



How energy intensive are your buildings?

Compare with other municipalities in BC

7TH ANNUAL PUMA **BENCHMARKING SUMMARY**

For BC Municipalities: 2019 Calendar Year

PUMATM

PUMA Utility Monitoring Inc.

Scope

The sites included in the benchmarks are from the following BC municipalities that subscribed to monthly PUMA utility monitoring software & services during the calendar year 2019.



About PUMA

PUMA comprises a combination of software and services from PUMA Utility Monitoring 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

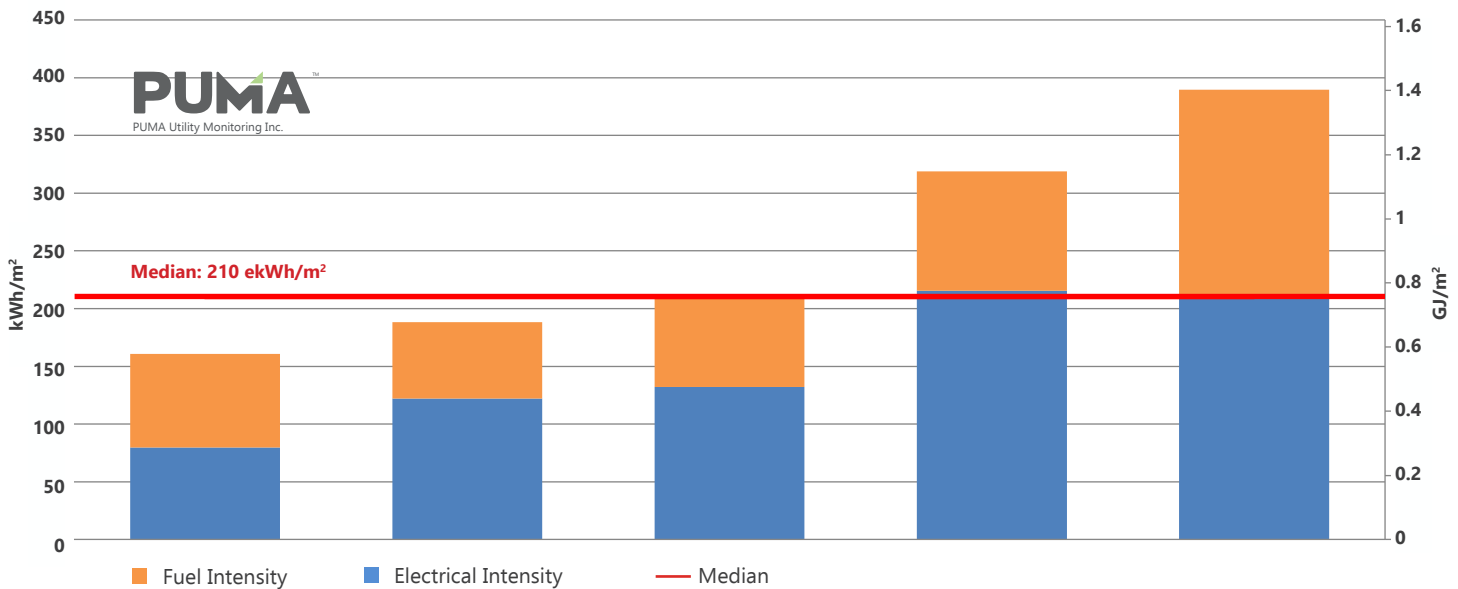
Each year the PUMA team puts together a benchmarking report for school districts, advanced education and municipalities. Based on compiled data from PUMA, this report enables the comparison of similar sites across each sector.

www.pumautilitymonitoring.ca

How **energy intensive** are the buildings in your municipality?

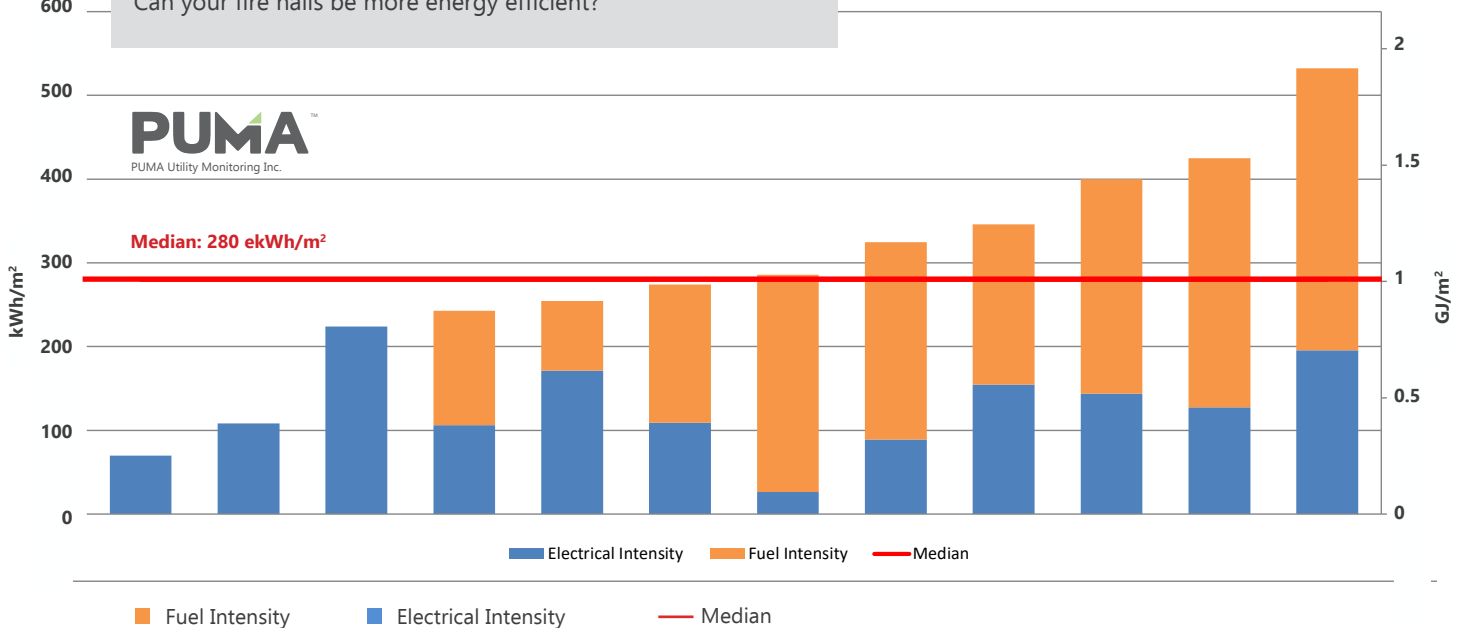
City Halls EUJ Calendar Year 2019

City Halls EUJ range from 160 to 390 ekWh/m².



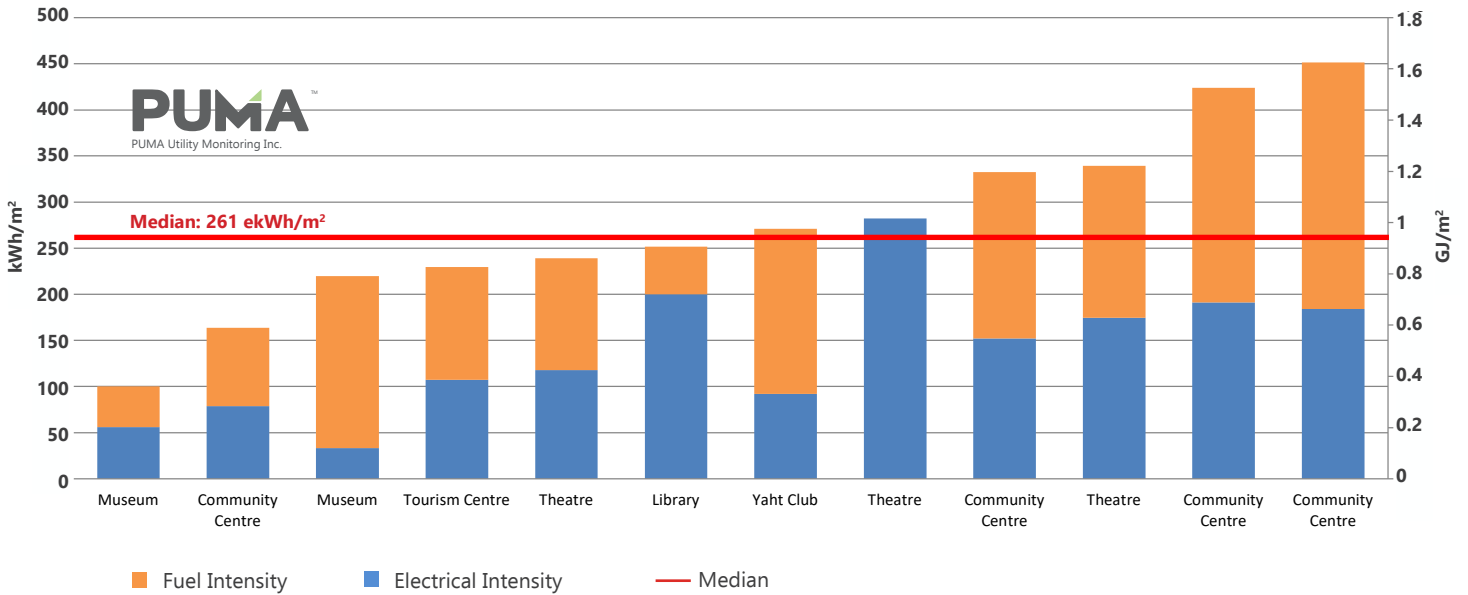
Fire Halls EUJ Calendar Year 2019

The best performing fire hall has an EUJ of just 32 ekWh/m². Can your fire halls be more energy efficient?



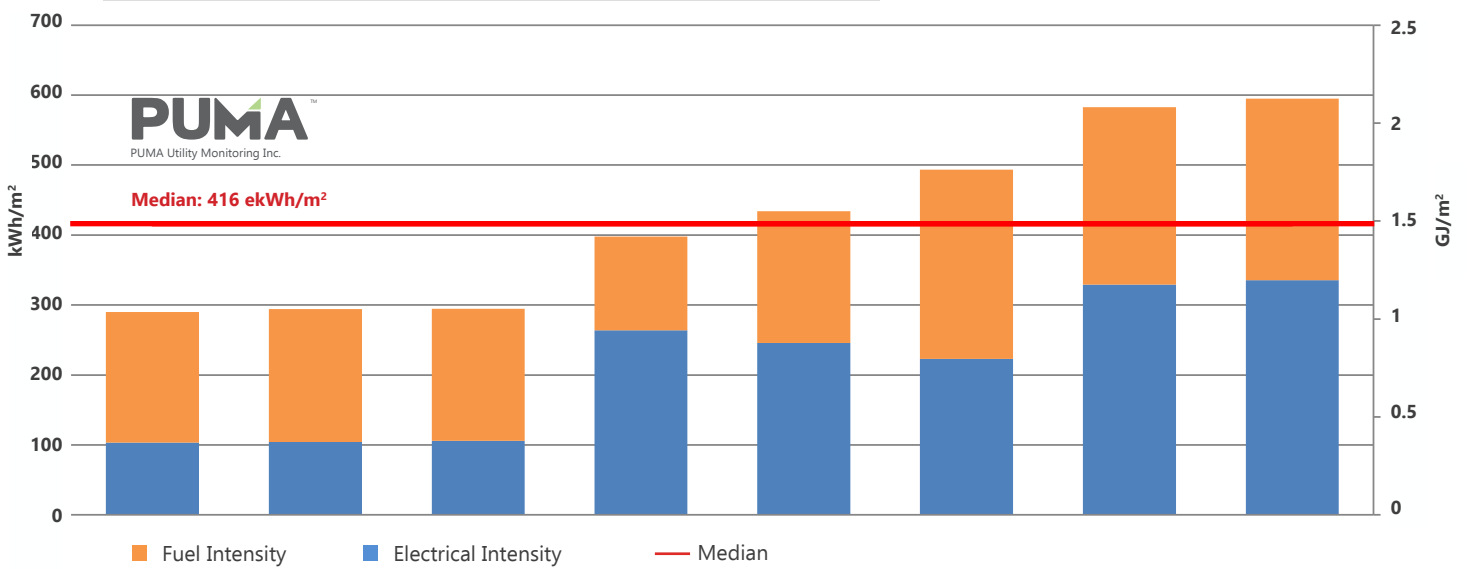
Social & Meeting Halls EUI Calendar Year 2019

Social & Meeting Halls EUI range from 100 to 450 ekWh/m².



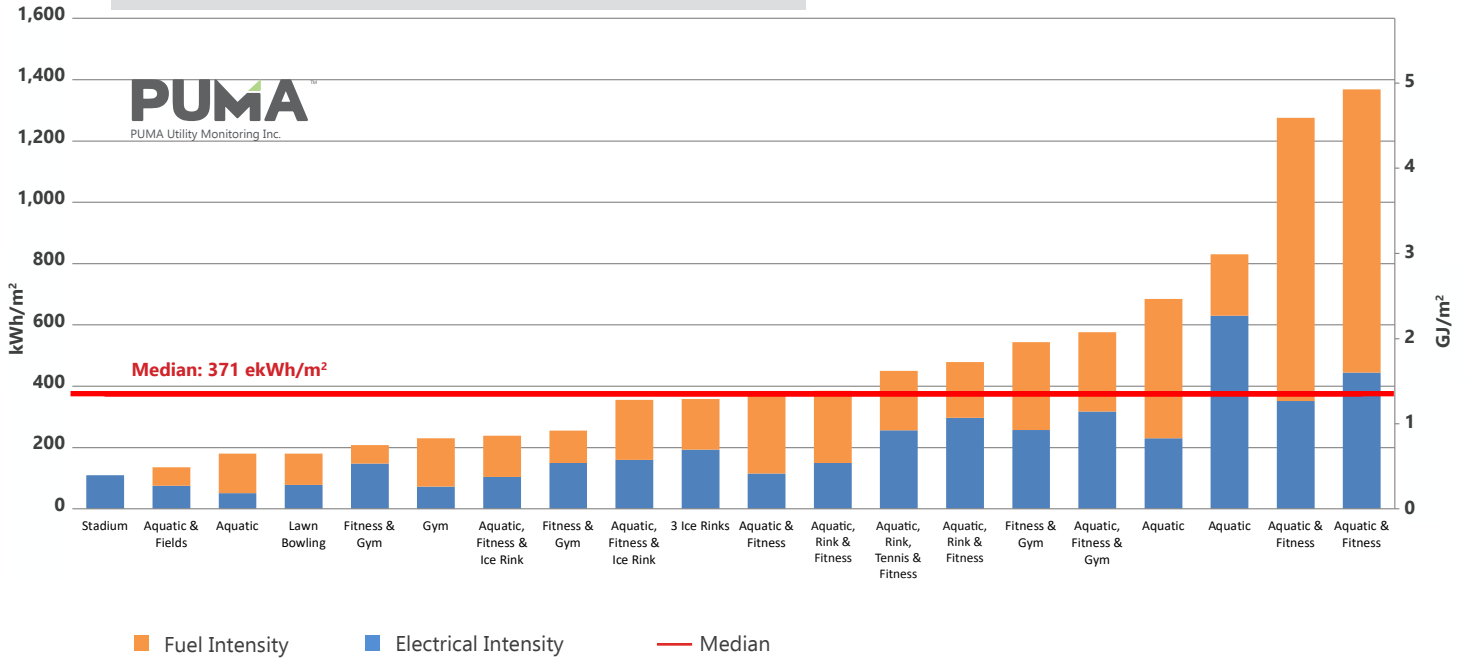
Arenas EUI Calendar Year 2019

Most Arenas included have only 1 ice sheet.



Recreation Centres EUI Calendar Year 2019

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.



2019 Median Energy Use Intensity

A summary of the 2019 median energy use index (EUI) for the building categories in this report is as follows:

Municipal Building Type	Median Energy Use per m ² (EUI)	Number of buildings in sample
Office Buildings	210 ekWh/m²	n=5
Fire Halls	280 ekWh/m²	n=12
Social & Meeting Halls	261 ekWh/m²	n=16
Arenas & Rinks	416 ekWh/m²	n=8
Recreation Centres	371 ekWh/m²	n=20

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 preceding 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.



PUMA Utility Monitoring Inc.

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.ca

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