

2007 GoGreen Business Awards



CATEGORY: Energy/Large Business

HARVARD UNIVERSITY OPERATIONS SERVICES

46 Blackstone Street

ACCOMPLISHMENTS

- Renovation of 46 Blackstone Street garnered the LEED Platinum rating from the U.S. Green Building Council, the highest possible green building designation.
- The project incorporated ground source heat pumps for cooling; a system of valance units to heat interior space by convection and de-couple the heating and ventilation systems; an Energy Star cool/high-albedo roof to reduce the heat island effect and cooling load; occupancy and daylight sensors to make lighting more efficient; operable windows with double-pane, argon-filled low-emissivity glass; and an Ecospace elevator that is 60% more energy efficient than a conventional hydraulic elevator. Renewable energy certificates are purchased for 100% of the site's energy use.
- A "green premium" was avoided by hiring a cost estimator early in the project. Hard costs for construction were about \$250 per square foot, which is consistent with other Harvard renovations of existing buildings.
- The renovation is comprehensively sustainable and includes non-energy features such as bioswales, permeable pavement, high albedo surfaces and shading, diversion of over 99% of construction and demolition waste away from landfills, recycled-content materials, renewable materials such as bamboo wood flooring, wood certified by the Forest Stewardship Council, and materials such as carpeting and paints with low volatile organic chemical content.

ABOUT HARVARD UNIVERSITY OPERATIONS SERVICES

UOS is responsible for engineering and utilities, environmental health and safety, facilities maintenance and operations, transportation services, and the Green Campus Initiative for Harvard University. The 46 Blackstone Street project was able to unite previously decentralized departments at one location to facilitate greater interaction.



For more information, contact Michael Crowley, High Performance Building Services Coordinator, 617-496-1278, mcrowley@camail.harvard.edu

ABOUT THE GOGREEN AWARD

The City of Cambridge annually recognizes local businesses and organizations for outstanding practices in transportation, waste reduction and recycling, and energy. The awardees make significant contributions to reducing the greenhouse gas emissions that cause global warming and to meeting the Cambridge Climate Protection Plan goal of reducing those emissions by 20 percent below 1990 levels by 2010.