

Facts

Description:

420,000 SF research and education facility

Location

New York, NY

Project Owner:

St. Sinai School of Medicine

Architect:

SOM

Completion Date:

2013

Objective:

Create a high performance, state of the art facility to house critical cancer research and clinical functions

Results

LEED Silver certification

MT. SINAI CENTER FOR SCIENCE AND MEDICINE



The Mount Sinai School of Medicine building is a new, state of the art medical research and clinical facility that expands the institute's research capacity and provides a collaborative space for scientists and physicians from different disciplines. Committed to the construction of green buildings throughout its

campus, Mt. Sinai sought LEED Silver certification to validate the performance of its new world-class facility and to emphasize its values of health and wellness of building staff, patients, and researchers.

Located on Madison Avenue in upper Manhattan, the building's 10 floors house conference and education centers, clinical out-patient functions, and wet-bench research laboratories, which include flexible, state-of-the-art space for both the Cancer Center and Brain Institute. Below grade, two cellar levels accommodate a vivarium and imaging center. To promote the adoption of green building practices and features implemented in the designs, the tenants of the out-patient clinics, which represent the only core and shell space in the building, have been issued LEED Tenant Guidelines.

Paladino Approach

Paladino and Company acted as the sustainable design consultant to the owner and project team throughout the design and construction process. Paladino is also acting as the liaison and LEED certification facilitator between the owner and the USGBC.

In addition to the sustainable design consultant role, Paladino acted as the energy modeler for the project for the predictive analysis of the project design, and supported the owner and the New York State Energy Research and Development Authority (NYSERDA) consultant in applying for incentives available for the energy efficiency strategies being implemented in the project.

Inside the building, there is a focus on water and energy efficiency and indoor air quality. Low flow fixtures specified will result in over 30% more water efficiency when compared to minimum requirements. Through the specification

About Paladino

Paladino is an industry-leading green building consulting firm providing sustainability expertise over a wide range of building and business issues. We work with high aspiration organizations of all sizes to develop advanced green building strategies for both new and existing construction.

A pioneer of the green building movement and one of the original creators of the LEED green building rating system, Paladino's esteemed clients include ConAgra Foods, Starbucks, PNC Financial Services, Microsoft, Verizon Wireless, Corporate Office Properties Trust and many more. At Paladino, we help our clients create business value by optimizing human, environmental and financial performance. Our customized technical approaches center on the unique concept of abundance as a driving force for organizational transformation. To learn more, visit www.paladinoandco.com.



*Paladino's abundance framework
(people, planet, prosperity)*

of efficient HVAC, glazing, and energy management controls, the building is expected to be approximately 25% more energy efficient than an average office building. Low emitting adhesives, sealants, paints, and carpets are specified to reduce the VOCs introduced to the buildings atmosphere. Design strategies such as carbon dioxide monitoring and increased ventilation will contribute to a high level of indoor air quality throughout the life of the building without compromising energy efficiency.

The School of Medicine's location in downtown New York puts it in close proximity to multiple modes of transportation, including subway and bus lines, encouraging commuting alternatives to driving due to limited parking availability.

Finally, the building design will maintain a focus on environmentally friendly materials with high recycled content and a large percentage harvested, extracted and manufactured within a 500 mile radius of the site.

Results

Results of the project include 30% predicted water savings compared to code requirements; predicted 25% more energy efficient than a comparable traditionally designed facility; and demolition and construction waste management plans which targeted over 75% of waste to be diverted from landfill.