

Meeting of the Norwich Energy Committee  
Tuesday, 12/14/21, 5 pm, at Tracy Hall and via Zoom

Attending: in Tracy Hall – Aaron Lamperti  
via Zoom – Linda Gray, Norm Levy, Charlie Lindner, Erich Rentz  
Guests: via Zoom – Linda Cook

1. The 10/26 minutes and 12/14 agenda were approved by consensus.

2. Updates on existing projects

A. Town parcels for solar - Other prospects: Linda Gray reported that the list of Town-owned parcels was reviewed by the Town Clerk and committee member Erich Rentz. A couple prospects remain; the next step is a site visit. Linda and Erich will follow up and include Geoff Martin, who as staff energy coordinator would draft an RFP. Linda noted that finding a suitable site is useful now; a solar RFP could be issued whenever the Town pursues fuel-switching for some of its operations.

B. Electrify Everything

- Solarize - Endorsement concern; Sticker distribution

Doug Wilberding recently emailed the Selectboard with the concern that the NEC Solarize campaigns are “putting the town at legal liability given the FTC stance on endorsements.” Linda and Aaron have provided the interim Town Manager with a four-point response: 1) since 2012 there have been no liability issues from Solarize, 2) a disclaimer can be added to the NEC web pages, 3) the NEC can have current and future Solarize installers sign an agreement that incorporates the disclaimer, and 4) about 33% of Norwich solar purchases in the past two years have been with non-Solarize installers, confirming that the campaign does not set up a monopoly. Further action will wait until the Town Manager confirms whether a disclaimer is necessary and, if so, the appropriate language for it. Solarize stickers are available at the library; one list serv notice was posted on this, another can be scheduled.

- Electrify Everything checklist

Charlie Lindner has finalized a blurb on creating a household Action Plan, the actual household Action Plan, and a worksheet for calculating the carbon reduction from actions. He had 4 “beta” testers who provided feedback and endorsed promoting this. The materials need some graphic re-design and should be available on the web page by the end of December.

C. Window Dressers

- Recap 2021: 21 community builds in ME, 16 in VT (2019: 30 in ME, 5-8 in VT), with 6186 total inserts built (2947 in VT); reduced rate = 37% of inserts in ME, 29% in VT. Total savings = 64,953 gal heating fuel/yr (=1.4 million lbs CO<sub>2</sub>, if fuel is oil)

[Savings calculation is based on an average of 10.5 gal heating fuel saved / insert / yr, for an average-sized insert in an average of single / double-paned window]

For the Norwich-Hanover community build, 191 inserts total, 20% reduced rate; we did unusually well in filling volunteer slots.

- Next year: Jan/Feb: shop-built inserts @ 1.5 residential rate, + delivery fee, for schools, libraries, town offices, businesses, minimum order 10. Linda will contact Norwich organizations and the Norwich Business Council.

- timeframe for community builds for experienced teams is mid-Sept through Thanksgiving, 2022. There is consensus to continue with this project.

D. EV charging station at Dan & Whit's: Linda reported that the networking and maintenance renewals have been completed, as has an agreement with Dan & Whit's to pay those fees (\$1400). Transferring ownership to D&W is still a possibility.

Geoff Martin completed and submitted the final report to close out the grant for the EV charging station at Huntley.

3. Other business, new projects, announcements

E. Article 36 task force update: Aaron reported that the group had no November meeting (due to the closure of Tracy Hall) and thus have not submitted their report as planned; their next meeting is set for 12/23, and they expect to complete their report in January.

F. UVTMA report: Norm Levy had no report.

G. 350VT letter to the Vermont Climate Council; Suggestion to organize committees:

Members of NEC signed the letter; consensus that no further action is needed now. Linda noted that the Climate Solutions Caucus of the legislature is hosting a virtual town hall on 12/15; she will circulate the sign-up information.

H. Strategy for working with the TM and department heads:

Discussion of the need for a liaison or process for interacting with Town staff on energy-related decisions. Linda noted that the Green Procurement Policy developed by Geoff Martin (attached to minutes) provides a mechanism, by setting up a Green Team. She suggested that the Task Force recommend its adoption. Charlie suggested that the NEC seek to clarify and set up a structure for consultation when a new Town Manager begins work.

I. April EV event in Norwich: Consensus to plan something, perhaps including a parade, and to seek to collaborate with area towns.

J. Sustainable Woodstock small business outreach campaign: Dropped, as details for the topic were unavailable.

4. Public comment and correspondence: There was no public comment.

5. Adjourned at 6:05

The fourth Tuesday in January will be 1/25.

submitted by Linda Gray

## Overview

The purpose of this policy is to commit the Town of \_\_\_\_\_ to a high level of fiscal, social, and environmental responsibility in the procurement of energy-related capital improvements, and to define the process for procuring these products. The Town of \_\_\_\_\_ will prioritize improvements, systems, vehicles and equipment, and other energy-related products that are energy-efficient and powered by, or are capable of being powered by, renewable energy sources, and will eliminate, wherever feasible, the use of fossil fuel.

## Background

The Town of \_\_\_\_\_ has several energy and climate goals, including:

**Insert climate and energy goals here.**

With each purchase of goods and services, the Town has the opportunity to not only further these goals, but also to lead by example for the rest of the community and demonstrate the value of environmentally sound purchasing decisions.

This Policy provides a framework to utilize when making purchasing decisions, helping to ensure that the purchases the Town makes are in line with its stated goals and objectives related to energy and climate change. The Policy also outlines procedures that ensure the Town: utilizes the resources and incentives of the State's energy efficiency utility and the Town's electric utility, selects products that best meet the Town's operational needs, and reduces ongoing operational costs.

This Policy establishes a Green Procurement Team. The Green Procurement Team shall include the Town Manager, the Finance Manager, a member of the Energy Committee, and the Intermunicipal Regional Energy Coordinator (IREC) (if applicable). The function of this Team shall be to review proposals from Department Heads for large capital improvements for consistency with this Policy, and to monitor, review, and, if necessary, develop new procedures and practices related to this Policy. The Green Procurement Team will report progress and findings to the Selectboard at least annually and as appropriate, including any proposed alterations to the Policy.

Nothing in this policy shall be construed as requiring a department, vendor or contractor to procure goods or services that do not perform adequately for their intended use or are not available at a reasonable price or in a reasonable period of time. Decisions regarding adequacy or suitability for use shall be at the discretion of the Green Procurement Team.

## Definitions

*“Alternative Fuel Vehicle (AFV)”* is defined as an all-electric, Plug-in Hybrid Electric (PHEV), or hybrid-electric vehicle.

“*Building Modifications*” are defined as additions, alterations, renovations, and repairs to existing buildings.

“*Emergency Repair/Replacement*” is defined as a repair/replacement for which immediate action is needed to avoid harm to Town property or personnel, and/or would substantially impact the Town’s ability to provide adequate services. The Town Manager shall have full discretion to determine what constitutes an *Emergency Repair/Replacement*, and whether, in light of the emergency situation, the procedures defined in this Policy should apply as defined or in an amended form.

“*Green Procurement Team*” is the group responsible for reviewing budget requests for consistency with this Policy, and for monitoring the implementation of this Policy, reviewing it and making suggestions for additions or amendments to the Policy to better meet the Policy’s objectives. The Green Procurement Team consists of the Town Manager, Finance Director, Energy Committee representative, and IREC (if applicable).

“*Large Capital Improvements*” include vehicles, equipment, and machinery (VE&M); heating, ventilation, and air conditioning (HVAC) replacements, and; building modifications and new construction.

“*Requestor*” is the Department Head or other individual making a purchase request under this Policy.

“*Small Capital Improvements*” is defined as appliances and electronics, lighting, cooking equipment, and pumps, motors, and drives.

“*Vehicles, equipment, and machinery (VE&M)*” VE&M is defined as all light-, medium-, and heavy-duty vehicles and equipment (e.g., loaders, graders, excavators), small machinery, including but not limited to mini-excavators, ATVs, snow blowers, and lawn mowers, and small equipment, including but not limited to chainsaws and leaf blowers.

## **Policies**

### **Vehicles, Equipment, and Machinery (VE&M)**

It is the policy of the Town to utilize VE&M that will achieve the largest reduction in greenhouse gas (GHG) emissions possible, while meeting the operational needs of the Town and without putting an undue financial burden on the Town. GHG emissions from vehicles make up the largest share of Vermont’s emissions.<sup>1</sup> VE&M also contribute significantly to other air pollutants that are harmful to human health and the environment. Additionally, VE&M are responsible for \_\_\_\_\_% of the Town of \_\_\_\_\_ energy budget. Lowering emissions and costs from VE&M should be achieved by optimizing the fleet size, reducing vehicle miles traveled (VMT), reducing idle time, transitioning to AFVs, and increasing fuel economy.

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<sup>1</sup> Energy Action Network, 2019 Annual Report, <https://www.eanvt.org/wp-content/uploads/2020/03/EAN-report-2020-final.pdf>

## **Space Heating and Water Heating Replacements**

It is the policy of the Town not to install new fossil fuel-based heating systems. Water heaters can last for a decade or more, and heating systems can continue to operate for several decades. Thus, decisions made today will either avoid, or lock in, fossil fuel use for many years to come. The significance of these decisions necessitates careful planning, potentially over multiple years. Replacement heating systems in particular should be evaluated in the context of current and future plans for the building. For example, in general buildings should be weatherized prior to replacing the heating system to avoid installing an oversized heating system. Evaluation of whether the existing heat distribution system (i.e., forced-air, steam, etc.) best meets the needs of the building is also necessary before selecting a replacement.

## **Ventilation**

It is the policy of the Town to utilize effective and energy-efficient ventilation systems in municipal buildings wherever economically feasible. Installing new ventilation systems should be considered during building renovations or modifications, and replacing existing ventilation systems should be considered when the systems are not adequately protecting the health and safety of building occupants and/or the building, or when the existing system fails. Controls are an important piece of an effective, efficient ventilation system.

## **Air Conditioning**

It is the policy of the Town to limit the use of air conditioning systems, and to utilize heat pump systems that can simultaneously replace or offset fossil-fuel use for heating wherever possible. Like a replacement heating system, new air conditioning systems can last for decades and should be evaluated in the context of existing and future plans for the building.

## **Building Modifications and New Construction**

It is the policy of the Town to utilize best practices for efficiency during Building Modifications; to build all new construction to net-zero energy standards, and; not to install new fossil-fuel-based systems in new construction or Building Modifications. Modifications to existing buildings or the construction of new municipal buildings are opportunities to significantly lower the Town's energy use and greenhouse gas emissions for generations. Additionally, proper construction techniques lower or eliminate ongoing energy costs and can significantly extend the lifespan of buildings.

## **Small Capital Improvements**

It is the policy of the Town that Small Capital Improvements are efficient and do not use fossil fuel. Small Capital Improvements should be ENERGY STAR certified and/or qualify for incentives through Efficiency Vermont, where possible.

## **Procedures**

## 1. Large Capital Improvements (Capital Improvement Request Form Required)

Large Capital Improvements include:

- Vehicles, equipment and machinery (VE&M)
- HVAC replacements (heating/domestic hot water, ventilation, air conditioning)
- Building modifications and new construction

For Large Capital Improvements, Requestors must follow the respective procedure described at Attachment A (VE&M), Attachment B (HVAC), and Attachment C (building modifications and new construction). The procedures shall apply during the budget process (i.e., prior to formal adoption of the budget by the Selectboard and voters). With the exception of building modifications and new construction, Requestors must complete a [Capital Improvement Request Form](#) for review by the Green Procurement Team. The Town Manager may waive the requirements detailed at Attachments A, B, and C for Emergency Repairs and Emergency Replacements only.

## 2. Review by the Green Procurement Team

The Green Procurement Team will review the applicable capital improvement request form once submitted by Requestor and respond within [insert time frame]. The review will assess whether the Requestor followed the applicable procedures, and whether the request meets the standards and guidelines described in this policy.

## 3. Acceptance, Amendment, or Rejection of Request

Following review, each member of the Green Procurement Team will vote to accept, amend, or reject the request. Decisions will be made with a majority vote, and tie votes will be resolved by the Town Manager.

- ***Acceptance of request***

The Town Manager will notify the Requestor of the Green Procurement Team's acceptance of the request. The Requestor will continue with the budget process.

- ***Amendment***

If the Green Procurement Team finds the request does not meet this Policy's criteria (e.g., a fossil-fuel heating system is proposed when a heat pump would be effective), the Town Manager may suggest an alternative option to the Requestor. If the Requestor accepts the suggestion, the Requestor will continue with the budget process. If an agreement between the Requestor and the Green Procurement Team cannot be reached, the dispute shall be resolved by the Selectboard.

- ***Rejection of request***

If the Green Procurement Team finds that the request is not necessary for meeting the operational needs of the Town (e.g., a vehicle within the Town's existing fleet could be better utilized instead of purchasing a new vehicle), the Town Manager may reject the request.

## 4. Small Capital Improvements

For Small Capital Improvements, review by the Green Procurement Team is not necessary. Town Manager shall ensure that all requirements detailed at Attachment D are met during the procurement process.

## Contacts/Responsible Official

Questions related to the daily operational interpretation of this policy should be directed to:

[Insert responsible official]

## Effective Date

Approved by:

\_\_\_\_\_  
Responsible Official

\_\_\_\_\_  
Title of the Responsible Official

\_\_\_\_\_  
Date

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# Attachment A - Vehicles, Equipment, and Machinery (VE&M) Procedures

## 1. VE&M need justified

In order to ensure that the Town does not invest in unnecessary or underused VE&M, the VE&M Request Form asks for details on the operational purpose and type of VE&M requested, as well as whether it is a new or replacement VE&M.

## 2. VE&M sized for purpose

To ensure that the VE&M requested is the optimal size for its purpose, the VE&M Request Form asks for the VE&M's estimated usage (in hours per week) and estimated number of users. The form also asks whether the VE&M can be shared between departments, or rented when needed.

## 3. Fuel type guidelines

The default fuel-type for all VE&M replacements shall be electric. The following fuel types are ranked in order of preference:

- All-electric
- Plug-in Hybrid Electric (PHEV)
- Hybrid-electric
- Gasoline/Diesel

Requestors must search for their desired vehicle type using the U.S. Department of Energy (DOE) AFV search engine, available [here](#). When searching the DOE AFV database, requestors shall check electric, PHEV, and hybrid-electric only. The DOE database on AFVs is continuously updated and provides a comprehensive list of AFVs currently available in the U.S. market. If a suitable AFV is found, the form asks for the specific make and model. **If no AFV is found, an explanation must be given before the Requestor can proceed to requesting a gasoline or diesel vehicle.**

For equipment and machinery not listed on the DOE AFV search engine (e.g., lawn mowers, leaf blowers, etc.), Requestors must search for electric options using a web-based search, contacting the IREC (or Two Rivers-Ottawaquechee Regional Commission), or contacting the [Vermont Clean Cities Coalition](#) and documenting the search/contact. If an electric option is not selected, justification is required.

## 4. Determine incentives

Determine available incentives through Efficiency Vermont, Green Mountain Power, and other funding sources.

## 5. VE&M compared for fuel economy (vehicles only)

If no AFV is found, only vehicles with high fuel economies will be considered. The requestor must search for their desired vehicle type [here](#) and fill in the form with the highest fuel economy currently available on the market. If the requested vehicle does not



have the highest fuel economy currently available on the market, the requestor must also provide the fuel economy of the requested vehicle, and provide justification for the request.

6. Complete [VE&M Request Form](#).

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# Attachment B – HVAC Procedures

## Space Heating and Water Heating Replacements

### 1. Fuel type guidelines

The following fuel types are ranked in order of preference:

- Heat pump (ductless, ground-source or geothermal, air-to-water, centrally-ducted, commercial water-source) or solar (hot water systems). For air-source heat pumps, only cold-climate heat pumps listed on the [Northeast Energy Efficiency Partnership's \(NEEP\) cold climate ASHP product list](#) shall be acceptable.
- Biomass
- Fossil fuel (*Fossil fuel is never acceptable for water heater replacements*)

### 2. Contact Efficiency Vermont

The Town's Efficiency Vermont representative will provide technical assistance to determine the best fuel-type, distribution (heating systems only), equipment sizing, and system efficiency.

### 3. Determine incentives

Determine available incentives through Efficiency Vermont, Green Mountain Power, and other funding sources.

### 4. Complete [Space Heating/Water Heating Replacement Form](#).

## Ventilation

### 1. Contact Efficiency Vermont

Contact Town's Efficiency Vermont representative for technical assistance to assess the need for ventilation, the appropriate type of ventilation system, and the proper controls for the system.

### 2. New ventilation system guidelines

If requesting the installation of a new ventilation system, only the following ventilation systems shall be considered, ranked in order of preference:

- Energy recovery
- Heat recovery

### 3. Replacement ventilation system guidelines

If requesting the replacement of a failed existing ventilation system, energy and then heat recovery systems should be considered unless technically or economically infeasible. Justification must be provided for a simple replacement of a balanced or exhaust-only system.

### 4. Complete [Ventilation System Replacement Form](#).

## **Air Conditioning**

### **1. Needs Assessment**

Assess whether and where air conditioning is needed.

### **2. Use heat pump systems**

Heat pump systems should always be the first systems considered, with the goal of completely (preferable) or partially meeting the building's heating load in addition to providing cooling. For air-source heat pumps, only products listed on the [Northeast Energy Efficiency Partnership's \(NEEP\) cold climate ASHP product list](#) shall be acceptable. If there are documented plans to replace the building's heating system in the future, and cooling is needed immediately, a room air conditioning unit (e.g., window air conditioning unit) may be considered. The unit must be ENERGY STAR certified.

### **3. Contact Efficiency Vermont**

Contact Town's Efficiency Vermont representative for technical assistance to assess the appropriate type of air conditioning system.

### **4. Complete [Air Conditioning System Replacement Form](#).**

# Attachment C – Building Modifications and New Construction Procedures

## 1. Contact Efficiency Vermont

All applicable projects (major renovations and new construction) shall enroll in [Efficiency Vermont's Commercial New Construction Program](#) or equivalent. For modifications that do not qualify for Efficiency Vermont's Commercial New Construction Program, Requestors shall involve either an Efficiency Vermont representative or a Building Performance Institute (BPI) Certified contractor or consultant.

## 2. Net-zero new construction

All new construction shall achieve net-zero energy on an annual basis, as defined by one of the following standards:

- **Preferred:** Achieve a net-zero certification from Efficiency Vermont through its Commercial New Construction Program (includes incentives for successfully completion)
- Achieve a [HERS Index](#) Score of  $\leq 0$
- Achieve [PHIUS+ Certification](#)

## 3. No fossil fuels

The Town shall not use fossil-fuel based systems in new construction or modifications, where the modification includes the need for replacing space or water heating systems, ovens, cookstoves, or any other appliance or system that traditionally requires combustion, under any circumstances.

## 4. Green Procurement Team Review

Provide documentation of enrollment in Efficiency Vermont's Commercial New Construction Program or equivalent and/or building plans/designs to Green Procurement Team for review and comment.

# Attachment D – Small Capital Improvements Procedures

## Appliances and Electronics

Appliances include refrigerators, washing machines, clothes dryers, dishwashers, and dehumidifiers. Electronics include computers, monitors, and televisions. Requestors shall utilize the following process for purchases of appliances and electronics.

- Clothes dryers, dehumidifiers, and refrigerators
  - Dryers shall use electricity – no gas-fired dryers shall be permitted.
  - Dryer must be on Efficiency Vermont's Qualified Products List or ENERGY STAR certified. For up-to-date listings, see the [Rebates section on Efficiency Vermont's website](#).
  - Secure all eligible rebates through Efficiency Vermont.
- Computers, dishwashers, monitors, televisions, and washing machines
  - Must be on the [ENERGY STAR Most Efficient list](#).
  - Secure all eligible rebates through Efficiency Vermont.

## Lighting

Includes indoor and outdoor lighting. Requestors shall utilize the following process.

- For larger projects, complete a lighting power density analysis.
- All replacements shall be LED, and the lowest wattage LED replacement that achieves the desired lumens shall be utilized.
- All replacements shall be on [Efficiency Vermont's Qualified Lighting Products List](#), if applicable, or ENERGY STAR certified if not applicable.
- For larger projects, consider contacting Efficiency Vermont for [consulting services or custom incentives](#).
- Consider installing motion sensors and/or daylight controls.

## Cooking Equipment

Includes refrigerators, dishwashers, cookstoves, ovens, steam cookers, hot food holding cabinets, fryers, griddles, and hood fans. Requestors shall utilize the following process.

- All cooking equipment shall be electric.
- Contact Efficiency Vermont for consultation on appropriate equipment and design.
- Secure all eligible rebates through Efficiency Vermont.

## Pumps, Motors, and Drives

- [Contact Efficiency Vermont](#) for free consultation on energy efficient replacements and energy-saving controls.

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# Capital Improvement Request Forms

## VE&M Request Form

DEPARTMENT NAME \*

REQUESTOR NAME \*

REQUESTOR TITLE \*

REQUESTOR EMAIL \*

OPERATIONAL PURPOSE FOR VE&M REQUESTED\*

REQUESTED VEHICLE TYPE\* VEHICLE EQUIPMENT MACHINERY

REQUESTED VE&M STATUS\* NEW ADDITION TO FLEET REPLACEMENT OF RETIRED VEHICLE

TYPE OF VE&M NEEDED (E.G., SEDAN, DUMP TRUCK, SNOW BLOWER, ETC.)\*

PLEASE SPECIFY\*

ESTIMATED USAGE\* (HOURS PER WEEK)

ESTIMATED NUMBER OF REGULAR USERS\*

CAN THIS VE&M BE SHARED BETWEEN DEPARTMENTS\* YES NO

IF NO, WHY NOT?

CAN THIS VE&M BE RENTED WHEN NEEDED\* YES NO

IF NO, WHY NOT?

Search for your desired vehicle type at <https://www.afdc.energy.gov/vehicles/search/> and select: Electric, Plug-In Hybrid Electric, and Hybrid Electric.

IS THERE AN ALTERNATIVE FUEL VEHICLE (AFV) THAT FITS YOUR NEEDS?\*

YES NO

IF YES, MAKE AND MODEL

IF NO, PLEASE EXPLAIN HERE

FOR GASOLINE/DIESEL VE&M REQUESTS ONLY

MAKE AND MODEL\*

DETERMINE THE VEHICLE'S FUEL ECONOMY (VEHICLES ONLY)

Search for your desired vehicle type at

<https://www.fueleconomy.gov/feg/powerSearch.jsp>.

WHAT IS THE HIGHEST FUEL ECONOMY AVAILABLE FOR YOUR VEHICLE TYPE?\*

WHAT IS THE FUEL ECONOMY FOR YOUR REQUESTED VEHICLE?\*



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# **Space Heating/Water Heating System Request Form**

Please complete this form and attach any relevant information, such as price quotes, conversations with Efficiency Vermont or licensed contractors, drawings, etc.

**DEPARTMENT NAME \***

**REQUESTOR NAME \***

**REQUESTOR TITLE \***

**REQUESTOR EMAIL \***

**REQUESTED HEATING SYSTEM TYPE\*** SPACE HEATER WATER HEATER

**BUILDING/FACILITY WHERE REPLACEMENT IS NEEDED AND REASONS FOR REPLACEMENT\***

## **SPACE HEATING SYSTEM REPLACEMENTS**

**EXISTING HEATING SYSTEM DISTRIBUTION TYPE\*** HOT AIR HOT WATER RADIANT STEAM  
OTHER (PLEASE SPECIFY

**EXISTING HEATING SYSTEM FUEL TYPE\*** PROPANE HEATING OIL ELECTRICITY (HEAT PUMP) ELECTRICITY (RESISTANCE) BIOMASS DIESEL  
OTHER (PLEASE SPECIFY)

**DATE OF CONTACT(S) WITH EFFICIENCY VERMONT?\***

**NAME OF EFFICIENCY VERMONT REPRESENTATIVE\***

**PROPOSED HEATING SYSTEM REPLACEMENT DISTRIBUTION TYPE\***

HOT AIR HOT WATER RADIANT STEAM  
OTHER (PLEASE SPECIFY)

**PROPOSED HEATING SYSTEM REPLACEMENT FUEL TYPE\***

ELECTRICITY (HEAT PUMP) BIOMASS ELECTRICITY (RESISTANCE) PROPANE  
HEATING OIL DIESEL  
OTHER (PLEASE SPECIFY)

**IF PROPOSING A SYSTEM OTHER THAN AN ELECTRIC HEAT PUMP, PLEASE  
PROVIDE A JUSTIFICATION**

**WATER HEATING REPLACEMENT**

**EXISTING WATER HEATER TYPE\*** STORAGE TANKLESS COIL INDIRECT ON-  
DEMAND HEAT PUMP SOLAR  
OTHER (PLEASE SPECIFY)

**EXISTING WATER HEATER FUEL TYPE\*** PROPANE HEATING OIL ELECTRICITY  
(HEAT PUMP) ELECTRICITY (RESISTANCE) SOLAR  
OTHER (PLEASE SPECIFY)

**DATE OF CONTACT(S) WITH EFFICIENCY VERMONT?\***

**NAME OF EFFICIENCY VERMONT REPRESENTATIVE\***

**PROPOSED WATER HEATER REPLACEMENT TYPE\***

HEAT PUMP SOLAR STORAGE ON-DEMAND  
OTHER (PLEASE SPECIFY)

**PROPOSED WATER HEATER FUEL TYPE\*** SOLAR ELECTRICITY (HEAT PUMP)  
ELECTRICITY (RESISTANCE)  
OTHER (PLEASE SPECIFY)

**IF PROPOSING ELECTRIC RESISTANCE, PLEASE PROVIDE A JUSTIFICATION**

## **Ventilation System Request Form**

Please complete this form and attach any relevant information, such as price quotes, conversations with Efficiency Vermont or licensed contractors, drawings, etc.

**EXISTING VENTILATION SYSETM TYPE\*** EXHUAST BALANCED HEAT RECOVERY  
ENERGY RECOVERY NONE  
OTHER (PLEASE SPECIFY

**DATE OF CONTACT(S) WITH EFFICIENCY VERMONT?\***

**NAME OF EFFICIENCY VERMONT REPRESENTATIVE\***

**PROPOSED VENTILATION SYSTEM REPLACEMENT TYPE\***  
HEAT RECOVERY ENERGY RECOVERY BALANCED EXHUAST

**IF PROPOSING BALANCED OR EXHUAST, PLEASE PROVIDE A JUSTIFICATION**



## **Air Conditioning System Request Form**

Please complete this form and attach any relevant information, such as price quotes, conversations with Efficiency Vermont or licensed contractors, drawings, etc.

**EXISTING AIR CONDITIONING SYSTEM TYPE\*** ROOM UNIT CENTRAL HEAT PUMP  
MINI SPLIT NONE  
OTHER (PLEASE SPECIFY

**DATE OF CONTACT(S) WITH EFFICIENCY VERMONT?\***

**NAME OF EFFICIENCY VERMONT REPRESENTATIVE\***

**FOR BUILDINGS WHERE FOSSIL FUEL IS USED FOR HEATING, WILL THE PROPOSED AIR CONDITIONING SYSTEM ALSO OFFSET OR REPLACE FOSSIL FUEL USE ASSOCIATED WITH HEATING?\***

YES NO

**IF NO, PLEASE JUSTIFY**

**PROPOSED AIR CONDITIONING SYSTEM TYPE** HEAT PUMP MINI SPLIT  
CENTRAL ENERGY STAR RATED ROOM UNIT  
OTHER (PLEASE SPECIFY