

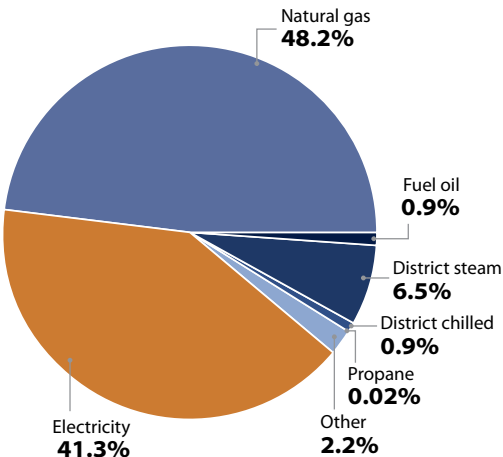
# Energy Benchmarking Data Snapshots for Hospitals



## QUICK FACTS

- **275** hospital buildings
- **11.0 million** m<sup>2</sup> floor area
- **2.6** GJ/m<sup>2</sup> median **site** energy use intensity (EUI)
- **3.6** GJ/m<sup>2</sup> median **source** EUI

Figure 1. Total energy use breakdown



Fuel mix breakdown for hospitals in Portfolio Manager

**ENERGY STAR® Portfolio Manager®** is a tool used to track the energy use of 19,000 buildings in Canada. Energy benchmarking can save on energy costs and reduce environmental impact. This document provides a snapshot of the Canadian data for hospitals entered into Portfolio Manager as of December 2017.

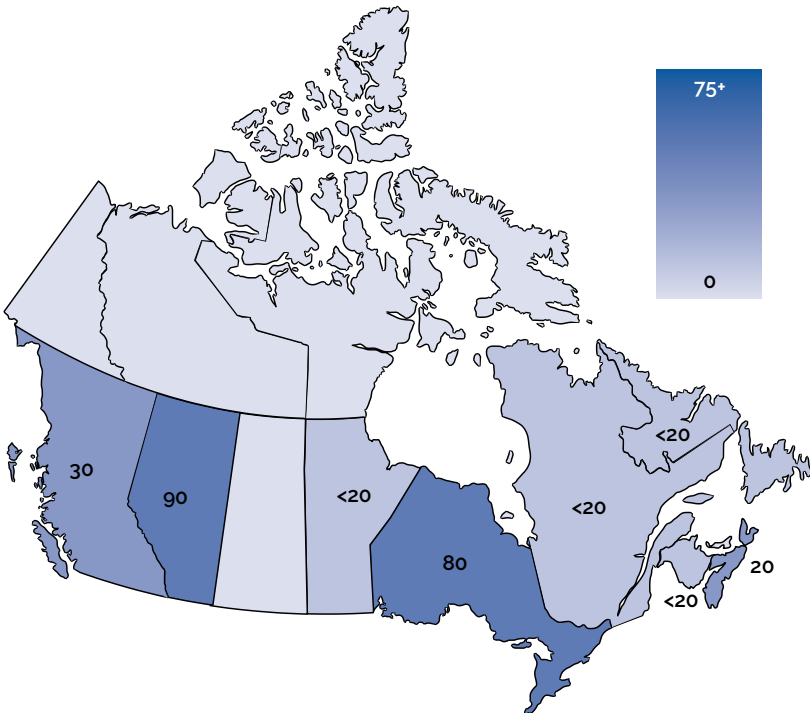
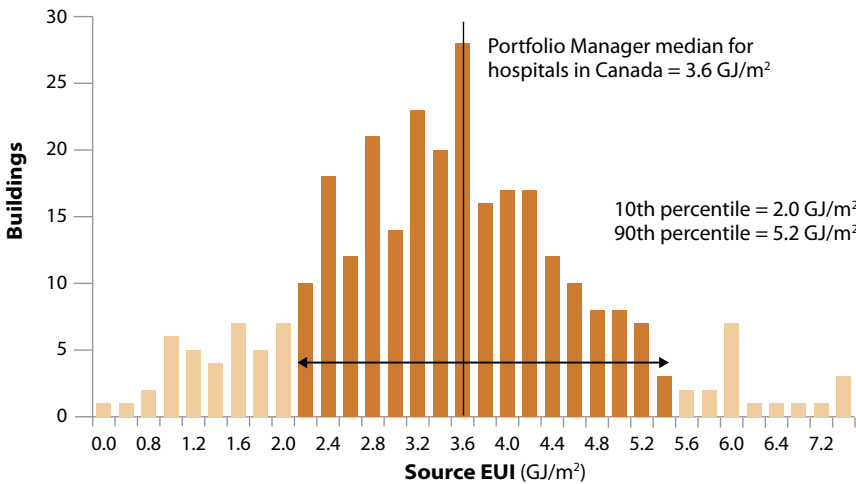


Table 1. Benchmarking by province and territory		
Province or territory	Buildings	Floor area (m <sup>2</sup> )
Alberta	90	2,464,000
British Columbia	30	877,000
Manitoba	<20	–
New Brunswick	<20	–
Newfoundland and Labrador	<20	–
Nova Scotia	20	779,000
Ontario	80	4,111,000
Quebec	<20	–
Total	275	11,000,000
For privacy reasons, data are not provided for provinces and territories with fewer than 20 registered buildings.		
Numbers may not sum to the total indicated because of rounding.		



Figure 2. Source EUI distribution



Because of limited data, trends seen in this snapshot may not be representative of the population.

Table 2. Characteristics of hospitals – range of values			
Building characteristics	10th percentile	Median	90th percentile
Gross floor area (m²)	4,172.0	15,840.0	100,207.0
Heating degree days	3,313.0	4,613.0	5,666.0
Cooling degree days	16.0	92.0	304.0
Workers on the main shift density	0.9	1.4	1.9
Licensed beds density	0.3	0.7	0.8

Figure 3. Distribution of floor area and buildings

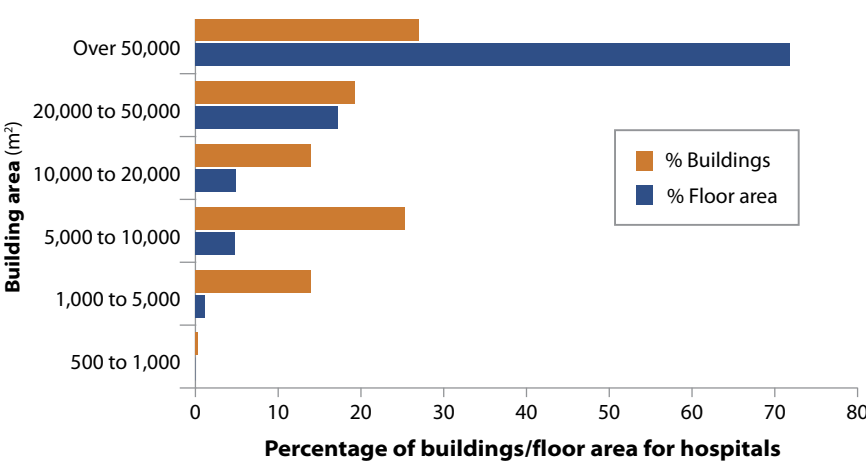
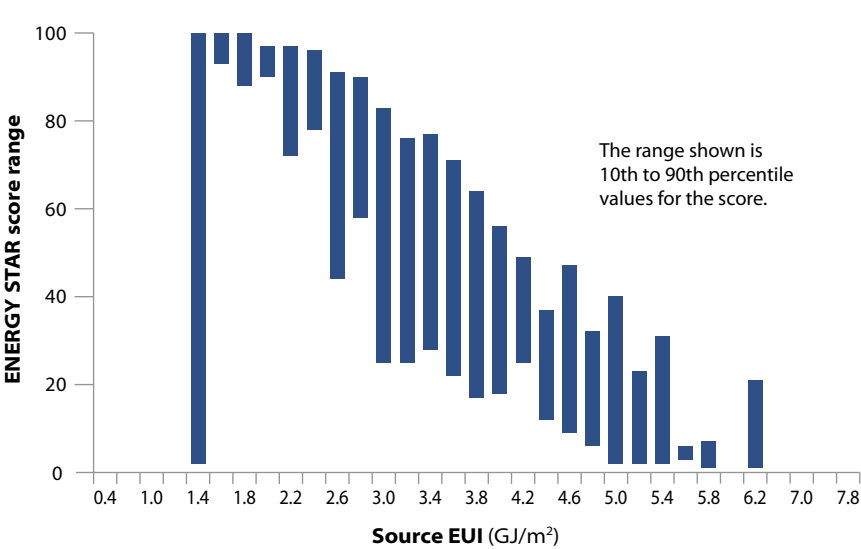


Figure 4. ENERGY STAR score range – hospitals



Because of limited data, trends seen in this snapshot may not be representative of the population.

Source EUI distribution

The median source EUI for hospitals in ENERGY STAR Portfolio Manager is 3.6 GJ/m².

Characteristics

The buildings in Table 2 represent 5.1% of the floor area and 1.5% of the buildings registered in Portfolio Manager in Canada.

Distribution of floor area and buildings

Figure 3 shows that larger buildings represent a relatively small portion of the number of buildings but account for about 70% of the floor area benchmarked for hospitals in Portfolio Manager. The median gross floor area is 15,840 m².

ENERGY STAR score ranges

Figure 4 shows the range (10th to 90th percentile) of ENERGY STAR scores given source EUI. At the median source EUI of 3.6 GJ/m², the range of ENERGY STAR scores was 22 to 71.

METRICS AND ACRONYMS

ENERGY USE INTENSITY (EUI)

EUI is the energy use per square foot at a property (energy divided by square foot). EUI enables you to compare different size buildings.

SITE ENERGY VERSUS SOURCE ENERGY

There are two ways of measuring energy: at the site and at the source.

**SITE ENERGY** is the simplest way to measure energy because it accounts for only the energy your property uses, as measured by your energy meters. The usage that appears on your utility bills is a site energy measurement.

**SOURCE ENERGY** measures not only the energy used by your property, but also accounts for energy losses incurred during the production, transmission and delivery of energy to your property. Source energy is a more accurate measurement of the energy actually required to run your building.

ENERGY STAR Portfolio Manager uses **source energy**. This is the most equitable unit of evaluation, which enables a complete assessment of building-level energy efficiency. For more information, see the **ENERGY STAR Portfolio Manager Technical Reference: Source Energy**.

The data is self-reported and has been filtered to exclude outliers, buildings with less than a full year of consumption data and test cases. Buildings registered in Portfolio Manager do not represent a randomly selected sample and are not the basis for the ENERGY STAR score.

For more information on ENERGY STAR Portfolio Manager, contact Natural Resources Canada at [nrcan.buildings-batiments.nrcan@canada.ca](mailto:nrcan.buildings-batiments.nrcan@canada.ca).

