



CLEAN ENERGY REVOLVING FUND

Vegetarian Coop – Freezer Replacement

Project Overview

The Vegetarian Coop has a large communal kitchen for the 20 residents to use. One of the freezers had begun to leak refrigerant and needed to be replaced. In the middle of a hot kitchen it had ice coating several inches of exterior pipe. Facilities Services purchased a new Energy Star Freezer.

Project Goals

Save electricity and create a better kitchen environment for the residents.

Pre-Project Considerations

The freezer needed to be a large upright model to handle all of the food used in the Coop and fit into the limited space. Repairing the existing freezer was determined to not be an option by Facilities Services, and so it was recycled.

The Project Process

A Kill-A-Watt was installed on the existing freezer to determine how much energy it used and confirm that it was wasting significant amounts of energy. A new model freezer was then chosen and a proposal submitted to the CERF board. Facilities handled the purchasing, replacement and recycling.

Lessons Learned

- This was the first CERF project, so there were a few iterations of the proposal and how to conduct a cost/benefit analysis.

<p>Project Snapshot</p> <p><i>Economics:</i></p> <p>Total Project Cost: \$579 Annual Cost Savings: \$147 Payback: 3.9 Years</p> <p><i>Environment:</i></p> <p>Annual Savings: 2,397 kWh CO2 Saved: 847 kg</p> <p><i>Equity:</i></p> <p>No obvious impact</p>	<p>Project Contact</p> <p>Mike O'Connor – Chief Engineer (651) 696-6231 oconnor@macalester.edu</p> <p>Project Participants</p> <p>Justin Lee - student</p>
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