



Reduce Vehicle Pollution

Several features are provided to reduce the environmental impacts from vehicle use: Preferred parking for low-emitting/fuel efficient vehicles and carpools/vanpools; Bicycle racks to encourage people to ride their bikes to work.

The WHOI shuttle provides intercampus transportation and is a connection to available masstransit lines in Woods Hole.



A Cool Roof

The roof color is white thus helping to reflect sunlight and heat away from the building, reducing roof temperatures and the heat island effect. A cool roof transfers less heat to the building below, so the building stays cooler and uses less energy for air conditioning. By lowering energy use, cool roofs decrease the production of associated air pollution and greenhouse gas emissions.



Stormwater Runoff

Bioretention areas and leaching basins are provided to capture, treat and control stormwater runoff, reducing water pollution and protecting the surrounding wetlands and salt marsh.



Water Savings

Dual flush handles on water closets, low-flow faucets and electronic sensors are incorporated to maximize water efficiency and reduce the burden on municipal water supply and wastewater systems. These features contribute to a water savings of 38% from the baseline design of the laboratory.



Energy Reduction

Energy performance has been optimized by computer modeling the HVAC system, windows, insulation, lighting and other components of the exterior envelope. This modeling helped in selection of efficient systems that provide energy savings of over 13% from the baseline design.



Green Power

To encourage the development of renewable, low-polluting energy technologies, Green-E certified renewable certificates have been purchased from Renewable Choice Energy to offset 70% of the project's annual electrical consumption over a two-year period.



Reduce, Reuse, Recycle

Collection and storage areas have been provided for recyclable materials to facilitate the reduction of landfill waste. Please help us by throwing your waste in the proper recycle bin.

Thanks!

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Minimal Construction Waste

Over 80% of construction and demolition waste during construction of the building has been diverted from landfills.



Recycled Content

Nearly 33% of the total laboratory's materials cost is from recycled content, which is recognized by LEED as exemplary performance. Recycled materials reduce the impacts resulting from extraction and processing of virgin materials.



Local business benefit too

Over 24% of the total material cost of the laboratory is locally extracted and manufactured (within 500 miles), thereby supporting local businesses and indigenous resources and reducing environmental impacts from transportation.



No Smoking Please

WHOI continues a long-standing commitment to minimize its building occupants' exposure to tobacco smoke.

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Breathe Easy

Ensuring healthy indoor air quality is an important part of LEED certification. All paint, flooring, sealants, adhesives and other materials and finishes were selected to minimize levels of volatile organic compounds (VOCs), which can irritate the eyes and respiratory system.



Wood That Works

All the interior wood components including the doors, butcher block countertops, the reception desk and other millwork contain no added urea formaldehyde (NAUF).

The wood ceiling and wall panels are recognized by the Forest Stewardship Council (FSC) as products representing responsible production and consumption practices from the forest to the consumer.



Outdoor Areas

Outdoor areas are an important component in the design of the building. The landscape retains existing areas of understory plantings and supplements them with select native plantings. Nearly 4.5 acres have been placed in a permanent conservation restriction providing a connection for employees and visitors to the benefits of maintaining the surrounding natural environment.



Green Cleaning Program

The maintenance of the laboratory includes sustainable green cleaning practices and products. This commitment contributes to a healthier indoor environment for the occupants through the use of environmentally responsible cleaning procedures and products.



Green Building Education

The LEED certification distinguishes LOSOS as having demonstrated a commitment to sustainability by meeting the highest performance standards and reducing its impact on the environment. In the development of the project, the design team included an integrated approach to sustainable design and considered a wide range of sustainable building strategies.

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Learn more at our website:
<http://www.whoi.edu/losos/leed-certification>