

## **Center Harbor Energy Committee** Minutes of Meeting – 2 November 2017

Attendees: Carol Sullivan, Chris Williams, and Bernie Volz. Annette Nichols and Selectmen Representative Richard Drenkhahn were absent with notice.

Chris called the meeting to order at 7:05 p.m.

### **On-going Business:**

**Approval of Minutes.** The minutes of the meeting of October 5<sup>th</sup> were approved.

**Town Garage Energy Savings Opportunity.** The committee discussed the recommendation by Bernie to limit the current project to insulating the concrete foundation walls, replacing the “man” doors, and weather stripping the garage doors. The other items (wall insulation, ceiling insulation) require the structural analysis and ventilation/heat exchanger system and would thus be rather expensive and unlikely have a sufficient enough payback period. The committee agreed to the following plan:

1. Limit the scope of the current project – it will not include insulating the walls and ceiling. This might be something taken up in the future, but it is off the table for now.
2. Finalize quotes for the following work:
  - a. Insulating the concrete foundation walls (estimated cost \$8,800).
  - b. Replacing the “man” entry doors (estimated cost \$3,000).
  - c. Adding weather stripping to 6 of the garage doors as well as adding brush seal (this is based on Raynor’s quote Q-020117-1mb Jeff Haines obtained in early February 2017). Estimated cost \$3,330.00 (based on quote).
3. Obtain updated quotes from all parties as some are dated.
  - a. Carol to contact Newell as the committee recommends them to the Selectmen to do the project since they can handle both the insulating work and the entry doors (2a and 2b above).
  - b. Bernie to contact Jeff Haines to work out getting an updated Q-020117-1mb quote from Raynor.
4. Recommend to the selectman that funding for this work come from the Energy Trust Fund as follows:
  - a. Insulating the concrete foundation walls – 100%.
  - b. Replacing the “man” entry doors – 50% with the other 50% is to come from maintenance funds.
  - c. Adding the weather stripping and brush seal for the garage doors – 100%.
5. Apply to NHEC program to hopefully get about 35% of the cost of the entire project rebated. Hence, contracts cannot be awarded until we have NHEC approval. Carol to work on getting the paperwork submitted once updated quotes received.
6. The total estimated costs will thus be:
  - a.  $\$8,800 + \$3,000 + \$3,300 = \$15,100$ .
  - b. Of this \$15,100, recommend to selectmen that all but \$1,500 come from the Energy Trust Fund (\$13,600). \$1,500 will need to come from elsewhere (maintenance fund).

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- c. We hope to get back 35% (\$5,285) from the NHEC. With \$4,760 going back to the Energy Trust Fund and \$525 to the maintenance fund. The rebate will be split based on the source of the original funds.
7. Of course, these are all just our recommendations and it will be up to the selectmen to make the final determinations.
8. Chris to check with a few structural engineers to get an idea as to the cost of doing the structural analysis given the lack of drawings for the garage. Bernie suggested we consider hiring someone to do an analysis of an entire future project to insulate the walls and ceilings, presenting various options and recommendations.

During the meeting, Bernie did a rough calculation of the SIR (Savings/Investment Ratio) using the data generated by Richard Burns of Shakes to Shingles:

Improvement	Cost	Annual MMBtu	Annual Savings	Payback Years	Life (years)	Savings / Investment Ratio
Insulate Concrete						
Walls (R-26)	\$8,800	58.1	\$2,074	4.2	40	9.43
Entry Doors	\$3,000	1.4	\$58	51.7	20	0.39
Overhead Doors	\$3,300	2.3	\$91	36.3	20	0.55
<b>Total Project</b>	<b>\$15,100</b>	<b>61.8</b>	<b>\$2,223</b>	<b>6.8</b>		<b>5.69</b>

Warning: This may not be correct as it used old savings assumptions and simply the **annual savings \* life / cost** to determine **savings / investment ratio**.

**New Business:** None

**Other Business:** Items tabled as per agenda until a future meeting.

**Homework for future meeting.** Members are asked to:

1. Review the Master Plan's Energy Chapter (available at <http://www.centerharbornh.org/planning-board/files/master-plan-chapter-8-energy>).
2. Review the handout that should go with building permits developed a while back by the Energy Committee - [https://www.centerharbornh.org/sites/centerharbornh/files/uploads/energy\\_tips.pdf](https://www.centerharbornh.org/sites/centerharbornh/files/uploads/energy_tips.pdf).

The meeting adjourned about 7:55 pm.

**As a reminder** - at the October 5<sup>th</sup> meeting, the CHEC adjusted its meeting schedule as follows (to accommodate an RFP that was never issued):

- **Thursday, November 30<sup>th</sup> instead of December 7<sup>th</sup>**
- **Thursday, January 11<sup>th</sup> instead of January 4<sup>th</sup>**

**Next meeting is tentatively scheduled for November 30<sup>th</sup>, 2017 at 7:00 pm.** (This is a week earlier than when the December meeting would normally be.)

Respectfully submitted, Bernie Volz, November 5<sup>th</sup>, 2017. Corrected cost estimate error 11/7 (was \$2500 when should have been \$3300).