

Nelson Town Buildings Committee

September 19, 2016

Attendees

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

Guests

- Jason Day from Star Wind
- Michael Iselin

Action Items

Dave U

- See if the reverse osmosis water company can come out and make an assessment

Dave B

- Check with the company that did the energy audit to get a spreadsheet of items with ROI

MINUTES

Jason Day, Star Wind

- His company makes 4 sizes of wind turbines
 - Using towers of 60, 80 or 100 feet
 - Much smaller than what most of us think of as typical wind turbines
- Star Wind turbines are much smaller than the large towers

- Designed to make peak energy at slower wind speeds
- Net metering – utility provides the reversible meter
 - If you're also selling your RECs, then you need two meters, one to show production and one to show net
- American midwest has the most wind potential of anywhere in the world
 - Steady wind, relatively fast
 - This is what the giant 3 blade turbines were designed for
- East coast is much slower wind
- They make their entire generator/tower, including winding their own generators
 - His machine shop used to make airplane parts
- NH wind noise ordinance is too HIGH right now
 - 55 db is allowed, this is way too loud
 - His turbines are much quieter, 35–38 decibels, which is quieter than the wind in the trees
- Best wind
 - Up on a ridge, 360 degree view, smooth terrain approaching the tower
 - How close is power, to run electrical lines to the turbine
 - How strong are the utility lines, they may not accept all the produced power, how close are you to a 3-phase trunk line
- Group Metering
 - Find a good site
 - \$15,000 for the site work
 - Owner becomes the landlord of the property
 - Makes 120–140,000 kWh
 - Town takes 10 shares
 - Homeowners buy other shares
 - NH problem
 - The owner gets a check, instead of each member getting electric credits. That check shows as income.

- Jason will write up a prospectus to show us that at \$.18 per kWh, we'll be getting 20–30% return
 - Turbine can make \$30,000 in a year
- Municipal
 - He is making proposals to several towns now, but no towns in action currently
 - Discussion of the complexity of mixing municipal and private investment
 - Complicated
 - Unless the town is treated as a group of 1, so that all town's metering is grouped together and reversed when power is generated
 - Our goal is to rid the town of consumption of fossil fuels
- Solar v. Wind
 - \$3/watt for installation for solar
 - We paid \$2/watt after the PUC rebate
 - \$31,000 / 9.5kW for our solar before the PUC rebate
 - We paid \$3.80 for solar installation per kWh
 - His 10kW turbine makes three times the energy, and it will cost the same as the Library solar. The key is whether the wind is there.
- We thanked Jason for this information.

Fire Marshall's Report

- We're making progress on correcting violations in the buildings that are used by the public. The Fire Marshall acknowledged that we are making a good faith effort.
- The Town owes the Fire Marshall the report on the schedule for the next phase work.
- Crowd Control Manager
 - It looks like any event needs a crowd control manager
 - Monadnock Folklore took the initiative about 3–4 years ago to get every board member trained through the online program (it was free at that time). But we need to be recertified.
 - Who will pay for the crowd control training?
 - The town

Approval of the minutes

- Minutes of August 8, 2016
- Motion to approve by Russ, second by Sandy, all in favor

Town Hall Water

- The filters are still plugging up
- Town has moved to using Pur filters on the taps directly instead of the reverse osmosis process
- Have to switch from “hand washing mode” to “drinking water mode” manually, needs education
- Can we ask the person who put in the reverse osmosis system to come and look at it to make sure it's OK?

Nelson Library Energy Audit

- The report seemed to be some useful information and a lot of filler
- Earl and Dave say don't plug up the roof soffit
- But the place where we do need a energy audit is the Safety Building/Highway Barn
 - Next Meeting, let's talk about whether to budget for this year

Fire Dept Capital Needs Assessment Committee

- Similar to the Road Equipment Committee
- Bob Lenox is the Chair
- Relates to TBC because Fire Dept is to work with Town Buildings Committee whenever the topic is related to buildings

Next Meeting

Look at the Library/Town Hall Energy Audit and pick out the items to budget for in 2017

- Dave B will talk to the auditor about getting a spreadsheet showing ROI

October 17 6 PM Town Offices

Motion to adjourn at 7:42 PM by Lisa, second by Russ, all in favor