

Jeffery Hale Hospital converts to blue



Jeffery Hale Hospital, Sainte-Foy

Description of the project

The Jeffery Hale Hospital is a public institution which offers a wide variety of primary health care services to the population of the National Capital Region (Greater Québec City Area). The hospital operates a residential and long-term care centre (CHSLD), with complementary missions for hospital centre services, and also offers community (CLSC-type) services in English.

A perfectly natural conversion

In order to reduce its greenhouse gas (GHG) emissions and its energy costs, the Jeffery Hale Hospital decided to replace its obsolete heavy fuel oil equipment by high energy efficiency natural gas appliances.

Why choose natural gas rather than fuel oil?

Natural gas is the cleanest fuel.

It results in:

1. A 31% reduction in greenhouse gases (GHGs).
2. The practical elimination of the atmospheric contaminants responsible for acid rain that are linked to the combustion of heavy fuel oil.
3. Increased energy efficiency.
4. A significant reduction in heating costs related to the high energy efficiency and the low price of natural gas.

Savings generated

Choice of equipment:

Two high efficiency boilers, each with a 1,529,000 Btu capacity rating.

Forecast of average costs saved:

Based on the average prices of heavy fuel oil and natural gas in 2010, the conversion from oil to gas could save the hospital up to \$25,000 a year.

Natural gas is cheaper than oil and electricity in the commercial, industrial and institutional markets.

Cost of natural gas compared with oil and electricity	In 2010	Feb. 2011
Heating oil, (consumption 15,000 m ³)	-25%	-42%
Heavy oil (consumption 100,000 m ³)	-12%	-27%
Electricity (consumption: 400,000 m ³)	-44%	-49%

Environmental impacts

By replacing the heavy fuel oil by natural gas, the Jeffrey Hale Hospital has reduced its greenhouse gas emissions (GHGs) by more than 31%. In concrete terms, that's 600 tonnes of GHGs that will be avoided annually, which is equivalent to permanently removing about 150 cars from the road.