How energy intensive are your buildings?

Compare with other municipalities in BC

4TH ANNUAL PUMA **BENCHMARKING SUMMARY**

For BC Municipalities: 2016 Calendar Year

Prism ENGINEERING 25 YEARS

saving you energy

Scope

The sites included in the benchmarks are from the following BC Municipalities that subscribe to monthly PUMA utility monitoring software & services:

About PUMA

PUMA comprises a combination of software and services from Prism Engineering that track over 15,000 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 40 organizations across Canada. Our utility tracking software and services save time and money for owners of multiple properties.

About this Report

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

www.pumautilitymonitoring.com

2016 Median Energy Use Intensity

A summary of the 2016 median energy use (EUI) for the building categories in this report is as follows:

School District Building Type	Median Energy Use per m^2 (EUI)	Number of buildings in sample
Community Buildings	**242 ekWh/m^2**	n=10
Protective Services	**290 ekWh/m^2**	n=14
Civic Buildings	**317 ekWh/m^2**	n=9
Arenas & Rinks	**355 ekWh/m^2**	n=5
Sports Multiplexes	**490 ekWh/m^2**	n=18

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

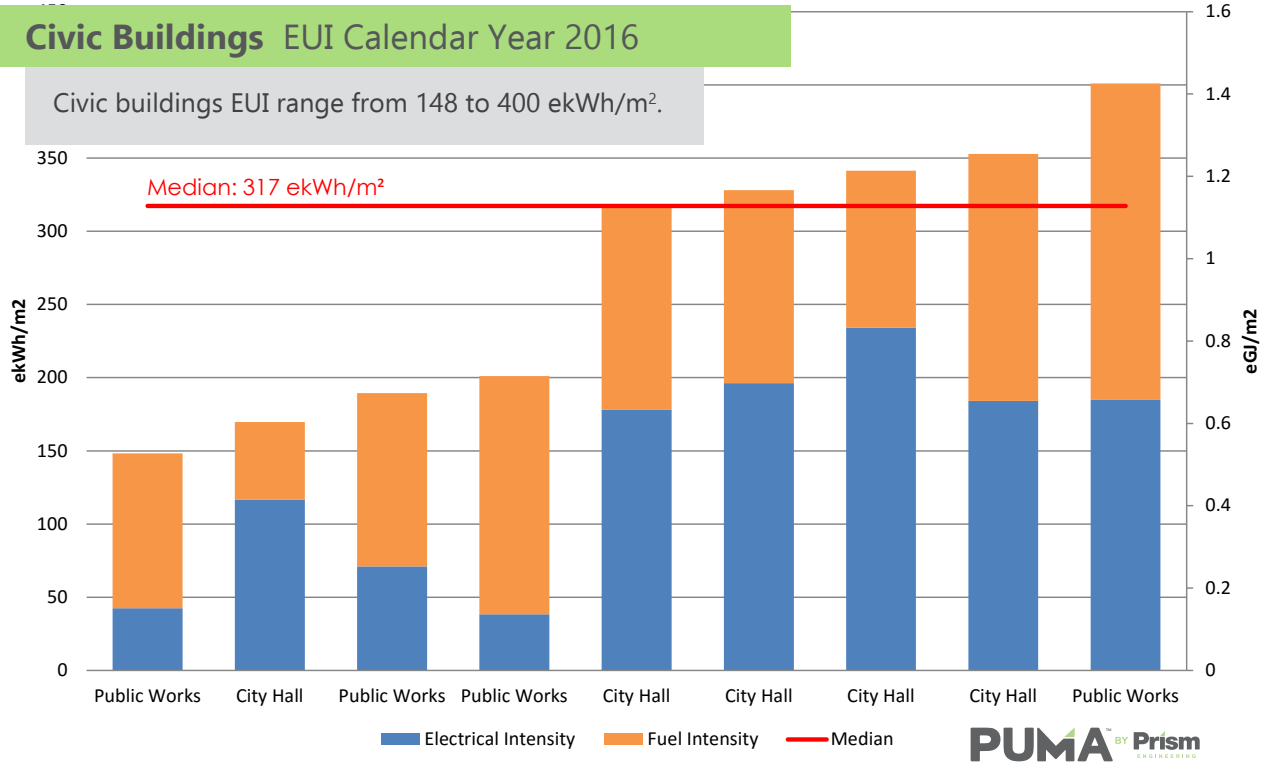
The figures on the following pages are computed without weather or location adjustment for simplicity of comparison and are based on billed energy use. Four of the municipalities are in a common climactic zone, so they are directly comparable.

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

Are the buildings in your municipality better or worse?

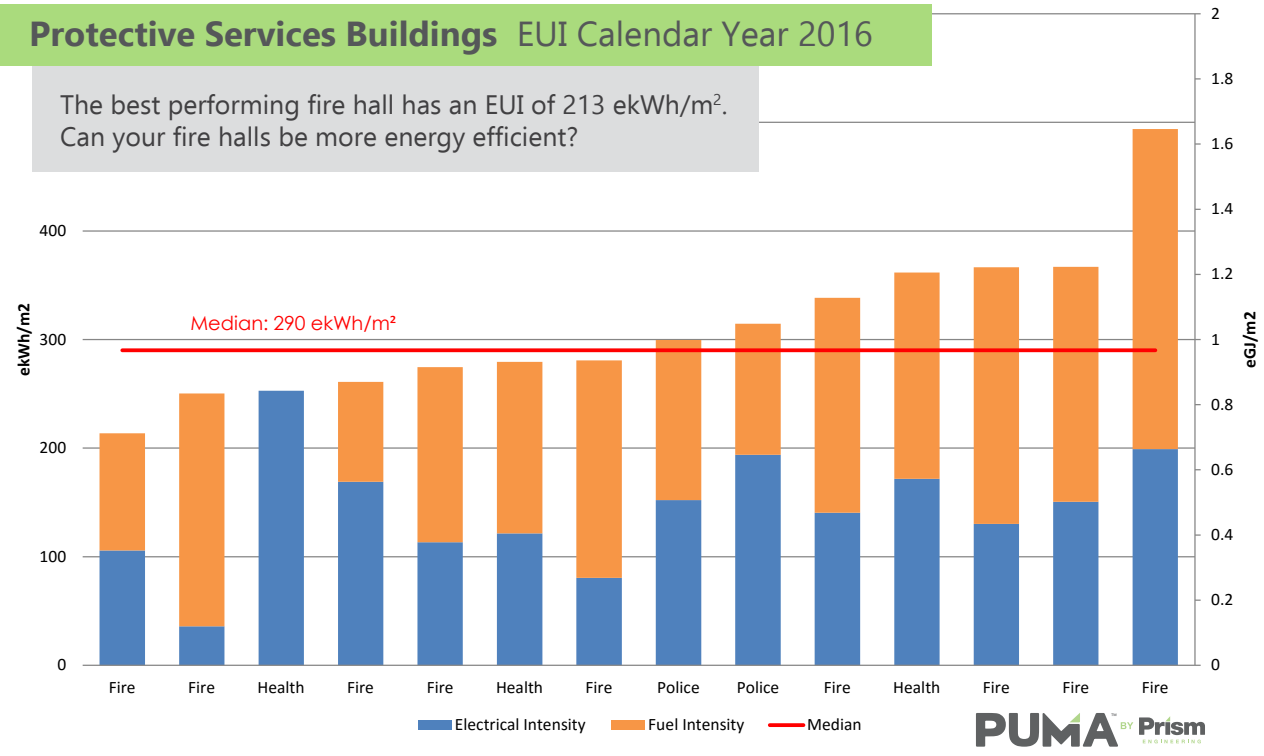
Civic Buildings EUI Calendar Year 2016

Civic buildings EUI range from 148 to 400 ekWh/m².



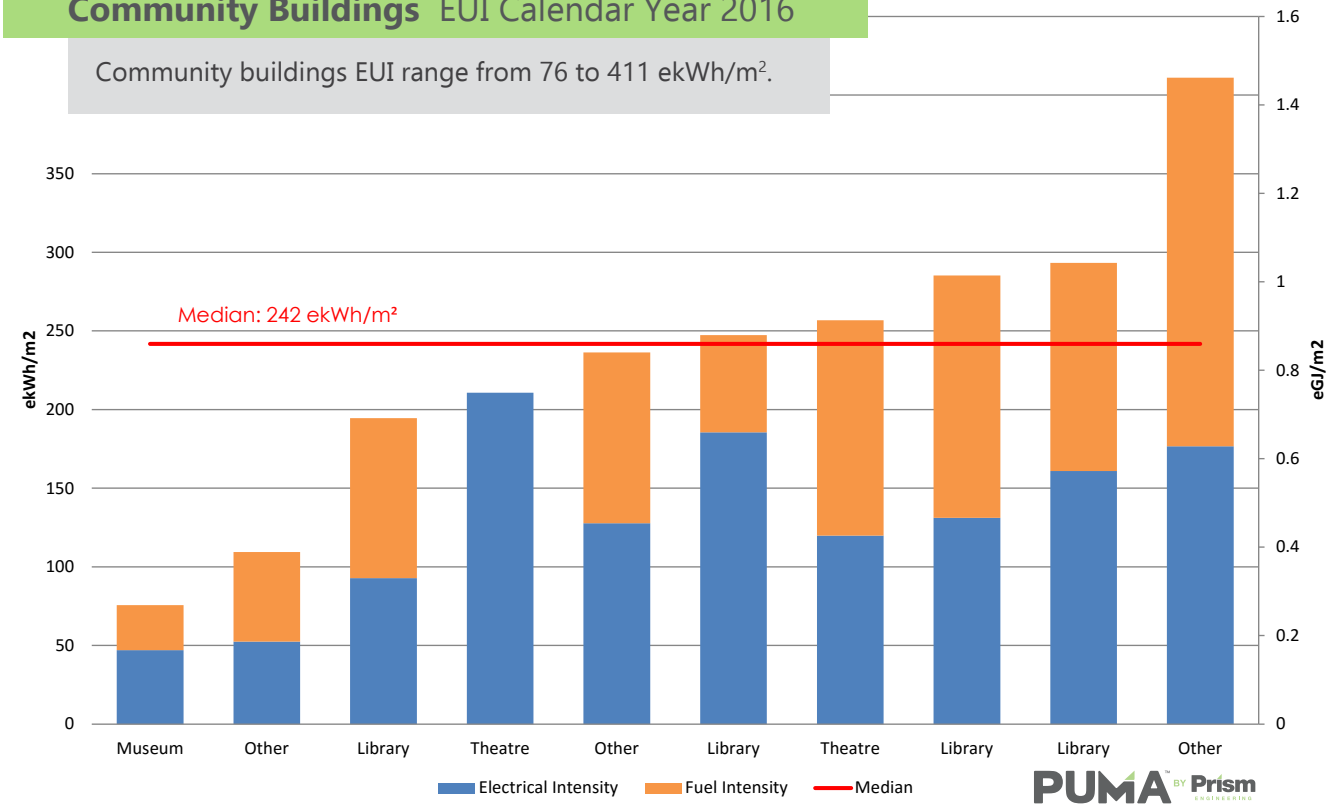
Protective Services Buildings EUI Calendar Year 2016

The best performing fire hall has an EUI of 213 ekWh/m².
Can your fire halls be more energy efficient?

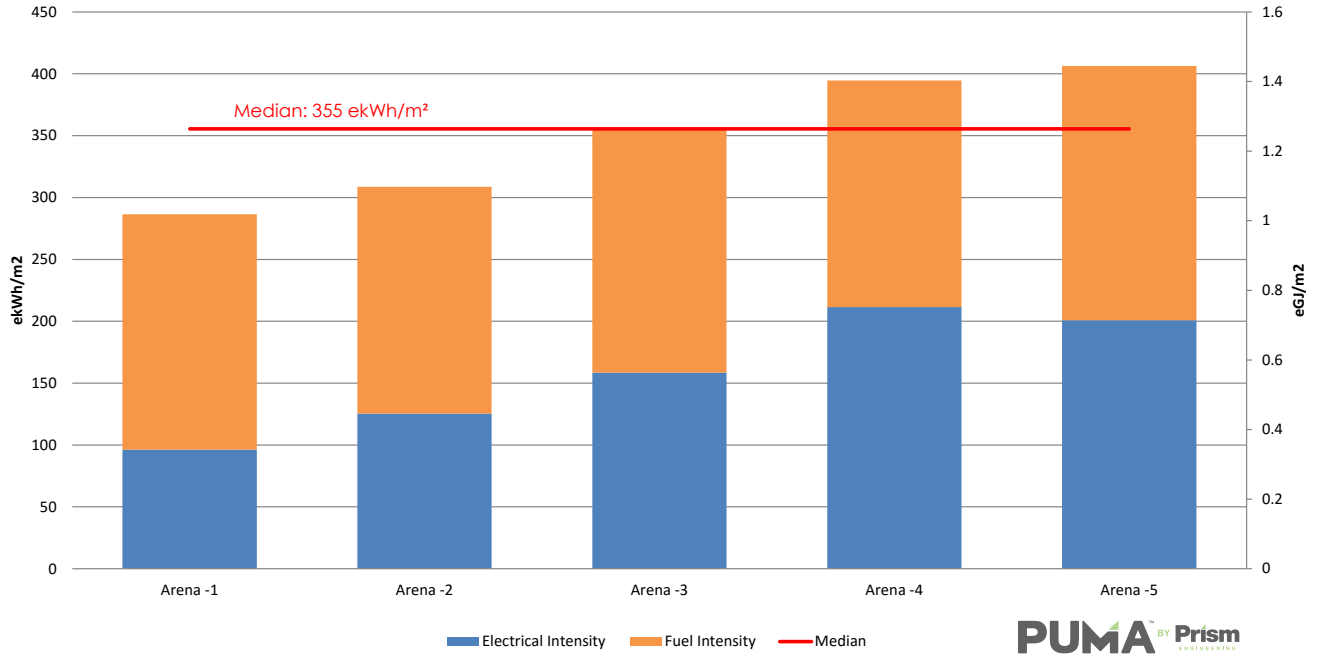


Community Buildings EUI Calendar Year 2016

Community buildings EUI range from 76 to 411 ekWh/m^2.

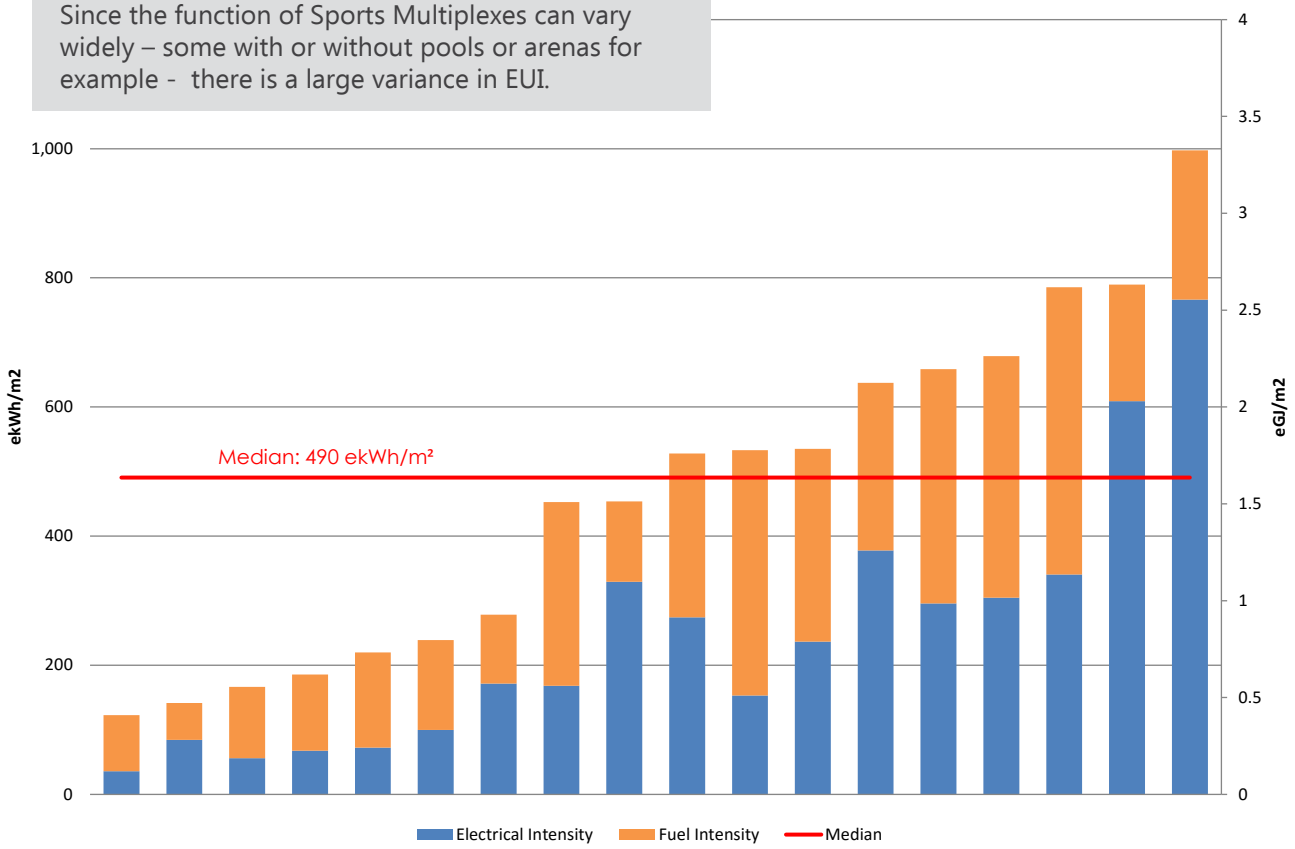


Arenas EUI Calendar Year 2016



Sports Multiplexes EUI Calendar Year 2016

Since the function of Sports Multiplexes can vary widely – some with or without pools or arenas for example - there is a large variance in EUI.



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 normalize for weather.

www.pumautilitymonitoring.com

Contact Duncan Wilcock to schedule a free demo:
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