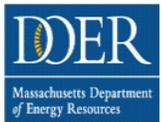




# Energy Recovery Dollars at Work in Massachusetts

## High Performance Buildings Program



**Summary:** The Department of Energy Resources directed over \$15 million in Federal stimulus funds through **10 High Performance Buildings Grants** to projects that will deliver dramatic savings, create hundreds of jobs, and demonstrate replicable solutions to common energy challenges.

### Low-Income Housing and Community Development

#### Castle Square Apartments: \$4.4 million

**Boston** – Constructed in the 1960’s, Castle Square Apartments is a 500-unit, low-income owner-occupied apartment development that is now the site of one of the most ambitious deep energy retrofits in the country. The project is estimated to reduce energy consumption by 72%, support 200 construction jobs, and reduce utility bills by more than \$225,000 a year. The comprehensive building treatments include an exterior shell of super insulated panels to cover the outer brick walls, aggressive air sealing, high-efficiency windows, high efficiency lighting, new appliances, and mechanical system improvements. This project also features a community mobilization effort that ensures community members are engaged throughout the process and will serve as a model for similar projects across the country.



#### United Teen Equality Center: \$1.9 million



**Lowell** - Founded in 1999 as a positive response to local gang violence, United Teen Equality Center (UTEC) is a youth-led agency that blends a drop-in, safe-haven center with more structured workforce development and educational programming. UTEC’s renovation combines building envelope treatment with passive heating and cooling techniques, which will heat and cool the center with little to no support from mechanical systems, reducing energy consumption by a projected 68%. The renovation is creating jobs and will be a certified LEED Platinum green building, which provides long-term energy savings for UTEC, as well as new and expanded opportunities for Lowell youth.

#### Conservation Services Group: \$1.7 million

**Statewide** - Conservation Services Group and the Massachusetts Oil Heat Council formed a consortium to administer the first comprehensive heating oil energy efficiency program in the Commonwealth. The program provides rebates for the replacement of inefficient oil boilers and heaters owned by moderate income families who are ineligible for low-income fuel subsidies, as well as training for boiler mechanics to install these types of systems. This comprehensive pilot program could provide a model for similar efforts in the future.



#### Lawrence CommunityWorks: \$550,000



**Lawrence** - Lawrence CommunityWorks, a community-based development group converted a complex of old mill buildings into a dynamic affordable housing urban neighborhood. The buildings are undergoing efficiency renovations which will include air sealing, new insulation, and high-efficiency windows. The project provides a robust demonstration of energy efficient retrofitting for residential multi-family buildings and old mill buildings, a building type often found throughout the Commonwealth.

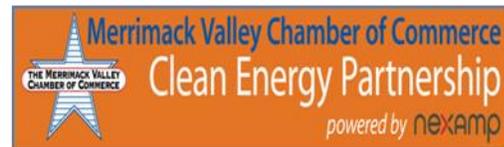
### Commercial and Industrial Sector

#### Center for Ecological Technology (CET): \$900,000

**Springfield** - CET’s 100-year-old warehouse in Springfield is undergoing a deep energy retrofit, consisting of aggressive sealing and insulation of the building envelope. When finished, the project is using use air-to-air heat pumps and target small, high-efficiency heating systems for specific uses - all in lieu of a massive centralized oil boiler system. When completed, the renovated warehouse will house CET’s EcoBuilding Bargains



home improvement center, formerly the ReStore, an ecologically-oriented home improvement store and training center that will allow home improvement customers to learn about energy efficiency measures firsthand.



### **Merrimack Valley Chamber of Commerce: \$500,000**

**Merrimack Valley** - The Merrimack Valley Chamber of Commerce has partnered with Nexamp, Inc. of North Andover to provide Merrimack Valley's diverse businesses with turnkey energy efficiency solutions. After targeting immediate energy savings, regional banks are engaged to help finance additional energy saving improvements and projects. This project is demonstrating the effectiveness of a partnership between local chambers of commerce and clean energy services companies, as well as a community mobilization plan aimed entirely at the Commercial & Industrial sectors.



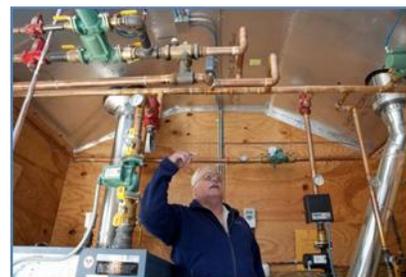
### **Massachusetts Museum of Contemporary Art: \$800,000**

**North Adams** - The Massachusetts Museum of Contemporary Art Foundation, in cooperation with the city of North Adams, has developed a comprehensive four-stage energy plan. The museum is using stimulus funds to displace nearly 75% of natural gas use by switching to renewable wood pellet fuel. Additionally, the biomass boiler's transformative space conditioning will be complemented by advanced lighting controls. This project is demonstrating the application of new

heating and cooling technologies and energy efficiency upgrades in museum space

### **The Sandri Companies: \$3.2 million**

**Franklin/Hampshire Counties** - Sandri Companies is undertaking a high-impact oil heat program in Franklin and Hampshire Counties, to shift oil heat users to wood pellet boilers. Sandri is installing wood pellet boilers at multiple institutional sites throughout the area, including Greenfield Community College and the Greenfield Fire Station. In addition, the company is discounting energy audits run by partner Next Step Living for a segment of its residential customers. Sandri is also providing incentives to act on audit recommendations, and offer rebates for ultra-low-emission wood pellet boilers. Finally, Sandri is shifting resources to become a wood pellet distributor in the area, and continue to expand its operations to displace oil heat with renewable energy.



## **Historic and Residential Buildings**

### **Architectural Heritage Foundation: \$650,000**

**Ipswich/Conway/Ashfield/Waltham** - The Architectural Heritage Foundation, in partnership with Historic New England and the Trustees of Reservations, has undertaken deep energy retrofits at three historic properties in the Commonwealth: The Lyman Estate in Waltham, the Bullit Reservation in Conway/Ashfield, and the Appleton Farms Center for Agriculture and the Environment in Ipswich. Once completed, each of these unique retrofits will

reduce energy consumption by at least 50% and will provide valuable information for future projects at older homes. Notable features include a historically sensitive retrofit to the Lyman Estate that preserves historic values of the property; efforts to make the Bullit Reservation a certified "passive house" that uses little to no fossil fuel energy; and a comprehensive building envelope treatment at Appleton Farms, including exterior insulation, air source heat pumps, and solar thermal hot water systems.

### **Mass Energy: \$250,000**

**Statewide** - Mass Energy Consumer's Alliance's program is increasing general enrollment in utility-run rebate programs and other existing energy efficiency programs through a mobilization program that engages 12 regional organizations and their constituents. Mass Energy is leveraging its broad consumer network, while partnering with other regional community groups to inform and motivate a greater number of people to participate in existing programs.

