

Town of Harvard Energy Advisory Committee

BRIAN SMITH – CHAIR
 ERIC BROADBENT – VICE CHAIR
 JIM ELKIND
 DAVID FAY
 STEVE MATSON

ASSOCIATE MEMBERS:
 STUDENT MEMBER:
 LIAISONS:

MATT COKE
 FORREST HODGKINS
 SOFIA CATALINA
 STU SKLAR, BOARD OF SELECTMEN
 BOB SULLEBARGER, SCHOOL COMMITTEE
 KEITH CHEVERALLS, CAPITAL PLANNING
 ALAN FRAZER, FINANCE COMMITTEE

Meeting Minutes 6/25/14

Attendees: B. Smith, S. Matson, D. Fay, M. Force – Schools Facility Director (Guest)

Location: Old Library 8 PM

	Meeting Discussion/Status
Minutes; Membership	The minutes of 5/28/14 and 6/11/14 were accepted by unanimous vote 3-0. HEAC voted 3-0 to recommend to BOS the appointment of Chris Roy to voting member of HEAC.
Town Energy Project Updates	<ol style="list-style-type: none"> 1. Green Community program completion – The final walk through of all projects by DOER Kelly Brown was completed June 16. The final report is in process. 2. Green Community Projects for 2015 - Brian to contact Guardian to scope Bromfield exterior and hall lighting projects, and Hildreth HVAC weatherization. 3. Library Projects - The work for the AHU and HW Pump VFDs is complete except for a final post construction walk through scheduled for June 26. 4. Instrument Monitoring – Steve is working with Cadmus and Onset for an option to rent temperature logging to support the Peregrine effort.
Schools	<ol style="list-style-type: none"> 1. Schools Roof Solar – Mark indicated that he has a weight concern on both schools and that he does not prefer ballast systems. Mark also stated that solar panels create difficulties with snow removal. <ol style="list-style-type: none"> a. Evolution Energy / Roof Replacement – The Bromfield roof sections are expected to have more than 10 years life remaining. Therefore this option requiring funding for the costly roof replacement is not attractive. The HES roof needs replacement before the Bromfield but there are structural concerns. b. Brightergy Solar – This is a company that focuses on school roof solar PPA projects and has approached Harvard. 2. Peregrine Energy project – Peregrine is quoting this effort to install monitoring and adjust BAS settings. 3. Energy Survey – Sofia to send Mark the color coded map and results from the survey. Mark indicated that outside doors are locked at 7:45 am for security reasons and that behavior of propping open doors is an issue. Mark indicated that all year the new wing is likely overheated due to the solar gain. This area was the proposal for a solar panel awning that was not feasible due to structural support. 4. Gas usage – Mark indicated that one source of the high energy usage is defective plunger valves on univents. Also many valves are failing and the VAV Boxes circulating air require repairs. 5. Lighting – Mark will forward the project details from the HES Exterior Lighting installed last year. At Bromfield, there is an opportunity to install energy efficient exterior lighting. This includes replacement of the high pressure sodium lights. 6. Facility Manager Initiative for Town Buildings – Mark indicated that any change in responsibilities for him would be postponed a year until the Superintendent Dwight completes her first year. However, Mark indicated that there are opportunities to leverage/coordinate maintenance agreements to realize cost savings. 7. Freezing Pipes – Mark indicated that the set back to 50F is in place. The controls contractor BCM made adjustments to increase the pressure differential and flow rate to create a more even distribution on heat and prevent cold spots. This should help the pipe freezing issue. 8. HCTV – Brian to add adjustment to Green Community square footage to account for increase conditioned space.

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	9. Maintenance Agreements – There are two primary agreements: HVAC and Controls. HVAC is with ATCO \$30k/year to cover quarterly inspections, belts, filters, emergency service call. Controls is with BCM to cover quarterly inspections. Repairs are separate.
Other Items	1. Net Metering Credit Purchase Agreement – On June 17, the BOS voted to approve the initiative to sign an agreement for one million kW-hrs.