

Education

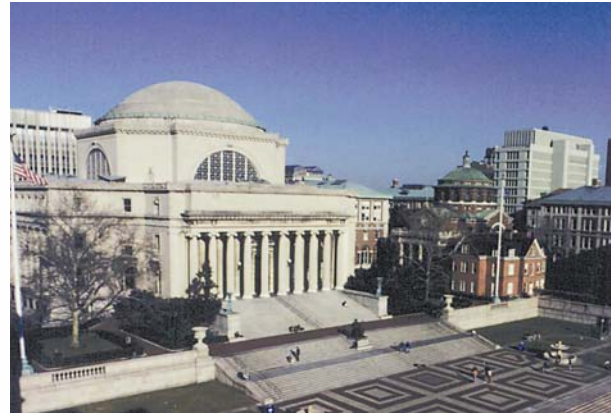
Columbia University New York, NY

Project Cost: \$9.5 million

Annual Cost Savings: \$2.75 million

Facility Description: 44 buildings on Morningside Campus, about 6 million square feet and 5 buildings on Health Sciences Campus, about 2 million square feet

Contract Term: 10-year Energy Savings Performance Contracts (ESPC) and 5-year Water Conservation Performance Contract



Columbia University is saving more than \$2.7 million each year because of NORESKO's energy and water conservation measures in 49 buildings at the Morningside and health Sciences campuses. The \$9.5 million lighting retrofit and water conservation programs, resulting in the replacement of 65,000 lighting fixtures and 1,400 toilets, were completed with no capital investment by the university and minimal disruption of classes.

The financing package for this non-recourse shared savings agreement was arranged by NORESKO. NORESKO also worked with the university to secure incentives from the local utility and municipal water companies.

Upon completing a detailed, campus-wide energy and water conservation audit, the measures subsequently installed by NORESKO during the Winter of 1997 more specifically included:

- Designing a lighting plan to bring the lighting up to university standards, maximize energy conservation and qualify for incentives from the local utility; purchasing and installing more than 65,000 new fixtures.
- Facilitating quality control and ensuring user satisfaction by installing sample lighting fixtures for pre-testing at each site prior to complete installation.
- Implementing water conservation measures that included replacing 1,400 5-gallon-per-flush toilets with 1.6-gallon models and installing low-flow showerheads in selected locations.

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESKO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel.



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