



CLEAN ENERGY REVOLVING FUND

180-182 Vernon Ave - Insulation

Project Overview

1668 Princeton is an on-campus housing option and typically has 6-8 student residents. The attic and walls were filled with blown-cellulose insulation. After this a contractor went around the house with a caulk gun and sealed cracks where air could infiltrate and/or heat could escape.

Project Goals

The hope was to reduce the amount of gas required to heat the house. We also hoped to make the house more comfortable for the students living there.

Pre-Project Considerations

The building has plaster interior walls, which do not tolerate being drilled into very well. For this reason we decided to pull off part of the siding on the outside drill holes into the walls that way. The cellulose insulation is essentially shredded newspaper treated with a fire retardant, which meets both our energy and material reuse goals.

The Project Process

Student Justin Lee had contractors place insulation bids on three of the Language Houses on campus, and then performed energy audits to determine how much energy could realistically be saved. Three separate proposals were created, and 180-182 Vernon was then chosen to receive funding to proceed.

Lessons Learned

- The blown cellulose insulation does help seal air leaks, however it was determined cost effective to do hire another contractor to do more later..

<p>Project Snapshot</p> <p><i>Economics:</i> Total Project Cost: \$7,375 Annual Cost Savings: \$1,015 Payback: 7.3 Years</p> <p><i>Environment:</i> Annual Savings: 967 therms 4520 kg CO₂</p> <p><i>Equity:</i> More comfortable living space</p>	<p>Project Contact Mike Hall – Building Maintenance Manager (651) 696-6754 hall@macalester.edu</p> <p>Project Participants Justin Lee - student</p>
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