

New Hampshire's Greenhouse Gas Emissions Reduction Fund

Promoting a Green Economy & Energy Independence for New Hampshire Businesses

A CASE STUDY



Foss Manufacturing Company, LLC, Hampton

Foss Manufacturing Company, LLC, Hampton saved \$65,000 in two months after installing energy efficiency upgrades. These efficiency upgrades were financed by a \$750,000 loan through the NH Business Finance Authority's (BFA) Business Energy Conservation Revolving Loan Fund developed with grant dollars from the Greenhouse Gas Emissions Reduction Fund. This loan fund gives priority to entities that do not qualify for existing efficiency programs. Loan principal repayments are recycled and used to help other businesses.

Foss employs over 350 workers and is a vertically integrated producer of engineered, non-woven fabrics and specialty synthetic fibers. The company is one of the world's largest needle-punch-based manufacturers and a leader in the use of synthetic fibers in new environments and uses.

Foss is a major energy user and generates all of its electricity on site with gas turbines and diesel back-up generators. As a result,

Foss is ineligible to participate in utility-based energy efficiency programs.

Foss hired GDS Associates in 2007 to complete a comprehensive energy audit. The audit identified over 35 improvement projects, with priorities including the replacement of AC and DC drive motors with high efficiency (variable frequency drive) motors, improvement of the electrical infrastructure by re-wiring a poorly planned distribution bus, and replacement of the approximately 1,800 light fixtures in the facility.

Foss started replacing lighting fixtures in March 2008 using its own internal funds and manpower but was unable to complete this and the other two efficiency projects until it received the BFA loan in 2009.

The projects are collectively expected to reduce the company's electrical use by over 12 percent and cut costs over \$750,000 per year. As additional program funds become available the company plans to complete all 35 of the identified projects.

Foss is an excellent example of how RGGI funds can help New Hampshire businesses. The Business Energy Conservation Revolving Loan Fund is a great tool New Hampshire businesses can use to cut operating costs and improve competitiveness.

*Jack Donovan
NH Business Finance Authority*

FOR MORE INFORMATION

BFA Business Energy Conservation Revolving Loan Fund

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GHGERF and New Hampshire's Regional Greenhouse Gas Initiative

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