

Nelson Town Buildings Committee

October 28, 2019

Attendees

- Dave Upton
- Dave Birchenough
- Russ Thomas
- Lisa Sieverts
- Absent
 - Earl Creasey
 - Sandy Mackenzie

Guests

- Dana Nute
 - Resilient Buildings Group
- Greg Blake
 - South Pack Solar
- Morgan Urquia

Action Items

- Lisa
 - Make a document about the deed restrictions, just the first paragraph, and send to Edie for printing
 - Ask Max to come and help with microphones on November 7
- Dana
 - Will write an addendum for Edie email to the bidders, Dana will send this to Dave Upton (selectboardchair@nelsonnh.us)
 - Email your Powerpoint file to Dave Upton
- Greg
 - Email your Powerpoint file to Dave Upton
- Dave U
 - Ask Edie to send the ASHP RFP to Dana Nute
 - Send Greg Blake the digital image/map of the Turtle Hill site (from the bid package)
 - Set up projector on November 7
- Dave B
 - Send PPA information that you wrote, in digital format, to Greg Blake

- Dave B will ask Candyce to send an email to the MiS mailing list about November 7 event

MINUTES

Agenda for the November 7 information session

- Dave Upton opens
 - Introduce the evening
 - We're presenting our proposals, with an emphasis on the big goals, the projected costs and potential cost savings
 - Goal is reduce consumption of fossil fuels for municipal use by 90%
 - One of the big uses is heating our buildings, so that's our focus with the projects we will bring to Town Meeting in March
 - We currently have 8 furnaces, mix of propane and oil
 - Review the first steps
 - Energy Conservation work that was done
- Introduces Dana Nute
 - Do you need a projector?
 - Probably
 - How does an Air Source Heat Pump work
 - How you estimated the heat loads of the buildings
 - What was the recommendation for Air Source Heat Pumps for our buildings – how many and locations
 - Return on Investment
 - Protecting us from volatility in pricing
 - Safer than propane and oil tanks
 - Wait until someone asks a question about efficiency between oil/propane and ASHP
 - Dana will have a chart that shows that even though per BTU, you spend more with electricity than you do with propane/oil, so moving to solar is a big piece.
 - We will be moving from X\$ in propane and oil to generating all of that power with solar
 - Therefore, important to do the solar project with this ASHP project
 - Q&A
 - 5–10 minutes maximum
- Introduces Greg Blake
 - Yes, needs a projector
 - Review what has been done
 - Solar on the Library
 - It's on track to be paid back in about 12 years from when we installed it
 - Makes about 10,000 kWh per year, \$2,000 per year
 - Talk about how to make 95,000 kWh at that site

- Bring an actual module and say “you need 227 of these”
 - 9.5 libraries
 - Talk about the site
 - That it will in the south-westerly corner of the site
 - Ideal site
 - Talk about the solar pathfinder analysis
 - Really good for NH
 - How the power will be used
 - Grid-tied instead of battery
 - Estimated payback period
 - What is a Power Purchase Agreement
 - And why it is attractive for a municipality
 - Reduces property tax burden
 - Pay a lower electric rate, guaranteed over time
 - Dave B has some information that he will send to Greg Blake
 - Q&A
 - 5–10 minutes maximum
- Dave Upton
 - These projects are out for bid now
 - We’ll have definitive budget numbers at Caucus and Town Meeting
 - Here is the ballpark estimate
 - Review the estimated costs
 - Solar
 - Estimating at about \$2.75 per watt
 - \$187,000
 - May be via a Power Purchase Agreement
 - ASHPs
 - \$141,000
 - Which we have in Capital Reserve
 - Including replacement ASHPs for the Library to be more efficient and to be able to heat and cool at the same time, though we will keep the current mini-splits and also be adding more
- We ask for your support at Town Meeting
 - We could ask them to weigh in on questions
 - Are you in favor of a PPA?
 - Are you in favor of the solar project
 - Are you in favor of the ASHPs?
 - We decide to do this unofficially rather than officially

Financing

- Dana mentions PPA from Eversource
 - “On Bill Financing” may be an option from Eversource, but Dana is not optimistic
- Dave U and Morgan will continue to research grants

Motion to approve the minutes of October 21 by Russ second by Dave U, all in favor

Next Meeting

- Monday November 11 6 PM

Motion to adjourn at 7:44 PM by Russ, second by Lisa, all in favor