



10th
Annual

How energy and carbon intensive is your advanced education institution?

Compare with others in British Columbia

10th Annual PUMA Benchmarking Summary

For BC Advanced Education: Calendar Year 2022

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PUMA Utility Monitoring Inc.

Scope

The sites included in the benchmarks are from the following BC Advanced Education Institutions that subscribed to monthly PUMA utility monitoring software and services during the calendar year 2022.



About PUMA

PUMA comprises a combination of software and services that track over 23,000 electrical, natural gas, water, and other fuel accounts for government, commercial, and institutional customers. Since launching online in 2009, more and more organizations have enlisted PUMA to help track and analyze building energy use.

PUMA is currently used by over 20 Energy Managers, and more than 60 organizations across Canada. Our utility tracking software and services save time and money for owners of multiple properties by turning data into actionable information.

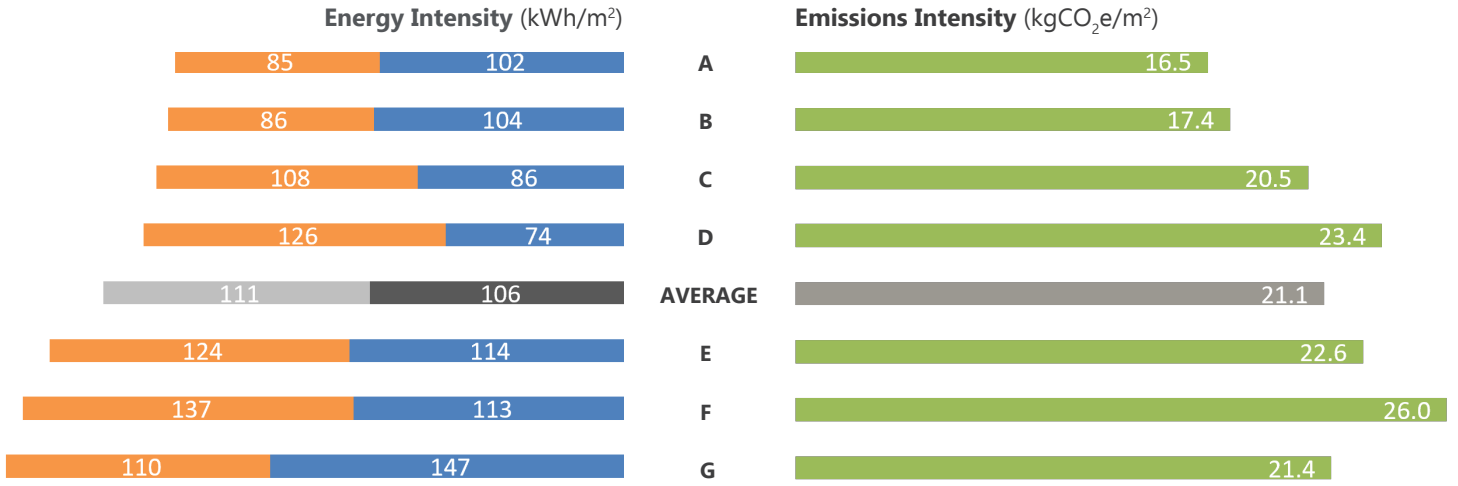
About this Report

Each year the PUMA team puts together a benchmarking report for school districts, advanced education, office buildings and local governments. Based on compiled data from PUMA, this report enables the comparison of similar sites across each sector.

www.pumautilitymonitoring.ca

How **energy and carbon intensive** is your institution?

FOR 7 BC INSTITUTIONS Calendar Year 2022



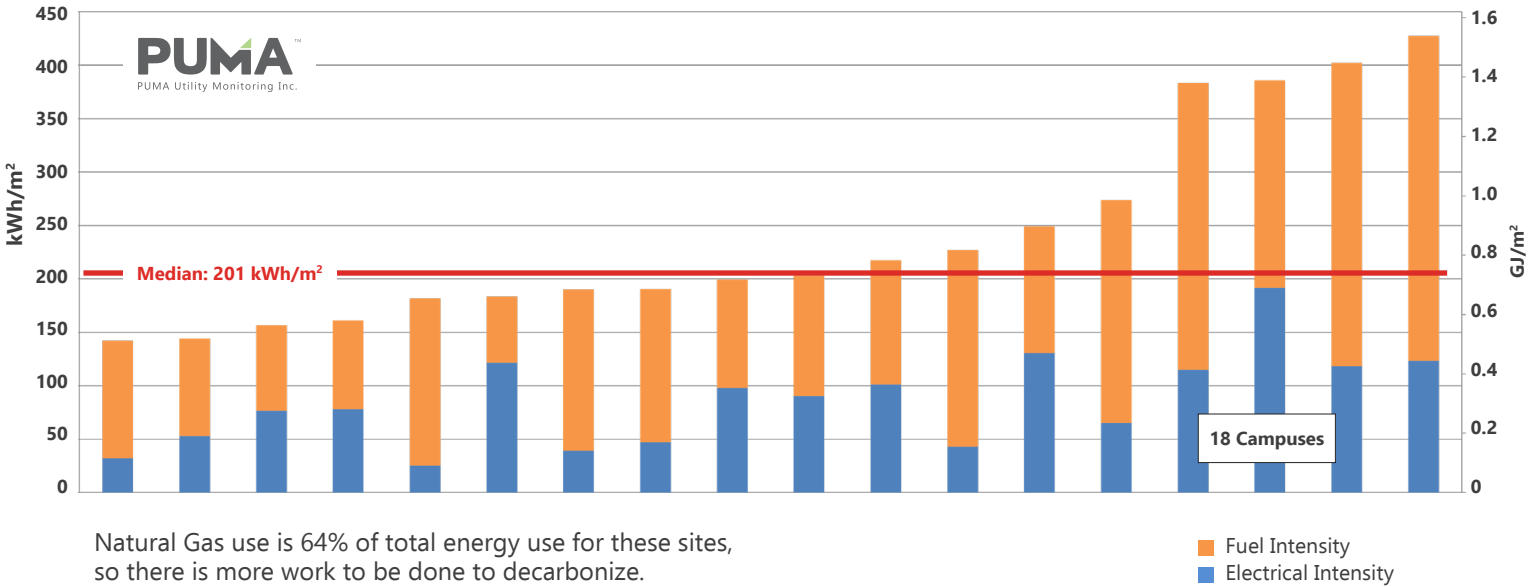
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■ Fuel Intensity
■ Electrical Intensity
■ Emissions Intensity

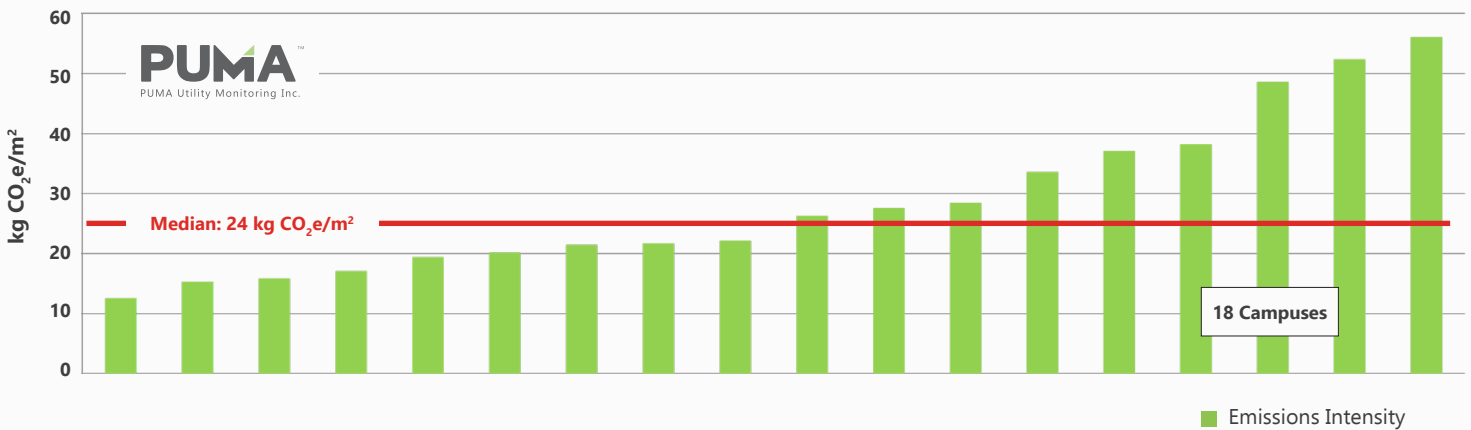


How **energy and carbon intensive** is your institution?

BC SMALL CAMPUS (less than 10,000 m²) EUI Calendar Year 2022

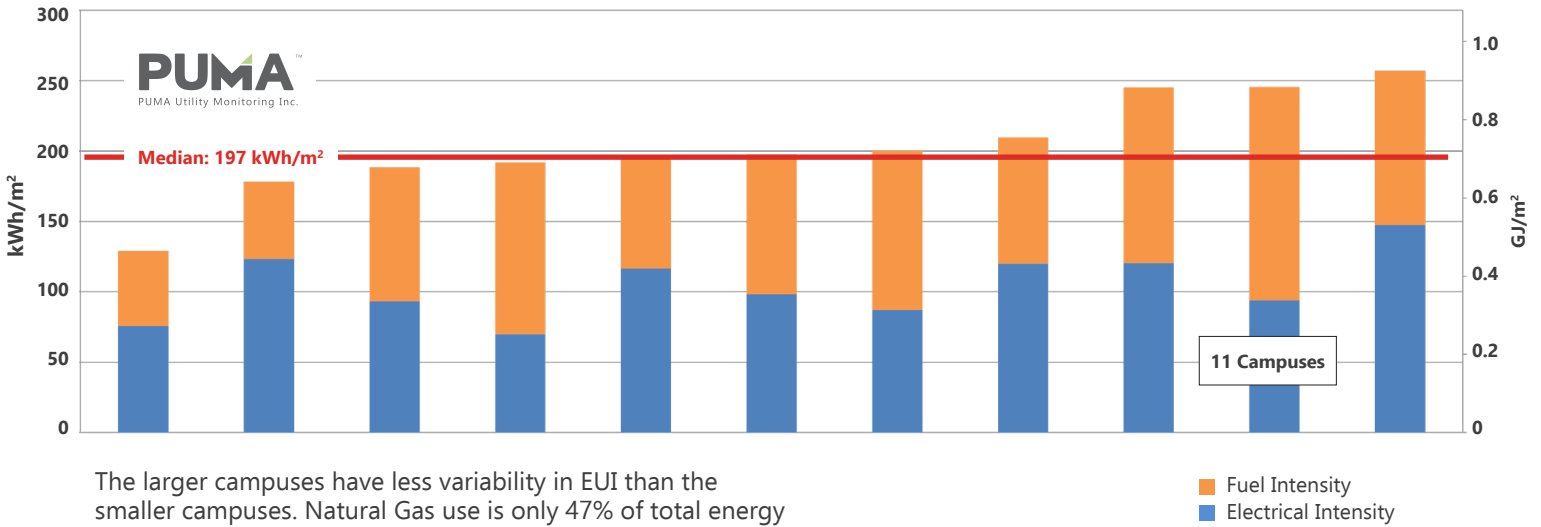


BC SMALL CAMPUS (less than 10,000 m²) GHGi Calendar Year 2022



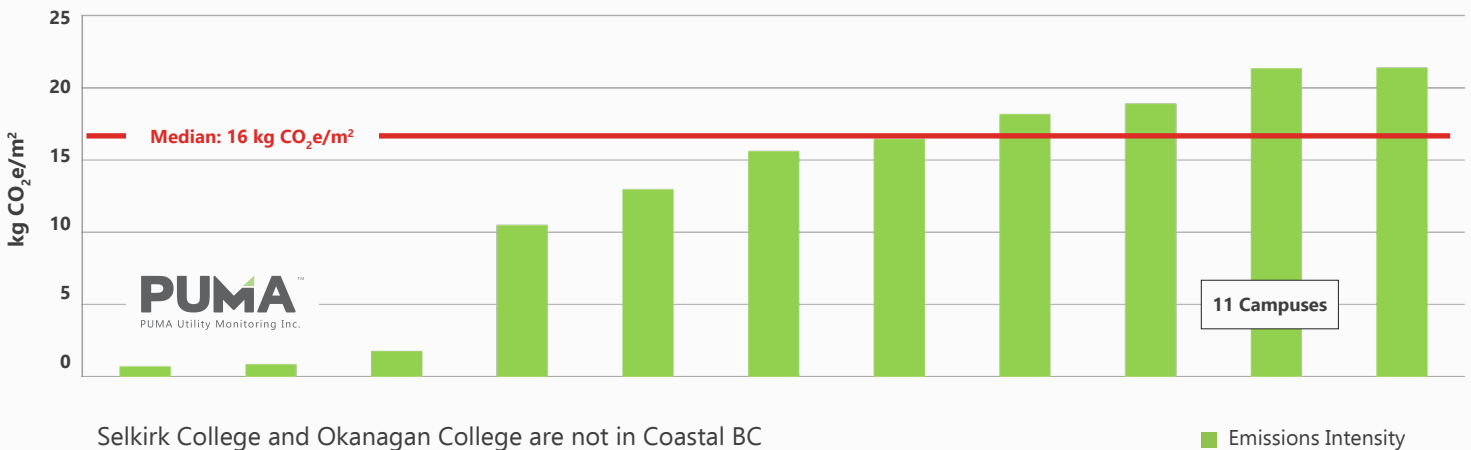
How **energy and carbon intensive** is your institution?

BC LARGE CAMPUS (more than 10,000 m²) EUI Calendar Year 2022



The larger campuses have less variability in EUI than the smaller campuses. Natural Gas use is only 47% of total energy use for the larger campuses – showing greater progress to decarbonization than the smaller campuses.

BC LARGE CAMPUS (more than 10,000 m²) GHGi Calendar Year 2022



Selkirk College and Okanagan College are not in Coastal BC and so may be less comparable to other coastal campuses. We observed that the campus facilities for both colleges are spaced throughout the distributions.

2022 Median Energy Use Intensity Summary

Building Type	Median Energy Use Intensity (EUI)	Median Emissions Intensity (GHGi)	Sample Size
Small Campuses	201 kWh/m ²	24 kg CO ₂ e/m ²	18
Large Campuses	197 kWh/m ²	16 kg CO ₂ e/m ²	11

If a building uses more than the median, it could be a good candidate for energy saving opportunities. If it uses less than the median, it may be a good example of energy efficiency leadership. Looking closely at where a building fits in the distribution may be more informative in many cases.

Weather Data

The figures on the preceding pages are computed without weather or location adjustment for simplicity of comparison and are based on billed energy use. PUMA incorporates local weather data so that weather adjusted savings and weather normalized figures can be easily calculated. Contact us for more details.



PUMATM

PUMA Utility Monitoring Inc.

PUMA is an affordable and effective way to compare the performance of all the buildings in your portfolio, including the ability to normalize for weather.


www.pumautilitymonitoring.ca

Contact us to schedule a free demo:

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 @pumaprism

 @puma-utility-monitoring