

Nelson Town Buildings Committee

June 4, 2018

Attendees

- Dave B
- Earl
- Russ
- Sandy
- Dave B

Guests

- Greg Blake, South Pack Solar

Action Items

Dave U

- Ask Dana for ideas about grants that might be available to purchase ASHPs
- start this process:
 - We should make maps of all buildings with specific heating/cooling needs for each room
 - winter heating temperature
 - summer cooling temperature

Meeting called to order at 6 PM

Minutes of April 30, 2018, motion to approve by Sandy, second by Russ, all in favor

MINUTES

Water

- Been approved by the state
- MFS and the Library is reporting a “scum” when the water is boiled
 - Suggestion to try a glass pot to see if it is the metal that is reacting with dissolved minerals

School Solar Project

- We appreciate that the School is investigating solar
- It's a power purchase agreement, so the solar would be built at no cost to the town
 - Be aware that there is probably room to negotiate with the power purchase company. The school should reap at least part of the benefit of the 5-year depreciation and the tax credit.
- We advise them to look at more than lighting, consider looking at electric heating in the future.
- Sandy asks if Eversource would have to bring in a bigger "pipe"
 - Depends
 - Are you creating more energy than you are using? If generating a lot more, then an upgrade might be needed.
 - Looks like this school project is small

Long-term Municipal Solar Project

- Information from Resilient Buildings Group
 - Estimate re Air Source Heat Pumps needed to meet town heating/cooling needs in municipal buildings
 - We note that this group helped get the Eversource rebate for us, and in addition, they do not sell Air Source Heat Pumps. We agree to accept their proposal of \$3,000 to do engineering study.
 - To tell us how many heat pumps we need, and design for how to distribute the heating and cooling
 - We need to recognize that there may be significant costs to the ASHPs. We remember about \$75K as an estimate for an ASHP for the Town Hall as part of the renovation (we decided to stay with the old furnace instead).
 - We need to look for grants, as well
 - We may need to consider a power purchase agreement in order to take the cost of the solar out of the equation
 - We should make maps of all buildings with specific heating/cooling needs for each room
 - winter heating temperature
 - summer cooling temperature
- Sandy and Dave B leave to attend School Solar presentation
- Dave U's proposal

- 3-year plan
 - Year 1
 - Enough solar to meet current electrical needs for municipal buildings
 - Year 2
 - Invest in Air Sourced Heat Pumps, add additional solar to supply enough electricity to match what ASHPs use
 - Year 3+
 - Migrate new purchases of municipal vehicles to electric vehicles. Add solar to supply enough electricity to match what vehicles use
 - Is there a cost saving of doing this all at once rather than over three years
 - The first year, size it for the full project, do the interconnect agreement for the final size, purchase all the inverters in year one.
 - There isn't a big cost hit to spreading the project out over several years
 - Though we need to recognize that the future phases are more and more uncertain
- Informational Meeting
 - At our next meeting, we will plan for an informational session to present at least the next two phases.

Next Meeting

July 9th at 6 PM

Motion to adjourn at 6:53 PM by Russ, second by Dave U all in favor