

Madison Town Energy and Efficiency Committee

Madison Town Campus December 17, 2019

MINUTES

Members Present: Woodie Weiss, Chairman, Tracy Juengst, Gary Naegel, Dick Evarts, Francis Pullaro and Ron Hick. Absent was Guy Mannino. Also present were Selectman Al Goldberg, and town residents C. Thomas Paul and John Dixon

1) Call to Order. The meeting was called to order at 5:00 p.m. by Chairman Weiss.

2) Approval of November 2019 Minutes: Motion by Francis Pullaro and seconded by Dick Evarts to approve the November 2019 meeting minutes. This passed unanimously.

3) Discussion of the Town Campus Building and the new Library Energy Monitoring Display.

Woodie said both buildings will have a large screen display for the public to view information about the geo-exchange (geothermal) and the Photovoltaic energy generated in real-time: for example for the geo-exchange, it will show the Btu's from the earth and how much energy the heat pumps are using. The public will see pictorially how much electricity is used from Eversource, how much energy is produced with the photovoltaics and geo-exchange, how much energy is used and how much energy is saved. He asked the members for their input as to what else the public might be interested in seeing and that he was going to meet with the software developers in January.

4. Discussion on Portfolio Manager Updates-Gary & Tracy. Tracy said at the last meeting when Gary submitted raw electricity data from 2012 to 2018 that he should only present the weather normalized variable calculated in Portfolio Manager automatically since it removes weather variations from the data by multiplying Madison's usage by the 30 year average degree day recalculated every 10 years for a specific weather station divided by the actual degree day at that station during that time period. She illustrated a year's worth of weather normalized data by submitting three spreadsheets showing site, source and square footage information for 2013, (that included building area (sq. ft), Site Energy Use (kBtu), Weather normalized Site Electricity (kWh), Weather Normalized Site Natural Gas Use (therms), Weather Normalized Site Energy Use (kBtu), Weather Normalized Source Energy Use (kBtu), Source Energy Use (kBtu), Weather Normalized Site EUI (kBtu/ft²), Weather Normalized Source EUI (kBtu/ft²)). She said both Weather Normalized Source Energy and Weather Normalized Site Energy information is used for SustainableCT submission, and that it looks like Weather Normalized Source Energy might show the biggest gains in energy efficiency for us as we add more and more green energy to our energy portfolio for the town.

5. Update on Ground Source Heat Pumps (GSHP) in Madison. Woodie said that Facilities Director, Bill McMinn is already planning to put a geo-exchange HVAC system into Polson Middle School.

Francis Pullaro mentioned that the State Department of Energy & Environmental Protection agency should really hear from this committee about the great strides in getting results from the town-wide geo-exchange efforts, and that he would mock up a rough draft.

Woodie mentioned that at a nearby skating pond, the town apparently provides lighting from an 1,100 watt pressurized sodium bulb and that he and Bill McMinn switched it out temporarily with a 230 watt LED light, and it actually lit the pond area better.

The meeting adjourned at 6:20 p.m.

Respectfully submitted, Abigail White, Recording Secretary