

Town of Hudson Public Library

BACKGROUND

The Hudson Public Library is a three story brick building that was originally built in 1905. An original Carnegie Library, the building is over 15,500 interior square feet and made up of 30% windows. These windows were single paned and some dated back to the original 1905 construction. As a result, south facing windows created a sauna-like effect in the summertime and in the winter months employees reported significant cold spots and uncomfortable drafts. With support from the DOER and federal stimulus funds, the library installed new, historically appropriate, energy efficient windows.



FUNDING

The Department of Energy Resources (DOER) allocated an Energy Efficiency and Conservation Block Grant (EECBG) of \$150,000 to the Town of Hudson. These funds allowed Hudson to leverage an additional \$56,245 in a matching grant from the Community Preservation Act. Overall, EECBG funds provided financial assistance to 93 communities in the Commonwealth to bolster energy efficiency and renewable energy projects.

EECBG Spotlight

DOER allocated over \$14.5 million in federal stimulus funds through the Green Communities Division to Massachusetts cities and towns, to invest in renewable energy and energy efficiency projects.

PROJECT DETAILS

The historic Hudson Public Library project installed 117 double-hung, double-glazed, low-emittance windows throughout 63 window openings. These new historically sensitive windows are projected to reduce both electricity usage and heating fuel annual consumption by 40% and save the town over \$7,000 a year in energy bills. The Town of Hudson used the window replacements to raise community awareness around energy efficiency and conservation issues and the library documented the process online for community members and other municipalities to view.



Left Photo: A worker installing new windows.

Right Photo: Street view of the Hudson Public Library, Photos courtesy of the Hudson Public Library

AT A GLANCE:

- 117 new high efficiency windows installed in a historic public library
- 40% projected reduction in both heating fuel consumption and electricity usage
- \$7,000 in estimated savings in energy costs per year
- Annual carbon dioxide reductions from the Installation is equivalent to 4 acres of pine trees

The American Reinvestment and Recovery Act of 2009 invested nearly \$70 million into energy efficiency and clean energy programs managed by the Department of Energy Resources in Massachusetts. These funds are being put to work to create jobs, spur innovation, and ensure the development of clean, sustainable energy sources right here in the Commonwealth.

