

CCLEP Project Resume

CCLEP Formed, Website Launched

April 2008 - September 2009

CCLEP Board formed; CCLEP volunteers write and oversee launching of CCLEP website.

Funding: \$10,000 Minnesota Pollution Control Agency.

12 Simple Steps for Energy Efficiency Program

October 2008 - December 2010

In partnership with local retailers and the Grand Marais Public Utilities Commission, CCLEP volunteers initiated a public information campaign to highlight one inexpensive and simple energy efficiency idea each month. Local Hardware stores and the Grand Marais Public Utilities Commission participated with promotion and by giving discounts on selected items i.e. compact fluorescent light bulbs.

Wind Power Monitoring

July 2009 - Present

In partnership with the non-profit Center for Sustainable Community Development, CCLEP volunteers implemented a wind power assessment program to monitor wind power potential at several sites within Cook County.

Funding: \$10,000 NE Minnesota Sustainable Development Partnership.

Energy Efficiency Home Audit House Party Program

August 2009 - April 2010

In partnership with Arrowhead Electrical Cooperative and the Grand Marais Public Utilities Commission, CCLEP volunteers coordinated a series of 7 home energy efficiency audits where participants were encouraged to invite friends. A little over 50 people attended these events.

Funding: \$2,000 from the Lloyd K. Johnson Foundation, \$525 Arrowhead Electric Cooperative.

Achieved 501-c3 Non-profit Status

Summer 2009

Wind Turbine/Bird Migration Study Public Forum

Fall 2009 - Fall 2010

In partnership with the Natural Resources Research Institute (NRRI) and the University of Minnesota Duluth, CCLEP volunteers facilitated communication between bird advocates and wind power development advocates by publicizing NRRI's ongoing North Shore Bird Migration Study and holding a Wind Power/Bird Migration summit in Grand Marais in October of 2010.

Angry Trout Cafe Heat Recovery Project

Spring 2010 - present

In partnership with the Angry Trout Cafe in Grand Marais, MN, CCLEP volunteers successfully applied for a grant to design and install a heat recovery system to capture heat from the kitchen exhaust duct and use it for the restaurant's hot water needs. The system successfully supplied 20-30% of the ATC hot water requirements but was shown to be uneconomical for small seasonal restaurants. However, the system is very promising for larger, year-round restaurants.

Funding: \$22,450 MN Office of Energy Security

Grand Marais Solar Photovoltaic Power System

Spring 2010 (Installation spring 2012)

In partnership with the City of Grand Marais, CCLEP volunteers secured funding for, and coordinated the installation of, a 7.4-kilowatt solar photovoltaic power system at the Grand Marais Municipal Golf Course.

Funding: \$57,636 Iron Range Resources; \$13,000 City of Grand Marais; \$5,000 Cook County Board, \$2,000 Lutheran Community Foundation.

North Shore Ride Share Website; www.northshorerideshare.com

July 2010 - Present

In partnership with Boreal Access - a local non-profit Internet service provider - CCLEP volunteers oversaw the design and installation of a ride and delivery sharing website for the Grand Marais/Cook County Area.

Funding: \$4,000 Lloyd K. Johnson Foundation.

City of Grand Marais Energy Efficiency Lighting Retrofit

Summer 2010

CCLEP volunteers assisted the City of Grand Marais in securing a grant to retrofit for more efficient lighting in city buildings.

Funding: \$10,000 MN Office of Energy Security

Cook County Community Center Planning Committee

Summer 2010 - 2013

CCLEP volunteers participated in the planning process for a community center in Grand Marais that is attached to the Cook County High School administered by the YMCA. CCLEP advocated for energy efficiency and compatibility with potential future renewable energy sources including a possible biomass district heating facility.

Energy Curriculums for Local Grade Schools

Fall 2010 - 2011

CCLEP volunteers secured funding and coordinated purchasing of a selection of energy efficiency and renewable energy related curriculums from the National

Energy Education Development Project. These curriculums are being implemented at three local grade schools.

Funding: \$2,000 Lloyd K. Johnson Foundation

Small-Scale Wind Turbine Tower Ordinance Change

Fall 2010

CCLEP volunteers successfully lobbied the Cook County Board to change their tower ordinance to be more favorable to small-scale wind turbine development.

Cook County Courthouse Energy Efficiency Heat and Ventilation Retrofit

Fall 2010

CCLEP assisted Cook County in securing a grant for an energy efficiency retrofit of the courthouse heating and ventilation system.

Funding: \$80,242 MN Office of Energy Security

Grand Marais Recreation Area Bathhouse Solar Hot Water Installation

November 2010 - present

In partnership with the City of Grand Marais, CCLEP volunteers coordinated the funding, design, and installation of a 150,000-btu/day solar hot water system on bathhouse #4 in the Grand Marais Recreation Area.

Funding: \$5,000 Clean Energy Resource Teams Program; \$7,500 Laura Jane Musser Fund.

Cook County and Grand Marais Energy Conservation and Renewable Energy Plan

Fall 2010 - present

In partnership with the City of Grand Marais and Cook County, MN, CCLEP volunteers initiated, and implemented, a community planning process to develop an energy efficiency and renewable energy plan for both the City of Grand Marais and Cook County. This plan was completed and adopted by the City of Grand Marais and Cook County in July and August 2012.

Funding: \$50,000 MN Office of Energy Security

Cook County Biomass Energy Feasibility Study

Winter 2011 – Winter 2013

In partnership with the University of Minnesota, the U.S. Forest Service, and Dovetail Partners, CCLEP volunteers initiated a comprehensive assessment of the potential for biomass energy in Cook County at a variety of scales and locations.

Funding: \$112,000 Cook County; \$150,000 Minnesota Legislative/Citizens Committee on Minnesota Resources

Home Energy Savings Workshops

Winter 2011 - Summer 2011

CCLEP volunteers coordinated local participation in the Duluth Energy Efficiency Program's (DEEP) Home Energy Workshop Series. Workshops educated homeowners about resources available to assist them in making their homes more energy efficient.

Funding: MN Office of Energy Security; Center for Energy and the Environment; and the Clean Energy Resource Teams Program.

Cook County Residential Energy Efficiency Program (REEP)

Spring 2011 - Pilot Project ends December 2014

Ongoing REEP Fall 2014 - present

Summer 2014 - present REEP transitions to ongoing program

CCLEP staff and volunteers worked and coordinated with Duluth Energy Efficiency Program, Cook County, the City of Grand Marais, the Cook County and Grand Marais Joint Economic Development Authority (EDA), the EDA Housing Program, Cook County Higher Education and local businesses to create a program to help building owners in Cook County make their buildings more energy efficient. REEP focuses on residential buildings and is a template for energy efficiency work on other buildings.

Funding: \$1,500 Operation Round Up (Fall 2013-Fall 2014); \$1,000 Lions Club (2014); general operations funds

Grand Marais Library Expansion Project

Summer 2011

CCLEP volunteers successfully lobbied the Library Board to improve the energy efficiency of the new library. Payback on the suggested energy efficiency investment will be only a few years with an annual savings in energy costs of \$1,000 - \$1,500 per year thereafter.

Other General Funding 2008-2011

\$8,300 Lutheran Community Foundation

\$2,250 Private donations

CCLEP Part time Coordinator

Winter 2011- 2012

CCLEP volunteers secured funding for a part time coordinator and administrative expenses for one year. The coordinator works with the CCLEP Board, volunteers and the community to advance the City of Grand Marais and Cook County Energy Plan, develop an Energy Efficiency Program (as put forth in the Energy Plan) and perform a variety of administrative duties for CCLEP.

Funding: \$17,000 Lloyd K. Johnson Foundation; \$2,000 Lutheran Community

Foundation; \$1,000 each City of Grand Marais and Cook County
2013

Funding: \$14,000 Lloyd K. Johnson Foundation; \$4,000 Cook County; \$2,000 City
of Grand Marais; \$1,000 Lutheran Community Foundation

2014

Funding: Through various programing and general operations support

Energy Education Materials in the Schools

Spring 2012

CCLEP staff secured funds from Arrowhead Electric Operation Round-up for
energy education materials for area schools.

Funding: \$340.

Energy Audits for EDA Housing Authority Projects

Spring 2012 - present

CCLEP and EDA Housing staff secured funding from EDA, Grand Marais PUC
and Arrowhead Electric Cooperative for energy audits in utility members' homes
participating in EDA Housing projects with Department of Employment and
Economic Development (DEED) Small Cities Development Program and
Northeastern Minnesota HOME Consortium funds for income eligible clients.

Funding: \$1600 EDA; \$1000 Grand Marais PUC; \$ 600 Arrowhead Electric
Cooperative

Cook County Whole Foods Coop

Summer 2012 - Summer 2013

CCLEP volunteers participated in the planning process for a new store
advocating for energy efficiency and compatibility with potential future
renewable energy sources including a possible biomass district heating facility.

Energy Efficiency Education Program

September 2012 - September 2014

CCLEP partnered with Cook County Higher Education to deliver energy
efficiency education to Cook County. A homeowner workshop kicked off
CCLEP's REEP program. A contractor workshop offering continuing education
credits to licensed contractors was conducted with the Department of Labor and
Industry staff. Participating contractors were invited to apply to the REEP
program. CCLEP conducted an energy audit on CCHE building and is working
for energy efficient improvements for their remodeling project.

Funding: \$2500. Clean Energy Resources Team (CERT); \$650 local businesses and
EDA donated to support a continuing education energy workshop for licensed
contractors.

Biomass District Heat Project for Grand Marais

September 2012 – August 2014

The Cook County Board of Commissioner's met and approved a request from CCLEP for the use of up to \$355,000 of 1 percent recreation and infrastructure sales tax revenue for a two step study: a detailed feasibility study (\$112,000) and business plan development of a biomass district heating facility in Grand Marais (\$243,000). This project is in collaboration with the BioBusiness Alliance of MN and the Swedish Bioenergy Association.

Funding: \$355,000

Ongoing CCLEP Operations

May 2013 - present

Lutheran Community Fund awards CCLEP a general operations grant.

Funding: \$10,000

Hands-On Energy Efficiency Workshop for Homeowners

Summer 2013 – Spring 2014

Cook County Community Fund awards CCLEP a grant to offer a hands-on energy efficiency workshop for homeowners that offers training in basic energy efficiency improvement techniques.

Funding: \$500

Grand Marais Biomass District Heat System

Summer 2013 - present

Grand Marais Public Utilities Commission receives a grant from the United States Department of Agriculture, Forest Service for continued design work on the CCLEP proposed Grand Marais Biomass District Heating System. Work includes the design and procurement of the biomass plant, the hot water distribution piping system and building conversions and interconnections for customers.

Funding: \$250,000

Fall 2014

Grand Marais City Council awards CCLEP \$3,000 to hire Gregg Mast of Earthtech Energy to find \$100,000 of funding needed to prepare the Biomass District Heat Project for submission to the MN legislature for inclusion in the 2016 bonding bill.

Funding \$3,000

Winter 2014 - 2015

The City of Grand Marais received \$50,000 from the Blandin Foundation and \$50,000 from the MN Department of Agriculture NextGen grant program to

prepare the Grand Marais Biomass District Heat Project for rebidding. This work includes customer contracts, project financing, preparation for the Minnesota legislature 2016 bonding bill and rebidding.

Funding: \$100,000

Winter 2015

The City of Grand Marais adopted the Biomass District Heat Task Force as the guiding committee for the Biomass District Heat Project.

Using Video and Print to Implement Community Energy Efficiency

Winter 2014

CCLEP received funds to implement a variety of projects designed to expand public awareness and knowledge about energy efficiency and mindful energy use. These includes producing three short energy videos, a power point presentation, energy efficiency workshops for the general public and building professionals, publish Energy Matters (a tabloid with the Cook County News Herald), and transition REEP to an ongoing program.

Funding: Clean Energy Resource Teams (CERTs) \$4,000

Monitor solar thermal/deep sand bed system at North House Folk School

Summer 2014 - present

Investigate the effectiveness of the solar thermal/ deep sand bed system installed at North House Folk School Milling Shop Classroom Building by monitoring and adjusting system parameters to optimize performance.

Funding: \$3,000 CCLEP funds

Solar Initiative Project

2015 - 2016

The Solar Initiative Project is to raise awareness of the benefits of solar photovoltaic systems and to assist Cook County residents in evaluating options that work best for them. Efforts will center on creating a solar toolbox and creating an informational delivery plan for the public.

Funding: \$15,000 Lloyd K. Johnson Foundation