

# Madison Energy Advisory Committee

Update 6/28/16

# Town Buildings “Button-Up” Proposals

- \* **Quality Insulation of Meredith – \$32,050**
  - \* Town Hall – Attic, Ext. Walls, Basement - \$8,200  
5-7 year payback
  - \* Library – basement - \$4,300  
8-10 year payback
  - \* Elementary School – attic and door weather stripping -  
\$19,550 - 7-9 year payback

# Town Buildings “Button-Up” Proposals

- \* **Energy Efficient Investments Inc. – \$69,894**

- \* 9 year payback
- \* Have requested breakdown by building - Ed Dwyer to provide
- \* Town Hall – Attic and stairwell envelope, basement window sill insulation, weather stripping main entrance
- \* Library – Basement insulation
- \* Elementary School – Old Wing ceiling, Attic in new wing insulation, door weather stripping as needed

**Note:** EEI suggests having structural engineer analyze load on the attic before adding insulation, reinforcing walls and floors to support dense packed insulation and checking painted surfaces for lead paint prior to the weatherization renovations. – needs follow-up.

# Town Buildings “Button-Up” Proposals

- \* Install 4 programmable thermostats in Town Hall –
  - \* Jesse Lyman Quote - \$789 (1/15/2016)
  - \* Madison Resident Ken Eckhardt Quote – \$345
    - \* 2-3 hours labor = \$15/per hour = \$45
    - \* 4 Honeywell Focus Pro6000 digital thermostats (Amazon)  
= ~\$75.00/per unit (with shipping) = \$300

# Town Buildings “Button-Up” Proposals

- \* Recommend Quality Insulation of Meredith for Town Hall and Library – in addition to reduced energy costs, comfort will also be enhanced.
- \* Provide this proposal to budget committee and submit warrant article for next year building weatherization
- \* Ken Eckhardt will submit Quality Insulation quote for Elementary School to School Board for consideration.
- \* Will call Eversource to for funding opportunities for municipal building weatherization – Smart Start, NH Saves
- \* Recommend Ken Eckhardt install programmable T-Stats in Town Hall - 1-2 years payback - ASAP.

# Town Hall Water Heater Upgrade

- \* Jesse Lyman proposal 2/2/16– Rinnai tankless water heater – materials and labor - \$3,989

Recommend wait for current water heater to fail, and then consider small energy efficient (ex. 2-4 gal. Eco Smart Mini) Point of Use water heaters in each restroom and the kitchen. ~\$170-200/each at Home Depot; plus need labor - electrician to install.

# Town Buildings Lighting Update

(Town Hall, Fire Station, Library, DPW and Maintenance Garages)

- \* EMC has provided a project quote for lighting upgrades (equipment and labor) that qualify and meet payback threshold for NH Saves 50% funding
- \* EMC will also provide us quote for all LED lighting for comparison and consideration.
- \* Waiting on Eversource for Smart Start Application to get in the queue – we are too late for this year – all funding gone.
- \* Rockingham Electric provided us a quote for the lighting fixtures not supported by the NH Saves payback threshold, but need to add Electrician quote for comparison
- \* MEAC will have to put out mini RFP to local Electricians to quote on lighting retrofit installation (labor not included in Rockingham quote)
- \* Researching lighting added to DPW and Maintenance garages – when installed and costs before making retrofit upgrades – what do BOS know about this lighting?

# NH Wood Energy Council Feasibility Study for School and Garage

## Project to be evaluated:

- ❖ Planned modern wood heating system for the elementary school and the maintenance garage
- ❖ Install the system at the maintenance garage

## Obstacles:

- ❖ Elementary school utility room where boiler and connections are is located too far away from maintenance garage to be economical
- ❖ Madison Garage emergency new furnace unfortunate expense in 2016

## What's in the works?

- ❖ Public Utilities Commission have increased the rebate
- ❖ NHWEC re-tabulating the ROI

## Plan

- \* NHWEC want to make presentation to the Energy Committee – we will invite BOS, and School Board – How is August 18<sup>th</sup>, at 7pm?



# Town Buildings Energy Efficiency Upgrade Projects

2016 Budget for building maintenance is \$15,000

- \* \$7K already spent for new heating unit Madison Garage
- \* Other dollars already earmarked for needed building projects

Consideration for projects timing:

- \* Prepare draft of 2017 warrant articles for weatherization and lighting retrofit town hall, library, fire station, garages.
- \* Make a presentation at Town Meeting in march on the NHWEC Feasibility Study for the school – shelf ready project should grant funding suddenly come along
- \* Request feasibility study from NHWEC for modern wood heat for Town Hall, Library and Fire Station
- \* Investigate drafting and sending out an RFQ for Solar Photovoltaic for all town buildings and school with Power Purchase Agreement to be ready for 2018.