

Energy Incentives from We Energies



SUCCESS STORY

Customer: Ascension Lutheran Church

Project: Heating, cooling and lighting upgrades throughout its 51,000-square-foot building.

Total project cost: \$172,781

Incentive: \$30,846

Estimated savings achieved: kW: 42; \$/year: \$17,984 includes demand charges
 Therms: 10,219; \$/year: \$10,219
 CO2: 100.2 tons/year.

Source of lead: Energy Stewards 1 Program

Date completed: January 2007

Why is this a success story?

In December 2005, Energy Stewards I launched its Energy Savings Program in conjunction with We Energies, the Wisconsin Interfaith Climate and Energy Campaign, Franklin Energy and Rapid Improvement Associates. The goal of the program is to bring awareness to the religious and non-profit communities of the potential energy, financial and environmental savings currently available through upgrading existing equipment to more efficient systems, equipment and practices.

Jim Patterson and Heidi Barrett, both of Ascension Lutheran Church, attended one of the sessions offered by the sponsors of Energy Stewards I. Upon finding out what We Energies offered as incentives to upgrade their facilities electrical and heat plants, Jim and Heidi began their quest to bring Ascension Lutheran Church building into compliance with the best equipment available for heating, cooling and lighting.

Franklin Energy performed the energy audit on the church on April 12, 2006. After making the recommendations for the efficiency improvements and calculating the payback on the investment. In a meeting Ascension Lutheran's congregation approved borrowing \$145,690 for the specified Energy Incentives program.

The first thing they did was to find information on high efficient heating systems. After reviewing several proposals, they chose Butters Fetting of Milwaukee to install their state-of-the-art heating system. *(over)*



The heating system they chose was the Dyna Flame Series Model DFh-2000C, each 2 million BTUH input 95 percent nameplate efficiency fully condensing hot water boilers. By installing the new boilers with two new indoor/outdoor reset controls, they were able to save 10,219 therms of natural gas per year and an average of \$10,719 of heating cost per year. At a total installation cost of \$85,781, We Energies was able to give Ascension Lutheran \$10,719 in incentives help with project. The pay back on this project is seven years.

After the completion of the boiler projects, Ascension took on the air conditioning upgrades. The current air conditioning equipment was more than 30 years old. The new air conditioning equipment has an EER/SEER rating of 11.0, saving 4.46 kW that qualified them to receive another \$2,143 incentive from We Energies.

Finally, Ascension contracted with PieperPower electrical contractor to upgrade all of their existing lighting that is on between 1 and 4 p.m. Monday through Fridays during the months of June through August (when demand for electricity from We Energies is highest). Starting in September 2006, PieperPower changed out all of their qualifying fixtures throughout their building.

Ascension Lutheran spent more than \$65,000 on these lighting upgrades, saving over 38kW for the year. This qualified for another \$17,984 We Energies incentive.

The total spent on the building upgrades from Ascension Lutheran was \$172,781, of which the We Energies contributed \$30,846 toward this project. The overall savings to include all the new measures is estimated to be around \$23,024 per year. The total pay back on this project is just over six years.

For more information:

www.we-energies.com/EE

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