

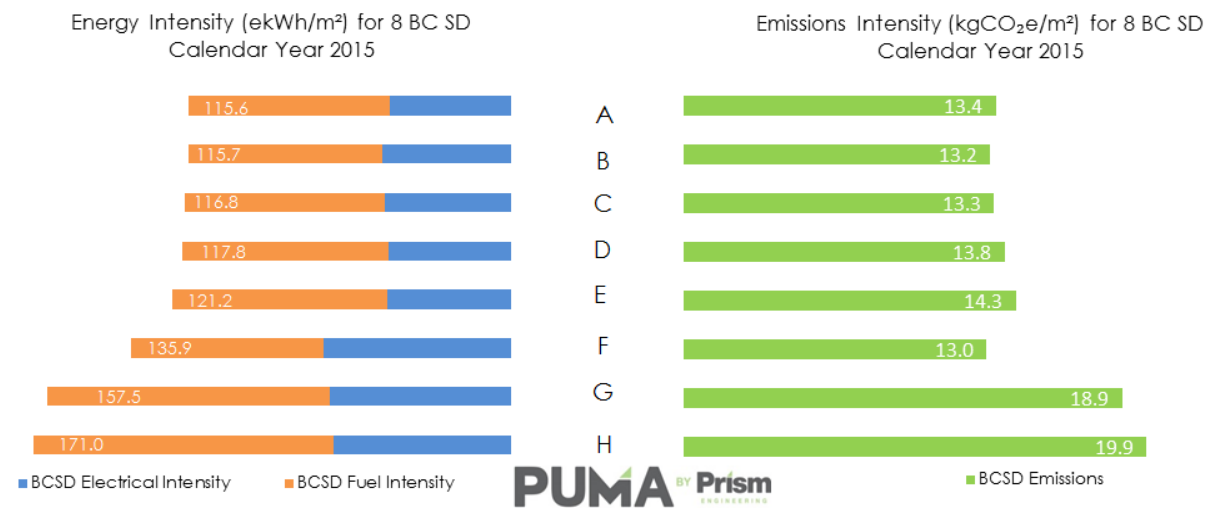
Annual PUMA Benchmarking Summary



For BC School Districts: 2015 Calendar Year

PUMA is software & services 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 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.

For year to year comparisons, PUMA incorporates weather data so that weather adjusted savings and weather normalized figures can be easily calculated. Contact us for more information.

For Calendar Year 2015 the median energy use (EUI) was:

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

- SD#41: Burnaby
- SD#42: Maple Ridge-Pitt Meadows
- SD#43: Coquitlam
- SD#44: North Vancouver
- SD#45: West Vancouver
- SD#46: Sunshine Coast
- SD#61: Greater Victoria
- SD#68: Nanaimo-Ladysmith

School District Building Type	Median Energy Use per m ² (EUI)	Number of buildings in sample
Elementary	122 ekWh/m²	n=182
Secondary	125 ekWh/m²	n=40
Board Offices	177 ekWh/m²	n=7

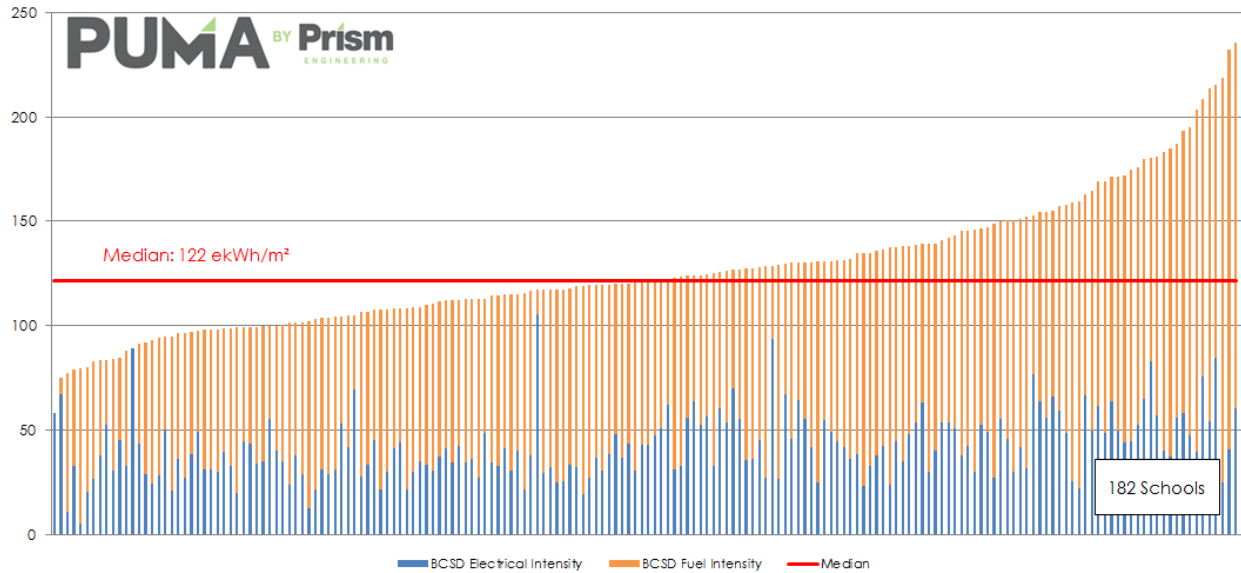
For more information about PUMA and to schedule a free demonstration, contact Duncan Wilcock: T: 604.205.5516 E: duncan@prismengineering.com | www.pumautilitymonitoring.com

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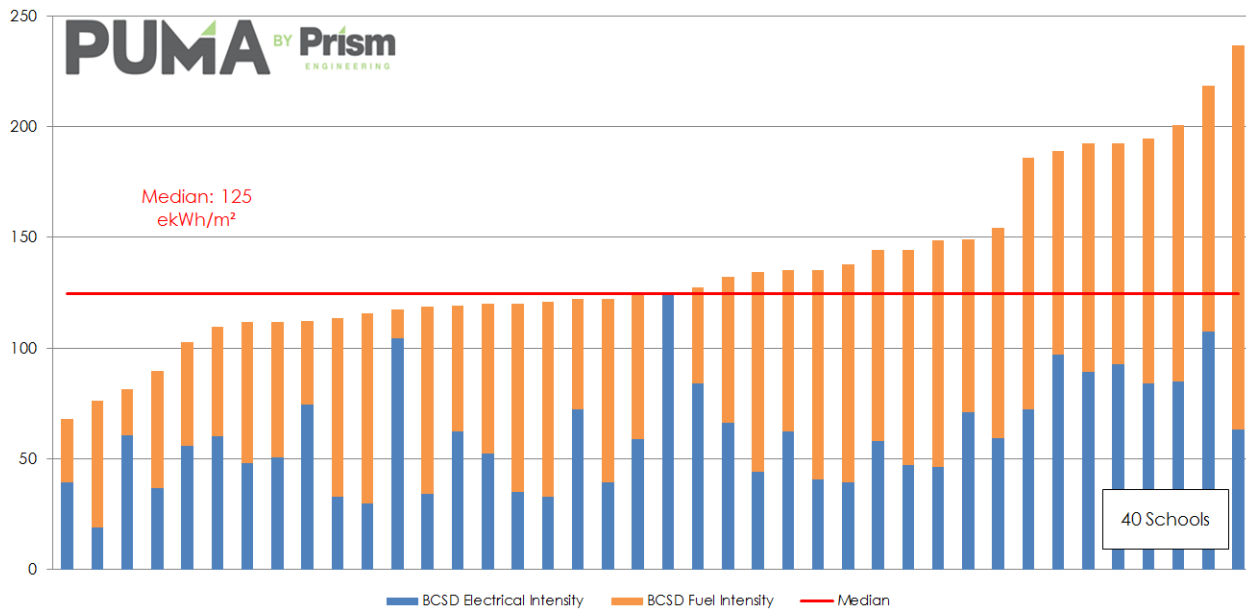
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BC Elementary Schools BEPI (ekWh/m²) Calendar Year 2015



BC Secondary Schools BEPI (ekWh/m²) Calendar Year 2015



Convert to GJ/m² by multiplying by 0.0036

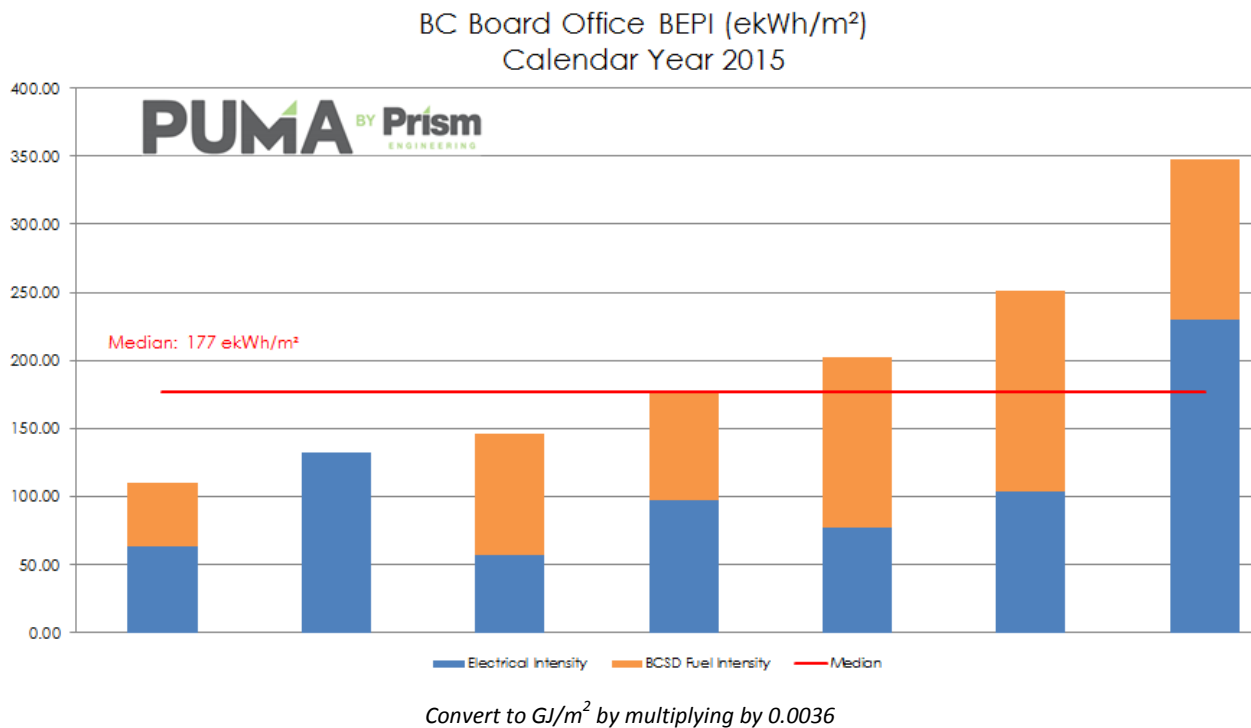
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New for 2015! Board Office Comparison



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.

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For BC School Districts

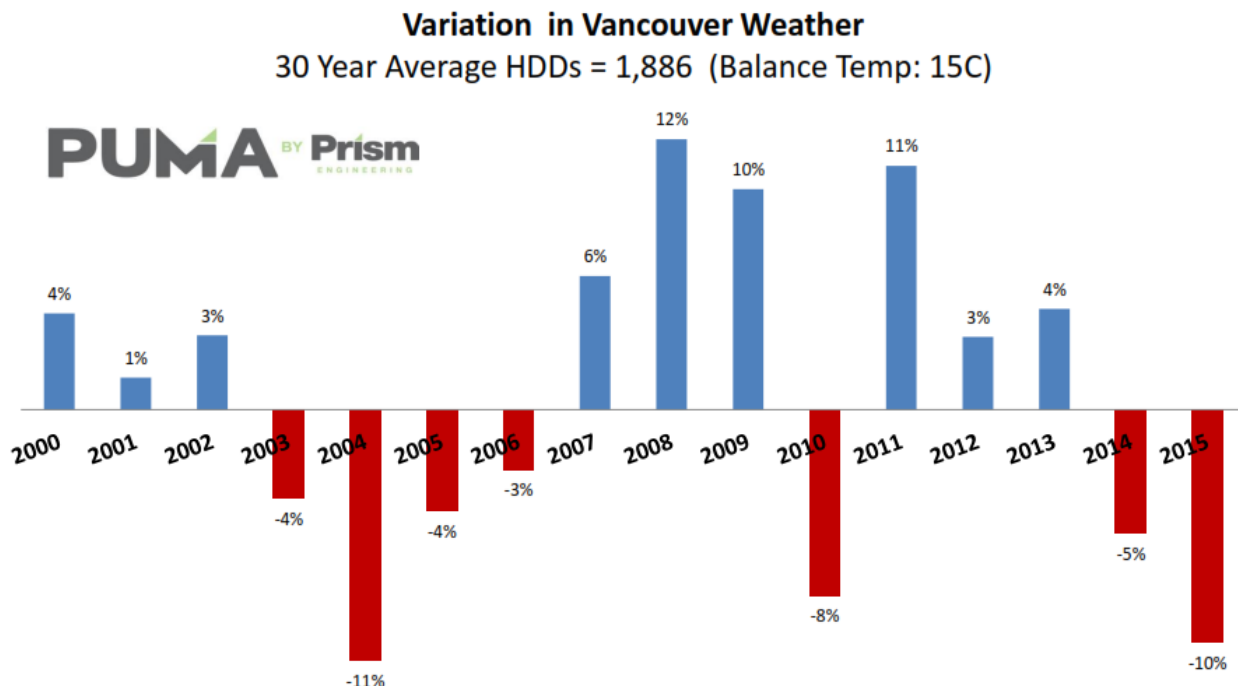


Comparison of 2015 with 2014 Calendar Year PUMA Benchmarks

There are significant improvements to these benchmarks in 2015 compared to 2014. Some - but not all - of the improvement is due to weather, such as for heating loads. The remainder of the improvement is not weather dependent. PUMA incorporates weather data to calculate a weather normalized benchmark figure (EUI) and can help quantify the year to year improvements made in your schools.

Our weather variation chart shows that 2014 had 5% fewer HDDs (was warmer) than an average weather year in Vancouver, and the 2015 calendar year had 10% fewer HDDs (was warmer) than an average weather year in Vancouver.

School District Building Type	2014 Calendar Year Median Energy Use per m ² (EUI)	2015 Calendar Year Median Energy Use per m ² (EUI)	Change in EUI
Elementary	129 kWh/m ²	122 ekWh/m ²	-5%
Secondary	133 ekWh/m ²	125 ekWh/m ²	-6%
Board Office	N/A	177 ekWh/m ²	-
HDDs Compared to Typical	-5%	-10%	



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