

## Client Case Study: UBC

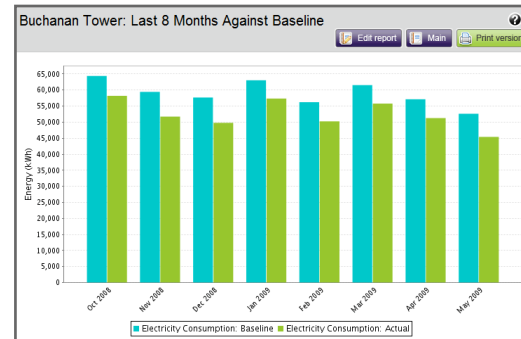


### Saving Energy and Costs at UBC

### Reporting Application

The University of British Columbia (UBC) is one of the greenest campuses in North America. As part of the \$35 million Ecotrek program, \$6 million were spent on an Enterprise Energy Management (EEM) system and a sophisticated, campus-wide Building Automation System (BAS). The EEM system generates large amounts of data, but the volume and format of those data make them extremely difficult to use for building energy optimization. UBC needed a way to make their energy data actionable and meaningful to operations staff and the campus population.

**Figure 1: Actual electricity consumption for Buchanan Tower**



Pulse software delivers energy information to UBC Operations by connecting to the EEM system and BAS, aggregating the data that resides on those systems, and communicating that data through an easy-to-use web-based facility management toolkit. Pulse software is used by UBC Operations to monitor and optimize building performance as well as communicate sustainability issues to the entire UBC community.

**Figure 2: Energy savings over 8 months**

Energy savings at Buchanan Tower were calculated by comparing energy data from past 8 months against baseline months. Data is weather corrected.

Pulse software has had an immediate impact on the energy consumption at Buchanan Tower, one of the largest buildings on campus. Using information delivered by Pulse, the building's facility managers were quickly able to optimize the building's systems for improved efficiency. One such adjustment was made to the Tower's air handling units, which were over-circulating air during off-hours. The BAS controlling the air handling units was re-programmed and this, along with a few minor changes, **reduced baseline electrical load in the building by 15% – translating directly into a \$5,000 annual savings.**

Month	Percent Savings
Oct	9.6%
Nov	13.0%
Dec	13.7%
Jan	9.0%
Feb	10.6%
Mar	9.4%
Apr	10.3%
May	13.7%
Avg.	11.2%

UBC uses the Pulse Dashboard to track and display energy consumption information to the public. In addition to cost savings, the deployment of Pulse software has changed occupants' attitudes towards energy efficiency; in a UBC user awareness survey, 85% of building occupants said they have an increased level of energy awareness as a result of this project. Even more importantly, 50% of occupants have modified their energy-use behaviour after viewing real-time energy information on the Pulse Dashboard. UBC is planning to save \$600,000 per year with a campus-wide rollout of Pulse software.

### Want to learn more?

E-mail us at [info@PulseEnergy.com](mailto:info@PulseEnergy.com) to request more information or schedule a demo

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