

**Sudbury, MA, Energy and Sustainability Committee
Meeting Minutes January 18, 2017**

OPENING:

The January 18th, 2017 meeting of Sudbury’s *Energy and Sustainability Committee* was opened by Chairman Bill Braun at 6:30 pm at the DPW Building conference room.

ATTENDANCE:

Committee Members	Attending
Rami Alwan	X
William Braun – Chairman, Energy and Sustainability Committee	X
Jim Cummings	
Edward Lewis	X
Joe Martino	X
Robert Morrison	X
Kurt Reiss	
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. Noyes envelope improvements
3. PV – DPW
4. Solarize Initiative
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. The DPU has requested some follow-up, this is in process.

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 2017 Green Community competitive grants. Following are projects the Committee has preliminarily decided to include in this years' grant proposal.

It was discussed and decided by the Committee to include funds from the Solar Revolving fund (that have been designated for Town Energy Efficiency projects) on each project submitted in the grant. Inclusion of some Town funding on submitted projects is suggest by the DOER, and casts the projects in a favorable light in terms of obtaining State funding for them. With the State funding, the Town's contribution and the Utility incentives, Sudbury would be able to increase the number of projects undertaken, increasing the energy savings and further reducing our green house gas emissions.

Ed L. will lead the effort to assemble and submit the Green Community Grant assisted by the committee.

a. LED lighting upgrades.

Jim K. worked with Guardian Energy to get multiple proposals for interior LED lighting upgrades. LED lighting projects save significant energy and maintenance costs along with providing better lighting. The Committee voted unanimously to include all the following projects in our Green Communities Grant request.

LSRHS - replace incandescent fixtures in the High School Auditorium and room A216.

Haynes – replace gymnasium lights.

Loring - replace gymnasium lights.

Curtis - replace gymnasium and Library lights.

Goodnow – replace interior building lights.

Fire Department – replace apparatus bay lights.

Noyes - replace gymnasium lights.

- 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

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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

- b. Goodnow Library EMS - A proposal has been received outlining a significant upgrade of the control systems at the Library. This includes upgrading the Energy and Lighting Management Systems to provide optimized control of the lighting and the environment, and adding controls to upgrade the existing VAV boxes to DDC. This upgrade would save energy and provide better distribution of the heating and cooling within the Library.

ACTION: Bob M. to evaluate the proposal, review the Library systems and develop savings calculations / narrative for submission for a Green Community Grant.

- c. Noyes envelope improvements – a company has developed insulation improvements that may be of energy saving value for Sudbury.

Jim K to get proposals for evaluation

- d. Refrigeration improvements – both Curtis and Noyes have older walk-in refrigeration units. There are new controls / fan motors available that can lead to significant energy savings. Jim K. has received a proposal to make these improvements.

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2) PV – DPW

The Committee is investigating installing a Solar PV array on the DPW building roof to increase Sudbury's renewable energy generation. Preliminary evaluation by Solect Energy shows the site has potential with no fatal flaws yet determined. They have provided proposals for the Town to either lease, purchase or implement a PPA solar array installation.

Mark S. is taking the lead on evaluation of these proposals.

3) 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.

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 recommended 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.

Bob M. will lead this effort for Sudbury, with Rami as back-up. They attended a meeting with Wayland and Lincoln expressing Sudbury's interest in partnering with the other towns for this effort. There is agreement in principal and a joint application is being worked on. Wayland is looking at some other programs in addition to Solarize that may or may not be applicable for Sudbury.

7) **Approval of Meeting Minutes:**

Minutes from the December 8th, 2016 meeting were approved.

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8) Other Business?

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

- Review overall Green Communities Report and MEI data on individual Town facilities to monitor effectiveness of previous energy conservation work.

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

The public is welcome at all meetings. Please note the time change for all meetings and date change for the February meeting.

February 1th at 6:30 pm

March 15th at 6:30pm

April 19th at 6:30pm (April vacation – consider rescheduling)

Adjournment: The Energy Committee meeting was adjourned at 8:32 pm.

Minutes submitted by: Edward Lewis, January 26, 2017