

The Montreal Institute of Cardiology and the Centre for preventative medicine (Epic Centre) have undertaken an energy efficiency project in order to reduce energy consumption and maintain comfort levels for facility users.

Mandate

Energy savings feasibility study: Annual estimated energy use reduction of 48 212GJ representing savings of \$485 280 per year.

Drawings and specifications: automation, ventilation, electricity, plumbing, piping, pre-purchasing, insulation/asbestos, lighting.

Work supervision and construction management

Remote energy management: start-up, optimization of electromechanical systems operation, assistance to the local operator, optimization of energy billing.

Length of mandate

- Construction: May 2010 to September 2011
- Remote energy management and energy follow-up: 7 years

Cost

The total cost of the project is estimated at \$6,578,258. Estimated financial incentives of \$182,180.

Particulars

- Geothermal field of 45 wells
- Elimination of steam system - transfer to low temperature hot water system
- Modernization, reconditioning and upgrading of lighting
- Introduction of automated systems or expansion of existing systems
- Optimization of domestic hot water
- Replacement of natural gas boilers with condensation boilers
- Solar pre-heating



Results:

Estimated annual energy savings after implementation of these measures represent a guaranteed value of 47%.

Reference

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