

Comprehensive improvements were implemented in the Major General G.R. Pearkes Building, the National Defence Headquarters (NDHQ) in Ottawa.



Major General G.R. Pearkes Building, Ottawa

Energy Savings Program

The program included a significant number of system renewal measures. Some of the renewal measures include new motors, pneumatic system improvements, electrical safety upgrades and wiring changes, and building system recommissioning. As a result of this project, the NDHQ is now enjoying a 43% reduction in utility costs, with a savings of over \$1.23 million per year for the department.

Building Measures

- Comprehensive lighting redesign including daylight harvesting on the perimeter
- Installation of new Building Automation System
- Installation of new lighting control system
- Building ventilation system modifications to original dual duct design and to air distribution box control
- Water conservation and plumbing system renewal
- HVAC upgrades
- Building envelope upgrade
- Power quality and sub-metering measuring
- Training

Project Highlights

- Project Value: \$6.65 million
- Total Square Metres: 100,191
- Project Payback: 8 years
- 43% reduction in utility costs

Annual Projected Savings

- Projected Savings: \$811,814
- Actual Utility Savings: \$1.23 million (Over-performed by 51.5%)
- Energy Savings: 15,513,252 ekWh
- Greenhouse Gas Reduction: 4,243 tonnes
- Guaranteed Savings: Yes

Project Schedule

Project implementation began in 1998 and was completed in March 2000.

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