Town of Harvard Energy Advisory Committee

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FORREST HODGKINS

ASSOCIATE MEMBERS: LIAISONS: RENÉ ROY TIM CLARK, BOARD OF SELECTMEN PAT WENGER, SCHOOL COMMITTEE KEITH CHEVERALLS, CAPITAL PLANNING

Meeting Minutes 6/22/11

Attendees: B. Smith, E. Broadbent, B. Blackwell, D. Fay, F. Hodgkins, R. Roy Matt Coke (Guest), Jim Elkind(Guest)

Action / Topic	Meeting Discussion/Status			
Approve the previous meeting minutes.	The minutes of the 5/25/11 and 6/8/11 meetings were approved.			
2. Solarize Program	The CEC Solar 201 workshop will be held 6/23 at Volunteers Hall. The "solar community garden" concept is being evaluated. Commitments are due by 9/30. New England Breeze was selected as the supplier for Harvard (\$5.5/Watt up to 200 people).			
Energy Retrofit Projects	1. See Attachment (1) for a list of projects, status and next steps.			
4. Other Items	 a. Still River Fire Station Lighting Upgrade – Bill contacted Prism Energy Services to perform an evaluation of this building and the smaller building not audited during the last group of lighting upgrades. – still pending b. Energy Manager – HEAC discussed the roles and duties of an Energy Manager and the types of duties that would make sense for a Town Facilities resource being considered by the Town. Some of the duties could be handles by a part time resource to support the Green Communities program and some by a part time resource focused on the use of the buildings. c. FY12 Goals – topics to address include Energy Manager duties and implementation, solar landfill plan, Building updated audits/assessments, Green Community projects, Monitoring d. Annual appointments - for Jim E and Matt C are scheduled for BOS on July 19. e. David Fay requested HEAC support for bringing in a Residential Energy Savings speaker (Blasnick) for the Town. f. David Fay reported that he has been selected by the Energy Insight software maker, Peregrine, as an Expert User. 			

Building	Project	Status Category	Status	Next Steps	HEAC Contact	Planned Complete
Funded and In Pr	ogress or Planned	<u> </u>			<u>I</u>	
Bromfield High School	Solar Panels - 5 kW system	In Process	Equipment procured. 6/8 - Inspector signoff expected 6/13. 5/11 - Final Drawings done. Drawing submitted to inspector for permit 5/16. 5/25 - School Committee approval not required for mounting change.	Obtain approval of Building inspector. Install structural roof supports. Connect to electric grid. Set up DAS and educational plan/curriculum. Arrange PR.	Bill B	Jun-11
Bromfield High School	Mechanical Upgrades - DCV, BAS Upgrade, Retrocommissioning, RTU Fan VSDs	In Process	Equipment Installed. S/25 B2Q waiting for controls contractor to provide list of items that require repair.	B2Q to provide list of repairs to equipment discovered during the retrocommissioning. Need final Ngrid signoff. Electrical issues regarding electrical protection to be evaluated.	Brian S	May-11
Bromfield High School	Mechanical Upgrades - Options - Boiler HW VSDs, Pneumatic Controls Conversion	In Process	Equipment Installed	1. Need final Ngrid signoff.	Brian S	May-11
Hildreth Elementary	Boiler HW VSDs and Digital Controls	In Process	Equipment Installed	1. Need final Ngrid signoff.	Brian S	May-11
Town Hall	Energy Monitoring	In Process	4/27 - 5/25 - Dave Woodsum reviewed the monitoring equipment and electric panel. 5/25 - Completed circuits in Town Hall make this project more difficult than expected. 6/8 - David considers Hildreth House as best building to monitor circuits. Bromfield House would be a backup.	Select building and set up circuit monitors.	David F	May-11
FY12						
Hildreth Elementary School	Mechanical Upgrades - DCV, New BAS, Retrocommissioning	Funded (\$100k) Planned	Scope defined and updated in Jan 2011 by B2Q. B2Q to contact Ngrid superiors to expedite incentive approval.	Need official confirmation of Ngrid incentives.	Brian S	Q4 2011
Police Station	HVAC / EMS Upgrade	Partially Funded (\$22k); Planning	Determining the controls and boiler replacement changes with the largest impact and lowest cost. Investigation has included a site visit, Fitchburg Heating history review, Chief interview, B2Q site visit, EED audit.	Ngrid to arrange B2Q to perform engineering audit. Compile results of investigation. Recommend mod to GC grant proposal based on B2Q proposal.	Brian S	Q4 2012
Fire Station	Replace Boiler	Funded (\$15k) Planning	Boiler quoted for budget estimate in Dec 2010 by Fitchburg Heating. 6/22 Met with Fire Chief; distribution not controlled well.	Review with new Fire Chief. Prepare short bid request and obtain 3 updated bids (one from Fitchburg Heating).	Forrest H	Q4 2011
Town Hall	Energy Study of Building Envelope	Funded \$12.5k)	Study to be integrated with design effort.	Contact Ngrid to see if work needs to be implemented first.	Eric B	Q4 2011
Bromfield High School	Gas Installation	Funded (\$30k) Planning		Ensure special natural gas rate provided by Ngrid. Review project status with Mark Force - funded in FY12.	Forrest H	Q3 2011
FY13 and Future						
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Transfer Station PV Site	Solar PV Array 250 kW min PPA		4/14 reviewed Scituate experience with Scituate DPW Director Al Bangert. Discussed landfill history with Tim Bragan. Landfill covered in early 80's prior to EPA regulations.	Determine if Solar PV can be installed on uncapped landfill without capping. Layout planning process. Determine DEP permits required.	Brian S	Q3 2012

ENERGY COMMITTEE PROJECTS 6/22/11

Not Active				
Town Hall & Fire	Insulation			Q4 2011
Station				
Town Hall	HVAC System Replacement/ Insulation	Assume 20% savings on baseline energy for heat		Q3 2013
Town Hall & Fire	Heating Controls - TH Heat Zones;			Q3 2011
Station	FS Door Timer & Thermostats			
Public Library	Recommission EMS			Q1 2013
Public Library	Volunteer Hall Fan VSD, heating system outdoor reset control			
Hildreth Elementary School	Secondary Boiler(not burner)	Pursuit of MSBA and GC funds cancelled Mar 2011	Eric B	FY12
Hildreth Elementary School	K Wing Windows	Pursuit of MSBA and GC funds cancelled Mar 2011	Eric B	FY14
Bromfield High School	Secondary Boiler			
Fire Station	Remaining Projects from EED Audit			
Bromfield High School	Solar PV Array Roof PPA			
Bromfield High School	Solar Thermal for Kitchen			
Hildreth House	HVAC System Replacement/ Insulation			Q3 2013
Hildreth House	Energy Audit			
Old Library	HVAC System Replacement/ Insulation			Q3 2013
Town Highway Building	Remaining Projects from EED Audit			FY13
Bromfield House	Energy Audit			
Pond Pump	3 Phase Power?			
Town Buildings	Energy Monitoring System	Integrate with Schools BAS interface		