

ENFIELD ENERGY COMMITTEE MEETING MINUTES of 10/28/2008 - Approved -

MISSION STATEMENT: To identify energy savings for the town and energy savings opportunities for the community

CURRENT GOAL: Our goal is a 10% reduction in total energy consumption by the Town by the end of 2009 with incremental decreases thereafter, toward a three year goal of 25 % reduction in total energy consumption by the Town (relative to the 2007 baseline data) by the end of the fiscal year 2011.

DATE/TIME: October 28, 2008 5:00 PM

LOCATION: Whitney Hall Conference Room, 23 Main Street, Enfield New Hampshire

I. Call to Order 5:04 PM

Attendance:

Present: Steve Goldsmith, Alisa Bonnette (Administrative Staff), Charles DePuy, Rich Lammert, Carol Lammert and Bo Petersson

Absent: John Burrirt (alternate), Wendell Smith

II. Approval of 9/23/'08 Minutes

Approved.

III. Old Business

Update on energy- related projects in the area (Shaker Village Sustainability project, Library

Geothermal and ad-hoc group studying Renewable Energy options for Enfield)

Wendell submitted a report via e-mail. He is on the board of the Shaker Museum Board and the Sustainability Committee. The energy committee and the Sustainability Committee share some common interests. Rebuilding the Shaker hydro generator has been studied. Wendell has visited the Hancock museum with a hydro system that is authentic and interesting. He also walked the area of the local Shaker aqueduct and the holding pond. Further information has been received on micro hydro generators.

He is also looking at the Tannery site for use of a small generator. (A committee member suggested caution regarding former tannery sites as being potentially chemically contaminated.)

Regarding geothermal Wendell has visited a satisfied geothermal user and he has met with enthusiastic geothermal consultants.

Wendell will continue to follow the Smith Pond dam repair.

Steve added that the Museum may elect to showcase the Shaker's early use of hydro power though there is limited feasibility of it being a future power source related to the sporadic water supply. As well, there are restrictions because the water supply serves the North Shaker Village residents. Development of wind power does not seem feasible as the hill is not owned by the Museum. It was noted that the Shakers actually moved from their original location to the current

town site because of diminished hydro power. It was mentioned that the town does not have rights to the old Baltic Mill as a source of hydro power.

Charlie reported that he has been in contact with Roy Morrison, Director of the Office for Sustainability at Southern New Hampshire University in Manchester, NH. Mr. Morrison is knowledgeable regarding engineering and renewable energy (solar and wind). He is also a power broker. Mr. Morrison could speak with our committee re: Enfield's potential with our watershed (to harvest heat from the lake water and to work with a cooling system) primarily with new construction and other potential energy savings. Charlie reported that he has learned that an individual can not select a solar/wind power source for individual use. As well, there would be a cost factor to consider for the community to contract for only solar/wind generated energy

Progress report on Town Energy Audit/Baseline consumption and impact/emissions data

Alisa presented the Energy Savings Plan summary completed by Nationalgrid on 9/1/2008. The Public Works Facility is the one building where there could be an estimated annual cost savings of \$692.38 by changing the light fixtures in the work bays. This would offer an estimated annual savings of 7094.10 Kilowatt hours. Relative to the committee's baseline data from 2007 this would offer a 7.7 per cent reduction in energy use which is in line with the committee's goal of a 10 per cent reduction in the first year. There is a cost split of 70/30 per cent between Nationalgrid and the customer (town), respectively. The estimated cost for the town is \$2065.10 with an interest free payback period of 36 months per three different payment methods. An additional estimated fee to the town would be rental of a standard scissor lift used during the removal and installation of fixtures. Committee members speculated on alternate sources of lift equipment such as Anderson Hill or renting one from Home DePot. This information will be forwarded to Ken Daniels, Enfield Public Works Director in November or early December. As well, a copy of the Summary will be forwarded to Steve Schneider, Town Manager. A motion was made by Charlie that a cover letter and the Energy Savings Plan Summary be submitted to the Selectboard, contingent upon Ken Daniel's approval of lighting modifications, requesting that the Town consent to the suggestions for lighting changes and allocate the funds in order to save money and energy. The motion was seconded by Bo. The motion carried unanimously. In the discussion Bo agreed to write a cover letter including a translation of the information. He will share this with Steve Goldsmith.

The cost of transportation for the town was \$90,000 in 2007. There were a couple of questions on what is included in personal mileage. It was explained that this includes travel by the building inspector, personnel in the Department of Public Works, the Police personnel.

Update on Police Department energy usage re: use of the Kill a Watt meter and the vampire outlet strip -

Deferred

Streetlight project update/formation of a sub-committee

Appreciation was expressed for the input the committee has received from our Jaffrey and Putney contact persons.

Information was shared from Jaffrey showing the use of their tax maps for locations of street lights. Their spread-sheet showing location, type of existing lighting, etc. was reviewed. The

process that Putney has used involved a door-to-door survey of residents for their input on desired lighting.

The committee discussed its plan of action. Alisa will include the committee's interest in the streetlight project in her report to the Selectboard on the Energy Committee's activities. Committee members are to review the criteria set by Jaffrey (see Addendum # 1 of the September 2008 meeting minutes) and add/modify according to his/her insights to share at the November meeting. It was suggested that committee members do an informal survey of streetlights prior to the November meeting. When the committee has agreed upon the criteria for evaluating existing lighting a check list will be written. Then actual night drive surveys will be done. A light meter will be used. The town will be divided into areas to be surveyed and Steve will assign them to committee members to avoid repetition and provide full assessments. Streetlights will be identified which could have reduced wattage, fixtures replaced, housing replaced, those that could be removed and those that require no alteration. Steve voiced his opinion that decreased wattage and elimination of lights could reduce the energy cost of lighting for the town by 50 %. Steve advocated using geo-coding as the method for mapping locations of lights. While he has knowledge to do this he noted that it is a time intensive task.

At this time it was decided that all committee members will work on the streetlight project rather than developing a subcommittee.

Meeting our energy reduction targets

The change in lighting at the Public Works Department would potentially provide a 7.7 reduction in energy costs in the first year.

No Idling

Rich will lead this endeavor. The committee agreed that the concept of idling awareness is appropriate in accord with the committee's previous discussions. Rich will identify locations for potential signage. Carol will contact the Kathleen Brockett of New Hampshire DES to learn the current prices for various signage available through that department. A report needs to be written on the value of no idling, the state regulations and the cost of the endeavor. Initially, the effort would be directed toward vehicles on town owned property such as the transfer station and the parking lot near Whitney Hall. Expanding to posting signs at schools would be a separate entity. The committee agreed that private businesses are another aspect to consider. After a cost assessment is completed a formal presentation to the Selectboard would be necessary prior to taking action. It was agreed that education of the public is an important aspect of an idling awareness program.

Lockable/programmable thermostats in public buildings and setting temperatures and lights in public spaces

Desired temperature settings in winter of 68 degrees and of 78 degrees in summer were noted. Knowledge of a specific building's design is necessary to avoid freezing of such things as a fire sprinkling system. Programmability for time and day of week were discussed. Alisa has data on the use of the Community Building that could be used to program the thermostat. Pricing for lockable/programmable thermostats for public buildings is needed. Charlie will confer with Ken Daniels regarding the cost of equipment for public buildings. There was a suggestion that information on occupancy sensor thermostats be obtained. It was mentioned that a building such

as the Community Building has the thermostat on the upper floor though rooms on the lower level may be in use; thus, an occupancy sensor thermostat may not be appropriate for that facility. That type of thermostat may be appropriate for such rooms as the conference rooms in the DPW and Whitney Hall. Charlie referred to data from 2007 re: gallons of fuel used in public buildings. Steve will forward this data to Bo. The baseline 2007 data was presented prior to Bo joining the committee. Alisa said that an information sheet is provided for the individual when the key for the community building is obtained. It lists such things as setting the thermostat and turning off lights.

Charlie questioned the use of architectural lighting at the Fast Squad building. He noted that 8 lights turn on in the afternoon. Steve and Charlie will confer via e-mail.

Projects - Compact Fluorescent bulb distribution/sale

Bulbs could be sold at cost or donations could be taken. It was suggested that this may be a project of interest to the Scouts. Steve will contact Tate Picard, the local Boy Scout Troop Leader, to learn if they would be interested in taking on this project during the '09 Town Meeting. The need for tables at the Town Meeting was discussed.

IV. New Business

Guest speaker

Roy Morrison will be invited to meet with the committee though a date was not proposed.

Other

There will be information on the Energy Committee in the Town Calendar in May 2009. As well, the standing meeting for the committee will be listed.

V. Other

Meeting schedule

November 25 at 5 PM Whitney Hall Conference Room

The December meeting is tentatively rescheduled for December 16 pending verification of room availability.

VI. Adjournment

The meeting was adjourned at 7:00 PM.

Respectfully submitted,

Carol Lammert
Committee Secretary

11/12/ 2008; revised 11/14/ 2008