



Higher Education

Thomas Jefferson University

Philadelphia, Pennsylvania



HIGHLIGHTS

- Project cost: \$3.4 million
- Financed through CEPS master energy services agreement
- 20 different measures in eight buildings

CUSTOMER PROFILE

Founded in 1824, Thomas Jefferson University is an academic health center located in Philadelphia, Pennsylvania. It consists of Jefferson Medical College, the Jefferson College of Graduate Studies, the Jefferson College of Health Professions and associated university services. Its singular mission is to serve society through contributions to the maintenance and enhancement of people's health and well-being. The university seeks to pursue that mission through the three interdependent activities of medical research, health services, and the education of physicians, health professionals and scientists in related disciplines.

PROJECT DESCRIPTION

Faced with increasing energy costs at its downtown Philadelphia campus, Thomas Jefferson University selected Constellation Energy Projects & Services Group (CEPS) to identify, coordinate and implement facility improvements that would significantly reduce energy expenses. Through a master energy services agreement, CEPS audited energy systems and practices and made recommendations for a multiphase improvement plan to upgrade energy systems on the campus.

The projects involved more than 20 individual initiatives at eight different buildings and at various other points across campus.

continued

TECHNICAL HIGHLIGHTS

- 40,000 T8 lamps, 19,000 electronic ballasts, 3,300 compact fluorescent lamps, 950 LED exit signs and 1,000 new lighting fixtures
- 500 venturi nozzle steam traps
- 200 removable thermal blankets applied to steam and hot water valves and fittings
- 220 additional control points added to existing Siemens energy management system
- 11 variable speed drives totaling 475 hp
- 2 chilled water coils, rated for 365,000 cfm combined delivering 1,650 tons of cooling, replacing old coils
- Advanced metering system monitoring 100 electric and steam meters

Activities included:

- Replacing lighting in campus buildings
- Installing metering information systems
- Placing variable speed drives on fans
- Expanding automated energy management and control systems
- Instituting steam conservation measures

These improvements are helping the university use energy more efficiently, reduce energy costs and increase the comfort for students, faculty and staff.

FINANCING

CEPS facilitated financing for the projects via their master energy services agreement, allowing for project costs to be paid from savings realized from the upgrades.

CONTACT INFORMATION

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Constellation Energy Projects & Services Group is a full-service energy consultant, providing customized energy solutions exclusively to government and large commercial and industrial customers. Applying superior energy knowledge, engineering expertise, new technologies and proven procurement mechanisms to a variety of energy challenges, Constellation Energy Projects & Services Group serves clients with single and multiple locations throughout North America. The company's extensive array of products and services—utility infrastructure outsourcing (electricity, chilled water, heating), mechanical/electrical upgrades, utility data mining, and performance contracting—are all designed to increase energy efficiency, reliability, cost-effectiveness and savings. Its Constellation Building Systems division provides services that include building control systems, mechanical construction and equipment retrofits.

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