



# How energy intensive are your buildings?

Compare with other municipalities in BC

## 5<sup>TH</sup> ANNUAL PUMA **BENCHMARKING SUMMARY**

For BC Municipalities: 2017 Calendar Year



*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 50 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 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](http://www.pumautilitymonitoring.com)

# 2017 Median Energy Use Intensity

A summary of the 2017 median energy use index (EUI) for the building categories in this report is as follows:

Municipal Building Type	Median Energy Use per m <sup>2</sup> (EUI)	Number of buildings in sample
<b>Office Buildings</b>	<b>294 ekWh/m<sup>2</sup></b>	n=7
<b>Fire Halls</b>	<b>292 ekWh/m<sup>2</sup></b>	n=12
<b>Social &amp; Meeting Halls</b>	<b>238 ekWh/m<sup>2</sup></b>	n=16
<b>Arenas &amp; Rinks</b>	<b>414 ekWh/m<sup>2</sup></b>	n=8
<b>Recreation Centres</b>	<b>437 ekWh/m<sup>2</sup></b>	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.

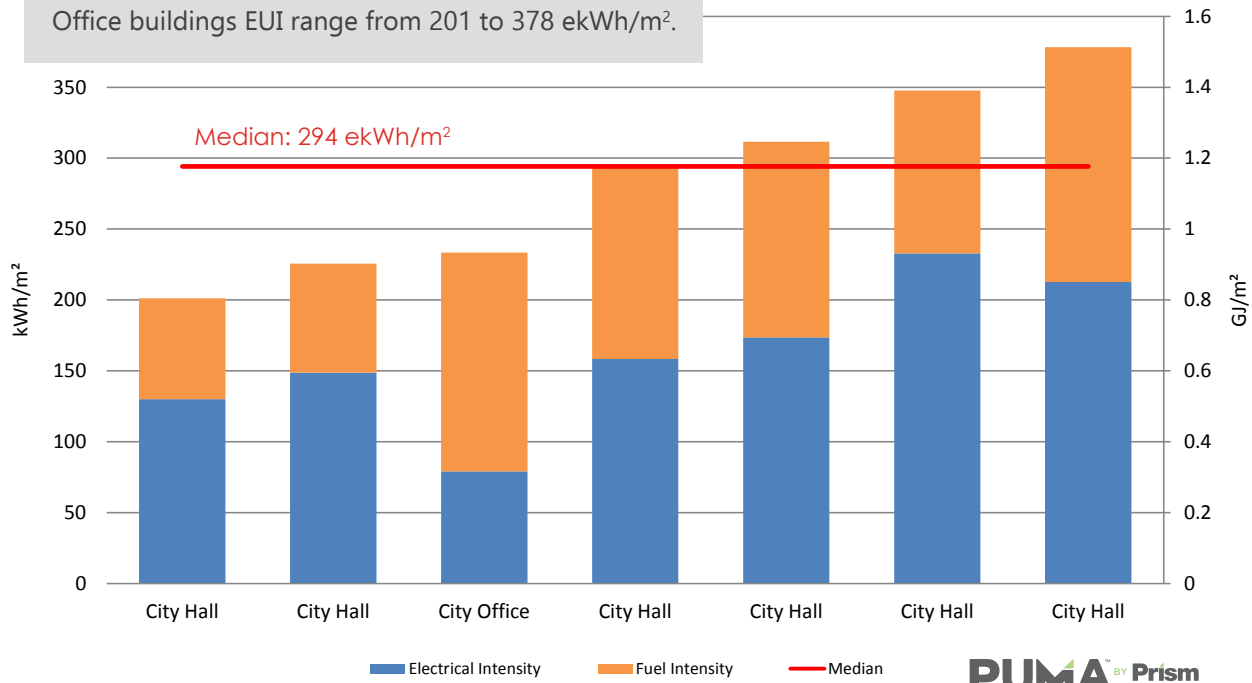
## Weather Data

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 climatic zone, and so are directly comparable.

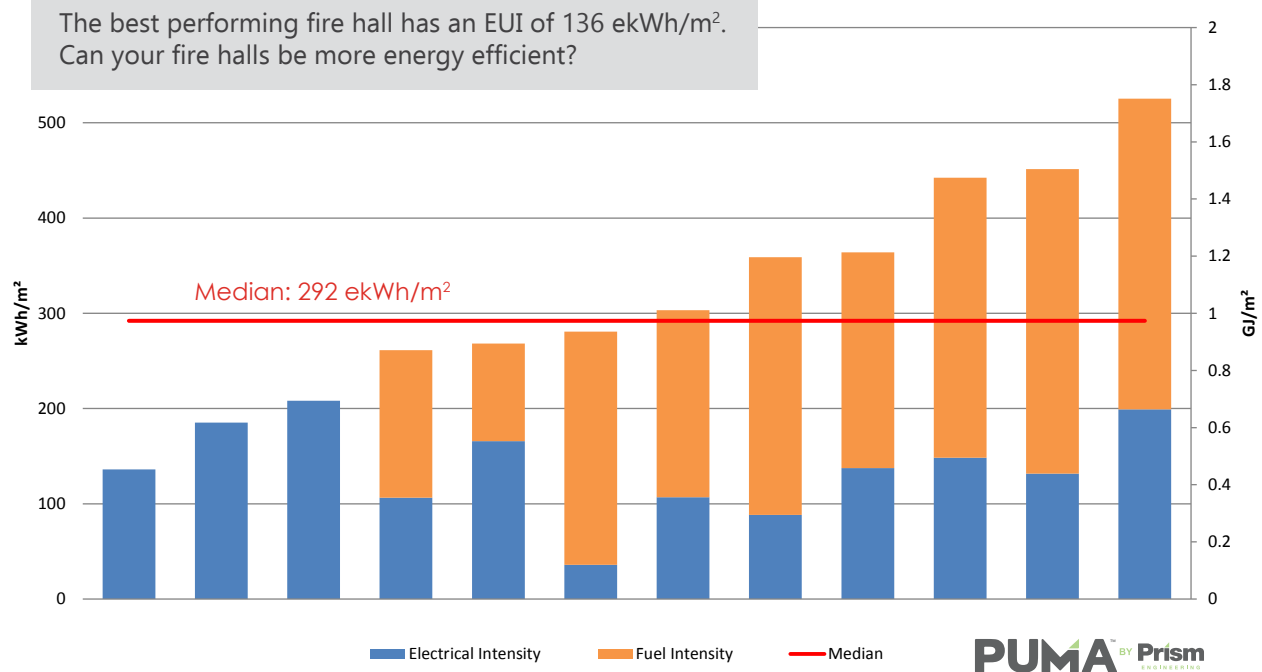
PUMA incorporates local weather data so that weather adjusted savings and weather normalized figures can be easily calculated. Contact us for more details.

# Are the buildings in your municipality better or worse?

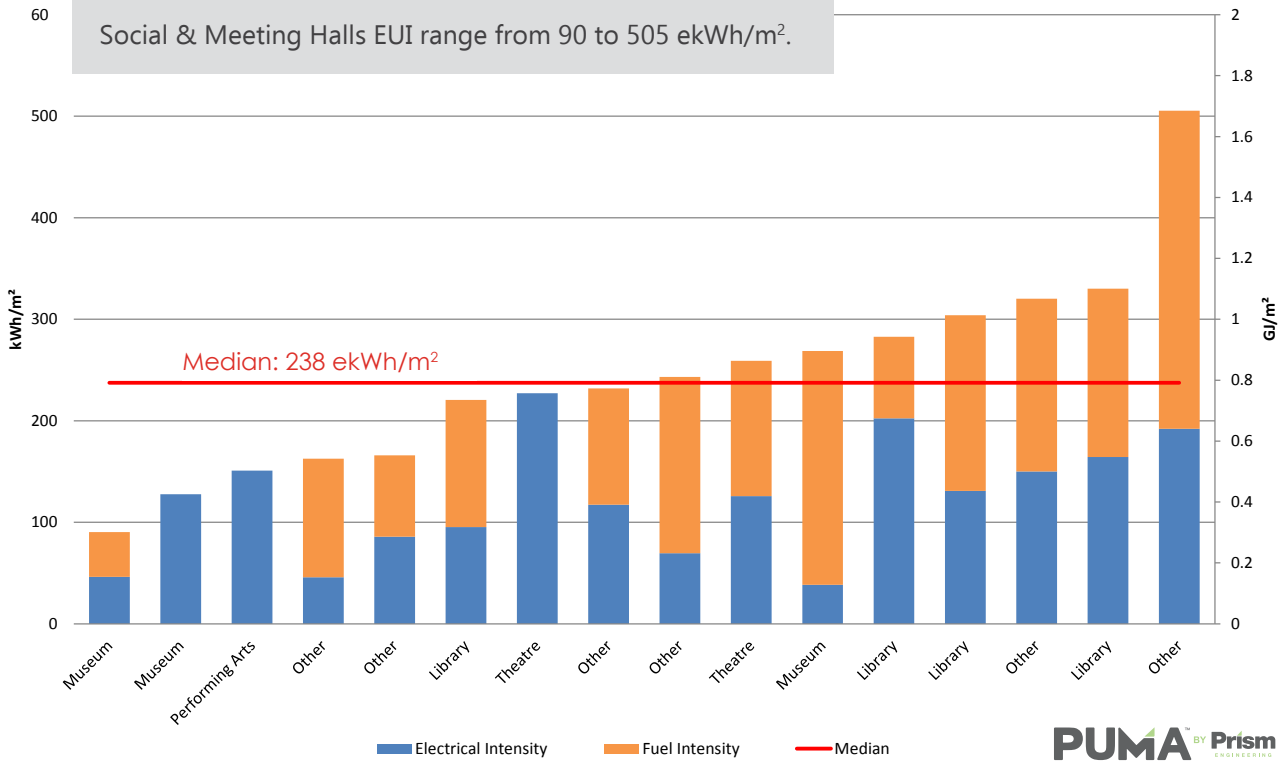
## Office Buildings EUI Calendar Year 2017



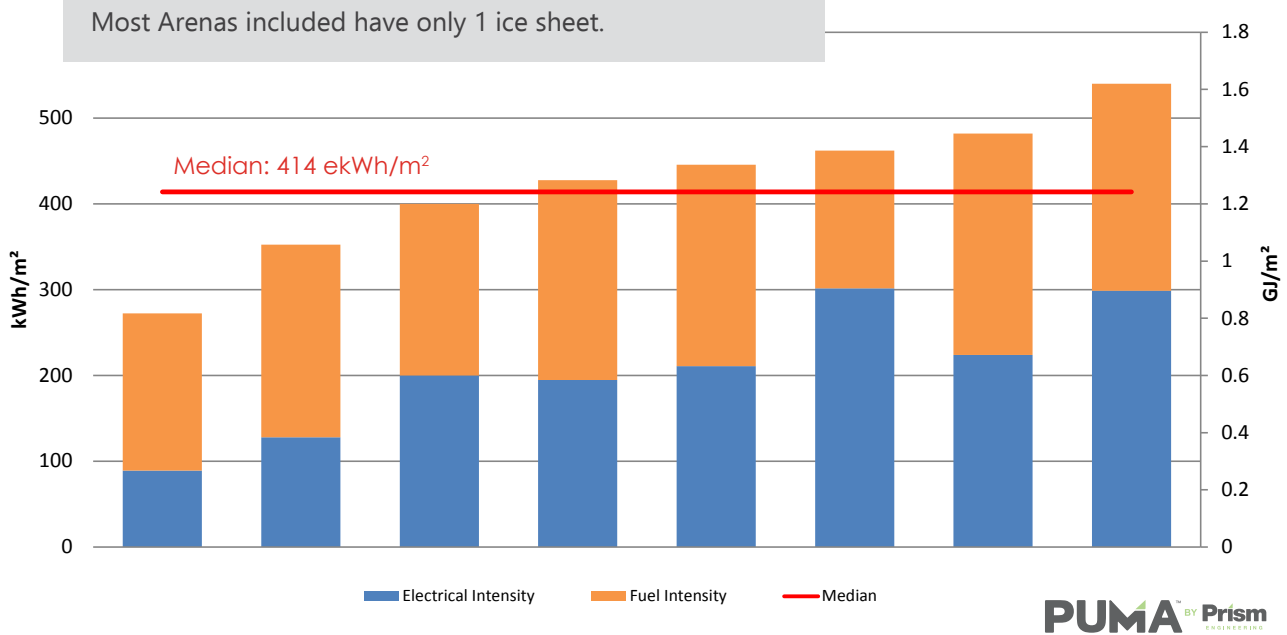
## Fire Halls EUI Calendar Year 2017



## Social & Meeting Halls EUI Calendar Year 2017

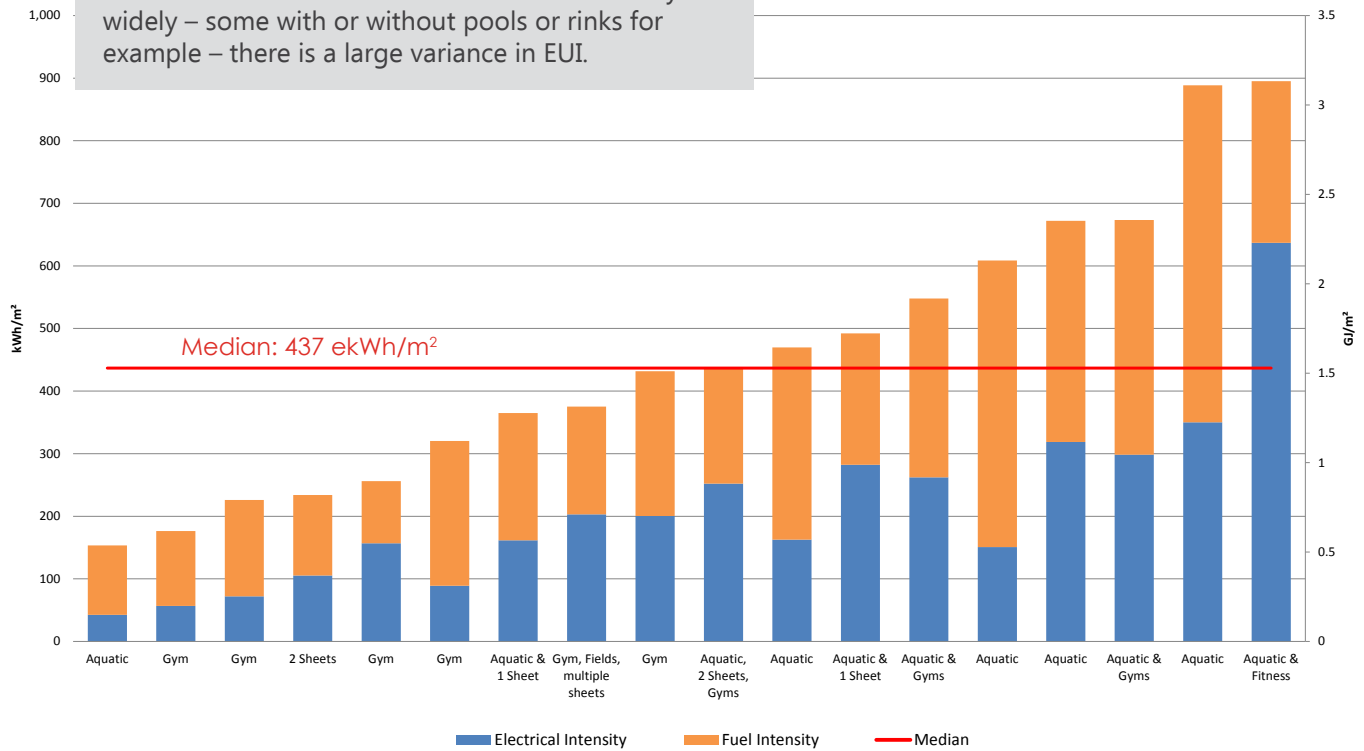


## Arenas EUI Calendar Year 2017



## Recreation Centres EUI Calendar Year 2017

Since the function of Recreation Centres can vary widely – some with or without pools or rinks for example – there is a large variance in EUI.



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](http://www.pumautilitymonitoring.com)

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