

Center Harbor Energy Committee Minutes of Meeting – 10 August 2017

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

Annette called the meeting to order at 7:00 p.m.

On-going Business:

Approval of Minutes. The minutes of the meeting of July 6th were approved.

Library Lighting Upgrades Project. Annette announced that the lighting materials have been received by the distributor!! Annette met with the Library Trustees and installation work is scheduled to start Monday, September 18th. It is expected to take 6 business days. Annette will work out with the distributor and electrician (TNT) as to delivery of the materials in time for the start of work.

Town Garage Energy Savings Opportunity. Four (4) responses were received by the Town to the *Weatherization and Building Improvements of the Highway Garage RFP*. The committee opened each and reviewed the response and then the pricing.

All of the responders were primarily insulating companies and declined to bid on (4) installing thermostats, (5) locating and sealing the roof, and (8) installing heat recovery ventilation unit. Only 1 responded to (2) air sealing. Only 1 responded to (3) replacing the two exterior entry doors. All responded to (1) insulating the concrete walls, (6) insulating the walls, and (7) insulating the ceiling. All also believed that using spray foam insulation for the walls and ceilings (removing the existing insulation and then spray foaming) would result in a much better end product.

While there were some differences, in general the response were similar. Pricing, while a bit variable, was reasonably consistent (about 20% difference between high and low – in total, and on most line items). One only provided only a total cost (no break-out).

Payment terms varied significantly (from 50% up front to all on completion).

None provided any information that would be useful in terms of applying for a NHEC program.

As in the past, many did not do a good job in following the RFP instructions and failed to provide all requested information (though one did a great job).

The committee discussed the various proposals and came up with some potential follow up questions.

The committee also expressed concerns:

1. Sealing the Garage will require the heat recovery/ventilation unit as the air quality in the garage could suffer. There's plenty of fresh air entering now, but that will change if insulated. Based on ASHRAE Standard 62-1999, 1.5 cfm/ft² is recommended for

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garages, which at 50' x 50' works out to 3,750 cfm/ ft². And, a RenewAire LE6XINH handles 1,500-6,600 cfm/ft² and is said to have an installation cost of about \$55,000.

2. If the ceiling is well insulated, can the roof support the snow load (as melting now likely reduces this load between storms)? This could require evaluation by a structural engineer.

All on the committee believe we should proceed with at least insulating the concrete foundation walls as that has the biggest savings/investment ratio; at least based on Richard Burns' calculations back in January 2017 at a cost of \$4,104 (which is less than all responses) and annual estimated savings of \$2,074, the SIR was 19.41. The SIR will be lower based on actual project cost (3 responses came in higher and the 4th did not break out the costs).

For the items no one included in their responses, the Town will need to look to others to do this work. Jeff Haines was exploring alternatives for at least (3) replacing the two exterior doors.

The committee next developed the following action items:

- Check with Jeff Haines to see:
 - o Whether he had any input from meeting many of those that responded. -- Carol
 - o If he has made any progress on finding others to do the door work. – Carol
 - o If he can locate a roofer to repair the leaks in the roof. – Carol
 - o If he has sufficient maintenance funds to do the door and roof repair work or whether he expects some help from the Energy Committee (as it will improve the energy efficiency of the building). – Carol
- Check with Ken Balance if has any input on any of the responders that we should be aware of before making any decisions. – Carol
- Check with Seely Plumbing to see what their take is on the heat recovery/ventilation unit (how large, "budgeting cost"). – Carol
- Put together a spreadsheet summarizing the responses with appropriate details to make it easier for the committee to compare and to generate follow up questions. -- Bernie

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.

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The meeting adjourned about 8:35 pm.

Next meeting is tentatively scheduled for September 7th, 2017 at 7:00 pm.

Respectfully submitted, Bernie Volz, August 14th, 2017.