

CASE STUDY: The New School University Center

By S.O.M.

Location: New York

Surface: 375000 sq²

Year of Completion: 2014

Green Solutions Used:

- Super-efficient LED lights
- Occupancy sensors
- A 265-kilowatt cogeneration plant
- Sustainably sourced materials
- Green Roof
- Ice-storage system



The University Center, designed by Skidmore, Owings & Merrill (SOM), combines all aspects of a traditional campus into a single, 16-story building, offering 200,000 square feet of academic space on the first seven floors and 150,000 square feet for a 600-bed dormitory on the levels above.

Interactive spaces dispersed throughout the building are vertically intertwined by three iconic fire stairs. These spaces, which are designed to foster moments of spontaneous encounters and unstructured conversations, are visually traced along the brass facade as “hives of c



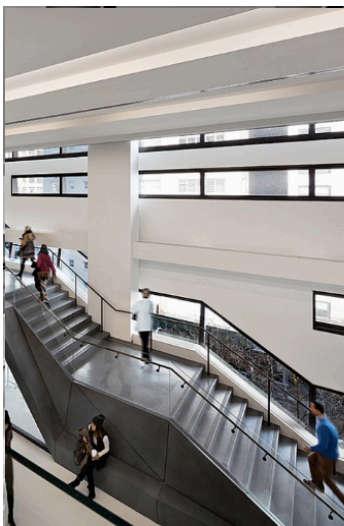
Designed to meet LEED Gold certification from the US Green Building Council, the University Center sets the New York City standard for green technology and building practices with super-efficient LED lights, occupancy sensors, a 265-kilowatt cogeneration plant, and sustainably sourced materials.

Envisioned as a model of energy efficiency, carbon reduction, and sustainability, the building anticipates 31 percent energy savings over a code-compliant school. Both passive and high-tech solutions increase energy efficiency. The envelope of the building is limited to 35 percent glass, which decreases solar heat gain while optimizing interior day lighting.

The shingled cladding shades the windows up to 20 percent during daylight hours. An ice-storage system, located in the second basement, uses electricity from the power grid during off-peak times to freeze water in a series of chambers the ice melts during the day, reducing consumption during peak times. Heat

recovery wheels recover heat from exhaust, air and help heat supply air, saving energy. A green roof, funded in part by the New York City Department of Environmental Protection, mitigates the heat-island effect, as well as storm-water runoff, capturing water for both gray-and black-water treatment facilities in the building. Waterless urinals contribute to potable-water conservation. Composting is employed with an in-vessel composter in the cafeteria.

The University Center reimagines the organizing elements of a traditional campus, from quads to classrooms and living quarters. Vertical, horizontal, and diagonal campus pathways work together to facilitate movement through the building, while increasing opportunities for interaction among students and faculty from across the university. Academic spaces are flexible and easily adaptable, and can be renovated or reconfigured with no impact on power, data, or lighting to meet changing needs.



Construction Manager: Tishman

Mep Engineer: Cosentini Associates

Structural Engineer: DeSimone Consulting Engineers

Civil Engineer: Langan Environmental & Engineering Services

Lighting: Brandston Partnership

Leed Consultant: Buro Happold

Energy Modeling: Buro Happold

Blackwater System: Alliance Environmental

Acoustics: Cerami Associates

MAKE YOUR BUILDING GREENER, CONTACT **Seeder** TODAY!

info@seeder.cc