

NH's Greenhouse Gas Emissions Reduction Fund (GHGERF)
Promoting a Green Economy & Energy Independence for New Hampshire

A CASE STUDY
Crotched Mountain Rehabilitation Center



The Bromley Building

Crotched Mountain's Bromley Building project replaced heating oil with renewable, local wood chips, saving \$51,870 annually in energy costs. The project was funded with a GHGERF grant awarded in August 2009 for a mechanical upgrade that allowed the Center's 12,800 square-foot Bromley building, which includes administrative offices, a health center and housing for staff and low-income residents, to be connected to Crotched Mountain's biomass district-heating system.

Previously, the 45-year old Bromley building relied on an inefficient, oil-fired steam-heating system. Outdated and inefficient system controls also led to building overheating, adding to wasted fuel as windows were opened to regulate temperatures.

"The new system, complete with individual controls, provides occupants with comfortable, regulated heat. Windows are staying closed rather than serving as ventilation for excess heat."

*Michael Redmond
Senior Vice President/COO
Crotched Mountain Rehabilitation Center*

This project achieved energy and fuel reductions in two ways. First, an improved control system, allowed temperatures in the building to be evenly moderated. Second, the building was connected to the campus's wood-chip district heating system. Use of a local renewable natural resource fuel (wood chips) keeps energy dollars supporting New Hampshire's economy rather than exporting those dollars to oil producing countries.

During the winter of 2009 the building used 25,600 gallons of heating oil at a cost of \$60,600. It is estimated that Crotched Mountain will save \$51,870 in energy savings each year. While the oil boilers remain as backup, *there has not been any oil usage for heating since project completion in September 2009.*

Founded in 1953, the non-profit Crotched Mountain Rehabilitation Center is dedicated to serving individuals with disabilities and their families. Crotched Mountain's operations include a 1,400-acre residential campus, a school for children with special needs, a rehabilitation hospital for patients with brain injuries and other neurological conditions, outpatient clinics, and an athletic complex. Most clients are low income.

FOR MORE INFORMATION

Crotched Mountain Rehabilitation Center www.cmf.org

GHGERF and New Hampshire's Regional Greenhouse Gas Initiative

www.puc.nh.gov/Sustainable%20Energy/GHGERF.htm