$(1,507,816)		\$4,893,584	\$27,087,111	18%
Program Implementation	\$313,106	\$260,000	\$53,106		\$1,114,779	\$1,912,889	58%
Tools, Training, and Replication	\$39,822	\$250,000	\$(210,179)		\$52,372	\$1,000,000	5%
Total Budget	\$2,203,112	\$3,868,000	\$(1,664,888)		\$6,060,736	\$30,000,000	20%
Healthy Homes VBP							
Incentives & Services	\$20,220	\$116,370	\$(96,150)		\$24,294	\$120,444	20%
Program Implementation	\$11,428	\$81,186	\$(69,758)		\$148,614	\$368,372	40%
Research and Technology Studies	\$498,029	\$1,987,245	\$(1,489,216)		\$1,563,024	\$9,335,871	17%
Total Budget	\$529,678	\$2,184,801	\$(1,655,123)		\$1,735,932	\$9,824,687	18%
Total Portfolio Budget	\$105,276,999	\$93,081,599	\$12,195,400		\$256,565,593	\$631,580,250	41%

Electric Target Distribution (MWh) - Direct							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	3,983	4,428	(445)		10,538	16,929	62%
Existing Affordable Multifamily Buildings	6,857	9,562	(2,705)		21,100	95,463	22%
Affordable New Construction	8,192	6,296	1,896		14,254	81,618	17%
Customer Awareness, Outreach & Engagement*	-	-	-		-	-	N/A
Pilots and Demonstrations*	-	-	-		-	-	N/A
Healthy Homes Pilot	1	30	(29)		2	300	1%
Total	19,034	20,316	(1,282)		45,894	194,310	24%

*As noted in the 2020 Implementation Plan, acquired savings are projected to start in 2022

Electric Target Distribution (MWh) - Indirect							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing Affordable Multifamily Buildings	-	1,857	(1,857)		-	234,880	0%
Affordable New Construction	-	2,659	(2,659)		-	33,499	0%
Healthy Homes VBP	-	-	-		-	2856,000	0%
Total	-	4,516	(4,516)		-	324,379	0%

Gas Target Distribution (MMBtu) – Direct							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	140,567	137,145	3,422		386,654	540,708	72%
Existing Affordable Multifamily Buildings	64,835	298,033	(233,198)		160,194	2,992,233	5%
Affordable New Construction	81,453	42,424	39,029		157,192	527,241	30%
Customer Awareness, Outreach & Engagement*	-	-	-		-	-	N/A
Pilots and Demonstrations*	-	-	-		-	-	N/A
Healthy Homes Pilot	-	800	(800)		-	8,200	0%
Total	286,855	478,402	(191,547)		704,040	4,068,382	17%

Gas Target Distribution (MMBtu) - Indirect							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing Affordable Multifamily Buildings	-	77,307	(77,307)		-	4,758,599	0%
Affordable New Construction	-	14,688	(14,688)		-	194,793	0%
Healthy Homes VBP	-	-	-		-	1,496,000	0%
Total	-	91,995	(91,995)		-	6,449,392	0%

Other Fuels Target Distribution (MMBtu) – Direct							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	76,097	46,826	29,271		209,697	194,800	108%
Existing Affordable Multifamily Buildings	37,673	48,171	(10,498)		40,251	560,832	7%
Affordable New Construction	-	1,163	(1,163)		1,945	20,145	10%
Customer Awareness, Outreach & Engagement	-	-	-		-	-	N/A
Pilots and Demonstrations	-	-	-		-	-	N/A
Healthy Homes VBP	1	200	(199)		1	1,800	0%
Total	113,771	96,360	17,411		251,894	777,577	32%

Other Fuels Target Distribution (MMBtu) – Indirect [plans discounted 50%]							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	Implementation Plan Projection (Utilities 2020-2025; NYSERDA 2020-2030)	% Achieved to Implementation Plan Projection
Existing Affordable Multifamily Buildings	-	19,327	(19,327)		-	1,291,843	0%
Affordable New Construction	-	774	(774)		-	10,261	0%
Healthy Homes VBP	-	-	-		-	374,000	0%
Total	-	20,101	(20,101)		-	1,676,104	0%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In 2022, NYSERDA made significant investments in the LMI sector through existing program delivery, new initiative development, and in cultivating long-term partnerships that will help accelerate the adoption of efficiency and electrification in the long term. Variances from the 2022 implementation plan are addressed below and will be reflected in the 2023 LMI Implementation Plan.

At the portfolio level, NYSERDA's spend was on track with projected annual expenditures. Savings on both gas and electric fell slightly short of projections for the portfolio.

As noted in [Section 5.1.1](#), the EmPower and AHP programs continued to experience significant demand in 2022. The programs collectively administered \$63,328,858 in incentives to serve 12,905 homes. Over 89% of program budget went to incentives, with the initiative underspending on implementation. NYSERDA has entered into agreements with each utility to administer utility funding through EmPower. Additionally, NYSERDA will leverage other funding sources including HEAP, WAP, American Rescue Plan Act (ARPA), federal funding, RGGI and others to serve low-income customers through the EmPower program infrastructure.

Since the 2020 Implementation Plan filing and as noted in the narrative, NYSERDA's investments in the Existing Affordable Multifamily and Affordable New Construction portfolio have shifted from resource acquisition to market transformation. As noted in [Section 6.1.4](#), the Multifamily Performance Program closed in 2022. Existing Multifamily underachieved on both MMBtu and electric as partnerships with Housing Agencies ramp up.

This shortfall is driven by a few factors: 1) Continued project delays due to residual supply chain issues, increased material costs, and other inflationary effects, including a few large canceled projects, and 2) change in program interventions away from standard offer programs toward market transformation efforts and high-impact partnerships that will deliver replication and scale through industry forces and regulatory levers. NYSERDA's significant up-front investment in the housing agency partnerships will position the housing agencies to require efficient all-electric new construction and retrofits in their design guidelines ahead of anticipated code changes and other mandates. This may result in a lag in direct savings in the near-term, but it will be overcompensated by the direct and indirect savings in the mid-term. Affordable New Construction experienced increased demand in 2022 and achieved both MMBtu and electric targets for 2022.

As noted in Section 10.1.2, The Healthy Homes Pilot targeted launch continued to experience delays and complications of the COVID-19 pandemic. The pilot worked to streamline the process to increase pilot eligibility.

13.7 New York State Electric & Gas

Electric Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$390,452	\$414,861	\$(24,409)	\$1,141,159	\$4,180,310	27%
Program Implementation	\$67,013	\$53,187	\$13,826	\$153,584	\$531,948	29%
Tools, Training, and Replication	\$-	\$-	\$-	\$4,074	\$-	N/A
Total Budget	\$457,464	\$468,048	\$(10,584)	\$1,298,817	\$4,712,258	28%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$73,158	\$327,026	\$(253,868)	\$337,906	\$3,238,776	10%
Program Implementation	\$16,795	\$16,795	\$0	\$90,260	\$132,272	68%
Tools, Training, and Replication	\$326	\$-	\$326	\$3,042	\$-	N/A
Total Budget	\$90,279	\$343,821	\$(253,542)	\$431,208	\$3,371,048	13%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$109,770	0%
Program Implementation	\$-	\$-	\$-	\$-	\$856,209	0%
Total Budget	\$-	\$-	\$-	\$-	\$965,979	0%
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$358,945	\$105,466	\$253,479	\$358,945	\$230,466	156%
Program Implementation	\$152,591	\$32,659	\$119,932	\$152,591	\$65,659	232%
Tools, Training, and Replication	\$57,674	\$-	\$57,674	\$57,674	\$-	N/A

Total Budget	\$569,210	\$138,125	\$431,085		\$569,210	\$296,125	192%
Portfolio Administration	\$48,545	\$61,693	\$(13,148)		\$72,774	\$572,306	13%
Portfolio EM&V	\$53,069	\$35,227	\$17,842		\$53,069	\$262,139	20%
Total Portfolio Budget	\$1,218,567	\$1,046,914	\$171,654		\$2,425,078	\$10,179,855	24%

Electric Target Distribution (MWh)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	251	367	(116)		855	3,599	24%
Existing Affordable Multifamily Buildings	178	631	(452)		655	7,325	9%
Affordable New Construction	-	-	-		-	489	0%
Customer Awareness, Outreach & Engagement	7,328	2,572	4,756		7,328	5,772	127%
Total	7,758	3,570	4,188		8,838	17,185	51%

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$983,982	\$982,387	\$1,595	\$1,668,011	\$8,738,694	19%
Program Implementation	\$139,773	\$125,947	\$13,826	\$201,890	\$1,095,278	18%
Tools, Training, and Replication	\$-	\$-	\$-	\$545	\$-	N/A
Total Budget	\$1,123,755	\$1,108,334	\$15,421	\$1,870,446	\$9,833,972	19%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$23,863	\$763,535	\$(739,672)	\$52,637	\$6,590,468	1%
Program Implementation	\$39,567	\$39,257	\$310	\$92,664	\$182,041	51%
Tools, Training, and Replication	\$1,271	\$-	\$1,271	\$1,634	\$-	N/A
Total Budget	\$64,701	\$802,792	\$(738,091)	\$146,935	\$6,772,509	2%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$72,045	0%
Program Implementation	\$-	\$-	\$-	\$-	\$561,939	0%
Tools, Training, and Replication	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$633,984	0%
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$60,508	\$-	\$60,508	\$60,508	\$-	N/A
Program Implementation	\$35,930	\$-	\$35,930	\$35,930	\$-	N/A

Tools, Training, and Replication	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$96,438	\$-	\$96,438	\$96,438	\$-	N/A
Portfolio Administration	\$113,366	\$127,176	\$(13,810)	\$146,699	\$1,078,249	14%
Portfolio EM&V	\$37,785	\$83,712	\$(45,927)	\$37,785	\$559,402	7%
Total Portfolio Budget	\$1,436,044	\$2,122,014	\$(685,970)	\$2,298,302	\$18,878,116	12%

Gas Target Distribution (MMBtu)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	3,292	4,716	(1,424)	6,063	41,032	15%
Existing Affordable Multifamily Buildings	800	3,500	(2,700)	1,473	36,149	4%
Affordable New Construction	-	-	-	-	1,778	0%
Customer Awareness, Outreach & Engagement	3,902	-	3,902	3,902	-	N/A
Total	7,995	8,216	(221)	11,437	78,960	14%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	10,179,855	17,185
NENY Order(s)	10,296,587	17,862
Difference	(116,733)	(677)
Difference (%)	-1%	-4%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	18,878,116	78,960
NENY Order(s)	18,894,023	174,910
Difference	(15,907)	(95,950)
Difference (%)	0%	-76%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In 2022 NYSEG was fully invested in EmPower NY for its 1-4 Family Electric/Gas Residential program. NYSEG will continue to invest approximately 60% of the Ordered LMI budgets to these efforts through 2025 with the remaining 40% tentatively allocated to AMEEP. The achieved energy savings did not align with the original ordered savings targets or planned savings targets. This is due to misalignment of actual costs of the 1-4 family homes program compared to the targeted costs per savings in our orders. It should be noted that the actual costs of 1-4 family program appears to be in alignment with national costs/industry standard. While we plan to maintain full investment of Targeted Ordered Expenditures, the reality of the costs per savings will result in shortfalls on Ordered Savings Targets. Future Implementation Plans will be adjusted to reflect those costs.

Specific to AMEEP, there was an exceptionally low response rate relative to our plan. NYSEG has identified and contacted hundreds of LMI multifamily buildings and building owners, using a combination of in-person solicitation, participation in industry events, direct mail, and email campaigns. Almost 100 site assessments were completed by year-end. Despite the high number of solicitations and audits completed, property Managers/Owners are just not signing up for the projects as quickly as we had hoped. Follow up efforts will continue. While we continue to conduct outreach, it seems that the low participation rates are not due to lack of awareness. Rather there are other barriers that need to be explored as measured by the number of site assessments compared to the number of buildings actually committing to a project. and signing contracts

Uninvested LMI dollars from 2019-2022 were repurposed into supplemental Customer Awareness and Outreach Engagement programs. This is done to help cross promote Empower and AMEEP in the community while also helping to offset savings because of low participation in AMEEP and relatively high costs per savings in Empower.

The significant delta between Implementation the Plan and Actual/acquired reflects the shift toward the end of 2022 when it became apparent dollars from AMEEP would not be invested and at the same time demand for our supplemental programs was increasing.

13.8 NMPC

Electric Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$463,936	\$463,935	\$1	\$463,936	\$2,792,459	17%
Program Implementation	\$59,277	\$59,277	\$(0)	\$59,277	\$390,976	15%
Total Budget	\$523,213	\$523,213	\$0	\$523,213	\$3,183,435	16%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$350,375	\$(350,375)	\$-	\$2,748,972	0%
Program Implementation	\$-	\$79,631	\$(79,631)	\$-	\$624,766	0%
Total Budget	\$-	\$430,005	\$(430,005)	\$-	\$3,373,739	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$369,870	\$398,248	\$(28,378)	\$369,870	\$623,541	59%
Program Implementation	\$31,431	\$1,800	\$29,631	\$31,431	\$7,200	437%
Total Budget	\$401,301	\$400,048	\$1,253	\$401,301	\$630,741	64%
Portfolio Administration	\$53,879	\$247,746	\$(193,867)	\$53,879	\$1,447,761	4%
Portfolio EM&V	\$17,934	\$33,861	\$(15,927)	\$17,934	\$264,405	7%
Total Portfolio Budget	\$996,327	\$1,634,872	\$(638,545)	\$996,327	\$8,900,080	11%

Electric Target Distribution (MWh)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	381	623	(243)		381	2,824	13%
Existing Affordable Multifamily Buildings	-	508	(508)		-	3,987	0%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	7,604	4,653	2,952		7,604	6,584	116%
Total	7,985	5,784	2,201		7,985	13,395	60%

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$1,001,802	\$1,001,801	\$1	\$1,001,802	\$5,831,332	17%
Program Implementation	\$94,186	\$94,186	\$-	\$94,186	\$672,079	14%
Total Budget	\$1,095,988	\$1,095,987	\$1	\$1,095,988	\$6,503,411	17%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$1,135,220	\$(1,135,220)	\$-	\$7,969,500	0%
Program Implementation	\$-	\$258,004	\$(258,004)	\$-	\$1,811,250	0%
Total Budget	\$-	\$1,393,224	\$(1,393,224)	\$-	\$9,780,749	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$38,803	\$(38,803)	\$-	\$155,210	0%
Program Implementation	\$75,957	\$7,317	\$68,640	\$75,957	\$29,269	260%
Total Budget	\$75,957	\$46,120	\$29,837	\$75,957	\$184,479	41%
Portfolio Administration	\$94,186	\$590,795	\$(496,609)	\$94,186	\$3,630,820	3%
Portfolio EM&V	\$94,186	\$146,928	\$(52,742)	\$94,186	\$667,391	14%
Total Portfolio Budget	\$1,360,317	\$3,273,054	\$(1,912,737)	\$1,360,317	\$20,766,851	7%

Gas Target Distribution (MMBtu)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	2,924	4,658	(1,735)		2,924	35,007	8%
Existing Affordable Multifamily Buildings	-	16,340	(16,340)		-	117,660	0%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	-	-	-		-	-	N/A
Total	2,924	20,998	(18,075)		2,924	152,667	2%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	8,900,080	13,395
NENY Order(s)	8,900,079	15,439
Difference	1	(2,044)
Difference (%)	0%	-14%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	20,766,851	152,667
NENY Order(s)	20,766,851	192,251
Difference	(0)	(39,584)
Difference (%)	0%	-23%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In the NMPC territory, the 1-4 Family Homes program under-achieved the 2022 savings target from the Implementation Plan. For this program, National Grid provides funding to NYSERDA's Empower program to fund projects within the service territory and claim the associated savings. The spend matches the amount planned for 2022 since that is an amount that is pre-funded to NYSERDA to support projects in the NMPC service territory in 2022. The savings, however, fall short due the actual projects having a higher run rate.

For Existing Affordable Multifamily, AMEEP did not spend or achieve any of its 2022 planned budget or target in NMPC. The 2022 program year closed with many projects close to receiving incentives for work completed, however they will be reflected in 2023 due to timing. The overall pipeline for NMPC has been rather low. To build a stronger pipeline, National Grid is working closely with NFG and NYSEG RG&E to build awareness of the program in our territories. The Implementation Contractor for this program completes regular outreach in market. National Grid plans to expand upon the outreach completed by the Implementation Contractor in 2023 by getting out into the community more and exploring alternative marketing efforts.

Within the Customer Awareness, Outreach, & Engagement category, NMPC continued to operate the LED Foodbank program. In 2022 this expanded to collaboration with NYSEG RG&E to cover areas where our service territories border each other. National Grid plans to continue the LED Foodbank program in 2023 and research additional measures that can be provided to customers in this model. The spend for this program was not far off from the planned spend. The implementation spend reflected represents funds paid to NYSERDA to support the implementation of the Energy Advisor website. These dollars were previously included in planned portfolio admin spend.

13.9 Orange & Rockland

Electric Budget							
	2022 Spend*	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes							
Incentives & Services	\$397,016	\$397,800	\$(784)		\$397,016	\$1,255,800	32%
Program Implementation	\$-	\$112,200	\$(112,200)		\$-	\$354,200	0%
Total Budget	\$397,016	\$510,000	\$(112,984)		\$397,016	\$1,610,000	25%
Existing Affordable Multifamily Buildings							
Incentives & Services	\$-	\$19,782	\$(19,782)		\$-	\$101,822	0%
Program Implementation	\$-	\$4,946	\$(4,946)		\$-	\$25,455	0%
Total Budget	\$-	\$24,728	\$(24,728)		\$-	\$127,277	0%
Affordable New Construction							
Incentives & Services	\$-	\$-	\$-		\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-		\$-	\$-	N/A
Total Budget	\$-	\$-	\$-		\$-	\$-	N/A
Customer Awareness, Outreach & Engagement							
Incentives & Services	\$58,630	\$112,147	\$(53,518)		\$58,630	\$272,218	22%
Program Implementation	\$16,490	\$46,725	\$(30,235)		\$16,490	\$79,275	21%
Total Budget	\$75,119	\$158,872	\$(83,753)		\$75,119	\$351,493	21%
Portfolio Administration	\$-	\$42,600	\$(42,600)		\$-	\$171,992	0%
Portfolio EM&V	\$-	\$14,400	\$(14,400)		\$-	\$60,897	0%
Total Portfolio Budget	\$472,136	\$750,600	\$(278,464)		\$472,136	\$2,321,659	20%

* All 2022 expenditures, with the exception of Customer Awareness & Engagement, represent payments made by NYSEDA's EmPower and Energy Advisor Programs to benefit participating O&R electric customers during 2022. The pre-payments made by O&R to NYSEDA for running these two programs amounted to \$1,077,371 during 2022.

Customer Awareness & Engagement expenditures during 2022 were specifically for O&R's Foodbank Program.

Electric Target Distribution (MWh)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	154	525	(371)		154	1,349	11%
Existing Affordable Multifamily Buildings	-	40	(40)		-	207	0%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	1,649*	1,814	(165)		1,649	2,657	62%
Total	1,803	2,379	(576)		1,803	4,213	43%

*1,649 MWh through unevaluated Foodbank program

Gas Budget						
	2022 Spend*	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$966,012	\$1,070,160	\$(104,148)	\$966,012	\$2,240,160	43%
Program Implementation	\$-	\$301,840	\$(301,840)	\$-	\$631,840	0%
Total Budget	\$966,012	\$1,372,000	\$(405,988)	\$966,012	\$2,872,000	34%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$-	\$34,167	\$(34,167)	\$-	\$217,270	0%
Program Implementation	\$-	\$8,542	\$(8,542)	\$-	\$54,318	0%
Total Budget	\$-	\$42,709	\$(42,709)	\$-	\$271,588	0%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$-	N/A
Program Implementation	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$-	N/A
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$-	\$39,956	\$(39,956)	\$-	\$167,116	0%
Program Implementation	\$-	\$15,500	\$(15,500)	\$-	\$29,450	0%
Total Budget	\$-	\$55,456	\$(55,456)	\$-	\$196,566	0%
Portfolio Administration	\$-	\$65,000	\$(65,000)	\$-	\$262,724	0%
Portfolio EM&V	\$-	\$28,500	\$(28,500)	\$-	\$108,825	0%
Total Portfolio Budget	\$966,012	\$1,563,664	\$(597,652)	\$966,012	\$3,711,702	26%

* All 2022 expenditures represent payments made by NYSERDA's EmPower and Energy Advisor Programs to benefit participating O&R gas customers during 2022. The pre-payments made by O&R to NYSERDA for running these two programs amounted to \$2,681,216 during 2022.

Gas Target Distribution (MMBtu)							
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance		2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	2,687	4,934	(2,247)		2,687	12,409	22%
Existing Affordable Multifamily Buildings	-	382	(382)		-	2,184	0%
Affordable New Construction	-	-	-		-	-	N/A
Customer Awareness, Outreach & Engagement	-	3,644	(3,644)		-	17,226	0%
Total	2,687	8,960	(6,273)		2,687	31,819	8%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	2,321,659	4,213
NENY Order(s)	2,321,659	4,027
Difference	(0)	186
Difference (%)	0%	5%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	3,711,702	31,819
NENY Order(s)	3,711,702	34,362
Difference	0	(2,543)
Difference (%)	0%	-8%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In 2022, Orange & Rockland continued its partnership with food banks to distribute 11,496 LED light bulb kits. The kits included messaging to educate customers about energy efficiency and included a link to Orange & Rockland's EmPower Webpage to drive awareness of the program. Orange & Rockland referred 3,807 pre-identified LMI customers directly to the EmPower program in 2022. Of those referrals, 428 customers enrolled and completed the program. In December 2022, Orange and Rockland Launched its LMI enhanced rebates on its MYORU Store. Customers that are pre-qualified as LMI are eligible for an enhanced rebate at checkout for various energy saving devices.

The above-mentioned programs have been ramping up steadily in 2022 and we expect them to perform much better against their Implementation Plan budgets and targets in 2023.

Regarding the multifamily sector AMEEP program, O&R has struggled to recruit customers using our contractor network. Therefore, in 2023 we will commence doing direct utility outreach and engagement with key stakeholders in this sector including public housing authorities. We are hopeful that this type of engagement will make potential customers less skeptical of the incentive opportunities offered under the program.

13.10 Rochester Gas & Electric

Electric Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$189,237	\$225,674	\$(36,437)	\$615,921	\$2,077,563	30%
Program Implementation	\$40,453	\$28,933	\$11,520	\$91,570	\$266,120	34%
Tools, Training, and Replication	\$(0)	\$-	\$(0)	\$3,058	\$-	N/A
Total Budget	\$229,690	\$254,607	\$(24,917)	\$710,549	\$2,343,683	30%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$100,359	\$180,949	\$(80,590)	\$406,238	\$1,690,479	24%
Program Implementation	\$9,293	\$9,293	\$(0)	\$64,320	\$87,704	73%
Tools, Training, and Replication	\$(0)	\$-	\$(0)	\$2,039	\$-	N/A
Total Budget	\$109,652	\$190,242	\$(80,590)	\$472,596	\$1,778,183	27%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$77,679	0%
Program Implementation	\$-	\$-	\$-	\$-	\$605,886	0%
Tools, Training, and Replication	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$683,565	0%
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$181,042	\$40,500	\$140,542	\$181,042	\$85,500	212%
Program Implementation	\$57,430	\$20,412	\$37,018	\$57,430	\$42,412	135%

Tools, Training, and Replication	\$38,431	\$-	\$38,431	\$38,431	\$-	N/A
Total Budget	\$276,903	\$60,912	\$215,991	\$276,903	\$127,912	216%
Portfolio Administration	\$27,397	\$37,559	\$(10,162)	\$42,578	\$319,948	13%
Portfolio EM&V	\$24,045	\$19,346	\$4,699	\$24,045	\$134,615	18%
Total Portfolio Budget	\$667,687	\$562,666	\$105,021	\$1,526,671	\$5,387,906	28%

Electric Target Distribution (MWh)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	176	202	(26)	693	1,980	35%
Existing Affordable Multifamily Buildings	428	348	80	952	4,150	23%
Affordable New Construction	-	-	-	-	346	0%
Customer Awareness, Outreach & Engagement	3,345	1,134	2,211	3,345	2,334	143%
Total	3,949	1,684	2,265	4,990	8,810	57%

Gas Budget						
	2022 Spend	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Spend	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes						
Incentives & Services	\$538,548	\$538,554	\$(6)	\$927,835	\$4,284,889	22%
Program Implementation	\$80,566	\$69,045	\$11,521	\$118,643	\$537,731	22%
Tools, Training, and Replication	\$-	\$-	\$-	\$205	\$-	N/A
Total Budget	\$619,114	\$607,599	\$11,515	\$1,046,683	\$4,822,620	22%
Existing Affordable Multifamily Buildings						
Incentives & Services	\$91,315	\$421,095	\$(329,780)	\$162,536	\$3,262,179	5%
Program Implementation	\$23,562	\$21,654	\$1,908	\$66,459	\$113,797	58%
Tools, Training, and Replication	\$-	\$-	\$-	\$137	\$-	N/A
Total Budget	\$114,877	\$442,749	\$(327,872)	\$229,131	\$3,375,976	7%
Affordable New Construction						
Incentives & Services	\$-	\$-	\$-	\$-	\$39,882	0%
Program Implementation	\$-	\$-	\$-	\$-	\$311,076	0%
Tools, Training, and Replication	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$-	\$-	\$-	\$-	\$350,958	0%
Customer Awareness, Outreach & Engagement						
Incentives & Services	\$36,269	\$-	\$36,269	\$36,269	\$-	N/A
Program Implementation	\$11,737	\$-	\$11,737	\$11,737	\$-	N/A

Tools, Training, and Replication	\$-	\$-	\$-	\$-	\$-	N/A
Total Budget	\$48,005	\$-	\$48,005	\$48,005	\$-	N/A
Portfolio Administration	\$62,150	\$73,661	\$(11,511)	\$81,271	\$546,547	15%
Portfolio EM&V	\$20,714	\$46,115	\$(25,401)	\$20,714	\$273,880	8%
Total Portfolio Budget	\$864,860	\$1,170,124	\$(305,264)	\$1,425,804	\$9,369,981	15%

Gas Target Distribution (MMBtu)						
	2022 Savings	2022 Implementation Plan Projection	2022 Spend to 2022 Implementation Plan Projection Variance	2020 - 2022 Savings	2020-2025 Implementation Plan Projection	% Achieved to Implementation Plan Projection
Existing 1-4 Family Homes	1,986	2,600	(614)	3,765	32,317	12%
Existing Affordable Multifamily Buildings	3,050	1,930	1,120	3,392	20,203	17%
Affordable New Construction	-	-	-	-	984	0%
Customer Awareness, Outreach & Engagement	789	-	789	789	-	N/A
Total	5,825	4,530	1,295	7,947	53,504	15%

Implementation Plan Projections vs. NE: NY Ordered Budgets & Targets

Electric	2020-2025 Electric Budget	2020-2025 Target (MWh)
LMI Implementation Plan	5,387,906	8,810
NENY Order(s)	5,243,397	9,096
Difference	144,509	(286)
Difference (%)	3%	-3%

Gas	2020-2025 Gas Budget	2020-2025 Target (MMBtu)
LMI Implementation Plan	9,369,981	53,504
NENY Order(s)	9,253,656	85,666
Difference	116,325	(32,162)
Difference (%)	1%	-46%

Significant 2022 Expenditures and Achievement Variance Relative to Implementation Plan Budgets & Targets Explanation

In 2022 RG&E was fully invested in EmPower NY for its **1-4 Family Electric/Gas Residential program**. RG&E will continue to invest approximately 60% of the Ordered LMI budgets to these efforts through 2025 with the remaining 40% tentatively allocated to AMEEP. The achieved energy savings did not align with the original ordered savings targets or planned savings targets. This is due to misalignment of actual costs of the 1-4 family homes program compared to the targeted costs per savings in our orders. It should be noted that the actual costs of 1-4 family program appears to be in alignment with national costs/industry standard. While we plan to maintain full investment of Targeted Ordered Expenditures the reality of the costs per savings will result in shortfalls on Ordered Savings Targets. Future Implementation Plans will be adjusted to reflect those costs.

Specific to **AMEEP**, there was an exceptionally low response rate relative to our plan. RG&E has identified and contacted hundreds of LMI multifamily buildings and building owners, using a combination of in-person solicitation, participation in industry events, direct mail, and email campaigns. Almost 100 site assessments were completed by year-end. Despite the high number of solicitations and audits completed, property Managers/Owners are just not signing up for the projects as quickly as we had hoped. Follow up efforts will continue. While we continue to conduct outreach, it seems that the low participation rates are not due to lack of awareness. Rather there are other barriers that need to be explored as measured by the number of site assessments compared to the number of buildings actually committing to a project and signing contracts

Uninvested LMI dollars from 2019-2022 were repurposed into supplemental **Customer Awareness and Outreach Engagement programs**. This is done to help cross promote Empower and AMEEP in the community while also helping to offset savings because of low participation in AMEEP and relatively high costs per savings in Empower. The significant delta between the Plan and Actual/acquired reflects the shift toward the end of 2022 when it became apparent dollars from AMEEP would not be invested and at the same time demand for our supplemental programs was increasing

14. Appendix B: LMI Portfolio Unit Costs

14.1 Utility Electric LMI Energy Efficiency Portfolio Unit Costs

Program Administrator	Planned 2020-2025 NE: NY (\$/MWh)	Actual to date 2020-2022 (\$/MWh)	Difference between Actual to date and Planned NE: NY	Projected 2020-2025 per Statewide Implementation Plan	Difference between Statewide Implementation Plan and Planned 2020-2025 NE: NY
Central Hudson	577	135	-124%	511	-12%
Con Edison	577	225	-88%	507	-13%
NMPC	576	125	-129%	664	14%
NYSEG	576	274	-71%	592	3%
O&R	577	262	-75%	551	-5%
RG&E	576	306	-61%	612	6%

14.2 Utility Gas LMI Energy Efficiency Program Unit Costs

Program Administrator	Planned 2020-2025 NE: NY (\$/MMBtu)	Actual to date 2020-2022 (\$/MMBtu)	Difference between Actual to date and Planned NE: NY	Projected 2020-2025 per Statewide Implementation Plan	Difference between Statewide Implementation Plan and Planned 2020-2025 NE: NY
Central Hudson	108	376	111%	181	51%
Con Edison	108	67	-46%	99	-9%
KEDLI	108	219	68%	201	60%
KEDNY	108	275	87%	126	15%
NFG	99	341	110%	227	79%
NMPC	108	465	125%	136	23%
NYSEG	108	201	60%	239	76%
O&R	108	360	108%	117	8%
RG&E	108	179	50%	175	47%

14.3 NYSERDA LMI Unit Costs (\$/MMBtu-e)

Program Administrator	Actual to date 2020-2022 (Acquired) (\$/MMBtu-e)	2020-2030 Unit Cost Target (Direct + Indirect) (\$/MMBtu-e)	Projected 2020-2030 per Statewide Implementation Plan (Direct) (\$/MMBtu-e)	Projected 2020-2030 per Statewide Implementation Plan (Direct + Indirect) (\$/MMBtu-e)
NYSERDA	231	142	115	43

As summarized in Appendix A: NYSERDA, acquired savings and expenditures to date for the NYSERDA LMI portfolio are heavily weighted by 1-4 family homes production, which carries higher relative project costs and lower energy savings potential than multifamily and new construction. 49% of savings projected are indirect savings 88% of direct portfolio savings are comprised of multifamily and new construction initiatives which have longer project completion timelines. In addition, 15% of the budget is allocated to initiatives that do not report energy savings under the CEF LMI portfolio (outreach, education, solar, LMI electrification pilots).

15. Appendix C: Measure Mix by Program Administrator

15.1 1-4 Family Homes MWh Measure Mix⁷⁰

Program Administrator	2022 MWh Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Other
Central Hudson	51	29%	6%	62%	2%	0%	0%	0%		
Con Edison	119	60%	37%	3%	0%	0%	0%	0%		
NYSERDA ⁷¹	3,983	42%	24%	29%	2%	1%	1%	1%		
NYSEG	252	52%	7%	35%	2%	0%	0%	4%		
National Grid (NMPC)	381	70%	14%	14%	1%	0%	0%	0%		
Orange & Rockland	149	54%	32%	12%	0%	0%	0%	3%		
RG&E	177	75%	7%	15%	3%	1%	0%	0%		
Total	5,111	46%	22%	27%	2%	1%	1%	1%	0%	0%

⁷⁰ Measure mix categories consistent with CE-06 guidance: <https://dps.ny.gov/clean-energy-guidance-documents>.

⁷¹ NYSERDA measure mix is specific to EmPower NY. Please note that AHP savings are not included.

15.2 1-4 Family Homes MMBtu Measure Mix

Program Administrator	2022 MMBtu Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Other
Central Hudson	635			96%	0%	0%	1%	3%		
Con Edison	2,214			95%	0%	0%	1%	4%		
National Grid (KEDLI)	20,233			86%	7%	1%	2%	4%		
National Grid (KEDNY)	3,720			96%	0%	0%	1%	2%		
NFG	24,658			81%	3%	0%	12%	4%		
NYSERDA ⁷²	216,663		0%	89%	2%	0%	7%	2%		
NYSEG	3,293			89%	2%	0%	7%	2%		
National Grid (NMPC)	2,929		0%	90%	2%	0%	6%	2%		
Orange & Rockland	2,687			91%	0%	3%	2%	4%		0%
RG&E	1,986			90%	2%	0%	4%	4%		
Total	279,017	0%	0%	88%	2%	0%	7%	3%	0%	0%

⁷² NYSERDA measure mix is specific to the Multifamily Performance Program (MPP). Please note that other Multifamily program savings are not included.

15.3 Existing Affordable Multifamily MWh Measure Mix

Program Administrator	2022 MWh Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Other
Central Hudson	-									
Con Edison	6,634	97%				0%	0%		3%	
NYSERDA ⁷³	1,974	42%	3%	14%	1%	0%	26%	0%	8%	7%
NYSEG	178	100%	0%	0%	0%	0%	0%	0%	0%	
National Grid (NMPC)	-									
Orange & Rockland	-									
RG&E	428	93%	0%	0%	0%	7%	0%	0%	0%	
Total	9,214	85%	1%	3%	0%	0%	6%	0%	4%	1%

⁷³ NYSERDA measure mix is specific to the Multifamily Performance Program. Please note that other Multifamily program savings are not included.

15.4 Existing Affordable Multifamily MMBtu Measure Mix

Program Administrator	2022 MMBtu Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Other
Central Hudson	-									
Con Edison	348,061		0%	21%	2%	0%	13%	64%		
National Grid (KEDLI)	-									
National Grid (KEDNY)	2,020		0%	0%	0%	0%	0%	100%		
NFG	-									
NYSERDA	26,043	-3%	1%	34%	19%	0%	36%	1%	11%	
NYSEG	800		0%	9%	0%	87%	4%	0%		
National Grid (NMPC)	-									
Orange & Rockland	-									
RG&E	3,050		0%	0%	0%	67%	33%	0%		
Total	379,974	0%	0%	22%	3%	1%	15%	59%	1%	0%

15.5 Customer Awareness, Outreach, & Engagement MWh Measure Mix

Program Administrator	2022 MWh Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Other
Central Hudson	604	100%	0%	0%	0%	0%	0%	0%	0%	
Con Edison	10,362	100%	0%	0%	0%	0%	0%	0%	0%	
NYSERDA	-									
NYSEG	7,328	100%	0%	0%	0%	0%	0%	0%	0%	
National Grid (NMPC)	7,604	100%	0%	0%	0%	0%	0%	0%	0%	
Orange & Rockland	1,649	100%	0%	0%	0%	0%	0%	0%	0%	
RG&E	3,345	100%	0%	0%	0%	0%	0%	0%	0%	
Total	30,892	100%	0%	0%	0%	0%	0%	0%	0%	0%
Grand Total Savings	45,217	91%	3%	4%	0%	0%	1%	0%	1%	0%

15.6 Customer Awareness, Outreach, & Engagement MMBtu Measure Mix

Program Administrator	2022 MMBtu Savings	Lighting	Appliances	Building Shell	Domestic Hot Water	Domestic Hot Water - Control	HVAC	HVAC Control	Motors and Drives	Others
Central Hudson	-									
Con Edison	1,842		0%	0%	0%	100%	0%	0%		
National Grid (KEDLI)	-									
National Grid (KEDNY)	-									
NFG	-									
NYSERDA	-									
NYSEG	3,902		0%	100%	0%	0%	0%	0%		
National Grid (NMPC)	-									
Orange & Rockland	-									
RG&E	789		0%	100%	0%	0%	0%	0%		
Total	6,533	0%	0%	72%	0%	28%	0%	0%	0%	0%
Grand Total Savings	665,532	0%	0%	50%	3%	1%	11%	35%	0%	0%

16. Appendix D: Realization Rates⁷⁴ by Program Administrator

16.1 Central Hudson

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	Empower (Electric)	CH-E-L-R-22	62%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	Clean Heat (CH) & Affordable Multifamily Energy Efficiency Program (AMEEP)	CH-E-M-X-21	Unevaluated					
Customer Awareness, Outreach & Engagement	Distribution of LEDs through food banks and the United Way	Electric	Community Lighting	CH-E-M-R-26	84%	2018 Q3				
Existing 1-4 Family Homes	EmPower NY	Gas	Empower (Gas)	CH-G-L-R-23	73%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	Affordable Multifamily Energy Efficiency Program (AMEEP)	CH-G-L-M-20	Unevaluated					

⁷⁴ Verified Gross Savings (“VGS”) Realization Rates only.

Customer Awareness, Outreach & Engagement		Gas								
-------------------------------------------	--	-----	--	--	--	--	--	--	--	--

16.2 Consolidated Edison

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	Empower Electric	CE-E-L-R-32N	62%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	Affordable Multifamily Energy Efficiency Program (AMEEP) Electric	CE-E-L-M-5N	Unevaluated					
	Multifamily - LMI	Electric	Multifamily - LMI	CE-E-L-M-4N	38%	2017 Q1	2020 Q1			
Customer Awareness, Outreach & Engagement	Energy Conservation Kits Program for EAP customers	Electric	Efficiency Starter Program - LMI	CE-E-L-R-14N	Unevaluated					
	Food banks LED distribution	Electric	Retail Lighting - LMI	CE-E-L-R-25N	58%	2021 Q1				
	Home Energy Reports	Electric	Residential Home Energy Reports – LMI	CE-E-L-R-17N	98%	2021 Q1				
Existing 1-4 Family Homes	EmPower NY	Gas	Empower Gas	CE-G-L-R- 32N	73%	2017 Q1				
Existing Affordable	AMEEP	Gas	Affordable Multifamily Energy	CE-G-L-M-5N	Unevaluated					

Multifamily Buildings			Efficiency Program (AMEEP) Gas							
	Multifamily – LMI	Gas	Multifamily - LMI	CE-G-L-M-4N	91%	2021 Q4		88%	2021 Q3	2021 Q3
			NYCHA Program	CE-G-L-M-9N ⁷⁵	87%	2021 Q4		100%	2021 Q3	2021 Q3
Customer Awareness, Outreach & Engagement	Energy Conservation Kits Program for EAP customers	Gas	Efficiency Starter Program - LMI	CE-G-L-R-14N	Unevaluated					
	Home Energy Reports	Gas	Residential Home Energy Reports - LMI	CE-G-L-R-17N	69%	2021 Q1		88%	2020 Q4	2020 Q4

⁷⁵ CE-G-L-M-9N has two additional previous realization rates: 75% effective 2021 Q2 and 75% effective 2020 Q1 – 2021 Q1.

16.3 KEDLI

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	KEDLI HEAT	Gas	Gas LMI - Existing 1-4 Family Homes Program	KL-G-L-R-12	98%	2020 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	Gas LMI - Existing Affordable Multifamily Program	KL-G-L-M-13	Unevaluated					
Customer Awareness, Outreach & Engagement	Customer Awareness, Outreach, & Engagement Program	Gas	Gas LMI - Customer Awareness, Outreach, & Engagement Program	KL-G-L-R-10	Unevaluated					

16.4 KEDNY

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Gas	Gas LMI - Existing 1-4 Family Homes Program	KN-G-L-R-12	73%	2022 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	Gas LMI - Existing Affordable Multifamily Program	KN-G-L-M-13	Unevaluated					
Customer Awareness, Outreach & Engagement	Customer Awareness, Outreach, & Engagement Program	Gas	Gas LMI - Customer Awareness, Outreach, & Engagement Program	KN-G-L-R-10	Unevaluated					

16.5 National Fuel Gas Distribution Corporation

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Gas	EmPower	NF-G-LMI-R- 3J	52%	2021 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	Affordable Multifamily Energy Efficiency Program (AMEEP)	NF-G-LMI-R- 4J	Unevaluated					
Customer Awareness, Outreach & Engagement ⁷⁶		Gas								

⁷⁶ National Fuel Gas's weatherization kits program described in the Community-Based Outreach, Education, and Engagement Partnerships section of the Implementation Plan does not report savings. Spend is included as part of Market Rate Portfolio Administration.

16.6 New York State Energy Research & Development Authority

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	Single Family- Low income	ND-E-L-R-65	62%	2017 Q1				
		Gas			73%	2017 Q1				
	AHP	Electric	Single Family- Moderate Income	ND-E-L-R-66	53%	2017 Q1				
		Gas			66%	2017 Q1				
Existing Affordable Multifamily Buildings	Multi-Year Affordable Housing Partnerships	Electric	LMI Multifamily	ND-E-L-M- 28a	20%	2016 Q3				
		Gas			42%	2016 Q3				
		Heating Fuel			42%	2016 Q3				
	Technical Assistance for Affordable Multifamily Buildings	Electric		ND-E-L-M- 28b	Unevaluated					
		Gas			Unevaluated					
	RetrofitNY		RetrofitNY- LMI	ND-E-L-M-61	Unevaluated					
Affordable New Construction	Affordable New Construction Housing Program		Low Rise New Construction Transition	ND-E-L-C-30	Unevaluated					
			Multifamily New Construction Transition	ND-E-L-M-39	Unevaluated					

			New Construction - LMI	ND-E-L-C-42; ND-E-L-M-42; ND-E-L-R-42	Unevaluated					
Customer Awareness, Outreach & Engagement	LIFE		Low Income Forum on Energy	ND-E-L-X-32						
	Regional Clean Energy Hubs		Regional Clean Energy Hubs	ND-E-L-X-88	Unevaluated					
	REVitalize		REVitalize	ND-E-L-C-64	Unevaluated					
Pilots and Demonstrations	LMI Pilots		LMI Pilots	ND-E-L-X-29	Unevaluated					
LMI Solar	Solar for All		Solar for All	ND-E-L-X-69						
Beneficial Electrification	LMI Heat Pump Pilot		Heat Pumps Phase 2	ND-E-L-R-24	Unevaluated					
Additional LMI Initiatives	Healthy Homes		Healthy Homes Feasibility Study	ND-E-L-R-22						
			NYS Healthy Homes Value Based Payment Pilot	ND-E-L-R-48	Unevaluated					

16.7 New York State Electric & Gas

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	LMI 1-4 Family Homes	NS-E-L-R-7	62%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	The Affordable Multifamily Energy Efficiency Program	NS-E-L-M-6	Unevaluated	2022 Q1		106%	2021 Q1	2021 Q4
Customer Awareness, Outreach & Engagement	Food Banks, Distributions to EAP, School Kits	Electric	LMI Distributions	NS-E-L-R-77	Unevaluated					
	LMI Retail Lighting	Electric	Retail Lighting LMI	NS-E-L-R-75A	Unevaluated					
Existing 1-4 Family Homes	EmPower NY	Gas	LMI- Residential Gas	NS-G-L-R-23	73%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	The Affordable Multifamily Energy Efficiency Program	NS-G-L-M-22	Unevaluated	2022 Q1		84%	2021 Q1	2021 Q4
Customer Awareness, Outreach & Engagement		Gas	LMI Distributions	NS-G-L-M-79	Unevaluated					

16.8 NMPC

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	Electric LMI - Existing 1-4 Family Homes Program	NM-E-L-R-16	62%	2022 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	Electric LMI - Existing Affordable Multifamily Program	NM-E-L-M- 17	Unevaluated					
Customer Awareness, Outreach & Engagement	LED Food Bank Program	Electric	Electric LMI - Customer Awareness, Outreach, & Engagement Program	NM-E-L-R-14	Unevaluated					
Existing 1-4 Family Homes	EmPower NY	Gas	Gas LMI - Existing 1-4 Family Homes Program	NM-G-L-R-12	73%	2022 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	Gas LMI - Existing Affordable Multifamily Program	NM-G-L-M- 13	Unevaluated					

Customer Awareness, Outreach & Engagement	Customer Awareness, Outreach, & Engagement Program	Gas	Gas LMI - Customer Awareness, Outreach, & Engagement Program	NM-G-L-R-10	Unevaluated					
-------------------------------------------	----------------------------------------------------	-----	--------------------------------------------------------------	-------------	-------------	--	--	--	--	--

16.9 Orange & Rockland

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	LMI Electric - EmPower	OR-E-M-R-11	62%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	LMI Electric - AMEEP	OR-E-M-R-13	Unevaluated					
Customer Awareness, Outreach & Engagement	Food Banks, EE Kits, LMI Marketplace	Electric	LMI Electric – Customer Engagement	OR-E-M-R-15	Unevaluated					
Existing 1-4 Family Homes	EmPower NY	Gas	LMI Gas - EmPower	OR-G-M-R- 12	73%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	LMI Gas - AMEEP	OR-G-M-R- 14	Unevaluated					
Customer Awareness, Outreach & Engagement	EE Kits, LMI Marketplace	Gas	LMI Gas – Customer Engagement	OR-G-M-R- 16	Unevaluated					

16.10 Rochester Gas & Electric

Sector	Program	Fuel Type Funding Source	2022 Scorecard Program Name	2022 Scorecard Program Code	Realization Rate	Effective from date	Effective to date	Previous Realization Rate	Effective from date	Effective to date
Existing 1-4 Family Homes	EmPower NY	Electric	LMI 1-4 Family Homes	RG-E-L-R-39	62%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Electric	The Affordable Multifamily Energy Efficiency Program	RG-E-L-M-38	Unevaluated	2022 Q1		106%	2021 Q1	2021 Q4
Customer Awareness, Outreach & Engagement	Food Banks, Distributions to EAP customers, School Kits	Electric	LMI Distributions	RG-E-L-R-78	Unevaluated					
	LMI Retail Lighting	Electric	Retail Lighting LMI	RG-E-L-R- 76A	Unevaluated					
Existing 1-4 Family Homes	EmPower NY	Gas	LMI 1-4 Family Homes	RG-G-L-R-55	73%	2017 Q1				
Existing Affordable Multifamily Buildings	AMEEP	Gas	The Affordable Multifamily Energy Efficiency Program	RG-G-L-M-54	Unevaluated	2022 Q1		84%	2021 Q1	2021 Q4
Customer Awareness, Outreach & Engagement		Gas	LMI Distributions	RG-G-L-R-80	Unevaluated					