

# Town of Harvard Energy Advisory Committee

BRIAN SMITH - CHAIR  
 ERIC BROADBENT - VICE CHAIR  
 DAVID FAY  
 STEVE MATSON  
 CHRIS ROY

ASSOCIATE MEMBERS:  
 STUDENT MEMBER:  
 LIAISONS:

FORREST HODGKINS  
 SOFIA CATALINA  
 STU SKLAR, BOARD OF SELECTMEN  
 BOB SULLEBARGER, SCHOOL COMMITTEE  
 PAT WENGER, CAPITAL PLANNING  
 DON LUDWIG, FINANCE COMMITTEE

## Meeting Minutes 2/11/15

Attendees: B. Smith, E. Broadbent, S. Matson, C. Roy, S. Catalina, F. Hodgkins

Location: Old Library 8 PM

	<b>Meeting Discussion/Status</b>
Minutes; Membership	The minutes of Jan 28 2015 were approved 4-0.
Town Energy Project Updates	<ol style="list-style-type: none"> <li>1. Capital Projects for FY16 considered for GC funds: Bromfield exterior and hall lighting projects, Peregrine Monitoring and Hildreth House HVAC. Other possibilities: Library lighting, DPW lighting, Police lighting, Electric vehicle/Charging Station. Also we proposed to fund a 10% allocation for Admin. Ensure BOS confirms final project list.</li> <li>2. Hildreth House – Steve met twice with Guardian and their HVAC contractor Central Cooling and Air. They will direct vent out the side. Target cost is ~\$17k. – <b>Steve will obtain a quote from Guardian for the boiler replacement and an on-demand water heater.</b></li> <li>3. Annual Green Community report – Brian compiled the input and submitted the report Feb 7. We are able to apply for grants only after we have answered any questions about the submitted annual report.</li> <li>4. Library VSD Project – At the start of the heating system it was discovered that the settings and controls were not correct for both sets of VFDs and this claim is being reviewed with ATC (installer of the VFDs) and Honeywell (interface with BAS). – <b>No status update.</b></li> <li>5. Net Metering Agreement – HEAC will play a support role                         <ol style="list-style-type: none"> <li>a. Steve has discussed the status of the Soltas agreement with Tim Bragan. Damages are calculated based on whether another deal is available. Consider going out to the mailing list of sources from the open RFP.</li> <li>b. For the Soltas agreement, it has been verified that there are no payment made by Lorraine and the credits are net zero. 86% of the credits were for the schools which were a combination of credit and debits that were net zero. The credits and debits for the Library need to be confirmed.</li> <li>c. HEAC and the Town have been contacted or aware of three possible agreements: Borrego Solar (825k, 2% escalation); Syncarpha (provides option); Sunray Power (20% credit off NGrid but small 325k). HEAC will play a support role to Tim Bragan making a recommendation. We need to limit what we pay for credits, ensure the “floor” is acceptable and ensure that change in law provision is satisfactory.</li> <li>d. Support – Steve will ask Malcolm Carley if he is available to help and Chris can support.</li> </ol> </li> <li>6. Energy Usage Report – <b>Brian to create update for report to Town Committees. TBD</b></li> </ol>
Schools	<ol style="list-style-type: none"> <li>1. Bromfield Roof Solar PPA – Brightergy Solar – An audit is set up for Jan 28 between Mark Force, and Brightergy (Craig Dwyer in Sales and an auditor). Since the Town electric supply contract ends after the end of 2016, Brightergy will need an agreement that the contract would be modified to allow the supply from the solar panels if they were to proceed by the end of 2016 to take advantage of the federal incentives. – <b>Status – Brian to confirm if meeting took place.</b></li> <li>2. Peregrine Energy project – Analyze electrical circuit monitoring and building</li> </ol>

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	<p>management system trend logs and then make recommendations to improve energy performance. This is a one year project with approximately a 3 year payback. – <b>Brian to discuss with Mark Force to address concerns and set up meeting with Peregrine.</b></p>
<p>Bromfield School Monitoring</p>	<p>Cadmus Group monitoring of building climate using instrumentation provided by Onset Corporation:  <b>Actions</b>  <b>1. Data Download from sensors</b> – David, Steve and Sofia are reviewing data downloaded from the sensors which is primarily consistent with the survey results. They need to meet with Mark Force. Steve presented examples of the analysis of a two week snapshot of 73 sensors. More information about the operation of the system and control of each space is needed.  <b>2. Survey</b> –Sofia is sending out a Survey Monkey update to the Energy survey to the school staff, providing updates and asking for saving opportunities.</p>
<p>Misc Projects</p>	<p><b>1. Demand Response / Peak Shaving</b> – Peak shaving to reduce the peak load that the electric rate is based on. Demand response to reduce load when needed by the utility for an incentive. Chris Roy will investigate this initiative with National Grid. Determine if we should subscribe to Utility provided usage data. –<b>Status: Chris will review whether there is any way with or without National Grid that the user can cut back usage with controls or behavior to help with peak shaving or demand response. – No change</b></p> <p><b>2. Electric Vehicle Charging Station</b> – We discussed the DOER incentive program for an electric vehicle (BEV \$7500, Plug-in hybrid \$5000) and Charging Station (\$7500). Status: <b>No change</b></p> <ol style="list-style-type: none"> <li>a. The fast charging grant is not possible at this time.</li> <li>b. <b>Eric to create a survey to assess community interest.</b></li> <li>c. <b>Eric to determine if candidate for GC funds.</b></li> </ol> <p><b>3. Municipal Aggregation</b>          Steve discussed a program brought up by Tim Bragan that should be considered for electric supply. There are two forms. One is Municipal Public aggregation and the other is Market aggregation relying on the large buying power of a member pool.</p>