Annual PUMA Benchmarking Report

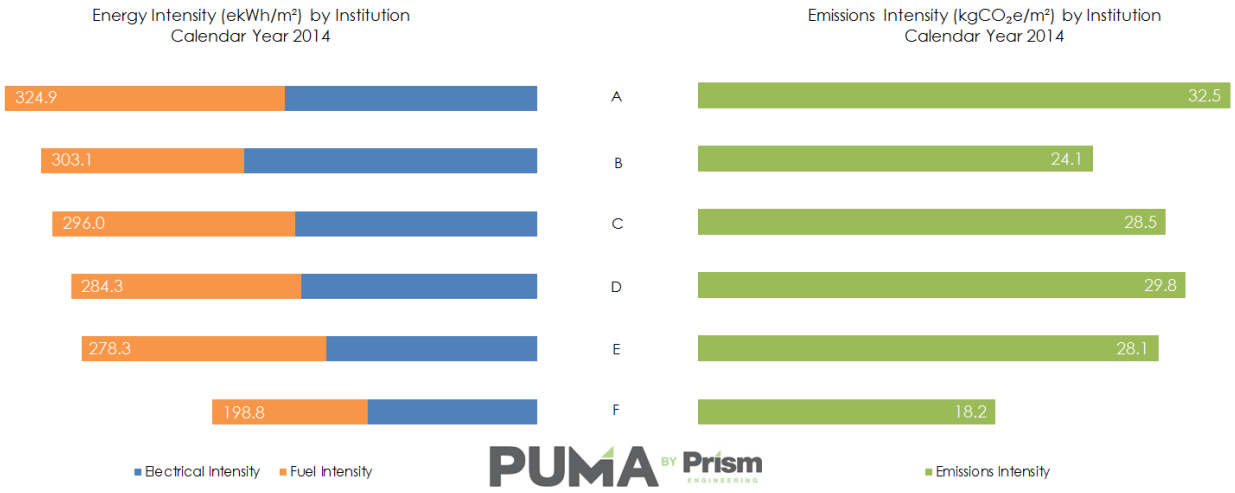
saving you energy

BC Advanced Education: 2014 Calendar Year

PUMA is software & services (SaaS) from Prism Engineering that tracks 15,000 electrical, natural gas, water, and other fuel accounts for government, commercial, and institutional customers. PUMA helps you get a grip on your energy and utility costs.

For Advanced Educational Institutions, like most building owners, a key figure is how much energy a building uses per square metre. This helps building owners & operators know how it compares to similar buildings and answer the question: **Is this building better or worse than average?**

BY INSTITUTION



The institutions (not named in order) are all in a common climactic zone so are compared directly for simplicity.

PUMA also incorporates weather data so that weather adjusted savings and weather normalized figures can be easily calculated. Contact us for more information.

The institutions included in the study are (not listed in order):

- Capilano University
- Vancouver Island University (VIU)
- BC Institute of Technology (BCIT)
- Justice Institute of BC (JIBC)
- Langara College
- Vancouver Community College (VCC)

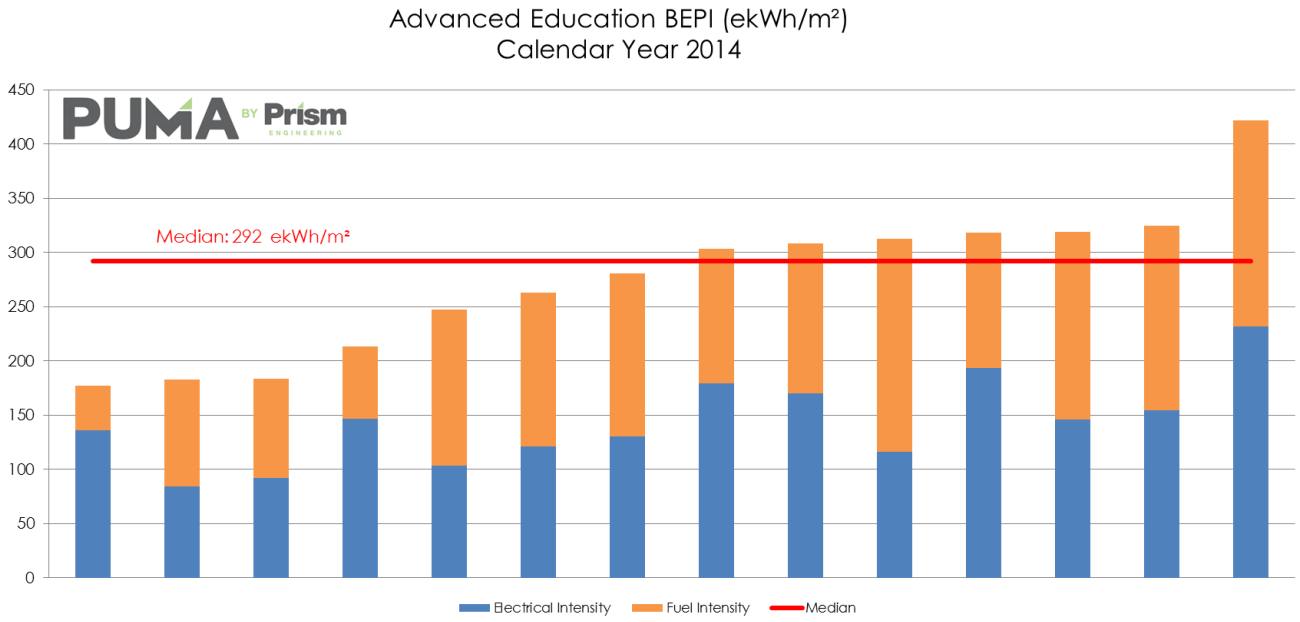
PUMA BY Prism ENGINEERING

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

For more information about PUMA and to schedule a free demonstration, contact Duncan Wilcock:
T: 604.205.5516 E: duncan@prismengineering.com | www.pumautilitymonitoring.com

Here is the overall distribution of the Energy Use Intensity of each site and how it compares with the median.

BY CAMPUS



Convert to GJ/m^2 by multiplying by 0.0036

Annual PUMA Benchmarking Summary

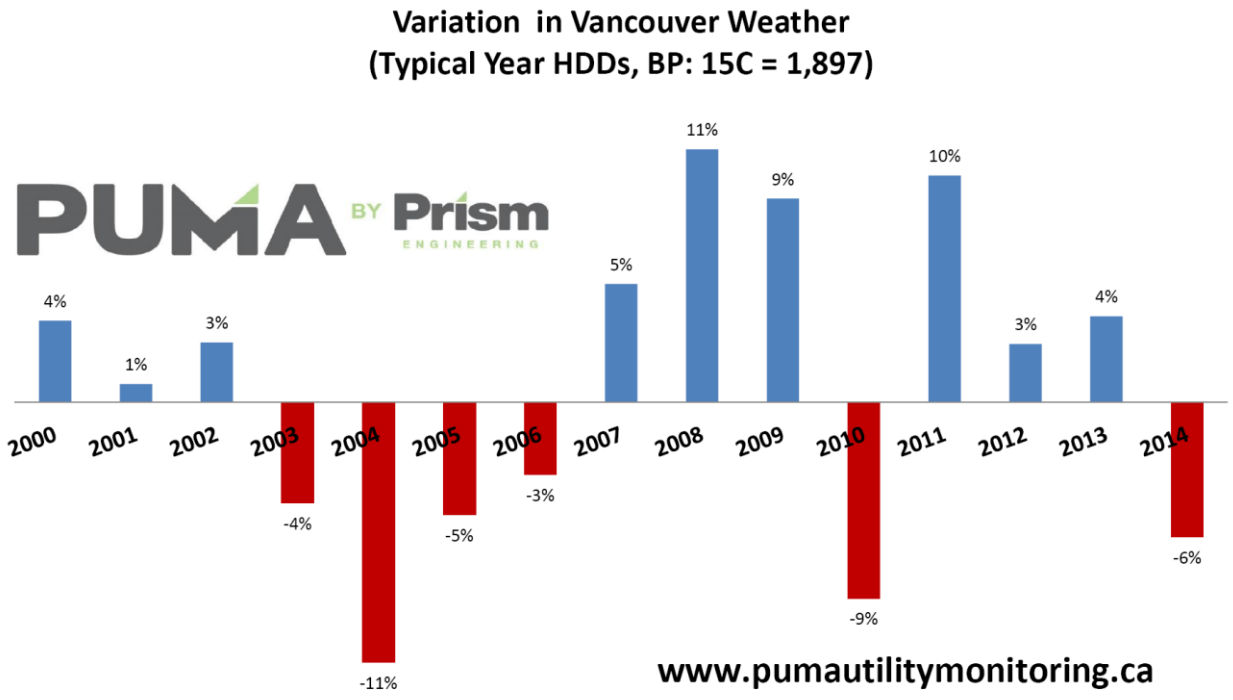
For BC Advanced Education

saving you energy

Comparison of 2014 with 2013 Calendar Year PUMA Benchmarks

There are significant improvements to these benchmarks in 2014 compared to 2013. Our weather variation chart shows that 2013 had 4% more HDDs (was colder) than an average weather year in Vancouver, and the 2014 calendar year had 6% fewer HDDs (was warmer) than an average weather year in Vancouver.

	2013 Calendar Year Median Energy Use per m^2 (EUI)	2014 Calendar Year Median Energy Use per m^2 (EUI)	Change in EUI
Campus Median	**302 ekWh/m^2**	**292 ekWh/m^2**	-4.4%
HDDs Compared to Typical	+4%	-6%	



PUMA incorporates weather data to calculate a weather normalized benchmark figure (EUI).
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