

## Enfield Energy Committee Minutes

"To identify energy savings for the Town and energy savings opportunities for the community".

**Meeting Date: Tuesday, Mar 27, 2012 Time: 5:15 PM**

**Location: Whitney Hall, Enfield, NH**

### **I Call to order**

Attending: Bo, Larry, Richard, Alisa, Kim

### **II Approval of minutes**

- Meeting Minutes, [Feb 28, 2012](#) (still need approval - we'll get it next month)

### **III Public Comment (none)**

### **IV Old Business**

- Update on Shaker Bridge lights - LED and dark sky compliance (Selectboard mtg and Historic Commission mtg)
  - \*\* Kim went to both the selectboard meeting, the historic commission, and EVA to understand what everyone has been thinking about the new bridge lights. The selectboard had already chosen to get lights that were the same as those on Main S. I asked them to consider another fixture if I could get agreement on a light fixture (the energy committee, the historic commission, and EVA) that they would consider this alternative. They agreed.
  - \*\* The Energy Committee agreed that the light fixture should use LED bulb for energy efficiency and provide the best cutoff at 180 degrees as possible. We think this is possible with the acorn type fixture that the existing lights use.
- Energy and Water use conference
  - \*\* Kim attended a conference on energy and water supplies with a number of local town water supply representatives. Please see the summary of that meeting below.
- Update on Energy Chapter (no update at this time)
- Energy Committee's 2012 Project (no update at this meeting)
- **[Any updates on items below?]**
- Library geo-thermal analysis
- List of Enfield people with renewable energy projects
- DPW Lighting audit (National Grid)?
- [Press release](#) for Lighting grant

### **V New Business**

- Events:
  - Local Energy Solutions Conference, 3/31/12, Concord
  - Presentation of 78 Main St renovation- date to be determined
  - upper valley energy round table, 5/24/12, 5:30-8:30pm

### **VI Other Items**

- Next meeting, Tues, April 24th (5:15pm)

#### **List of Accomplishments:**

- Tracking Enfield buildings energy usage, electrical, fossil fuels, vehicles
- Google [map of streetlights](#)
- No Idling signs around town

- MEAP grant for Energy analysis and audit of Whitney Hall
  - level 1 energy audit report complete, 3/15/11
- Energy Policy audit for Enfield
- ARRA grant (\$19,000) for Veteran's park and Main St lighting upgrades
  - Installed and saving \$1800/year, 10.5 tons of CO2
- Solar Roller float for 250th anniversary
- Provided [Energy Objectives](#) to the Land Use Planning and Energy Chapter for Enfield
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## **VII Adjournment**

### **Suggestions for Energy Committee 2012 Project:**

- Town challenge for people to report their energy use and set goals (has Thetford done something like this? They recently asked for a bid for LED streetlights)
- There is a town in Long Island which is changing out lights using 1/3 town funds, and 2/3 grant money
- How can Enfield generate its own electricity? Perhaps we start with the bridge lights, which don't go through National Grid; Secondly, can we buy our electricity from a locally sourced facility (like baltic mill, maybe shaker mill building and smith pond)
- The town does own a reservoir and a dam - anything we can do with those? Can this be tied into the Energy Chapter / Land Use plan?
- Can the town create electrical charging stations - maybe at the community center
- It would be good for energy committee members to cut out articles of other town successes with energy savings as points of discussion at this meeting

### **Energy Management Roundtable (March 14, 2012, Eastman)**

Jim, Steve,

I attended this roundtable for water utilities and wanted to send out some notes. There were people there from probably 10 or more communities -- mostly people involved in their town water supplies, a couple from waste water treatment, and two of us from energy committees.

I think the most interesting part of the discussion was breaking into groups and discussing what energy efficient measures have worked for each town and then a brief summary of that to the other groups. Some of the projects we heard about included:

- \* monitoring of energy use (pumps as well as lights and heating of DPW) provides good information and can highlight when a pump is starting to go bad and/or better use of lights, more efficient products, etc. There was general agreement that you get your first big efficiency boost by monitoring energy usage on a weekly/monthly basis and look for patterns and anomalies.
- \* transportation efficiencies for reading meters -- either the vehicle(s) used for meter reading can be more efficient (electric?) or using wireless smart meters to get the readings to a central server without vehicles at all
- \* VFD (variable frequency drives) which can reduce costs by increasing the efficiency of large pumps (not always the case, though)
- \* insulation and temperature management of the pump stations themselves
- \* introduce rate or scaled water use to encourage residents to reduce their usage
- \* provide open houses and encourage town residences to visit the DPW, to understand the services and to pitch a new project (like an energy efficient project). Everyone agreed that if you need to

raise money for something related to DPW it helps a lot to get people to back it by having an open house, encourage communications, etc.

\* water leak detection -- from time to time look for leaks or have someone come in to find leaks. Gallons of water can be saved and/or billed for properly by looking for both physical leaks and bad meters.

\* we talked a bit about "peak shaving" (using a town generator during peak billing hours to reduce the total electric bill to just below peak and avoid the high costs); this is not condoned by the utilities :- ) and "demand response", which **is** a utility sponsored activity to pay a town to have its generator standing by to reduce load during times of possible overload of the grid.

In Enfield we are already monitoring the energy usage of our buildings, but we were not monitoring the energy use of the well pumps themselves. We can add that to our reports. That way we could see if anything unusual happens to the usage from year to year (or even quarter to quarter).

Regards,  
Kim