



ENERGY SERVICES  
ASSOCIATION  
OF CANADA

PROMOTING  
PERFORMANCE  
BASED SOLUTIONS

# case study

## The University of British Columbia

UBC undertakes a landmark energy efficiency program bringing award winning results with MCW.

*Performance-based solutions become the premier choice for energy and infrastructure renewal initiatives, resulting in fiscally and environmentally responsible outcomes.*



### Project Description

The University of British Columbia (UBC) initiated an energy program designed to bring its 6.8 million square foot campus and 277 facilities to an energy index close to new facility construction. The extensive retrofit effort involved the faculty and students, incorporating measures into the curriculum and branding the program as ECOTrek, part of the university's Trek 2000 initiative, as well as ambitious technical measures including a complete refurbishment of UBC's central plant.

### Opportunity

The project offered UBC a chance to create the blueprint for bringing university campuses up to a high level of energy efficiency. The program became the focal identity and flagship example for sustainability and environmentally responsible practices on campus.

### Results

The ECOTrek program required over \$37M in funding, making it the largest single-phase project ever attempted in Canada at the time. The program exceeded expectations, generating \$3.36M in annual savings for the university and achieving full payback four years ahead of schedule. The success was recognized with a National First Prize from CAUBO Quality and Productivity Awards.



*Custom Energy Solutions Ltd.*