

ENERGY MANAGEMENT COMMITTEE
Meeting Minutes: April 12, 2021, 5:30 pm to 7:00pm
Zoom Video Meeting

Voting attending: Justin Magee, Todd Kosterman, Karl Rexer, Allison Gaiko, Roger McPeek, Colleen Soden, Bogdan Fedeles

Non-Voting attending: Laura Turenne, Susan McPhee, Fritzie Nace, Pete Lawson, Tom Hopcroft, Rich Mucci

Absent: LeeAnn McGahan, Ellen Whittemore

1. The minutes from 2/22/21 were unanimously approved.
2. New Business:
 - a. Welcome to Tom Hopcroft, newly elected School Committee member, and Rich Mucci, newly elected Select Board member.
 - b. Ms. McPhee noted that additional money from the VW settlement will soon be released, although no details are known yet. Mr. McPeek enquired as to whether new, diesel generators will be acceptable for funding. *Action Item: Ms. McPhee to enquire regarding the diesel generators.* Replacing the current diesel street sweeper with a new electric street sweeper is also a possibility for funding via the settlement.
3. New Lynch, low EUI/ZNE language in Request For Services (RFS) for Owner's Project Manager (OPM): Please see document entitled "Owner's Project Requirements (OPR). The purpose of the OPR is to provide sustainability guidelines for the OPM and the design team that are expected to be considered and implemented as applicable and appropriate. Ms. Soden and Mr. Kosterman would like feedback from EMC to bring to EFPBC, especially around Energy Use Intensity (EUI) and other energy related matters. *Action Item: EMC members to read the OPR and send edits to Ms. Soden and Mr. Kosterman.* One goal is to leverage as many utility incentives as possible. It was determined that an EUI of 25 is an acceptable goal. Ms. McPhee noted that the utility programs and utility incentives are constantly changing and evolving. Mr. Lawson's input will be required for the operation of the building, such as the amount of metering that should be installed. Page 7 of the OPR has a place holder for suggested temperature set points. *Action Item: Ms. Turenne to check official town temperature set point policy.*
4. Summer Power-Downs at Schools: In the past, there has been variation between schools. Ms. Nace always sends the power-down email to all the principals; however, some principals are better than others at disseminating the information. Some schools created an end of year checklist that teachers find helpful. There needs to be more uniformity between schools, and schools need to take ownership. Ms. Nace will send out the power-down email before the last day of school (the last day is scheduled for June 18). Unfortunately, not all teachers read the email. Many mini fridges are left plugged in. *Action Item: Ms. McPhee to get on School Committee's agenda.*
5. Energy Intensity at High School (Ms. McPhee): Please see the attachment kBTU/sqft. The high school was modeled to have an EUI in the low 40s. The new high school

building has an electricity EUI 16% less than the old building and a gas EUI that is 43% less.

6. High School Solar Panels: The current photovoltaic (PV) panels are limited to classroom wings. Installation of PV panels over the gymnasium is on hold and may be revisited later by the Town. The PV panels on the classroom wings were recently recording 2/3 of their production capacity, even on the sunniest days. Chris Conway was questioning if all the inverters are reporting. It was noted that Solect is incentivized to have the panels all working. The capacity numbers are modeled for an entire year and should be compared to actual electric production. Websites, such as the PV Watts calculator, can be used to estimate expected production amounts. The PV panels are tilted, at about 10% from horizontal. *Action item: Dr. Rexer to enlist aid of expert solar installer, Dave Judelson, to help assess the recent solar production of the high school panels.*
7. Green Communities Grant: Over two million dollars in grant money since 2010.
 - i. Public Safety Building: Switch Police side to LEDs
 - ii. West Side Fire Air Handler
 - iii. DPW LEDs
 - iv. Ambrose LEDs Phase 3
 - v. Exterior LED Lights Town Hall
 - vi. Lynch weather stripping on approximately 30 doors: \$9000 to fill in rest of grant. Oil savings are huge. Grant can now be used for prescriptive measures.
8. Old Business
 - a. McCall Unit Ventilator (UV) Pilot Project: Mr. Lawson noted it was very successful. The \$50,000 from Capital was used plus operations (DPW) money. The UVs were changed from pneumatic to electric Metasys controls, nine were installed on the first floor to the left of the front doors. The work was performed over Feb. school winter break. No feedback yet from the teachers was provided. Those 9 classrooms are now on the EMS and can now be controlled remotely. There are still at least 60 more classrooms that can be retrofitted with similar controls. Mr. Lawson suggested that the rest should be converted by zones and phases. Cost is \$4000-\$5000 per room. It is difficult to secure Green Community Grant money for this project because such measures are hard to quantify the savings.
 - b. Town Hall and Police HVAC: The same engineering firm is looking at both buildings. The review of the building and schematic design process is underway at Town Hall.
 - c. META grant (*Ms. McPhee, Mr. Lawson*): This has been put on hold during the pandemic.
9. Schedule Next Meeting: May 17th at 5:30pm via Zoom