

# TEMPLE'S MUNICIPAL ENERGY EFFICIENCY RETROFIT AND ENERGY REDUCTION PROGRAM OVERVIEW

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The report is in from the completion of our retrofit, and the **numbers are stunning!** The Municipal Building is 88% tighter; the library is “vastly improved.” And the projected energy savings for heating the Municipal/FD complex is a whopping 75%-85%!

This report from the architect's analysis of the final test results and other field data for the project came through in February. In May, we will celebrate by conducting tours of the buildings, a slide show of highlights from the process of the work, yummy treats, and a celebratory toast to the project's success.

Thanks to the \$332,000 award Temple received from the Greenhouse Gas Emissions Reduction Fund of the NH RGGI program, we will be reaping the benefits of this project long into the future.

It was awarded to Temple, not only to fund the comprehensive energy efficiency retrofit for the three municipal buildings previously identified as problem energy “leakers”, but also to implement additional energy reduction programs for the town. The Temple Energy Committee has followed through with manifesting each of those commitments. They include:

1. Working with the town's Planning Board and Zoning Boards to adopt various energy related updates as well as creating an Energy Chapter to be adopted into Temple's Master Plan, which was accomplished May 5, 2010.
2. Continuing our Free Home Weatherization Program for residents who qualify for fuel assistance, with additional support from the Congregational Church of Temple.
3. Creating a Recycling Club for the Temple Elementary School
4. Educational outreach into the residential community-- offering free weatherization workshops as well as providing information on home weatherization and energy saving tips at events, such as the Harvest Festival, and through our website, [www.teec.info](http://www.teec.info).
5. Conducting an “Energy Challenge” program for our residents, now underway, to encourage the reduction of household energy usage and costs.

Of course, the principal component of our grant commitments was the retrofit. In a nutshell, it included the following:

- Deep, extensive air sealing throughout the buildings
- Sub grade insulation around the foundation of the Municipal Building
- Installation of double layers of rigid insulation surrounding the entire FD/Municipal Building complex
- Installation of an R40 insulated roof over the Municipal Building
- Extensive moisture mitigation and the sealing off of all openings in the two crawl spaces under the library
- Closure of the flue and the removal of the gas pilot light and piping in the library fireplace
- Repair and sealing of all heating ducts in the library
- 15" of blown in cellulose in the attics of the library and Fire Department garage
- New thermal windows, insulated and air sealed, in the library and Municipal Building
- New thermal overhead garage doors, well air sealed, for the Fire Department garage
- Replacement of the old, inefficient heating systems in the Municipal Building and library with high efficiency condensing propane systems
- Installation of a high efficiency mini split AC system for the town offices and FD meeting room
- Replacements of various inefficient lighting fixtures with LED lights at the Municipal Building and library

As a result of this comprehensive retrofit, along with the other components of the energy reduction program, ***Temple will be reducing air pollution, saving an extraordinary amount of energy and lowering its tax burden for years to come.***