

To: Town of Bristol Select Board, Valerie Capels, town administrator
Subject: Town building energy upgrades
From: Bristol Energy Committee,
Date: 9/12/2022

- Last winter the Bristol Energy Committee became aware that our librarian had to wear her winter coat in the library because the heat was not adequate.
- At the same time we were aware there was potential for state and federal funding to come on line, Particularly H.518 The Municipal Energy Resilience Initiative that is intended help towns make their town buildings more efficient and less expensive to heat.
- We contacted Madison Shropshire, Energy Planner for the Addison County Regional Planning Commission who recommended that we contact Efficiency Vermont (EVT) for advice on how to proceed to be “shovel ready” to apply for appropriate grants, and beat the rush that was sure to occur. In February, Rose Wall from Efficiency Vermont, Matt Sharpe and the committee, toured Holley Hall and the Lawrence Memorial Library as part of a “walk through” energy audit. Her report is at the bottom of this document.
- We don’t know when funds from H.518 will be available, but we advise that the town be ready when they are. So we are here to seek your guidance on how to proceed.
Note: we’ve prioritized the library because it is an essential town facility used by both adults and children. However both buildings are worthy of upgrades.
- We see several options:
 1. Contract with Building Energy of Williston to conduct a full energy audit of the library and prepare a report on needed renovations, benefits, and costs. (Building Energy is an EVT certified contractor.) We estimate the cost to be \$400, based on the building’s 2250 square feet .
 2. Contract with Building Energy to audit both the library and Holley Hall.

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Rose Wall
Feb 25, 2022, 4:08 PM (5 days ago)
to Ian, Sally, mshropshire, me, Matt

Hi folks,

Such a delight to spend time with you on Tuesday going through a few of the buildings in Bristol. A big thank you to Matt for joining us on these visits!! Here are my notes from the walk throughs of the library and town hall. I’ll keep mulling over the historical society building. Please let me know if there are other ways I can support Bristol and keep me in the loop as these projects develop so I can connect you with more resources!

Library:

Full energy audit to find out where air leaks are coming from and where more dense pack insulation is needed.

New attic hatch & seal

Weatherstrip, close, and latch all windows- add to fall annual maintenance plan. Opportunity for interior storms.

Spray foam rim joists where basement ceiling meets first floor along the perimeter, where fiber glass is.

Envelope will need to be improved before considering air to water heat pumps, but this could be a significant upgrade for comfort and to get off fossil fuels!

Blower Door Contractors & Insulators (that do dense pack insulation):

Building Energy (802) 859-3384

Weatherization and Renovation of Montpelier LLC (WARM) (802) 229-6973

Midd Vermont Insulators (802) 989-5550

Builders Installed Products Williston (802) 864-9895)

Town Hall:

Blower door targeted/directed air sealing of all the cracks (with caulk & paint) of the recreation space. Great volunteer project!

Insulate exterior walls below stage

Weatherstrip exterior doors and breezy windows (make sure to close and lock all windows in winter)

Utilize ceiling air vents in summer if possible

High-Performance Circulator Pump | Efficiency Vermont (up to \$600 off at the time of purchase) when/if one fails, it might not be cost effective to proactively replace

Upgrade to Energy Star or Design Light Consortium certified LEDs

Small amount of hot water required for hand washing creates a parasitic load and requires your oil burner to stay on even in the summer... this is something to think about as you make fossil fuel reduction plans

Best,

Rose

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Submitted by Richard Butz, for the Energy Committee