BUILDING BENCHMARK BC

Unpacking the Building Performance Scorecard

Building Benchmark BC participants gain unprecedented visibility into each submitted property's energy and emissions. It's all captured in a Scorecard like this one.

Here's how it works: When a property owner or manager submits their building's energy and emissions data to Building Benchmark BC, they receive back a performance scorecard. Here we offer a scorecard of one building chosen at random from the full collection of 1,163 properties. We've removed identifying info, and highlighted some of the information it provides.

Learn more and explore the database at **www.buildingbenchmarkbc.ca/data**

Each building gets its own scorecard. The basics appear up here.

The "key stats" give you a snapshot of performance. This building improved its GHGi, but poorly compared to its peers.

BUILDING BENCHMARK BC grid by open

Building Name
555 Main St.
Reporting Period: **2020 Calendar Year**
Property Type: **Office**
Square Footage: **17,578m²**
Year Built: **1968**

85	Number of properties of the same type as yours.
-17%	Your trend in GHGi since the previous year. (greenhouse gas emission intensity, $kgCO_2e/m^2$)
68 / 84	Your rank in GHGi compared to the same property type. (where 1st is the lowest emitter)
525 / 854	Your rank in GHGi compared to the whole Building Benchmark BC dataset.

Year-Over-Year

A snapshot of your yearly performance metrics compared to buildings of the same property type, including your recent trend. Note for percentiles: a high percentile means "good" performance and 100% means "best performer".

	2019	2020	Since 2019*
GHGI Greenhouse Gas Intensity	34.2 $kgCO_2e/m^2$ 11th percentile	**28.4** $kgCO_2e/m^2$ 20th percentile	-17% avg building -2%
GHG Total Greenhouse Gas	604.4 tCO_2e 5th percentile	**498.7** tCO_2e 10th percentile	-17% avg building -2%
Site EUI Site Energy Use Intensity	308.4 kWh/m² 15th percentile	**261.0** kWh/m² 23rd percentile	-15% avg building -8%
ENERGY STAR	56 39th percentile	**66** 36th percentile	+18% avg building +12%

Energy use intensity is an indicator of energy efficiency, expressed as the energy consumed by the building in a year, divided by its total area.

How did you do compared to last year? Find out here...

... and see how that compares to your class.

Visualize how your building stacks up against the group on greenhouse gas emissions and energy.

Current Year Benchmarks

For the most recent year of data, a comparison of your building performance (the black line) against buildings of the same property type.

GHG Emissions Intensity 68 out of 84 properties
28 $kgCO_2e/m^2$

Total GHG Emissions 77 out of 84 properties
499 tCO_2e

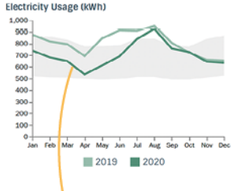
Site EUI 66 out of 84 properties
261 kWh/m²

Energy Star Score 51 out of 78 properties
66

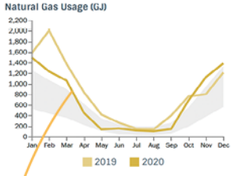
Monthly Performance

A comparison of your building's monthly energy consumption, by energy type, year-over-year. Note that the data here is "raw", i.e., it represents billed data, and is not weather normalized.

Electricity Usage (kWh)



Natural Gas Usage (GJ)



See your monthly performance...

... and the average performance of the group (the grey band).

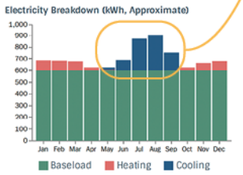
Ever wonder where your energy goes? Find out if it's baseload, heating, or cooling.

Here, electricity consumption bumps up in the warmer months, as active cooling equipment kicks in.

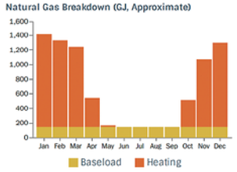
Energy Load Breakdown

A breakdown of your building's monthly energy consumption, by energy type, into its main components: heating load, cooling load, and baseload. The data is modelled based on this year's performance.

Electricity Breakdown (kWh, Approximate)



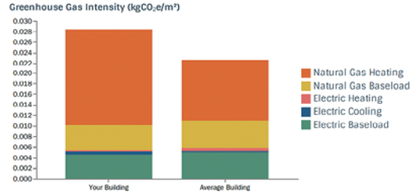
Natural Gas Breakdown (GJ, Approximate)



Greenhouse Gas Intensity Breakdown by End-Use

A breakdown of the total greenhouse gas intensity of your building by end-use. In other words, this graph shows you which end-use(s) are the main culprits for GHGs at your property.

Greenhouse Gas Intensity ($kgCO_2e/m^2$)



Need some motivation? We do the math on your annual energy cost savings and carbon savings (if you were to achieve the top quartile of performance)

How can you improve?

This section contains insights and recommendations based on comparing each of your energy loads (heating, cooling, baseload) to those from the same property type.

Heating Energy
15th percentile
Reduce: 210 tCO_2e/yr
Save: $55,438.752/yr
If you achieved the **75th percentile** (better than 75% of other buildings), you could save **$55,438.752** in yearly energy costs and reduce your yearly GHGs by **210 tCO_2e**.

Electric Baseload
43rd percentile
Reduce: 16 tCO_2e/yr
Save: $49,342.056/yr
If you achieved the **75th percentile** (better than 75% of other buildings), you could save **$49,342.056** in yearly energy costs and reduce your yearly GHGs by **16 tCO_2e**.

Natural Gas Baseload
36th percentile
Reduce: 65 tCO_2e/yr
Save: $14,244.928/yr
If you achieved the **75th percentile** (better than 75% of other buildings), you could save **$14,244.928** in yearly energy costs and reduce your yearly GHGs by **65 tCO_2e**.

Electrical Cooling
6th percentile
Reduce: 6 tCO_2e/yr
Save: $18,056.288/yr
If you achieved the **75th percentile** (better than 75% of other buildings), you could save **$18,056.288** in yearly energy costs and reduce your yearly GHGs by **6 tCO_2e**.

Visit BetterBuildingsBC.ca for more information about funding and capital incentives available to improve the performance of your building.

Natural gas baseload is typically due to domestic hot water use throughout the year.