

Town of Harvard Energy Advisory Committee

BRIAN SMITH – CHAIR
ERIC BROADBENT – VICE CHAIR
DAVID FAY
CHRIS ROY
PAUL GREEN

ASSOCIATE MEMBERS:
STUDENT MEMBER:
LIAISONS:

FORREST HODGKINS
ANYA BEGUE
STU SKLAR, BOARD OF SELECTMEN
MARY TRAPHAGEN, SCHOOL COMMITTEE
SUSANMARY REDINGER, CAPITAL PLANNING
DON LUDWIG, FINANCE COMMITTEE

Meeting Minutes 1/11/17

Attendees: B. Smith, E. Broadbent, D. Fay, C. Roy, F. Hodgkins

Location: Town Hall 8 PM

	Meeting Discussion/Status
Minutes; Membership	The minutes of December 14, 2016 were approved 4-0.
Town Energy Project Updates	<ol style="list-style-type: none"> 1. Green Community Spring 2015 Grant Project Status – <ol style="list-style-type: none"> a. Peregrine Schools and Library Retrocommissioning – includes contingency repairs. <ol style="list-style-type: none"> i. Incentives and Report Recommendation: Peregrine submitted the report recommendations to NGrid and several were selected as eligible for the custom incentive program. Action: Peregrine to supply the overall list of recommended measures, identify those implemented with the controls vendor and provide a plan and energy savings for the remaining measures. — BCM provided quote (\$66,501): programming changes to BAS system (\$6279), controller replacements (\$59,012) and sensor replacement (\$1210) for scope created by Peregrine. Mark Force to provide quote for remaining repair/replacement work. Brian signed NGrid Electric and Gas incentive paperwork. NGrid inspection to be scheduled. ii. Monitoring report – draft reports submitted for the schools and library. The controls engineer is prepared to have a call to review the library recommendations with the Library HVAC contractor. David will provide the data to both parties. - Library – Report being reviewed by Pete Jackson and the library controls vendor. David investigating areas of concern. Bromfield/Hildreth – Reports being reviewed by David and send to HEAC. Peregrine and Honeywell discussion to close out report findings to be scheduled. b. Library Lighting – Partially completed. Changes are being evaluated to better match the existing recessed fixtures. Forrest to Support – Actions: <ol style="list-style-type: none"> i. Guardian – prepare closeout of accepted work, including cancellation costs. – Cancellation cost invoice is outstanding. Forrest confirmed the Library does not agree with the charge. ii. Review solution with Guardian to create new scope and use remaining DOER funds. . – Brian confirmed with DOER that a proposal needs to be sent to repurpose the funds and resolve how to cover the cancellation fees. Review outstanding projects with Guardian. iii. Guardian to also propose tube replacements that were not in the original scope if needed to use DOER funds or add to future project. - open c. DPW lighting. Replacement wall packs installed. Guardian to submit invoice for \$380 adder. - open d. Building Operator Certification – Current plan is to request the training for the DPW employee that will be responsible for the town buildings. – Eric trying to arrange a meeting to discuss with Tim B and Rich N. HEAC to provide input for review. – no plan to occur

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	<ul style="list-style-type: none"> e. Admin Fee – May consider repurpose or using for a share of an Energy Manager or pursue another town employee. – No change f. Misc projects for remaining funds – Discussion of options for quick action as follows: (1) Bromfield exterior pole light fixture - possible; Sewer Plant lighting – no quote; Library tube lights – not quick; Street lights – not quick, Fire Station Exterior Lighting – no quote, Bromfield Lighting (Theater?) – upgrade plans not known. Bromfield Lighting Controls – need research and quote, Electric Car Charging Station (Chargepoint) – not quick due to likely debate on location and payment decision Most Likely – Bromfield Weatherization; BCM Controls Programming; Brian to request updated Weatherization proposal. g. Annual Report – FY2016 Report – Eric – compile annual report with vehicle, stretch and usage. h. Quarterly Report for Q2/Q3 2016 due to DOER. – include with Repurpose request.
Town	<ul style="list-style-type: none"> 1. Bromfield Roof Solar PPA RFQ – Brightergy Solar – <ul style="list-style-type: none"> a. RFQ — The revised RFQ was sent to Lorraine and Marie on 3/2/16. –. No open items - Brian checked with Marie - pending 2. Town Procurement Strategy – Brian to sketch out the problem statement and include the rationale of how all sources including CCA support the Town's needs. No Change. 3. Net Metering Credit Purchase Agreement – Eric presented the details of the two proposals being considered. Total credits for 1.3 out of 1.7 MWhr of electric usage. <ul style="list-style-type: none"> a. Solar Design Wendell proposal – 800k kWhr, 9 cents/kwHr floor, 20 years. b. Oak Square Partners Athol – 500k kWhr, 8 cents/kwHr, 20 years – offered a 27% discount as incentive. Both deals are considered attractive and no better deals are likely to be available in the future. 4. A motion was made to recommend to the BOS to participate in both deals (Oak Square added to the Solar Design deal voted for at the Dec 2016 meeting) pending detailed contract review. HEAC voted 4-0 – Motion: “HEAC recommends that the BOS sign letters of intent to participate in both projects per the terms in the attached agreements.”
Schools	<ul style="list-style-type: none"> 1. Bromfield School Monitoring Cadmus Group monitoring of building climate using instrumentation provided by Onset Corporation. Steve collected the rest of the sensors and will work with Cadmus to analyze the data and close out the project. – pending 2. National Grid Solar/Storage/Demand Response DOE Sundial project (1MW Shirley solar array) – Eric met on 9/27 with the NGRID subcontractors to discuss the program and evaluate energy reduction opportunities and demand response qualifications. Project Prep Phase until Dec 2017; Study Phase in 2018 – next step is detailed site audit.
HES Renovation	<ul style="list-style-type: none"> 1. HES Building Committee – David Primary; Eric Secondary – Architect Selected.
Misc Projects	<ul style="list-style-type: none"> 1. HEAC Survey/Plan – Prepare a survey to solicit ideas, input and support at any level from the community. – HEAC is tasked with preparing a report of progress and recommendations to BOS regarding the HEAC charter and scope. The

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	<p>recommendations should address the charter, town energy policy, guidelines for town building renovations, energy procurement, efforts to address residential and community needs. The report out may be in two phases including a review of usage for key Town Committees. – Action by Brian to discuss with Eric.- no change</p> <p>2. CPIC Request/Capital Plan – Guardian lighting proposal for the schools received – over \$400k. The lighting needs to be re-scoped to a smaller project and a quote is needed for the HVAC repairs to identify the cost and scope.</p> <p>3. Community Choice Aggregation (CCA) Plan for BOS – Leader- Chris – Eric. It was decided that an RFP is not required or needed to select a broker. Actions:</p> <ul style="list-style-type: none"> a. Chris to determine if the Town can contract direct to MMWEC and/or ENE and not through a broker to obtain a better price. - open b. Approved at Town Meeting Oct 24. Next Actions: <ul style="list-style-type: none"> i. Step 1 - HEAC Evaluate and Select Broker by end Dec– Review Good Energy, Colonial Energy and Bay State Consultants. – See below discussion. ii. Step 2 - Obtain Agreement by BOS. iii. Step 3 – Broker/Town Develop Aggregation Plan with input from DOER by Mar 2017. iv. Step 4 – BOS approve Aggregation Plan by Apr 2017 v. Step 5 – DPU review and approve plan May-Oct 2017 <p>Eric presented the highlights of his interviews with the 3 brokers. Good Energy is a large national firm pre-vetted by MAPC but may be difficult to work with due to multiple contacts. Colonial Energy is a local, smaller company that has focused on MA towns. Bay State works with Peregrine that has one point of contact and has provided a favorable 100% renewable option at a low price to Lexington; they also have option to include local source. HEAC made a motion approved 4-0 to recommend to the BOS to proceed with Bay State and Good Energy. Brian to check with Stu Sklar about best way for BOS to review their capabilities and select a broker. Insert Motion.</p> <p>4. Commercial Design Guidelines – HEAC provided input to Planning Board subcommittee on the energy related sections. Determine when they will respond or meet to discuss.</p> <p>5. Town Web Site – To be structured and populated.</p>
Future Meetings	<p>2017 - Jan 25, Feb 8, Feb 22, Mar 8, Mar 22, Apr 12, Apr 26, May 10, May 24, Jun 14, Jun 28</p> <p>HEAC Meeting Location/Time: Volunteer Government Room, Town Hall 8 pm.</p>