

The project completed at the headquarters of the Department of Foreign Affairs and International Trade (DFAIT) was another successful FBI Program for Public Works and Government Services Canada (PWGSC).



Lester B. Pearson Building

## Energy Savings Program

The facility's original mechanical system design resulted in high energy costs, due to the amount of reheating needed for the building's occupants. The retrofits addressed the problem through a ventilation system upgrade that created defined heating zones. In addition, the facility adopted a new building automation strategy to provide better control of space temperatures.

The project resulted in a reduction in utility costs of over \$993,000 per year, a 34% improvement for the department. Other renewal projects included enhanced building controls, new isolation valves in the plumbing system, electrical upgrades and safety measures, and system recommissioning.

## Project Highlights

- Project Value: \$5.1 million
- Total Square Metres: 118,000
- Project Payback: 8 years
- Reduction in Utility Costs: 34%

## Project Measures

- Comprehensive lighting redesign
- Installation of new lighting controls
- Building Automation System upgrade

- to a Facilities Management System
- Water conservation and plumbing renewal
- Building cooling system modifications
- Various other ventilation system upgrades
- Building envelope upgrades
- Power quality and sub-metering measures
- Training

## Annual Project Savings

- Projected Savings: \$625,766
- Actual Utility Savings: \$993,000 (over-performed by 59%)
- Energy Savings: 17,244,242 ekWh
- Greenhouse Gas Reduction: 4,702 tonnes
- Guaranteed Savings: Yes

## Project Schedule

Project implementation began in 2000 and was completed in May 2004.

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