

St. Lawrence College's renewal program focused on over \$6.6 million in comprehensive energy and facility renewal projects.



Energy Reduction and Facility Renewal Program

St. Lawrence College's renewal program began in 2006 and focused on over \$6.6 million in comprehensive energy and facility renewal projects. These measures were designed to cut energy costs and improve facility conditions for students and staff at the three campus locations – Kingston, Brockville and Cornwall. The project required careful planning as to not disrupt classes and the college administration functions. Completed in 2009, the project is based on an energy performance contract model with guaranteed savings.

Project Highlights

- Contract Value: \$6,625,000
- Total Square Footage: 983, 000 sq. ft.
- Project Payback: 96 months (including client cash injections)

Annual Project Savings

- Savings Achieved: \$564,000 per year
- Greenhouse gas reductions: 1,371 tonnes (the equivalent of saving 277 trees or taking 380 cars off the road)

Project Measures

- VAV conversion on two campuses
- New Chillers on two campuses (including the replacement of the 40 year old chiller on the Kingston campus)
- DHW system replacements
- New lighting systems utilizing high efficiency technology
- Classroom occupancy sensors for both lighting and ventilation control
- Fire alarm upgrades on two campuses
- New heating plants on the three campuses
- New compressed air system in Kingston central plant
- Heat recovery for a Kingston campus lab
- Remote sub-metering
- New automation system
- Re-commissioning of systems
- Repair of wind turbine on Cornwall campus

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