

Final Report: Walpole Building Retrofits
Greenhouse Gas Emissions Reduction Fund
Andrew Dey, for the TriVillage Energy Committee
September 30, 2010

- 1. Program Title:** Weatherizing and Insulating Two Walpole Town Buildings
- 2. Program Type:** Weatherization of New Hampshire commercial building stock
- 3. Summary of Work Completed** from 1Aug10 through 30Sep10:

Task 1. Initial Project Planning

Percentage complete: 100%

The initial project planning work was completed prior to this period.

Task 2: Retrofit the Walpole Town Hall

Percentage complete: 100%

(This task was 95% complete at the last reporting period)

Tasks Completed:

- Installed finishes (sheetrock, trim, paint) at the wall of the basement conference room that was insulated
- Patched and painted walls that had holes drilled for blowing dense-pack cellulose insulation
- Had the stage area on the second floor of the town hall professionally cleaned of cellulose dust from the insulating (this task was not originally included in the scope of work)
- Installed weatherstripping on exterior doors
- Installed ventilation (as required by code) for the upgraded boiler room

Task 3: Retrofit the North Walpole Municipal Building

Percentage complete: 100%

(This task was 98% complete at the last reporting period)

Tasks Completed:

- Targeted air sealing of penetrations through the thermal enclosure

- Various punch list tasks, including final clean-up, removal of the dumpster, and installation of signage

Task 4: Site visits to Monitor Progress

The project manager, Andrew Dey, has been a consistent presence on site to monitor and document the work, and to help address issues as they have arisen. The work has proceeded reasonably smoothly.

Task 5: Build Community Awareness

Updates about the progress of these energy upgrades are part of each monthly meeting of the TriVillage Energy Committee, and the minutes from these meetings are posted in several places in town.

An article about the energy upgrade work appeared in the 8Oct10 edition of the Eagle Times newspaper.

On 11Oct10, Andrew Dey gave a presentation for townspeople to describe the work that was done, the projected savings in money, fuel and CO2 emissions, and the applicability of these strategies to peoples' houses.

4. Summary of Overall Project Completed

Walpole's Historic Town Hall

- Refurbished original arched-top windows for greater energy efficiency
- Air-sealed and insulated the roof, walls, and rim joists of the building
- Insulated and provided ventilation for the basement conference room
- Sealed and insulated the ducts that distribute heat throughout the building
- Re-engineered the piping and controls on the existing boilers to greatly increase their efficiency
- Weatherstripped exterior doors

North Walpole Municipal Building

- Insulated the roof
- Installed rigid insulation and new siding on the exterior of the building
- Completed targeted air sealing of the thermal by-passes in the building enclosure

5. Jobs Created

A considerable amount of work has been funded by this grant. The spreadsheets accompanying the invoices describe the hours of work for the various completed tasks.

6. Obstacles Encountered and Milestones Not Reached

Most of the obstacles encountered have been described in previous reports.

During the final weeks of the project, a water leak was discovered into the basement conference room that had been insulated. This leak had to be fixed before sheetrock could be installed over the foam insulation.

We were able to do targeted air sealing at the North Walpole building, but we did not have enough funds to seal and ventilate the hose drying tower as we had originally planned.

7. Beyond the Contract

[As previously reported]

Inspired in part by the success of the RGGI-funded energy reduction retrofits, the TriVillage Energy Committee received EECBG funds to conduct energy audits of the three schools in town. The energy audit procurement process is being led by Andrew Dey, and it is now underway.

8. Brochures, Announcements, etc.

Project manager Andrew Dey created and presented a slide show about the project for townspeople in Walpole. A flyer announcing this talk was emailed to the PUC. The article about this project that appeared in the Eagle Times newspaper is included as part of this submittal.

9. Budget vs. Actual Expenditures

The final expense report, including budgeted vs actual expenditures, is being submitted with this report.