

Case Study: Encelium ECS for Commercial Interiors

Goshow Architects, 44 West 28th Street, New York, NY 10001



PROJECT OVERVIEW

In 2009, when Goshow Architects relocated to a new 8,000 SF office space in New York City, the main goal was to design a sustainable office space. However, the space they moved into consisted of perimeter offices and central dark rooms. While functional for the previous tenant, Goshow Architects wanted a more open and daylit environment. Therefore, the new design called for a complete renovation of the space to fit 45+ individuals, including 8 private offices, two conference rooms, and several informal meeting areas. By switching the offices to the center and creating open studios along the perimeter, the space was filled with natural light and the new layout promotes a collaborative working environment.

In designing the new office space, Goshow Architects wanted to certify the project under the LEED Commercial Interiors rating system. One major obstacle was that the HVAC system was owned and operated by the landlord. Therefore, in order to make an impact on the energy usage of the space, the focus shifted to energy efficient lighting and installation of a comprehensive lighting control system.

PROJECT OBJECTIVES

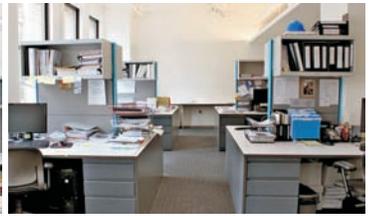
- Create a healthy and sustainable working environment
- Attain LEED Commercial Interiors Certification (Silver Certification at minimum)
- Reduce total energy consumption by 30%
- Focus on energy-efficient lighting design and lighting controls

“Goshow Architects believes that architects have a social responsibility to create healthy and sustainable living and learning environments. While this commitment is put into practice on every project we design, we looked at moving into new office space as an opportunity to use the same principles in our own space. By designing our office to meet green standards, we are practicing what we preach.”

Amanda Langweil, LEED AP, CSI, CDT
Director of Sustainability
Goshow Architects

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STRATEGIES

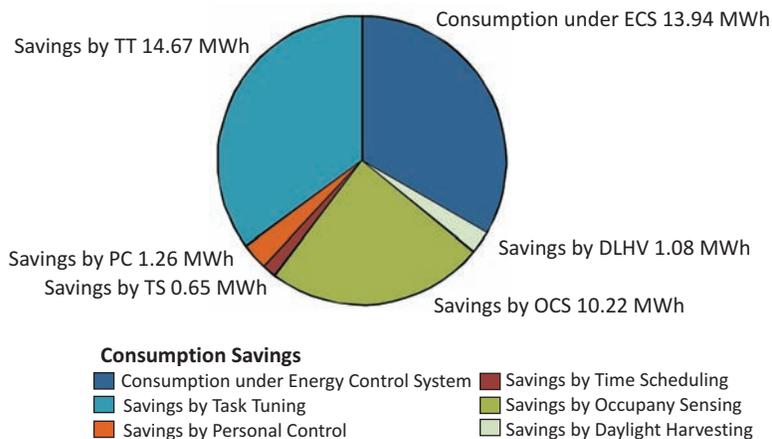
Goshow Architects' design team worked with Encelium to personalize the lighting control system. ECS (Energy Control System) delivers energy savings that exceed customer expectations through the deployment of the following energy management strategies:

-  Personal Control
-  Task Tuning
-  Daylight Harvesting
-  Smart Time Scheduling
-  Occupancy Sensing
-  Load Shedding

RESULTS DELIVERED

- Lighting energy consumption reduction of 66%
- Lighting energy demand reduction of 51%
- 39,493 lbs of CO2 emissions eliminated
- 6 points towards LEED-CI Certification

Consumption Savings by Strategy



"I am already recommending the Encelium lighting control system to some of our clients. Precious energy is being saved with this lighting control system which reduces light-power density (watts per square foot of office space)."

Nancy Aber Goshow, AIA, LEED AP
Managing Partner
Goshow Architects

LESSONS LEARNED

Goshow Architects developed an implementation plan for all sustainable features early in the design process. A key feature of this plan was the collaborative approach, allowing Goshow and Encelium to work together to implement the most energy efficient lighting control system to address the unique needs of the space.

The Encelium ECS solution contributes between 12 and 18 points towards LEED certification, depending upon rating system. This includes four of the six LEED categories, sustainable sites, energy and atmosphere, indoor environmental quality, and innovation in design.

Research has shown that being green also helps a business attract the best employees, stand out in a crowded marketplace, and increase employee morale and productivity. Goshow Architects has seen an increased interest from potential employees and clients, heightened recognition in its industry as a sustainable design firm, and the continued commitment of its staff to sustainable practices in the workplace.

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