

Hofstra North Shore-LIJ School of Medicine LEED Certification

“Sustainability, environmental stewardship and ecology.”

What does LEED Stand for?

Leadership in Energy and Environmental Design

What it means to be a LEED Certified Building

*** Sustainable Purchasing Policy**

- Reduce environmental impact of materials acquired for;**
- Creation**
- Operation**
- Maintenance**
- Upgrades**

What it means to be a LEED Certified Building

*** Solid Waste Management Policy**

- **Facilitate the reduction of waste generated by building occupants that is hauled to and disposed of in landfills or incineration facilities;**
 - **On going Consumables**
 - **Durable Goods**
 - **Facility Alterations and Additions**

Sustainable Site

- The project is located on a previously developed site within $\frac{1}{2}$ mile walking distance of over ten basic services greatly reducing the environmental impacts of transportation.
- The project is located within $\frac{1}{4}$ mile walking distance of 5 different bus lines promoting the use of public transportation and reducing greenhouse gas emissions from personal vehicles.

Sustainable Site

- Over 25% of the project open area is planted with vegetation which promotes clean air, recreation, biodiversity, helps with natural storm water management, and mitigates urban heat island effect.
- 15 bicycle racks and 2 showers were installed to encourage building occupants to travel via bicycle, which is a zero emissions mode of transportation.
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Sustainable Site

- A total of 14 parking spaces in preferred parking spaces have been dedicated to low-emitting and fuel-efficient vehicles to encourage building occupants to purchase vehicles that are less polluting than vehicles that run on fossil fuels.
- The project has implemented a storm water management plan using drainage wells which decreases the volume of site runoff by 63.4%.

Sustainable Site

- The project installed bioswales (landscape elements designed to remove silt and pollution from surface runoff water) and dry wells to treat storm water runoff from 93% of the average annual rainfall to limit disruption and pollution of natural water flows.
- The roof of the building has a solar reflective index of 92, which reduces heat island effect to minimize impacts on microclimates and human and wildlife habitats.

Water Efficiency

- The project installed water efficient landscaping which reduces the amount of potable water consumed for irrigation by 64%.
- By installing low flow toilets, low flow and waterless urinals, and metering lavatory faucets, the project building consumes 39% less water than buildings with conventional plumbing fixtures.

Energy and Atmosphere

- By incorporating energy efficient interior lighting, space heating, space cooling, interior fans and receptacle equipment, the project's energy costs are reduced by 18.3%.
- The project is registered with Energy Star's Portfolio Manager Tool which allows the project to benchmark building performance and monitor where energy and water savings may be possible.

Energy and Atmosphere

- The project purchased 1,591,919 kWh of renewable energy credits which are equal to 85% of building's electricity use over a two year period.
- To conserve energy, the installed fenestration assemblies are high-performance, double glazing, air-filled, low-e coating, and aluminum framed with thermal break.

Energy and Atmosphere

- The insulation installed entirely above the roof deck has a high ability to resist the flow of heat through it which reduces heating and cooling demand.
- To meet its energy reduction goals, the project installed energy efficient chillers, cooling towers/ fluid coolers and boilers for space heating/ backup heat.

Materials and Resources

- The project developed a Construction Waste Management Plan that allowed the project to effectively divert over 89.91% of its construction and demolition waste from landfills.
- The architectural materials installed on the project contain 13% recycled content which helps to reduce the impacts resulting from extraction and processing of virgin materials.

Materials and Resources

- 26% of materials installed on the project were both extracted and manufactured within 500 miles of the project site therefore supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Materials and Resources

- An Indoor Air Quality Management Plan was implemented during construction to reduce indoor air quality problems resulting from construction and renovation and promote the well-being of construction workers and building occupants.

Materials and Resources

- The project completed a building flush-out after the completion of construction to reduce indoor air quality problems resulting from construction or renovation to promote the comfort and well-being of construction workers and building occupants.

Materials and Resources

- All adhesives and sealants installed on the project meet the VOC requirements set forth by South Coast Air Quality Management District Rule 1168 reducing the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

Materials and Resources

- All paints and coatings installed on the project meet the VOC requirements set forth by SCAQMD Rule 1113, Green Seal Standard GS-11, and Green Seal Standard GC-03 to reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

Materials and Resources

- All flooring installed on the project is low-emitting. Carpets are certified by the Carpet and Rug Institute's Green Label Plus program and all resilient flooring materials are FloorScore certified to reduce the quantity of indoor air contaminants.

Materials and Resources

- All composite wood and agrifiber products installed on the project are free of added urea formaldehyde resins to reduce the quantity of indoor air contaminants.

Over 76% of new wood purchased for the project is Forest Stewardship Council certified. FSC criteria for certifying wood address forest management, legal issues, indigenous rights, labor rights, multiple benefits, and environmental impacts.

Innovation and Design

- The project established and will maintain a toxic material source reduction program to reduce the amount of mercury brought into the project; 100% of the lighting installed is either low-mercury or does not contain any mercury.
- High efficiency LED lighting was used throughout the space.

Innovation and Design

- The project earned an additional LEED point for Exemplary Performance by purchasing green power equal to 85% of the project's total energy consumption.
- To educate building occupants and visitors about the green features of the building, the project developed a green education program which included signage and public outreach programs to identify and highlight the green features of the building.