

The Grace Dart Long-Term Care centre has two long-term care facilities situated in the east of Montreal Island. One has a 256 bed capacity, the other 101 beds.



Grace Dart Long-Term Care Centre

The combined area of the two buildings is 19,000m<sup>2</sup>. In 2004, the total initial energy consumption of the two buildings was 37,394GJ.

### Mandate

**2005 energy savings feasibility study:**

Targeted reduction in annual energy consumption of 17,251GJ for an annual saving of \$223,691.

**Plans and specifications:**

Five areas: automation, ventilation, electricity, plumbing, piping, pre-purchasing, insulation/asbestos.

**Automated energy management:**

Launch, operational optimization of electro-mechanical systems, assistance to local operator, optimization of energy billing (2005-2006)

### Project Length

- Phase I: July 2005 to May 2006
- Phase II: June 2006 to May 2007

### Project Cost

The total cost of the project was \$1,543,313.

### Project Measures

Total centralization of heating and ventilation systems of both buildings.

Elimination of steam boilers in one of the buildings and modifications to the provision of steam to the dishwasher.

Installation of condensation boiler (1 building) and of high-efficiency steam boilers.

VAV conversion of kitchen drainage.

Comfort improvement measure consisting of addition of air conditioning in the solariums and provision of fresh air in the pharmacy.

### Results

A 98% goal of the energy saving was achieved during the first year. The ultimate objective should be achieved and even surpassed in the subsequent years in response to monitoring and automated management measures.

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