

**GREENHOUSE GAS EMISSIONS REDUCTION FUND  
Quarter 4 2010 Progress Report**

**1. Program Title:**

New England College- Science Building

**2. Program Type**

- Energy efficiency related industrial process and control system (Item # 5).
- Programs to improve the electric and thermal energy efficiency of new and existing commercial buildings (Item # 8).

**3. Summary of work completed during the reporting period April 1<sup>st</sup> through June 30, 2010**

**Task 1:** *Install a 1,000,000 Btu/hr boiler at the Science building at New England College.* The boiler building has been delivered to the site. 95% of the electrical, plumbing and mechanical connections to the boiler and to the science building have been completed.



- The silo has been delivered, assembled on site and the pellet feed auger has been installed.



- **Percentage of completion Task #1: 95%**

**Task 2:** *Set up a web portal through collaboration with New England College that will provide interested parties with pertinent energy data regarding this project.*

- Not much has been done on the web portal at this time.

Percentage of completion: 5%

**4. Summary of work to be completed during the reporting period October 1, 2010 through December 31, 2010**

**Task 1:** *Install a 1,000,000 Btu/hr boiler at the Science building at New England College.*

- Finalize all the connections in the boiler room and building
- Install the chimney breaching
- Fill the silo with pellets
- Start-up and commissioning of the boiler.
- 

**Task 2:** *Set up a web portal through collaboration with New England College that will provide interested parties with pertinent energy data regarding this project.*

- The Propell Energy and New England College web portal will go Live and documentation of the beginning phases of the project.

**5. Work scope, schedule, responsibility (major milestones)**

- Order boiler and major components (week 1, Propell Engineering/ Purchasing) **Completed**
- Release enclosure to in-house production (week 6 Propell Engineering, Fabricating) **Completed**
- Foundation for silo and boiler enclosure (week 12, Propell Project Management, Concrete vendor) **Completed**
- Receive boiler and major components (week 12, Propell Fabricating) **Completed**
- Complete in-house boiler integration (week 15, Propell Engineering & Fabricating, Plumbing & Electrical subs.) **Completed**
- Deliver boiler system to site (middle of August, Propell Project Management, Rigging sub.) **Completed**
- Interconnect to building systems, start-up (August/September, Propell Project Management, Plumbing & Electrical subs Granite State Plumbing and Heating., New England College) **90% complete**
- Commissioning and training (September/October Propell Project Management, New England College) **5% complete**

**6. Jobs Created**

This project created the equivalent of four jobs for a period of four weeks through site preparation work, foundation work, building construction, plumbing, electrical work, and mechanical assembly, all in the state of New Hampshire.

**7. Obstacles Encountered**

Longer than expected lead-times for some components resulting in delays.



**8. Beyond the Contract**

As part of Task 2, Propell Energy will collaborate with New England College to create a web portal documenting the pellet boiler project. We are excited to work with the students at New England College to design and maintain this Website, and we hope that it will encourage other area schools and colleges to seek alternative energy heating systems and improve their energy efficient processes on campus.

New England College will allow access (at NEC's discretion) to pre-scheduled visitors interested in seeing the pellet boiler in operation.

Also as a result of this funding, Propell Energy is working in partnership with Granite State Plumbing on additional projects.

**9. Promotional Materials**

Not applicable at this time.

**10. Budget vs. Actual Expenditures**

Please see attached worksheet.