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Title: School uses 60kWh power cabinets in Canada

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How do school buildings contribute to energy consumption?

School buildings contribute considerably to overall energy consumption due to their large number within the building stock. They represent an excellent opportunity towards improving energy efficiency as they "can be used as communication means towards pupils and their families, and can thus reach many different society groups" .

Are classrooms contributing to new schools' increased electricity consumption?

The new school's classroom, on the other hand, consumed on average 8.74 Wh/m² /day for plug loads and 11.55 Wh/m² /day for lighting. These results indicate that classrooms may not be contributing to new schools' increased electricity consumption. Fig. 3. Daily electricity consumption for classroom (a) Lights and (b) Plug Loads.

How do you measure school electricity consumption?

Real-time total school electricity consumption was also obtained by downloading data from the advanced utility meters available in two of the schools. For the third school without an advanced utility meter, real-time electricity consumption in the school main cable was monitored using a DENT & ElitePro XC meter.

Do classroom lighting and plug loads affect electricity consumption?

The post-hoc pair-wise comparisons also showed statistically significant differences in electricity consumption for lighting and plug loads during work and non-work hours between all pairs of classrooms, except for lighting between the old and new schools' classrooms during non-work hours.

The study entailed analyzing real-time electricity consumption in classrooms, gymnasiums and spaces believed to be heavily used by the community in those three schools.

Like many large buildings, schools suck lots of energy from the grid to keep lights on, halls warm and students comfortable, translating to high bills for school districts. However, a case study ...

End use data for a typical medium-sized K-12 school in the interior of British Columbia with climate conditions similar to other metropolitan areas across Canada.



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The ENERGY STAR score for schools applies to primary and secondary schools, from kindergarten to grade 12. The score applies to an entire school whether it is a single building or a campus of buildings.

The data is self-reported and has been filtered to exclude outliers, buildings with less than a full year of consumption data, cases that are used for testing purposes and an additional filter was applied.

The purpose and goals of the Sustainable Schools program are entirely focused on helping school boards achieve and sustain deep reductions in energy use and green-house gas emissions.

ENERGY STAR Portfolio Manager uses source energy. This is the most equitable unit of evaluation, which enables a complete assessment of building-level energy efficiency.

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Reference data. The analysis for schools in Canada is based on data from the Survey on Commercial and Institutional Energy Use (SCIEU), which was commissioned by Natural Resources Canada ...

Existing building commissioning (EBCx) is a process to optimize a building's performance based on current requirements. Assign an internal leader to work with the EBCx provider.

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