

July 1, 2025

Central Hudson Gas & Electric

# Verified Gross Savings Specification Document

Revised Filing Date: 6/30/2025

Case 15-M-0252

Case 18-M-0084



<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Residential Behavioral Modification Program (Electric and Gas)
<b>Program Period</b>	The Residential Behavioral Modification Program has been offered by Central Hudson since 2012. This program was previously called the Home Energy Report Program.
<b>Program Description</b>	This residential program encourages participants to reduce consumption through targeted and seasonal messaging including emails and mailed paper reports. Customers are provided tips to reduce energy usage.
<b>Gross Savings Methodology</b>	<p>Gross savings are calculated using a randomized control trial. Uplight, the implementation contractor through 2020, maintained a database for treatment and control groups and conducted a difference in difference analysis to calculate energy savings after each full month, based on usage data for all participants provided by Central Hudson on a bi-monthly schedule. Central Hudson performs quarterly validation of savings estimates through a third-party evaluator.</p> <p>Starting in 2021, Central Hudson is responsible for the design and scheduling of sending both digital and paper reports to treatment customers. Central Hudson will continue to conduct difference in difference analysis to calculate energy savings quarterly.</p>
<b>Realization Rate (RR)</b>	<p>The initial VGS RR of 0.98 MWh and 1.00 MMBtu were determined by an impact evaluation of the Residential Behavioral Modification program for program period 2019. This initial VGS RR was applied retrospectively.</p> <p>Beginning in 2020, Central Hudson began conducting ongoing evaluations of this program on a quicker timeline. This process allows the gross savings to be verified and adjusted prior to each quarterly scorecard filing. As a result, the VGS RR</p>

	<p>was 1.0 for electric and gas in 2020, which is used prospectively.</p> <p>The Residential Behavioral Modification Impact Evaluation reports for program period 2019 and 2020 were filed July 1, 2021. The Residential Behavioral Modification Impact Evaluation report for program period 2021 was filed October 3, 2022. Behavioral Modification Impact Evaluation report for program period 2023 was filed December 15, 2023.</p>
<b>Planned VGS Approach</b>	The Residential Behavioral Modification program will continue to undergo Gross Savings Analysis on a quarterly basis. Independent evaluator Demand Side Analytics will perform the Gross Savings Analysis.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Residential HVAC and Efficient Products Program (Electric and Gas) (formerly Residential HVAC Program)
<b>Program Period</b>	The Residential HVAC Program has been offered by Central Hudson since 2009. Beginning in 2022, the Company included Retail Efficient Products under the program.
<b>Program Description</b>	<p>This program provides customers incentives for energy efficient space conditioning and domestic hot water systems. The program is delivered through a network of qualified HVAC trade allies in conjunction with an implementation contractor.</p> <p>The efficient products component provides customers in-store instant discounts for energy efficiency measures.</p>

<b>Gross Savings Methodology</b>	<p>Energy savings are calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>Currently, 10% of submitted rebate applications are inspected by ICF, the implementation contractor, to ensure proper installation of the listed equipment. All customer self-installations are inspected for quality and safety by ICF.</p>
<b>Realization Rate (RR)</b>	<p>The initial VGS RR of 1.18 MWh, 0.88 MW, and 0.99 MMBtu was determined by an impact evaluation of the Residential HVAC program for program period Q1 2019-Q2 2020 and is applied retrospectively. The Residential HVAC Impact Evaluation Report was filed July 1, 2021.</p> <p>The RR of 0.99 MMBtu will be used prospectively for the gas program. The majority of the electric VGS resulted from heat pump measures which are no longer offered within this program due to the launch of NYS Clean Heat in 2020. Therefore, it was considered that no RR had been determined for this iteration of the electric program.</p> <p>The initial VGS RR of 1.17 MWh and 0.25 MW was determined by an impact evaluation of the electric Residential HVAC and Efficient Products Program for program period 2022. The Residential HVAC and Efficient Products Impact Evaluation was filed on December 15, 2023. This initial VGS RR is applied retrospectively and prospectively until completion of the next Gross Savings Analysis.</p>
<b>Planned VGS Approach</b>	<p>No future Gross Savings Analysis are planned for the Residential HVAC and Efficient Products Program at this point.</p>
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Retail Weatherization Products Program (Electric & Gas)

<b>Program Period</b>	Central Hudson launched the Retail Weatherization Products Program in 2024.
<b>Program Description</b>	This program provides residential customers instant discounts at retail on do-it-yourself home weatherization measures such as spray foam and door sweeps. The program utilizes an upstream strategy to support markdowns intended to encourage customers to purchase measures to improve the energy efficiency of their home.
<b>Gross Savings Methodology</b>	<p>Energy savings are calculated using the formulas from the Technical Resource Manual and a custom formula for air sealing measures. Factors used are from the Technical Resource Manual and Central Hudson market research.</p> <p>A web-based Product Promotions Manager (PPM) database contains MOUs, start and end dates, budgets, payments, stores and valid SKU data for each retailer, which allows the point-of-sale data to be systematically validated against the related MOU. PPM is optimized to provide robust data quality validation and automated QC of invoices.</p>
<b>Realization Rate (RR)</b>	The initial VGS RR is RRs of 0.96 MWh, 1.38 MW, and 0.92 MMBtu from impact evaluation of the Retail Weatherization Products Program for program period 2024. (2024 Retail Products Weatherization Impact Evaluation, filed May 7, 2025). This initial VGS RR is applied retrospectively and prospectively until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	There is not a determined timeline for the next Gross Savings Analysis of the Retail Weatherization Products Program at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Residential Retail Lighting Program (Electric)
<b>Program Period</b>	The Residential Retail Lighting Program was offered by Central Hudson from 2016 to 2023. This program was previously called the Point of Sale Lighting Program. The program ended after 2023 in response to market shifts.
<b>Program Description</b>	This program provided residential customers instant lighting discounts at retail. The program utilized an upstream strategy to support lighting markdowns intended to encourage customers to purchase energy efficient LED lighting.
<b>Gross Savings Methodology</b>	<p>Energy savings were calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>A web-based Product Promotions Manager (PPM) database contained MOUs, start and end dates, budgets, payments, stores and valid SKU data for each retailer, which allowed the point-of-sale data to be systematically validated against the related MOU. PPM was optimized to provide robust data quality validation and automated QC of invoices.</p>

<b>Realization Rate (RR)</b>	<p><b>Prior RRs:</b> The initial VGS RR of 1.06 MWh, 1.28 MW, and 0.71 MMBtu were determined by an impact evaluation of the Residential Retail Lighting and Efficient Products program, a prior configuration of the program that included additional retail measures, for program period 2018-2019. The Residential Retail Lighting and Efficient Products Impact Evaluation report was filed July 1, 2021. The initial VGS RRs were applied retrospectively and prospectively until completion of the next Gross Savings Analysis.</p> <p>The VGS RR of 1.10 MWh and 1.37 MW were determined by the impact evaluation of the Residential Retail Lighting program for program period 2020. The 2020 Residential Retail Lighting Impact Evaluation Report was filed on December 30, 2021. These VGS RRs were applied prospectively, effective Q1 2022, until completion of the next Gross Savings Analysis.</p> <p><b>Most Recent RRs:</b> The VGS RR of 1.10 MWh and 1.39 MW were determined by the impact evaluation of the Residential Retail Lighting program for program period 2021. The 2021 Residential Retail Lighting Impact Evaluation Report was filed on October 3, 2022. These VGS RRs were applied prospectively, effective Q4 2022, until the program ended.</p>
<b>Planned VGS Approach</b>	Program has ended.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Appliance Recycling Program (Electric)
<b>Program Period</b>	The Appliance Recycling Program was offered by Central Hudson 2010 to 2023.
<b>Program Description</b>	This program provided an incentive to customers to recycle their primary and secondary refrigerators and freezers. The appliances were collected from the customer's home at no cost to the customer. In proactive alignment with the July 20 <sup>th</sup> , 2023 Order,

	the Company decided to discontinue offering the program beyond 2023.
<b>Gross Savings Methodology</b>	<p>Energy savings were calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>An Appliance Turn-in Order (ATO) provided unit information for tracking and reporting purposes. At the time the customer scheduled a pick-up appointment; appliance information was collected and recorded in an order entry screen identifying the size, color, and brand of the unit. When the driver arrived at the customer's home, this information was verified and other characteristics about the unit were collected.</p>
<b>Realization Rate (RR)</b>	The initial VGS RR of 1.05 MWh was determined by an impact evaluation of the Appliance Recycling program for program period 2018-2019. The Appliance Recycling Program Impact Evaluation report was filed on July 1, 2021. This initial VGS RR was applied retrospectively and prospectively until the program ended.
<b>Planned VGS Approach</b>	Program has ended.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Commercial Custom Program (Electric and Gas)
<b>Program Period</b>	The Commercial Custom Program has been offered by Central Hudson since 2016.

<p><b>Program Description</b></p>	<p>The Commercial Custom Program offers non-residential customers incentives for a range of efficient technologies. The Custom Program provides an incentive path for uncommon measures, or those that have a unique application. Custom incentives are proportional to the energy savings of the project. Custom incentives are intended for (but not limited to) larger commercial customers that may have unique energy management needs.</p>
<p><b>Gross Savings Methodology</b></p>	<p>Where applicable, energy savings are calculated using the formulas and factors found in the Technical Resource Manual (TRM). For measures not included within the TRM, savings are calculated by inputting various characteristics of the measures into an online intake tool which calculates energy savings and determines cost effectiveness on a project level.</p> <p>All Custom projects receive pre- and post-inspections.</p>

<b>Realization Rate (RR)</b>	<p><b>Prior RRs:</b> The initial VGS RR of 0.95 MWh, 0.94 MW, and 0.99 MMBtu were determined by an impact evaluation of the Commercial Custom Program for program period 2019. The Commercial Custom and Prescriptive Impact Evaluation Report was filed July 1, 2021. This initial VGS RR was applied retrospectively and prospectively until completion of the next Gross Savings Analysis.</p> <p><b>Most Recent RRs:</b> The VGS RR of 1.10 MWh, 0.71 MW, and 0.91 MMBtu were determined by the impact evaluation of the Commercial Custom program for program period 2020 - 2021. The 2020-2021 Commercial Custom Impact Evaluation Report was filed on December 30, 2022. These VGS RRs are applied prospectively, effective Q1 2023, until completion of the next Gross Savings Analysis.</p>
<b>Planned VGS Approach</b>	No additional Gross Savings Analysis of the Commercial Custom Program is planned at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Commercial Prescriptive Program (Electric and Gas)
<b>Program Period</b>	The Commercial Prescriptive Program has been offered by Central Hudson since 2016.
<b>Program Description</b>	The Commercial Prescriptive Program offers non-residential customers incentives for a range of efficient technologies. Prescriptive rebates are provided for a pre-qualified list of common measures such as lighting and HVAC systems.

<b>Gross Savings Methodology</b>	<p>Energy savings are calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>Currently, 10% of all projects are inspected for accuracy of the measures that were proposed, quality of work installed and the customer experience.</p>
<b>Realization Rate (RR)</b>	<p><b>Prior RRs:</b> The initial VGS RRs of 0.78 MWh, 0.84 MW, and 0.91 MMBtu were determined by an impact evaluation of the Commercial Prescriptive Program for program period Q1 2019 - Q2 2020. The Commercial Custom and Prescriptive Impact Evaluation Report was filed July 1, 2021. The initial VGS RRs were applied retrospectively and prospectively until completion of the next Gross Savings Analysis.</p> <p><b>Most Recent RRs:</b> The VGS RR of 1.04 MWh, 0.73 MW, and 0.88 MMBtu were determined by the impact evaluation of the Commercial Prescriptive program for program period Q3 2021 – Q1 2022. The 2021-2022 Commercial Prescriptive Impact Evaluation Report was filed on December 30, 2022. These VGS RRs are applied prospectively, effective Q1 2023, until completion of the next Gross Savings Analysis.</p>
<b>Planned VGS Approach</b>	No additional Gross Savings Analysis of the Commercial Prescriptive Program is planned at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Small Business Direct Install Program (Electric)
<b>Program Period</b>	The Small Business Direct Install Program has been offered by Central Hudson since 2009. This program was previously called the Small and Midsize Business Program.

<p><b>Program Description</b></p>	<p>This program provides traditionally hard-to- reach small business customers with a turn- key efficient retrofit solution including a facility audit, project design and proposal, measure installation, and beyond. The program is primarily focused on LED lighting retrofits. Refrigeration measures were added in 2020.</p>
<p><b>Gross Savings Methodology</b></p>	<p>Energy savings are calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>Installations are randomly selected for pre and post inspection. 10% of all projects are inspected for accuracy of the energy audit, measures that were proposed, quality of installation, and customer experience.</p>
<p><b>Realization Rate (RR)</b></p>	<p><b>Prior RRs:</b></p> <p>The initial VGS RR of 0.78 MWh and 1.12 MW were determined by an impact evaluation of the Small Business Direct Install program for program period 2019. The 2019 Small Business Direct Install Impact Evaluation Report was filed July 1, 2021. This initial VGS RR was applied retrospectively and prospectively until completion of the next Gross Savings Analysis.</p> <p>The VGS RR of 0.71 MWh and 0.78 MW were determined by the impact evaluation of the Small Business Direct Install Program for program period Q3 2021 – Q1 2022. The 2021-2022 Small Business Direct Install Impact Evaluation Report was filed December 30, 2022. Based on the independent evaluator’s assessment of recommended programmatic changes and savings estimation approaches identified in the GSA Report an AP RR of 0.86 was identified. Recommended changes were implemented as of Q2 2023 and the 0.86 AP RR was applied through Q2 2024.</p> <p><b>Most Recent RRs:</b></p> <p>The VGS RR of 0.87 MWh and 0.87 MW were determined by the impact evaluation of the Small Business Direct Install Program for program period Q2 2023 – Q4 2023. The 2023 Small Business Direct Install Impact Evaluation Report was filed June 30,</p>

	2025. This VGS RR will be applied prospectively until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	No future Goss Savings Analysis are planned for the Small Business Direct Install Program at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	CenHub Online Store (Electric and Gas)
<b>Program Period</b>	The CenHub Online Store was offered by Central Hudson from 2016 to 2020.
<b>Program Description</b>	CenHub Online Store was an online platform that provided rebates on energy efficiency products including LEDs, Wi-Fi thermostats, faucet aerators, advanced power strips and low-flow showerheads.
<b>Gross Savings Methodology</b>	<p>Energy savings were calculated using the formulas and factors found in the Technical Resource Manual.</p> <p>Single sign-on control prevented non-Central Hudson account holders from receiving rebates for applicable products purchased on the store. When a customer made a purchase, at the time of checkout they were required to verify that they would install this product in their home.</p>
<b>Realization Rate (RR)</b>	The initial VGS RR of 1.09 MWh, 0.96MW, and 1.01 MMBtu were determined by an impact evaluation of the CenHub Online Store program for program period 2019. The CenHub Online Store Impact Evaluation was filed July 1, 2021. This initial VGS RR is applied retrospectively.
<b>Planned VGS Approach</b>	Program has ended.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Municipal Streetlights Program (Electric)

<b>Program Period</b>	The Municipal Streetlights Program has been offered by Central Hudson since 2018.
<b>Program Description</b>	Municipal customers within our service territory are encouraged to replace Central Hudson owned streetlights (Rate A) with new efficient LED fixtures. The pre-existing streetlights have a stranded cost that is passed on to the customer, creating a barrier to adoption. This program is designed to provide incentives that defray a portion of the customer cost.
<b>Gross Savings Methodology</b>	Energy savings are calculated using the formulas and factors found in the Technical Resource Manual.  The program's QA/QC procedure includes verification of project specifications and quantities in the field by Central Hudson's New Business team during the time of installation.
<b>Realization Rate (RR)</b>	The initial VGS RR of 0.78 MWh was determined by an impact evaluation of the Municipal Streetlight program for program period 2018-2019. The Municipal Streetlights Impact Evaluation Report was filed July 1, 2021. This initial VGS RR is applied retrospectively and prospectively until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	No additional Gross Savings Analysis of the Municipal Streetlight Program is planned at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Community Lighting (Electric)
<b>Program Period</b>	The Community Lighting Program has been offered by Central Hudson since 2016.
<b>Program Description</b>	The Community Lighting Program distributes LED bulbs to low-income customers at no cost. The program targets customers utilizing services from organizations such as the United Way and local food pantries.

<b>Gross Savings Methodology</b>	Energy savings are calculated using the formulas and factors found in the Technical Resource Manual.
<b>Realization Rate (RR)</b>	The initial VGS RR is 0.64 MWh from impact evaluation of the Community Lighting Program for program period 2018-2019. (2018-2019 Community Lighting Impact Evaluation Report, filed July 1, 2021). This initial VGS RR is applied retrospectively and prospectively until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	No additional Gross Savings Analysis of the Community Lighting Program is planned at this time.
<b>Exemption from EAM Status:</b>	N/A

<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Community Weatherization Kits (Electric and Gas)
<b>Program Period</b>	Central Hudson began offering the Community Weatherization Kit Program in 2024.
<b>Program Description</b>	The Community Weatherization Kit Program distributes DIY weatherization measures, such as spray foam and door sweeps, to low-income customers at no cost. The program targets customers utilizing services from organizations such as the United Way and local food pantries.
<b>Gross Savings Methodology</b>	Energy savings are calculated using the formulas from the Technical Resource Manual and a custom formula for air sealing measures. Factors used are from the Technical Resource Manual and Central Hudson market research.
<b>Realization Rate (RR)</b>	The initial VGS RR is RRs of 1.10 MWh and 0.93 MMBtu from impact evaluation of the Community Weatherization Kit Program for program period 2024. (2024 Weatherization Kits Impact Evaluation, filed May 7, 2025). This initial VGS RR is applied retrospectively and prospectively until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	There is not a determined timeline for the next Gross Savings Analysis of the Community Weatherization Kit Program at this time.

<b>Exemption from EAM Status:</b>	N/A
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<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	EmPower+ (Electric & Gas)
<b>Program Period</b>	Central Hudson has participated in the jointly administered statewide EmPower+ program since 2020.
<b>Program Description</b>	EmPower+ provides no-cost energy efficiency services to low-income households. Services include home energy assessments, home weatherization, appliance upgrades, and other energy efficiency measures.
<b>Gross Savings Methodology</b>	The Program Administrators rely on the TRM and best practices to estimate savings and achieve VGS goals. For prescriptive measures, baseline studies or other evaluation data is leveraged, where available, to calculate an average existing condition baseline that approximates the type and age of equipment currently installed by LMI customers, and these assumptions have been documented in the TRM. For custom measures, project-specific existing condition baselines are used.
<b>Realization Rate (RR)</b>	The initial VGS RRs of 0.62 MWh and 0.73 MMBtu from the impact evaluation of the NYSERDA Residential Retrofit program for program period 2017-Q1 2019 (NYSERDA Residential Retrofit Impact Evaluation PY 2017-Q1 2019, filed in October 2022). These initial VGS RRs are applied retrospectively and prospectively to the EmPower+ program until completion of the next Gross Savings Analysis.
<b>Planned VGS Approach</b>	EmPower+ is anticipated to undergo Gross Savings Analysis in 2024, following the launch of EmPower+ in 2023. Details related to the Gross Savings Analysis will be submitted in an EM&V Plan in 2023. The estimated completion of the Gross Savings Analysis Report is in 2025. An independent evaluator will be competitively procured by NYSERDA, with input from the joint utilities, to conduct the Gross Savings Analysis.

<b>Exemption from EAM Status:</b>	N/A
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<b>Verified Gross Savings Specification</b>	
<b>Date of ETIP/SEEP/CEF filing</b>	June 30, 2025
<b>Program Name</b>	Affordable Multifamily Energy Efficiency Program (“AMEEP”) (Electric & Gas)
<b>Program Period</b>	Central Hudson has participated in the jointly administered statewide AMEEP program since 2021.
<b>Program Description</b>	AMEEP is a coordinated statewide program that provides existing affordable multifamily building owners, developers, and their representatives access to financial incentives for energy efficiency upgrades via 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.
<b>Gross Savings Methodology</b>	The Program Administrators rely on the TRM and best practices to estimate savings and achieve VGS goals. For prescriptive measures, details of existing conditions in LMI customer residences may be substituted for parameters in the TRM to calculate savings. The TRM currently contains language describing this methodology. Further, program manuals such as the AMEEP Program Manual contain guidance for providing information about existing conditions to be used in savings calculations. Additionally, baseline studies or other evaluation data will be leveraged, where available, to calculate an average existing condition baseline that approximates the type and age of equipment currently installed by LMI customers. In the future, these baseline assumptions will be directly documented in the TRM. For custom measures, project-specific existing condition baselines will be used.
<b>Realization Rate (RR)</b>	No RR has been determined for this program to date.
<b>Planned VGS Approach</b>	Program Administrators will collaborate to perform a statewide evaluation of the program, and will use AMEEP RRs from January 1, 2022 onwards. Details related to the Gross Savings Analysis methodology

	are anticipated to be submitted in an EM&V Plan in 2024.
<b>Exemption from EAM Status:</b>	N/A