



# Hollis Energy Committee 2011 Annual Report

The Hollis Energy Committee (HEC) has now completed its second year and continues to make significant strides towards implementing a number of energy efficiency projects. As reported in HEC 2010 Annual Report, HEC competed and won five projects worth nearly \$250,000 in grants in March 2010. All projects have been implemented without any tax burden for Hollis residents.

1. Three deep lighting upgrade projects for all Hollis town and school buildings located in Hollis
2. Two investment grade audit projects on all major buildings located in Hollis (municipal and school districts)

The HEC's initial focus continues to search for energy efficiency improvements to reduce the energy load, resulting in taxpayer savings. By reducing our energy requirements in this first phase, sustainable energy practices can be implemented more cost-effectively in the future.

## Lighting Upgrade Project

The comprehensive lighting upgrade was performed on all municipal and school buildings located in Hollis. LightTec from Merrimack, NH was selected to perform the work and completed the work in May, 2011. Assuming the same lighting usage as the previous two-year average, the projected savings are shown in the following table:

Hollis Entity	Current Lighting Usage (kWh/Yr)	Lighting Savings (kWh/Yr)	Estimated Annual Savings
Town of Hollis	150,575	-49,566	\$6,691
Hollis School District	312,091	-156,320	\$20,061
Hollis-Brookline Coop School District	535,474	-200,662	\$25,083
<b>Hollis Building Totals</b>	<b>998,140</b>	<b>-406,548</b>	<b>\$51,836</b>

The entire program was implemented with no local tax impact by leveraging grants, rebates, and interest-free PSNH Smart Start funds which are repaid purely from the energy savings. Hollis Town buildings did not have to exercise the Smart Start program and will see immediate savings. The school buildings required Smart Start funds based on their size and the cost of the projects and will see savings start between 3 and 45 months depending on the building.

A total of 4596 fixtures were changed as well as 502 occupancy sensors and one time clock were added; approximately 85% of all fixtures have been upgraded to energy-efficient versions. Since some of the lighting fixtures were already failing and required replacing, the timing of this retrofit program helped save the Town of Hollis and School districts the inevitable costs. All removed material was properly recycled. The full final report is available on the HEC website.

## Investment Grade Building Audit Project

The other two project grants awarded in March 2010 allowed Hollis to perform detailed energy investment grade audits on seven Town buildings and all five school buildings located in Hollis. After a formal RFP



and evaluation process, Acadia Engineers and Constructors (AEC) from Durham, NH was selected. As of January 2012, the audit process was still under way and is expected to be completed in March 2012. These audits are completely funded by the grant with no local tax impact to Hollis residents.

The audits will be done in accordance with the ASHRAE Level II standards. A detailed site review will be performed to analyze all mechanical systems, building envelope and ventilation systems. Thermal imaging will be performed to identify areas of heat loss, water infiltration and electrical overloads. Computer simulation models will be developed in order to evaluate potential energy efficiency measures. The final detailed reports will allow the various entities to proactively plan for future improvement. All final reports will be available at the Town Hall and will be provided to all entities accordingly.

### Electricity Power Purchase Agreement

An exciting development last year was the signing of a power purchase agreement. The HEC worked with the Nashua Regional Planning Commission (NRPC) to develop a program to reduce electrical costs. A detailed RFP process was implemented with assistance from the state energy office. Bid responses were received from 10 companies, with Hess Energy selected by the entire NRPC team. The January 2012 energy generation rate from PSNH was 8.39¢/kWh and the new rate from Hess is 5.75¢/kWh for nearly all buildings in Hollis, resulting in a reduction of approximately 2.3¢/kWh. The resulting estimated savings are \$9,258 per year for the Town and \$71,183 per year for the SAU41. Across the entire NRPC, the savings total approximately \$425,000 per year. The NRPC was highly instrumental in the success of this effort. This effort demonstrates the power of collective partnerships which we hope to expand in the future to sustainable energy generation projects.

### Energy Efficiency Education and Outreach

The HEC, in collaboration with its Outreach Subcommittee, has conducted three seminars on Home Energy Efficiency, Solar Hot Water, and Solar Photovoltaic Electricity topics presented by Nashua Energy Options. Hollis was also selected to host one of the Button-Up New Hampshire seminars to talk about simple steps to save energy in our home. All seminars were open to all the residents of Hollis and our neighbors. To learn more about NH energy efficiency programs, visit the My Energy Plan website ([www.myenergyplan.net](http://www.myenergyplan.net)).

The HEC meets the first Monday of each month at 12pm in the Town Hall Community Room (excluding holidays). Active participation is welcome by anyone in our community interested in the HEC's mission and goals. The future plans are exciting to continue the HEC's mission: "*Promoting energy conservation and sustainable energy generation for Hollis*".

Respectfully submitted,  
Christian Heiter,  
Chair, Hollis Energy Committee

#### Hollis Energy Committee

Brooke Arthur  
Jeff Babel  
Troy Brown  
Karen Cramton  
Christian Heiter



Venu Rao

*Promoting energy conservation and sustainable energy generation for Hollis*

**HEC Outreach Subcommittee**

Mary Brown

Beth Kosis

Deanne Martin

Jennifer MacLeod

Michelle Repp

Maryanne Shanley