

Union College Lighting Upgrades Schenectady, New York



Novus Engineering, P.C. was selected to conduct an energy audit of Union College's Schenectady, NY campus. This energy study project was funded through NYSEERDA's Flexible Technical (FlexTech) Assistance program. In addition to identifying various energy-related issues throughout campus, Novus designed, implemented, and commissioned a campus-wide, 14-building lighting upgrade project.

The project included dorm areas, classrooms, hallways, offices, and lounge areas. Outdated and inefficient lighting sources such as T12 fluorescent, metal halide, and halogen incandescent were found throughout many of these areas. These fixtures were retrofitted or replaced with T8 or T5 fluorescent, compact fluorescent, or LED technology. Automatic controls were added in many areas including both ceiling and wall-switch occupancy sensors, as well as timer switches, and photocells in select areas. Many areas required switching adjustments or alterations due to room partitioning. Careful consideration was taken to improve the existing design and to ensure occupant satisfaction.

Emphasis was placed on retrofitting fixtures in order to maximize energy savings for a lower cost than installing new replacement fixtures. Furthermore, this helped to reduce the amount of material waste generated from the project.



Sculpture Studio Before



Sculpture Studio After

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