

Fidelity Bank



PROJECT PROFILE

OVERVIEW

SITE OVERVIEW

- New construction
- Completed January 2007
- Corporate office and branch
- 47,000 square feet
- Located in Leominster, Massachusetts

KEY OBJECTIVES

- Embrace energy efficiency
- Realize long-term savings
- Improve lighting and work place comfort

BY THE NUMBERS

TOTAL PROJECT COST:

\$7.1 million

ENERGY EFFICIENCY UPGRADES:

\$100,822

NATIONAL GRID INCENTIVE:

\$66,587

COST OF ENERGY EFFICIENCY UPGRADES TO CUSTOMER:

\$34,036

SIMPLE PAYBACK:

1.2 years with incentives (3.7 years without incentives)

ESTIMATED ANNUAL ENERGY SAVINGS:

184,535 kWh

ESTIMATED ANNUAL COST SAVINGS:

\$27,600

Fidelity Bank is one of the oldest and continually growing independent, local community banks in Central Massachusetts.

In January 2007, the bank opened its new Corporate Center and Branch in Leominster, Massachusetts. The four-story building includes office space as well as a first-floor banking facility with drive-up service.

Eager to be a good corporate citizen and with hopes of realizing long-term savings, Fidelity worked with National Grid to implement the energy efficiency measures of the Advanced Buildings program.

TECHNOLOGIES AND DESIGN STRATEGIES:

ENVELOPE. Installed R-13 batt insulation in all opaque exterior walls; added batt insulation to the 2" rigid foam board applied to the exterior; and installed high performance windows.

LIGHTING AND CONTROLS. Achieved a light density of 0.86 watt/square foot through the use of energy efficient fixtures and occupancy sensors.

HVAC. Achieved \$18,500 in savings through high efficiency HVAC measures including: two roof-mounted air handling units equipped with direct expansion cooling; two 650 MBH input roof-mounted boilers serve the water reheat system; electronically commutated motors in 6 fan boxes; and the installation of direct digital control-based system for full monitoring. In addition, the computer server room has a split system control which operates continuously to handle the heat rejection load of the equipment—excess heat is ejected into occupied office areas as needed.

PROJECT TEAM

OWNER REPRESENTATIVE

Fidelity Bank
Leominster, Massachusetts

PROJECT MANAGER

Alvin Collins
Habitat Advisory Group
Groton, Massachusetts

ARCHITECT

Maugel Architects
Harvard, Massachusetts

GENERAL CONTRACTOR

Construction Dynamics
Fitchburg, Massachusetts

SITE ENGINEER

Whitman & Bingham
Leominster, Massachusetts

SPONSOR UTILITY

National Grid
(for electricity and gas)