



TEC
TOWNSEND ENERGY COMMITTEE
272 Main Street
Townsend, Massachusetts, MA 01469

Michael Brown, Ph.D., Susan Dejniak, PMP,
Ed Hermann

Green Community Grant Progress and Financial Quarterly Report

Green Communities Grant Effective Date: December 13, 2012

Reporting Period: April 1, 2014 – June 30, 2014

Brief Project Summary:

- 1. Installation of idle reduction devices on two police vehicles. 50% completed.**
The Energy Committee discussed with the Police Chief and Deputy Chief and determined that the officers are not idling enough to make the installation of the additional device worth it.
- 2. Energy Audits at Town Hall and the Police Station. 100% completed**
The Energy Audits for the Police Station and Town Hall are complete.
- 3. Implementation of approved energy conservation measures identified by the audits.**

POLICE STATION: 95% Complete.

ECM #1, pg. 20 – Install Programmable Thermostats: Complete.

ECM #2, pg. 21 – Hot Water Supply Temperature Reset: Complete.

ECM #3, pg. 22 – Replace Condensing Boilers: Complete.

ECM# 4, pg. 23 – Install Lighting Occupancy Sensors: Complete.

ECM #5, pg. 24 – Super T-8 Lighting Upgrade: Complete.

ECM #6, pg. 25 – Prevent Elevator Motor Cycling: Decision yet to be made on implementing this ECM.

Additional Recommendations – pgs. 26-27

#1 - Occupied Standby Mode: Complete.

#2 - LED Exterior Lighting: Complete.

#3 - Implement Boiler Lockout based on Outdoor Temperature: Complete.

#4 – Replace electric unit heater with gas heater in generator room: it has been decided that this item would not be cost effective.

#5 – Implement automatic timer for exterior lighting: Complete.

#6 – Widen occupied temperature range: Complete.

#7 – Use electronically commutated motors in indoor fan coil units: This will be considered at the time these units need to be replaced as recommended.

MEMORIAL HALL: 25% complete

Due to the faulty gas meter at Memorial Hall discovered by Unitil, Guardian Energy will be reevaluating the Audit Report to see if any of the numbers in their recommended ECMs will change.

ECM #1, pg. 17 – Replace three boilers with condensing boilers: the Energy Committee voted not to complete this item as the payback (287 years) is too great. This will be reevaluated by Guardian (see comment above).

ECM #2, pg. 17 – Program existing boilers for outdoor air reset control: Complete.

ECM #3, pg. 17 – Upgrade HVAC controls: Complete.

ECM #4, pg. 18 – Insulate hot water piping in boiler and mechanical rooms: Guardian to reevaluate numbers.

ECM #5, pg. 18 – Repair combustion dampers in the boiler room: Guardian to reevaluate numbers.

ECM #6, pg. 18 – Install smart strip outlets for office equipment: After the IT Manager evaluated the smart strip outlets, they appear to not have a huge benefit at this time.

ECM #7, pg. 18 – Weatherization improvements: Guardian to reevaluate numbers.

ECM #8, pg. 18 – Lighting Upgrades: Complete. Invoice received and paid this quarter. (see attached)

4. Unitil Small Business Retrofit Program I: Complete.

Indoors and outdoors at four Fire Department buildings, the Water Department offices, the Police Station and the Highway Garage.

5. Replacement of Employee Refrigerator: Complete.

6. **Replacement of 50HP & 60HP motors and adding variable frequency drives to control each motor at the Main Street Water Pumping Station:** Project complete and invoice paid. (see attached).
7. **Installation of 30HP variable frequency drive at the Cross Street Water Pumping Station:** Project complete and invoice paid. (see attached)
8. **Administrative Support.**
Land Use Coordinator Karen Chapman has expended \$466.90 from the grant monies for this period in support of the Energy Committee and the Green Communities Grant.

Project Budget:

BALANCE:	April 1, 2014	\$ 53,391.83	balance
Payment - Unutil	April 7, 2014	<u>\$ -9,390.00</u>	
Lighting retrofit Memorial Hall		\$ 44,001.83	balance
Payment - Guardian Energy	June 23, 2014	<u>\$ -44,993.65</u>	
VFDs & motor replacement water pumping stations		\$ -991.82	balance
Payroll distribution	various dates April-June	<u>\$ -507.50</u>	
		\$ -1,499.32	balance

Name and Title of Person Submitting Quarterly Report:

Karen Chapman, Land Use Coordinator

Date: July 7, 2014