Eversource Energy NHPUC Docket No. IR 22-042 2021 Program Year Compliance Filing Order No. 26,621, Report 5 - Market Barriers

## **Explanation of Market Barriers**

The attached worksheet includes a reproduction of the market barriers tables by sector (C&I and Residential, inclusive of income eligible customers) from the 2022-2023 Plan, as well as the planned interventions and program objectives. To this list, the Company has included a column detailing the cost of the intervention for program year 2021, where such delineation is possible. A description of the source (e.g., the benefit cost ("BC") model for 2021 reporting, or the Q4 2021 report) is included in a separate column.

The budgeting of expenditures related to the energy efficiency programs has not been explicitly tied to overcoming specific market barriers, nor are the general ledger accounts used by the utilities designed to track these costs. Therefore, granular estimates of either planned or actual costs to overcome the specific market barriers identified in planning are, in most cases, not quantifiable. The energy efficiency programs budgets and expenditures have been organized across six budget categories, described in Table 1-13 on Bates 23 of the 2022-2023 Plan. The six cost categories have served as the basis of planning and reporting of expenses related to the regulated New Hampshire energy efficiency programs since 2002. They are as follows:

- a) Internal Administration
- b) External Administration
- c) Customer Rebates and Services
- d) Internal Implementation Services
- e) Marketing
- f) Evaluation

The method of accounting for expenditures for the NH Energy Efficiency programs has been audited annually by the previous Public Utility Commission Audit Staff and now the Department of Energy Audit Staff. Also, the organization of expenditures, by cost category and program, is displayed most clearly in the Cost Table worksheet of each Company's B/C model, as well as in Attachment C the plan filed with and approved by the Commission. Because program year 2021 budgets were based on program year 2020 (see PUC Order 26,440 in Docket 17-136), the breakdown of planned costs by program and budget activity for 2021 is most closely associated with the 2020 Update Plan, Attachment C.

Not all energy efficiency program expenditures relate to identified market barriers or program interventions. Costs related to other activities include the following:

## **EM&V Costs**

While the Market Barriers listed in the 2022-2023 Plan do not explicitly include activities related to Evaluation, Measurement and Verification, ("EM&V"), expenditures related to the Evaluation cost category are essential to the effective operation and continual improvement of program design and delivery. By reviewing how savings are calculated, how customers are using efficient equipment, and otherwise verifying that savings claims based on the best available information, independent third party evaluation ensures that reporting to the Commission is accurate and that offerings continue to be cost-effective. Evaluation activities also lead to continual evolution and improvements to the design and delivery of programs and help to ensure that customers are well served. Evaluation also supports the participation of utility staff in the EM&V Working Group as well as the cost of retaining a team of expert EM&V advisors whose services are competitively procured by the DOE. Finally, the evaluation cost category reflects expenditures associated with setting up and maintaining each utility's tracking systems as well as internal and external personnel engaged in data tracking activities.

## **Internal and External Admin Costs**

While the Market Barriers listed in the 2022-2023 Plan do not explicitly include activities related to internal and external administration of programs, expenditures related to that cost category provide essential management oversight and administration of programs required to effectively comply with evolving regulatory requirements of the NHSaves programs. Docket administration, report preparation, meetings with stakeholder groups such as the Energy Efficiency and Sustainable Energy ("EESE") Board, development of new plans, budgets, bill impacts, lost base revenue calculations, benefit cost modeling, presentations, and more are covered under this budget category. These expenditures are essential to the administration of programs and ensure that program activity is fully transparent to the Commission, DOE and other stakeholders, and that the programs are responsive to the evolving policy and regulatory environment in New Hampshire.

Line	C&I Market Barrier	Program Interventions	Program Objectives	Cost of Intervention \$2021	Description of the Cost / Source
	between standard and high- efficiency goods and services.	Provide rebates to give effective price signals to help cover incremental first cost.	Customers consider operating costs and not just price tag when making purchase/investment decisions.		All C&I program rebate/services expenses, less midstream, new equipment and construction, customer engagement initiatives and education.
2		<ol> <li>Offer low-interest or interest-free loans to allow customers to finance their portion of energy efficiency investment.</li> </ol>	Market penetration of high-efficiency equipment and services increases.		On-bill financing. Please note, this is not from the annual budget, but is from the RLF.
3		<ol><li>Provide information about alternative sources of funding for their high-efficiency investments (state and federal rebates or tax credits).</li></ol>		\$17,976	Smart Start program admin expenses.
4		Provide information/training/proformas about the importance of looking at life-cycle costs on website and in communication.			
5		1. Promote energy-efficient options in store/online/at point of purchase.	Customers learn to look for and demand high-efficiency options.		
6	<ul><li>benefits of energy efficiency</li><li>existence of high-efficiency</li></ul>	2. Keep information on NHSaves website up to date.	Market sales of high-efficiency equipment and services increases.	\$609,280	All C&I program marketing and customer engagement initiative expenses.
7	where to purchase high-	Engage and train contractor network to improve understanding of/familiarity with new, high-efficiency technologies.	System peak usage is reduced.		date ciperaes
	<ul> <li>how and when to reduce</li> </ul>	<ol> <li>Provide information to target customer audience through case studies, one-on-one contact, technical assistance, and building assessments.</li> </ol>	Customer iCAP charges are reduced.	\$1,388,538	All C&I program implementation services expenses, less midstream and education.
9		5. Co-market with contractors and retailers.			
10		Refer customers to Program Administrator vetted turnkey service providers.			
11		Include retailer training and recruitment in midstream program offering.	Greater availability/visibility of high-efficiency equipment at point of sale.		
12	lower turnover	2. Communicate attributes of emerging or improving high- efficiency equipment stock.	Engaged and motivated retailers committed and rewarded for selling high-efficiency products.	\$4,688,467	Midstream C&I rebate/services and implementation expenses.
13 14		Provide proper price signals to retailers who stock/sell targeted equipment.      Co-market available incentives to customers.	Market share of high-efficiency equipment and services increases.		
	-	No-cost training in best practices provided to builders and trade allies.	Build confidence and competence in high-efficiency building practices.	\$121,709	Education rebate/services and implementation expenses.
	commitment to high-efficiency	Incentives provided for exceeding commercial building energy efficiency code and appliance standards.	Improve the industry standard practice in building design.	\$4,409,038	Large and Small C&I new equipment and construction rebate/services expenses.
	huilding renovations and new	Case studies developed and promoted to highlight exceptional builders and homes.	Reward and celebrate builders and other professionals who demonstrate commitment to high-efficiency building design.		
18		4. Collaboration with professional associations to promote the program and the benefits of high-efficiency homes.	Capture opportunity at time of building/renovation for energy savings over the life of building.		
19			Increase the industry standard practice for high-efficiency design/build/renovation.		
			Total Cost	\$21,833,226	
			Total NPV Costs C&I Sector 2021	\$22,371,815	All internal admin and EMRM expenses
			Unaccounted for	\$538,590	All internal admin and EM&V expenses

\$259,652	Internal admin expenses
\$278,938	EM&V expenses

Line	Residential Market Barrier	Program Interventions	Program Objectives	Cost of Intervention \$2021	Description of the Cost / Source
1	Incremental price difference between standard and high- efficiency goods and services.	Provide rebates to give effective price signals to help cover incremental first cost.	Customers consider operating costs and not just price tag when making purchase/investment decisions.	\$18,448,852	All residential and low income program rebate/services expenses, less midstream retail lighting, new construction, active demand pilot, customer engagement initiatives and interest rate buy- downs paid.
2		Offer low-interest or interest-free loans to allow customers to finance their portion of larger investments in weatherization and heating systems.	Market penetration of high-efficiency equipment and services increases, allowing the transition to market-based measure offering.	\$30,949	On-bill financing. Please note, this is not from the annual budget, but is from the RLF.
3		<ol><li>Provide customers information about alternative sources of funding for their high-efficiency investments (state and federal rebates or tax credits).</li></ol>		\$19,838	Interest rate buy-downs paid.
4		<ol> <li>Provide information/training about the importance of looking at life-cycle costs on website and in communication.</li> </ol>			
5	Lack of customer awareness related to:	of purchase.	Customers learn to look for and demand high-efficiency options.	\$251,695	Cost of circuit riders, included in line 1.
6 7	<ul> <li>benefits of energy efficiency</li> <li>existence of high-efficiency alternatives</li> </ul>	Use NH Saves/EnergyStar product labeling at point of purchase.     Keep information on NHSaves website up to date.	Made a local finish offician and a single finish of the single finish of	\$340,144	All residential program marketing and customer engagement initiative expenses.
8	where to purchase high- efficiency equipment/quality installation	Provide customers access to pre-vetted online marketplace for energy efficiency goods and services     Provide information to target audience at trade and	Market sales of high-efficiency equipment and services increases.	\$550,082	All residential program implementation services expenses, less midstream retail lighting.
9 10	how and when to reduce demand during system peaks	home shows.  8. Co-market with contractors and retailers.			
11	demand during system peaks	Directly control thermostat settings to reduce air conditioning use during system peaks.	System peak usage is reduced.	\$43,788	Residential Active Demand pilot rebate/services expenses.
12	Midstream (retailers/ distributors) fail to stock high-efficiency products.	Include retailer training and recruitment in midstream program offering.     Communicate attributes of emerging or improving high-	Greater availability/visibility of high-efficiency equipment at point of sale. Engaged and motivated retailers committed and rewarded		
13	<ul><li>lower turnover</li><li>stocking cost</li></ul>	efficiency equipment stock.  3. Provide proper price signals to retailers who stock/sell	for selling high-efficiency products.  Market share of high-efficiency equipment and services	\$2,073,591	Midstream retail lighting rebate/services and implementation expenses
14 15	lack of awareness / experience	targeted equipment.  4. Co-market available incentives to customers.	increases.		
16	Building trades lack sufficient cadre of trained personnel, awareness, experience, or commitment to high-efficiency	No-cost training in best practices provided to builders and trade allies.	Build competence and confidence in high-efficiency building practices	\$0	Residential education and training expenses are embedded in the C&I Education expenses for 2021, but are charged to residential beginning in 2022.
17	practices.	Incentives provided for meeting Energy Star Homes standards and for other above-energy code practices.	Improve the industry standard practice in building design	\$1,732,818	ES Homes rebate/services expenses
18		Case studies developed and promoted to highlight exceptional builders and homes.	Reward and celebrate builders and other professionals who demonstrate commitment to high-efficiency building design		
19		Collaboration with professional associations to promote the program and the benefits of high-efficiency homes.	Capture opportunity at time of building/renovation for energy savings over the life of a building or home		
			Total Cost	\$23,209,114	
			Total NPV Costs Res Sector 2021	\$23,859,067	All integral admin and FMAQV auranas
			Unaccounted for	\$649,954	All internal admin and EM&V expenses

\$182,735	Internal admin expenses
\$467,219	EM&V expenses

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## **Energy Efficiency Cost Categories**

Tracking Activity	Description
	Internal utility costs associated with program design,
	development, regulatory support, and quality assurance. Costs
	include employee labor, benefits, expenses, materials, and
Administration—Internal	supplies.
	External costs associated with program administration. This
	includes contractors and consultants used in support of program
Administration—External	design, development, regulatory support, and quality assurance.
	Costs associated with incentives that reduce the cost of
	equipment as well as costs for services to speed adoption. This
	includes direct rebate dollars paid to distinct participants, as well
	as indirect incentives for equipment discounts. It also includes
	services such as technical audits, employee and contractor labor
Customer Rebates and Services	to install measures, expenses, materials, and supplies.
	Tracking of internal utility costs associated with delivering
	programs to customers, including labor, benefits, expenses,
Internal Implementation Services	materials, and supplies.
	Costs for marketing, advertising, trade shows, toll-free numbers,
	and NHSaves website. Types of expenses include labor, benefits,
Marketing	consultants, contractors, expenses, materials, and supplies.
	Costs for EM&V activities including labor, benefits, expenses,
	materials, supplies, consultants, contractors, and tracking
Evaluation	systems.