

**MADISON ENERGY ADVISORY COMMITTEE  
TOWN OF MADISON  
Jul 16, 2015  
MINUTES**

**Note:** The draft of these minutes from the Jul 16, 2015 Madison Energy Advisory Committee meeting is subject to approval and execution at a subsequent Committee meeting.

**Members Present:** Noreen Downs (Vice Chairman & Planning Board), Bill Lord (Secretary & Budget Committee), Nicole Nordlund (Voter), Russ Lanoie (Voter), Bruce Kennedy (Library Rep), and Russ Dowd (Voter). Absent: Selectman John Arruda and Ray O'Brien (Chairman). The meeting was held at the Town Hall.

**Others Present:** Madison TV Videographer Tim Hughes.

**Meeting Posted:** At Madison & Silver Lake Post Offices and Town Hall upper and lower bulletin boards.

**Meeting Called to Order:** By Vice Chairman Noreen Downs at 7:00 p.m., with special wishes and thoughts from the Committee for Chairman Ray O'Brien and his family.

**APPROVAL OF MINUTES** – The minutes of the June 2015 meeting were approved; with a **motion** for approval by Kennedy, seconded by Nordlund and unanimously voted 6-0.

**PUBLIC COMMENTS** – there were no public comments.

**NEW BUSINESS:**

**FUTURE MEETING INVITATIONS** – Russ Lanoie suggested the Committee consider inviting Wayne Luoma, plumber, to future meetings to discuss boiler system questions as Mr Luoma has worked on many of the town building systems. The MWV Citizens for Energy Efficiency will be invited to the next meeting to observe and share information with the Committee. Mr Russ Hunt, Eversource, and Mr Rick DeMark, NE Wood Energy Council, are also confirmed to attend our August meeting.

**SOLAR ENERGY SYSTEM** – Mr. Kim Frase, Frase Electric, gave an extensive discussion about solar systems. While there are no Federal incentives for NH municipal solar system installations, there are NH incentives. Other funding includes grants and power purchase agreements. These agreements may have options for buyout after 20years, sometimes 7 years and often must pay 25% of the appraised value. He roughly estimated Madison may need a 100kw system. He estimated that could cost \$300K. The estimated payback is 10 years. The system could be one array or multiple arrays of up to 60kw each. Community solar arrays and group net-metering are also other alternative methods for both charging for power and collectively paying reduced energy bills. The towns of Durham, Exeter, Tamworth and Peterborough all have many buildings with installed solar arrays. Kim will look at our energy costs (\$56k/annually) and provide a better estimate.

**GEO-THERMAL ENERGY SYSTEM** – Bill Lord contacted Erin Hartley, Hartley Well Drilling from Tamworth, who does geothermal energy system installations. Mr. Hartley recommended his web site

and well as Bosch (his choice for heat exchangers) to gain greater insight into geo-thermal systems. His sense was that using geothermal for the Madison Town application was probably cost prohibitive due to the extensive building retrofits required. E.g., the geo systems don't generate enough heat for baseboard hot water applications.

**REVIEW OF TOWN HALL AUDIT FOLLOW-UP ACTIONS AND TOUR OF TOWN HALL HVAC SYSTEM** – Bill Lord got an update on the actions completed as a result of the previous energy audit on the Town Hall. No action had been taken on the recommendations provided. The committee looked at the boiler and hot water system for the Town Hall following the Committee meeting. That boiler is the original, installed in 1999.

**ITEMS TO CAPTURE FOR POSSIBLE FUTURE TOWN COMMITTEE BRIEFING** – Russ Lanoie asked if there was a section in the Madison building permits to identify renewable energy systems. Additionally, should Madison have a position regarding not increasing property values due to installations of renewable energy systems e.g., dis-incentivize residents to make energy improvements because of any potential tax assessment increase.

**REVIEW OF ACTION ITEMS:**

1. Russ Lanoie will re-contact Resilient Building Group (Dana Nute)/Jordan Institute to review the Town's previous energy audit of town buildings and make a presentation to the Committee.
2. Nicole Nordlund will get our next meeting schedule on the Tamworth town blog.
3. Noreen Downs will get our next meeting schedule to Sloan (Madison Library) for placement in the Madison Boulder blog.
4. Noreen Downs will re-send energy audit documents to Russ Lanoie for forwarding to Dana Nute.
5. Nicole Nordlund will review the Selectman's meeting minutes to see what their feedback was regarding the Eversource application.
6. Noreen Downs will provide energy consumption data, town and school kw/hr costs (minus demand and service charges) to Kim Frase for his development of a rough estimate for solar installation(s).

**ADJOURN: 8:30 p.m.** Dowd made a **motion** to adjourn, seconded by Kennedy, and so voted unanimously 6-0.

**NEXT MEETING** – The next meeting will be Thursday, August 20, 2015 at 7:00 PM at the Town Hall.

Respectfully submitted,

Bill Lord, Member  
Recording Secretary