

## Town of Stowe Electric Department 2023 Tier 3 Annual Plan

### BACKGROUND

Pursuant to the Vermont Public Utility Commission (“PUC”) Order in Docket 8550, the Town of Stowe Electric Department (“Stowe”) submits our 2023 Renewable Energy Standard (“RES”) Tier 3 plan. The RES requires Vermont electric distribution utilities (“DU”) to demonstrate ownership of specified amounts of renewable energy within their power supply portfolios. These annual mandates are divided into three (3) tiers: renewable energy generation sources (“Tier 1”), in-state (Vermont) distributed renewable generation resources (“Tier 2”), and energy transformation projects category (“Tier 3”). This 2023 Annual Plan describes how Stowe plans to meet its 2023 Tier 3 target.

### TIER 3 2022 Annual Plan

Under 30 V.S.A. §8005 a municipal electric utility serving no more than 6,000 customers [Stowe has 4,448 customers] is required to participate in Tier 3 starting on January 1, 2019. This document serves as Stowe’s 2023 Tier 3 annual plan.

Distribution utilities may satisfy their Tier 3 requirements through qualified banked Tier 2 distributed renewable generation credits that exceed the utility’s annual Tier 2 requirement, or by implementing energy transformation projects. Alternatively, the utilities can pay an Alternative Compliance Payment (“ACP”).

Stowe’s most recent forecast anticipates a 2023 system energy requirement of 78,433 MWh. Stowe’s Tier 3 requirement is approximately 3,500 MWh for the 2023 program year. Stowe expects an excess of Tier 2 banked credits and Tier 3 qualifying credits that will be eligible for 2023 Tier 3 compliance. Stowe intends to manage a Tier 3 program that meets the entire 2023 requirement through application of energy transformation projects.

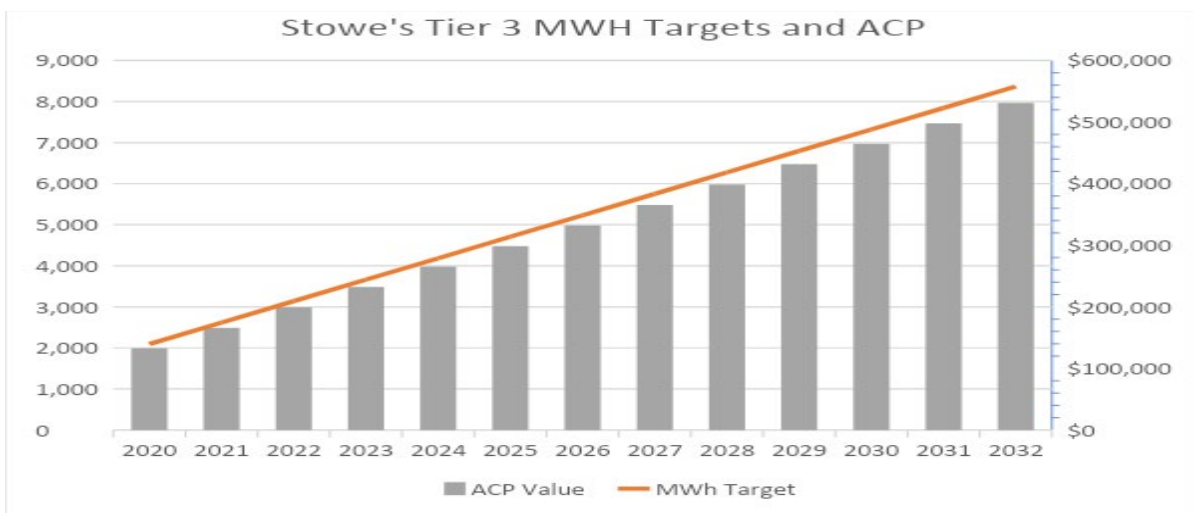


Figure 1 Projected Stowe Electric Tier 3 MWh Targets and ACP

The Tier 3 provision gives DUs flexibility to reach targets through a range of products and services that are designed to give customers opportunities to take advantage of energy transformation projects, which help customers reduce greenhouse gas emissions and save money. When a DU's annual Tier 3 strategy includes the implementation of energy transformation projects, the annual plan must provide certain information:

- A description of the energy transformation projects, anticipated number of participants, and incentive dollar amount for each project
- How the DU will ensure all ratepayers have an equitable opportunity to participate in, and benefit from, energy transformation projects regardless of rate class or income level
- A description of collaborative efforts with other energy service providers in the delivery of these programs, or an explanation of why it is most cost-effective for the utility to be the sole provider of programs, or if there is no other entity with the capability to deliver services
- A description of best management practices for demand management when implementing projects that are likely to increase electricity consumption, as well as strategies for encouraging the installation of technologies in buildings that meet minimum energy performance standards, and strategies for customer education, outreach, and marketing.

### 2023 Program Design

The 2023 program builds upon the success and experience gained from previous plans. The overall approach is to provide meaningful opportunities for Stowe customers to adopt measures which reduce their fossil fuel consumption. The COVID-19 pandemic and short-term inflation in consumer products has changed many aspects of daily life and the economy, reiterating the need for Stowe to remain in close communication with our customers. Stowe expanded outreach to all customer classes, collaborated closely with the Town of Stowe and its committees. Stowe strengthened partnerships with Efficiency Vermont ("EVT"), Capstone Community Action, and the Lamoille County Planning Commission.

Stowe is particularly proud of the collaboration between the State of Vermont's staff and Stowe staff that, as of October 26, 2022, provided nearly \$140,000 in arrearage assistance to Stowe customers under the Vermont COVID-19 Arrearage Assistance Programs. These programs were developed "to provide utility ratepayer assistance for accumulating arrearages that could be linked to economic hardships precipitated by the COVID-19 Pandemic. Funding from the Federal CARES Act."

Stowe staff will continue to participate in Button Up Vermont! and Weatherization Wednesdays and support the Town of Stowe Energy Committee's participation in Button Up Vermont! technology demonstrations and encouragement of customer participation in weatherization assistance programs and home energy audits. Stowe has been awarded funding through the Vermont Climate Catalysts Innovation Fund, that will be used to build window inserts to provide insulating inserts to income-eligible customers.

Stowe will continue to partner with EVT and Capstone staff to share information with Stowe's customers on home energy performance standards, weatherization, and heating fuel choices. These are valuable partnerships that help Stowe educate customers about the financial and technical support available to decarbonize Vermont's building, electricity, and transportation sectors.

Stowe will continue its outreach and marketing efforts to all customer classes and leverage community partnerships to encourage energy transformation projects. Stowe anticipates that cold-climate heat pumps will continue to drive a bulk of Stowe's Tier 3 MWh savings claims, while other technology will likely have comparatively limited participation. Stowe believes there is value in offering the measures in this plan that go beyond the marginal effect on the utility's annual MWh requirements.

The 2023 plan recognizes our customer's interest in the increased adoption of decarbonization measures in Stowe's service territory. Stowe added e-bike rebates as the result of feedback from the community which are fulfilled through a simple form. Stowe's ability to leverage Town committees to encourage technology switching will benefit the decarbonization effort. This allows the Town, the community, and the utility to collaborate on decarbonization pathways for increased participation and solutions, while engaging our community stakeholders.

### **Partnership and Collaboration with Efficiency Vermont**

Since 2021, Stowe has experienced a dramatic increase in the number of heat pumps installed in Stowe's service territory, which is largely the result of increased collaboration between Stowe and Efficiency Vermont ("EVT"). This positive outcome influenced Stowe to increase our partnership with EVT in the delivery of rebates and outreach to Stowe's customers for additional Tier 3 measures for 2023.

Stowe will continue to partner with EVT to increase participation in the following technology measures: cold climate heat pumps ("CCHP"), heat pump water heaters ("HPWH"), ground-source heat pumps ("GSHP"), and air-source heat pumps ("ASHP"). EVT's program capabilities and relationships with contractors and suppliers will continue to help ensure the highest efficiency and lowest cost for Stowe's customers. This will help to ensure the dissemination of best available information regarding CCHP, such as identifying the best candidates for participation and best practices for operation. This relationship will allow Stowe to tap into EVT's existing network of certified installers. The Energy Efficiency Modernization Act (EEMA) became law in 2020 and Stowe looks forward to working with Efficiency Vermont on additional energy transformation programs as heating and transportation are Vermont's "biggest energy cost...largest sources of greenhouse gas emissions, and disproportionately affect low-income Vermonters." (EVT)

Stowe enjoys a close partnership with Lamoille County EVT staff in helping Stowe and EVT market technologies, programs, and best practices reflect specific customer needs. EVT will continue to lead through their existing marketing platforms and monthly reporting. Stowe will provide the customer's first point of contact regarding EVT and Stowe offerings. Stowe will continue to partner with EVT to bring significant savings to customers while reducing greenhouse gas emissions. EVT has proved to be

particularly helpful in offering support to condominium associations in Stowe that may be seeking to modernize their building envelope and heating technology choices.

Since 2019, Stowe and EVT partnered on multiple outreach efforts to commercial and multifamily residential sectors, completed site visits, and provided guidance to commercial customers in their energy efficiency upgrades. Stowe will continue to receive monthly updates on commercial, industrial, and multifamily custom projects that EVT staff are working on in Stowe’s service territory. This collaboration helps to bring savings to income-eligible customers in shared housing, supports temporary seasonal employees with improved energy efficiency, and helps lower their electricity bills. EVT offers income-based assistance which can help qualified customers access updated energy saving appliances, low-interest loans, help with utility bills and weatherization.

A memorandum of understanding will memorialize the shared marketing, tracking, and evaluation of Tier 3 savings between EVT and Stowe. Measure savings will only be shared when the measure offsets a device that consumes fossil fuel. The allocation of savings between Stowe and EVT from that measure will be based solely on the financial contribution from each entity and proportion of the total incentive amount available to the participating customer.

Stowe staff will continue to participate in Tier III Technical Advisory Group meetings and any review of additions and revisions to the Technical Reference Manual (“TRM”). Stowe and the other distribution utilities will continue to work closely with EVT on new measures and updates to current measures that are part of the TRM.

The general roles of both entities are further detailed below.

Town of Stowe Electric	Efficiency Vermont
<p>Marketing Paths</p> <ul style="list-style-type: none"> <li>• Online (website, Front Porch Forum, social media)</li> <li>• Bill stuffers and joint mailers</li> <li>• Local relationships (local media, Town Committees, town permitting review, local building contractors)</li> <li>• Customer support, assisted by EVT when necessary</li> <li>• Inform participating customers of benefits from residential TOU/CPP</li> <li>• Verification of installation and delivery of incentive</li> </ul>	<p>Marketing Paths</p> <ul style="list-style-type: none"> <li>• Website</li> <li>• Joint mailers</li> <li>• Customer support, direct and referred by Stowe staff</li> <li>• Existing network of certified installers and distributors</li> <li>• Capture install data and provide monthly reporting to Stowe</li> </ul>

### **Partnership with the Town of Stowe**

SED staff support the Town's Public Works Department and the Energy Committee's commitment to encourage the availability, affordability, and use of renewable energy and energy efficiency resources. This includes purchasing battery powered equipment to help the Town transition from gas-fired grass mowers to battery-powered mowers. Stowe offers rebates for residential and commercial electric powered lawncare and lawnmower products. The Public Works Department continues to research methods to improve efficiency and reduce greenhouse gas emissions. For example, the water and sewer department transitioned to an advanced metering infrastructure (improving billing and monitoring) that reduced vehicle miles driven for collecting data. The Stowe Energy Committee is committed to helping the Town meet low-carbon goals, educating Town residents about energy transformation projects and energy audits, and encouraging visitors to reduce their vehicle miles within Stowe.

### **Partnership with DriveElectric**

Staff continue to work with DriveElectric to support incentives, education, marketing, and outreach. Stowe will continue to offer direct rebates on electric vehicles, support State of Vermont dealership reimbursements, and provide information about private and public charging station installation and usage. Stowe will continue to increase opportunities to add charging stations and offer charging rates that are competitive within the region.

### **Partnership with Replace Your Ride: e-bikes, bikes, and ridesharing**

Stowe staff continue to support the Replace Your Ride Program through participation in meetings and public outreach. This program can be particularly valuable, because the transportation sector accounts for around 40% of Vermont's annual carbon emissions. Serving income-eligible customers with additional incentives can increase participation in clean transportation options. As the second phase of this program is scheduled to launch by November 2, 2022, eligible Vermonters can use vouchers for e-bikes or shared-mobility options. Stowe will continue to offer an adder to electric vehicle and e-bike incentives for income-qualifying customers to utilize as additional savings for clean transportation options.

### **Partnership with Community Action Organizations**

Stowe staff continues to provide information and guidance to our customers regarding the partnership with Capstone Community Action administrators. Stowe staff learned from administering COVID-19 Utility Bill Assistance programs that improved guidance to our customers, in-need of financial assistance, is necessary. Staff will continue to support low-income home energy assistance and home weatherization assistance programs, energy audits, insulation and air sealing, and rebates. Stowe will continue to work with landlords and property management firms to update and modernize rental properties with energy and water efficient appliances. This will have a direct benefit to our income eligible customers.

## EQUITABLE OPPORTUNITY

Vermont Statutes and Vermont Public Utility Commission Rule 4.400 require distribution utilities ('DUs') to file programs that offer each ratepayer class an 'equitable opportunity to participate' in Tier III. 'Equitable opportunity' is generally understood as offering rebates that allow for low-income and non-low-income customers to install Tier III energy transformation projects that can reduce greenhouse gas emissions and lower household energy spending. In practice, this means offering rebate amounts that encourage low-income customers to complete weatherization projects and purchase cold climate heat pumps and electric vehicles.

DUs are also required to track participation, spending, and benefits by customer class and provide opportunities in "rough proportion" to the number of customers within each customer class. See Rule 4.413. The Vermont Department of Public Service determined that 31% of Vermont households qualify as low-income households for the purposes of Tier III.

Applying the most recent electric sales for SED, roughly 35% of electric sales are from the residential customer class, 56% of electric sales are from the commercial customer classes, and 9% of electric sales are from the interruptible load customer class.

SED has approximately 3,611 residential meters and 834 commercial meters in our service territory. Using the 31% statewide average for low-income households means that SED has 1,119 low-income households and 2,492 non-low-income households within our service territory.

SED's most recent 2022 Tier III rebate information shows that approximately 78% of Tier III spending went to residential customers. Despite this strong participation from our residential customers in Tier III rebates, SED has underperformed in enrolling low-income customers into our Tier III program. SED is also underperforming in enrolling small commercial customers into Tier III programs.

SED's Tier III program began in 2019, and 2019 and 2020 Tier III savings claims were achieved primarily by residential heat pump rebates. The COVID-19 pandemic has dramatically impacted consumer spending, contractor availability, and supply chains. Those Vermonters in SED's territory most able to take advantage of Tier III rebates appear to be both early adopters to beneficial electrification and financially able to take advantage of technology transformation. This is shown by the rebate spending in 2021 and 2022, which has been dominated by single-family residential customers participating in the joint EVT/DU heat pump rebate program and electric vehicle purchases.

SED has spent considerable staff time and administrative resources developing an outreach program and joint initiatives with community partners and EVT. Since 2020, SED has learned the importance of continuing our strong partnership with EVT, as we continue to understand the Town of Stowe's demographic data, emerge from the COVID-19 pandemic and emergency orders, and provide a meaningful opportunity for SED's low-income customers to participate in beneficial electrification. In 2023, SED will take the following steps to attempt to bring our low-income spending closer to the statewide Tier III income equity spending benchmark.

Program	Action
Incentive Offerings	SED offers additional incentives to low-income customers for the purchase of electric vehicles, e-bikes, and heat pumps. SED uses a self-certifying verification form to verify income. SED has also reduced the ev rebate and eliminated the utility direct cold climate heat pump incentive. SED anticipates that this shift in rebate amounts will bring spending closer to the equity spending benchmark.
Outreach and Education	SED staff partners with Efficiency Vermont, Town of Stowe Energy Committee, Lamoille County Planning Commission, United Way of Lamoille County, and Capstone Community Action to outreach to low-income and fixed-income residents and provide additional education and technology demonstrations to encourage customer participation in Tier III programs. SED will also target outreach and advertisements promoting low-income programs to eligible customers based on available demographic data and low-income housing information.
Partnership with Efficiency Vermont	<p>SED has partnered with Efficiency Vermont providing a low-income program for heat pumps, including a) low-income adders (both EVT and SED), and b) the Act 151 low-income fuel switching (shared EVT and DU rebate).</p> <p>EVT is a good partner for SED and provides technical support, walk-throughs with customers, targeted outreach to customer classes, and joint presentations on energy savings and efficiency upgrades. EVT has partnered with SED to reach multi-family residential units and engage with landlords about efficiency and system upgrades that can benefit low-income residents in Stowe.</p>
Window Insert Program	SED received a small grant to bring high efficiency window inserts to low-income customers in our service territory. SED will partner with Lamoille County Planning Commission and the Town of Stowe Energy Committee to enroll low-income customers and complete the installation of inserts. This program is also available for any customer in Stowe’s service territory interested in window inserts to reduce fossil fuel consumption and increase the habitability of residential units.
DOE Clean Energy Innovation Fellow	SED partnered with the US Department of Energy to host a clean energy innovator fellow through the Office of Energy Efficiency & Renewable Energy. The fellow started working with SED in August, 2022 and will remain with SED through at least September 2023. Part of the fellow’s research and outreach is focused on energy affordability, low-income customer rebates, and improving partnership program to improve SED’s Tier III equity outcomes.

### PROGRAM OFFERINGS

Stowe will continue all the 2022 program offerings in 2023 and intends to emphasize increased participation among all customer classes. As noted, the bulk of Stowe’s Tier 3 savings comes from the heat pump program. Stowe will continue to offer alternative non-load building measures, such as

wood stoves and window inserts, and work with our customer base to expand rebates to other electrification measures.

In previous years, Stowe has experienced limited participation from income-qualifying customers. The e-vehicle rebate is the most popular offering for our income-qualifying customers. Stowe will continue to work with community partners to increase outreach to income-qualifying customers, and landowners with low-income tenants. Stowe will pursue a community renewable energy program in 2023/2024 for income-eligible customers and continue to partner with the Town to electrify municipal owned buildings and equipment. The Electric Department work closely with the Town's Zoning Administrator during the residential and commercial building permitting process to share information with customers, including building energy performance standards and increased electricity loading.

Stowe's 2020 Integrated Resource Plan included updated long-term energy and demand forecasts, and load forecasts for cold climate heat pumps, electric vehicles, and net-metering solar projects. Stowe will closely monitor electric sales projections, net-metering load growth, and the impact electrification projects have on electricity sales and our customer's financial well-being, and adjust rebate amounts accordingly.

Stowe will inform eligible residential customers of its voluntary Residential TOU/Critical Peak Pricing rate to encourage usage during off-peak periods and reduce the cost of operation of their new heat pump systems. Stowe informs commercial customers to expect to see increased electricity usage from new electrification projects and to weigh this impact to potential savings derived from transitions away from fossil-fuels.

## **HEAT PUMP SYSTEMS**

### **Centrally Ducted Air-Source Heat Pump**

Stowe will continue to support a point-of-sale rebate incentive for all customers that purchase and install a qualifying whole building heat pump ("ASHP"). Stowe will also continue to work with EVT to encourage electrification of systems in municipal and educational buildings. This program will be subject to an MOU that will define the savings split between the two entities.

### **Cold Climate Heat Pumps**

In 2023, Stowe will closely monitor its point-of-sale rebate incentive for all customers that purchase and install a qualifying cold-climate heat pump ("CCHP"). In previous years, qualifying residential customers were eligible for an additional adder for the installation of ductless heat pumps. In 2023, Stowe will likely encourage our customers to take advantage of Inflation Reduction Act incentives and other federal and state incentives to save money on heat pump installations. Stowe intends to shift its point-of-sale rebate to income-qualifying customers and non-profit organizations only. Stowe will work directly with residential and commercial customers installing 2 or more condenser units to determine if an additional rebate adder is the most efficient electrification measure for these customers.

### **Ground-Source Heat Pumps**

Stowe will support an incentive for no more than 2 participating customers per address per year that purchase and install a ground-source heat pump. Stowe will work with EVT to promote this technology as a pilot project format and this program will be subject to an MOU that will define the savings split between the two entities. The average residential ground-source heating system is between 2.5 to 5 tons, and Stowe anticipates offering a \$1,200/ton incentive for this technology.

### **Heat Pump Water Heaters**

As part of the MOU with Efficiency Vermont (EVT), Stowe will continue to offer a point-of-sale incentive through our collaboration with EVT towards the purchase of a heat-pump water heater (HPWH). EVT will claim the savings associated with the replacement of an electric resistance water heater and Stowe will claim the savings from units that replace existing fossil fueled water heaters. Stowe will continue to offer an adder for income eligible customers.

### **Pellet Stoves**

Stowe will offer a direct incentive for the purchase of a wood stove or pellet stove that replaces a fossil-fired space heating system and represents a first-time stove purchase. This incentive is an alternative non-load building measure and Stowe will continue to offer an adder for income eligible customers. Stowe will continue to support EVT's joint EVT/DU pellet stove program through an MOU.

## **TRANSPORTATION INITIATIVES**

### **Electric Vehicle Incentives**

The Comprehensive Energy Plan ("CEP") determined that nearly 50% of Vermont's greenhouse gas emissions are attributable to transportation. Electric vehicles have garnered considerable attention in recent years. Though sales of all-electric vehicles ("AEVs") and plug-in hybrid electric vehicles ("PHEVs") have steadily increased, the upfront costs remain a barrier to adoption for many Vermonters. Stowe will continue to offer rebates on electric vehicle to help Vermont achieve a rate of adoption needed to meet CEP targets.

Stowe remains committed to maximizing the number of customers switching to an electric vehicle ("EV") in 2023 and will offer additional rebates to those customers participating in the MileageSmart Used Electric Vehicle Incentive Program and Replace You Ride Incentive Program. Stowe also will continue to not cap the manufacturer's suggested retail price ("MSRP") for qualifying all-electric or plug-in hybrid vehicle incentives. However, Stowe will prioritize incentives for income-eligible customers and those vehicles with an MSRP of \$40,000 or less for Plug-in Hybrid electric vehicles and \$45,000 or less for All-Electric vehicle models.

Stowe will continue offering incentives for all-electric and plug-in hybrid vehicles that are leased for a minimum of twenty-four (24) months.

Stowe will continue to promote EVs and provide current information on EVs by partnering with Drive Electric, which hosts a comprehensive website showing a comparison of vehicle models available in

Vermont, tools that calculate the cost of operating an EV and estimate the greenhouse gas emissions saved per EV mile driven, as well as ways to learn the potential impacts of transitioning to an EV. Stowe partnered with the Town of Stowe Energy Committee to increase outreach and education. Stowe will inform eligible customers of its voluntary Residential TOU/Critical Peak Pricing rate to encourage usage during off-peak periods and reduce the cost of operation of their EV.

## ELECTRIC VEHICLE CHARGING STATIONS

### **Public, Workplace, and Multifamily**

Stowe Electric owns and operates 12-public charging stations. Stowe does not anticipate growth in the Electric Department's charging infrastructure in the short-term. However, the Electric Department continues to encourage charging infrastructure buildout with commercial customers, multi-family housing buildings, and the Town of Stowe owned parking lots.

The infrastructure/make-ready work remains a barrier to greater adoption, but Stowe remains optimistic that partnerships and federal funding initiatives will allow for greater adoption of charging infrastructure in Vermont. Stowe will inform eligible residential customers of its voluntary Residential TOU/Critical Peak Pricing rate encourage usage during off-peak periods and reduce the cost of operation of these charging stations.

### **Electric Vehicle Charging Supply Equipment – single family residential**

Stowe started promoting a home EV charger rebate program in 2022. Panel upgrades and Level 1 charging has proved a barrier to participation in Level 2 home charging. Stowe anticipates a more active program in 2023 will encourage customers to take advantage of a home Level 2 charger. Initially, the program will focus on providing customers with information. Stowe provides resources for EV charging on the rebate section of the website, with information regarding financing options from the Vermont State Infrastructure Bank and the Vermont Agency of Commerce and Community Development as well as educational materials from Drive Electric for installation.

In 2023 Stowe will proactively provide customers information about the Form 8911, §30C Alternative Fuel Vehicle Refueling Property Credit tax incentive. This federal tax return credit can return up to 1,000 USDs to customers after purchase. Stowe is also considering a small beneficial electrification incentive from the utility to encourage those customers who have purchased an electric vehicle and use Level 1 charging to install a Level 2 charger.

Stowe will offer a rebate for the installation of a home charger, provided by the utility, that can share session data with the utility to those customers that purchase an EV in 2023. This program will encourage customers to use best practices for charging during off-peak hours (any-time expect Mon-Fri; 4PM-9PM) and this consumer active program style will help with energy education and transportation decarbonization. This will benefit the utility as it will help to promote the advancement of transportation electrification, while providing an opportunity to teach customers about the

importance of charging off peak. Stowe hopes to learn more about customer charging habits and provide incentives to better engage with our commercial and tourism-based customers.

### **Electric Bicycles**

Stowe will continue to offer an e-bike incentive for all class 1 e-bikes purchased by Stowe customers in 2022. Class 1 e-bikes utilize rechargeable lithium-ion battery packs to provide a pedal-assist operation with a maximum speed of 20 mph. Stowe's residential and commercial customers asked about an e-bike incentive in 2020, and the Electric Department collaborated with the Town Energy Committee on successful e-bike campaigns in 2021 and 2022. Stowe will continue to work with bike retailers in Stowe to provide a time of sale rebate and will offer an income-eligible adder. Stowe will inform eligible residential customers of its voluntary Residential TOU/Critical Peak Pricing rate to encourage usage during off-peak periods and reduce the cost of charging their e-bike at home.

### **ELECTRIC LAWN CARE PRODUCTS**

Stowe introduced an electric lawnmower incentive in 2020 after Stowe's customers showed an interest in the incentive. Stowe worked with the Town to develop an outreach campaign to: resorts, property managers, and groundskeepers to promote the commercial e-lawnmower program. However, the COVID-19 pandemic dramatically reduced Stowe's ability to engage this customer group. Stowe will continue with our outreach campaign in 2023 with hopes of seeing growth in this offering. The residential offering will present an opportunity for customers to reduce their fossil fuel usage who may otherwise not be able to participate in other residentially focused measures. Stowe will also follow Efficiency Vermont's lead an increase the offerings in this space to include battery powered lawncare products, chainsaws, and push and ride on mowers.

### **Total Tier 3 Program Summary**

See Reporting Table Summary Provided as Attachment A to this report.

Attachment A Table Summary.

Because heat pump rebates dominate Stowe Electric’s Tier 3 plan, staff has predicted the impact other beneficial electrification measures will have on Stowe’s 2023 Tier 3 plan. Stowe provides the table below only for non-heat pump incentives. These measures represent approximately 34% of Stowe’s Tier 3 savings target for 2023.

Technology	Ave MWh per unit	2023 Forecasted Units	Forecasted MWh Savings	% of Tier 3 Target
Level 2 Public Chargers	38.69	2	77.38	6%
Level 2 Workplace Charger	61.74	1	61.74	5%
Level 2 multifamily	1.17	4	4.68	0%
DC Fastcharger	187.45	1	187.45	14%
New AEV	39.62	5	198.1	14%
New PHEV	29.56	5	147.8	11%
Used AEV	19.81	5	99.05	7%
Used PHEV	14.78	5	73.9	5%
Replace Your Ride	7	1	7	1%
e-bike (Class 1)	5.62	12	67.44	5%
Ride on Lawnmowers				
Commercial	74.09	1	74.09	5%
Residential	4.09	3	12.27	1%
			0	0%
Leafblower				0%
Commercial	3.15	1	3.15	0%
Residential	1.26	3	3.78	0%
Push Mowers/Lawncare				
Commercial Products	3.15	1	3.15	0%
Residential Products	1.26	3	3.78	0%
Commercial Chainsaw	3.15	1	3.15	0%
Residential Chainsaw	1.26	3	3.78	0%
Commercial Pushmower	11.01	1	11.01	1%
Residential Pushmower	1.14	3	3.42	0%

Technology	Ave MWh per unit	2023 Forecasted Units	Forecasted MWh Savings	% of Tier 3 Target
Induction Stovetop	3.62	2	7.24	1%
Window Inserts	1.53	30	45.9	3%
Residential Pellet boilers or furnaces, Existing Boiler	225.17	0	0	
Residential Pellet boilers or furnaces, Existing Furnace	164.52	0	0	
Residential Pellet stoves, Existing Home	91.45	1	91.45	7%
Residential Pellet stoves, New Construction	42.26	1	42.26	3%
Residential Wood Stoves, Existing Home	92.78	1	92.78	7%
Residential Wood Stoves, New Construction	42.55	1	42.55	3%
Subtotals		97	1,368.30	

Stowe staff estimated heat pump adoption in Stowe in 2023 at 108 units or 5,786.14 MWh. The number of heat pumps that received rebates in 2020 (69) and 2021 (157) was fewer than the number of heat pumps that have received rebates to date in 2022 (205). Therefore, Stowe used the average of the 3-years (144) and reduced the estimate to 108 for 2023.

	MWh	Number of Units
Tier 3 Non-Heat Pump Subtotal	1,368.30	97
Heat Pump Program Estimated Subtotal (MWh)	5,786.14	108
Tier 3 2023 RES Target Savings	3,969	
2023 Estimated Program Savings Claims	7,154.44	