

Timberlane Regional School Board Energy Committee

June 16, 2020- 7 PM

Members: Gary Paradis, Steve Paradis, Brian Boyle, Maria Watkins, Kim Farah, Barbara Kiszka

Excused: Geoff Dowd

1. Barbara Kiszka and Maria Watkins elected as co-chairs
2. LED light conversions-
 - a. Exterior - Working on exterior on all buildings to move all lights to LED lighting. Lights on telephone poles have not been changed because the Utility company owns these and we rent them.
 - b. Interior - removing fluorescent and replacing with LED at TRHS and TMS hallways, cafeterias, and libraries. Classrooms will come later. Have done 455 lights to date.
 - i. It was suggested that we look at Affinity in Dover NH before we move to classroom lighting changes. They have very smart, high efficiency LED lighting made in NH.
 - c. Selection process - Lights chosen by working with Northeastern Electric and Util to find those that are comparable to what we have by lumens and wattage and are also on the rebate list. We expect to get a substantial rebate on the
 - i. Going forward we will be mindful of Board Policy DJE where projects over \$10,000 are put out to bid and those over \$5,000 have 3 written competitive quotes.
3. Energy audit-No one was aware of any energy audits being done in the recent past.
 - a. We have two electric companies:
 - i. Eversource – Sandown North and SC-NH Coop
 - ii. Unitil – all other schools
 - b. Steve Paradis will contact Unitil and other suppliers to discuss whether they can do an energy audit. The expectation is that this will be free.
 - i. <https://nhsaves.com/rebates/retrofits/>
 - ii. [NH electric co-op retrofits](#)
 - c. **Maria** will get information on past electricity cost and usage by building, for the past 3 years if possible.

We expect usage this year to be distorted due to the Covid-19 shutdown. No lights are in use, no sports teams over the summer, etc. If we are back to normal by Oct 2020 we should be able to compare to Oct 2019. We also have new boilers at several schools which are more energy efficient.
 - d. Sample [school energy audit from Lincoln-Sudbury schools, 2009](#)
4. Solar Energy-
 - a. There are several options such as on a roof, ground mount, those that track movement of sun, etc. There is also the option of owning the panels outright or leasing them to reduce upfront cost.

- b. We should consider schools with the newest roofs first when considering roof mounted. Sandown North as the newest roof and good solar exposure. There are multiple levels on the roofs on the high school and middle school.
 - i. **Gary and Steve Paradis** will invite several local solar installers to look at the schools in the district and then present to the Energy Committee.
 - ii. Here is a [solar calculator](#) to determine estimated savings for each building address.
- c. Solar canopies might be something that we might want to consider. **Barbara** is getting more information from two installations:
 - i. The [Lincoln-Sudbury Regional high school in Massachusetts built a solar canopy 5 years ago.](#)
 - ii. Comcast in Manchester and Plymouth NH installed [their solar canopy](#) in 2018.

Kim will ask our financial consultant whether we could use savings from energy projects to fund more energy projects.

- 5. Overall plan – get rough estimates of cost and savings for solar and energy efficiency projects. Determine as a committee what we can afford to implement for the next year or two.
- 6. We will plan to meet Tuesday July 14th at 7pm but will reschedule if the prom goes on as planned.

Thank you to Kim Farah for taking notes for this meeting.