

**Sudbury, MA, Energy and Sustainability Committee
Meeting Minutes December 8, 2016**

OPENING:

The December 8th, 2016 meeting of Sudbury’s *Energy and Sustainability Committee* was opened by Chairman Bill Braun at 7:10 pm at the DPW Building conference room.

ATTENDANCE:

Committee Members	Attending
Rami Alwan	
William Braun – Chairman, Energy and Sustainability Committee	X
Jim Cummings	
Edward Lewis	X
Joe Martino	X
Robert Morrison	X
Kurt Reiss	X
Mark Sevier	X
Facilities Director, Town of Sudbury	
James Kelly	X
Guests	

AGENDA:

1. Municipal Aggregation
2. Green Community Grant Project Candidates
 - a. LSRHS lights
 - b. Electric vehicle
 - c. Goodnow Library EMS
 - d. Rooftop HVAC unit
 - e. PV – roof or land
3. Solarize Initiative
4. New Member
5. Approval of meeting minutes
6. Other business?

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1) Municipal Aggregation Agreement

Sudbury, along with Arlington and Somerville participated in the Metropolitan Area Planning Council (MAPC) collective competitive procurement for purchasing residential electrical power under an aggregation plan.

After an exhaustive evaluation, following all applicable state procurement guidelines, the MAPC committee chose Good Energy as the Aggregation Consultant as they were the most advantageous bidder in terms of technical quality and competence, experience and pricing.

At Town Meeting Sudbury residents approved going forward to offer the aggregation plan for electrical supply to the town households and small businesses.

Significant background work has been done by Good Energy and the MAPC Committee members (Rami is the Sudbury representative) to facilitate aggregation.

A Department of Public Utilities (Mass DPU) hearing was held where Mass State approval for Sudbury, Arlington, Somerville and Winchester's residential aggregation programs was requested. No one spoke in opposition and approval is expected soon.

Once approval is granted, Good Energy, Rami and the Energy Committee will develop materials for the request for bid from electrical suppliers. Good Energy has suggested releasing the Request for Bids in spring for the most advantageous overall pricing and terms.

A brochure has been drafted providing an overview of the program, the Committee reviewed and approved.

A suggestion has been made to have a sub-committee of the Energy Committee, along with the Town, evaluate the bids to determine the most advantageous overall proposal.

The Committee's general recommendation is to offer a two tiered approach, the first or base offering would include more Green Power than is currently included in Eversource supply. This would include more additionality (inclusion of Class 1 RECs (renewable energy generated in Massachusetts)) along with a competitive price. The second tier would offer power with an even Greener component (i.e. a larger percentage of power sourced from Green renewable energy.) This would give Sudbury residents the option of a base power contract which would be greener than current Eversource supply and they would have the option to go even greener for a slight cost increase. Either of these options would decrease Sudbury's carbon footprint.

The Municipal Aggregation program is optional; residents can opt out at any point penalty free.

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1) Green Community Grant Project Candidates:

Significant discussion revolved around potential projects for next year's Green Community competitive grants. Following are proposals discussed in rough order of preference / priority. Each potential project will need to be fleshed out in future meetings.

Each year the DOER emphasizes certain green alternatives, it has been suggested that next year will focus on LED lighting upgrades and procurement of electric powered vehicles.

- a. Electric Vehicle - requesting a grant for procurement of an electric vehicle (EV) received unanimous support from the Committee. Jim has reviewed with Town employees and there is support for use in the Inspections department, and their travel profile meshes well with the capabilities of existing EV's.

The Committee reviewed EV offerings on the State bid list. The State bid list includes vehicles, vendors and negotiated pricing pre-approved by the State for purchase by municipalities. The Ford Focus and Nissan Leaf were discussed as potentials for a purely electric vehicle, other options include plug-in hybrids.

Additionally, the current State incentives were reviewed to ensure an EV could be procured at the lowest cost, a brief overview of State incentives follows:

The Massachusetts Electric Vehicle Incentive Program (MassEVIP) helps municipalities acquire new Plug-In Hybrid Electric Vehicles (PHEV), new Battery Electric Vehicles (BEV), new Zero Emission Motorcycles (ZEM), and Level 2 dual-head charging stations, by offsetting the higher initial cost of these advanced technologies. The Massachusetts Department of Environmental Protection will provide the following incentives to awarded entities:

Current State incentives:

Vehicle	Incentive
Plug-In Hybrid Electric Vehicles (PHEV)	\$5,000
Battery Electric Vehicles (BEV)	\$7,500
Level 2 dual-head charging stations	\$7,500-\$13,500
Zero Emission Motorcycles (ZEM)	\$750

The proposal for an EV and charging station will be fleshed out in upcoming meetings.

- b. LED lighting upgrades – several projects were discussed:

LSRHS interior lighting upgrade. The committee reviewed a proposal by Guardian Energy Management Solutions to replace existing incandescent fixtures

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in the High School Auditorium with highly efficient and long lived LED fixtures. The goals of the proposal, to replace inefficient and very challenging to maintain lights with state-of-the art LED fixturing are fully supported by the Committee, however, the proposal did not provide sufficient detail to fully review.

ACTION: Jim K. will request details for review at the next meeting.

Curtis has been evaluating an LED upgrade of existing pendent lighting in the Library. This would allow for more efficient and effective overall lighting.

ACTION: Jim K. to investigate getting lighting audits done (provided by Utility contractors at no cost to the Town) of the school facilities to determine other potential high gain LED retrofit projects.

- c. Goodnow Library EMS - update library Energy and Lighting Management Systems to provide optimized control of the lighting and the environment. Consider adding controls to upgrade the existing VAV boxes to DDC.
- d. Update Curtis School rooftop HVAC unit to energy efficient unit, investigate upgraded controls.

ACTION: Jim K. to get details on existing unit

- e. School kitchen equipment – some of the school kitchen equipment is outdated and may have potential for energy savings thru updated refrigeration controls and / or variable frequency drive exhaust hoods.
- f. Infra-red heat in the DPW garage. The exiting unit heaters do not have controls and operate inefficiently. Replacement / supplement of these with infra-red (IR) heaters could reduce energy costs and improve environmental conditions.
- g. Consider energy efficiency upgrades for the Town Hall – need to coordinate with the Town Hall upgrade committee. Challenges include the historical designation of the Town Hall, and the timeframe may not mesh with the Green Community grants. However, the Energy Committee would be pleased to help with energy efficiency aspects of any upgrades / modifications to the Town Hall.
- h. The Hosmer house has an aging oil burning boiler plant – investigate potential replacement of this with a highly efficient gas fired condensing boiler.

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- 2) Solarize 2017 - The Mass Clean Energy Center has partnered with the Department of Energy Resources to offer another round of Solarize MA for 2017. Previous programs have been very successful with over 2,700 Mass residences installing over 17 megawatts of capacity in 51 communities. Sudbury successfully participated in a previous Solarize program and the Committee voted unanimously to participate in this program.

Bob M. has volunteered to help lead this effort and will review with Rami who lead the previous program with Bob's help.

An interesting option with the Solarize 2017 program is the potential to add in another energy efficient offering in addition to the PV solar offerings. These include air source heat pumps, solar thermal and EV's.

The Committee believes the three town consortium approach followed last time was very effective and recommends we investigate partnering with surrounding towns for this iteration, also it is believed that an additional offering would be beneficial for town residents and there is a slight preference to include air source heat pumps.

3) **New Member**

A couple residents have expressed interest in joining / participating with the Energy Committee. Bill B. will provide any background they have provided to the committee and invite them to future meetings.

7) **Approval of Meeting Minutes:**

Minutes from the November 3, 2016 meeting were approved.

8) **Other Business?**

Mark to run an evaluation of the DPW for solar array potential.

Ed requested an agenda item be included for the February meeting:

- Review MEI data on individual Town facilities to monitor effectiveness of previous energy conservation work.

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Scheduled Energy Committee Meetings: (DPW Building conference room– 6:30 p.m.)

The public is welcome at all meetings. Please note the time change.

January 18th at 6:30 pm

February 15th at 6:30 pm

March 15th at 6:30pm

Adjournment: The Energy Committee meeting was adjourned at 9:10pm.

Minutes submitted by: Edward Lewis, December 15, 2016