

Annual PUMA Benchmarking Summary



For BC School Districts: 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 school districts, 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?**



These districts 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 details.

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

- SD#41: Burnaby
- SD#44: North Vancouver
- SD#45: West Vancouver
- SD#46: Sunshine Coast
- SD#61: Greater Victoria
- SD#68: Nanaimo-Ladysmith

For Calendar Year 2014 the median energy use (EUI) was:

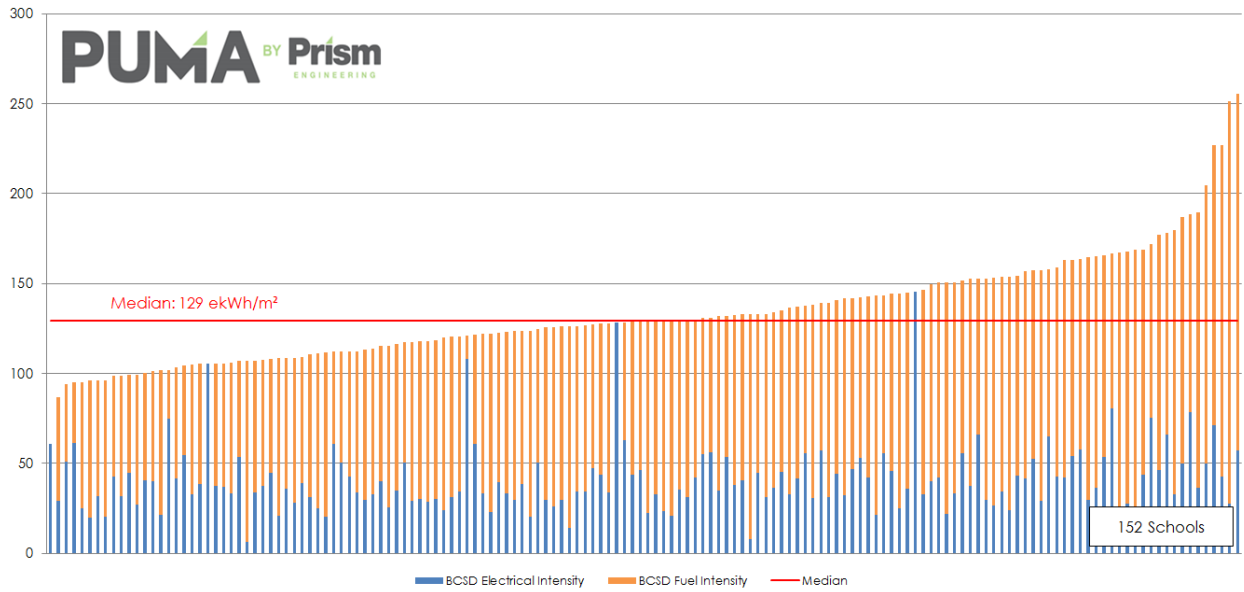
School District Building Type	Median Energy Use per m ² (EUI)	Number of buildings in sample
Elementary	129 ekWh/m ²	n=152
Secondary	133 ekWh/m ²	n=54



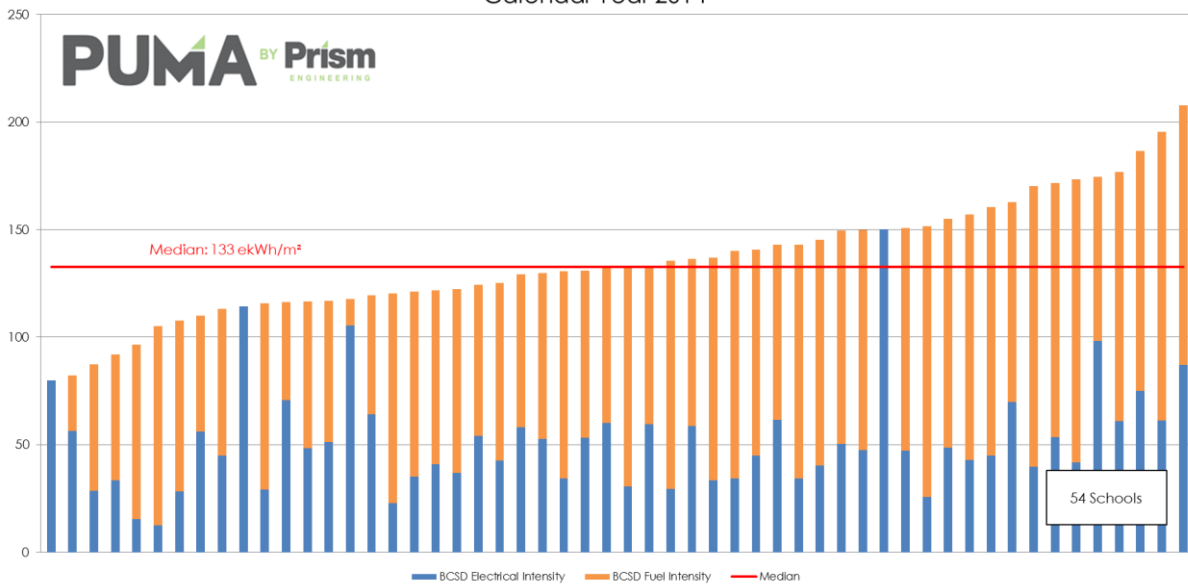
PUMA is an affordable and effective way to compare the performance of all the schools in your district, including the ability to adjust for weather.

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

BC Elementary Schools BEPI (ekWh/m²)
Calendar Year 2014



BC Secondary Schools BEPI (ekWh/m²)
Calendar Year 2014



Convert to GJ/m² by multiplying by 0.0036

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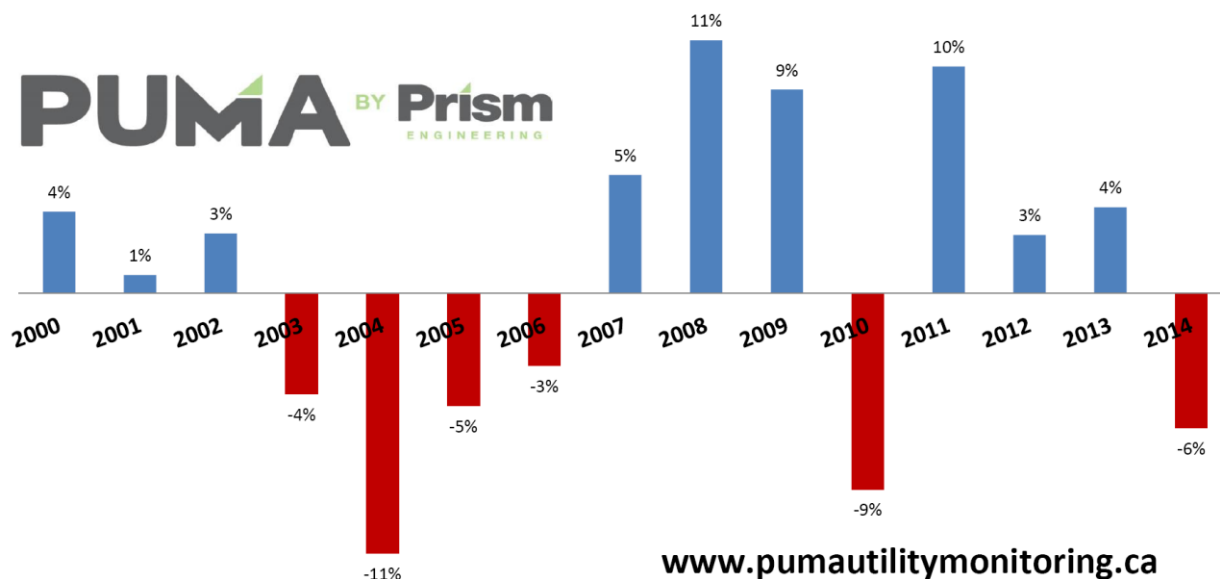


Comparison of 2014 with 2013 Calendar Year PUMA Benchmarks

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.

School District Building Type	2013 Calendar Year Median Energy Use per m ² (EUI)	2014 Calendar Year Median Energy Use per m ² (EUI)	Change in EUI
Elementary	139 kWh/m ²	129 ekWh/m ²	-7%
Secondary	150 ekWh/m ²	133 ekWh/m ²	-11%
HDDs Compared to Typical	+4%	-6%	

Variation in Vancouver Weather
(Typical Year HDDs, BP: 15C = 1,897)



PUMA incorporates weather data to calculate a weather normalized benchmark figure (EUI). Contact Duncan Wilcock at 604.205.5516 & duncan@prismengineering.com for more information about PUMA.

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