



PowerSecure



# MEMORIAL UNIVERSITY OF NEWFOUNDLAND ENERGY EFFICIENCY

Upgrades to increase efficiency, achieve energy savings, and advance facility technologies

CASE STUDY

## About the Customer

Memorial University serves more than 18,000 students in the city of St. John's and four satellite campuses. The only university in the province, Memorial offers more than 100 degree programs.



## The Challenge

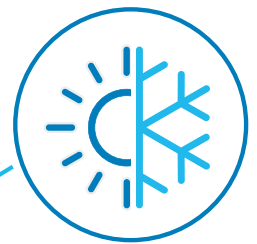
Across two campuses and 50 buildings, Memorial required upgrades to multiple parts of its infrastructure, including lighting and controls, weatherization and mechanical systems and controls. The university would also require a 15-year payback on investment.

# The Solution

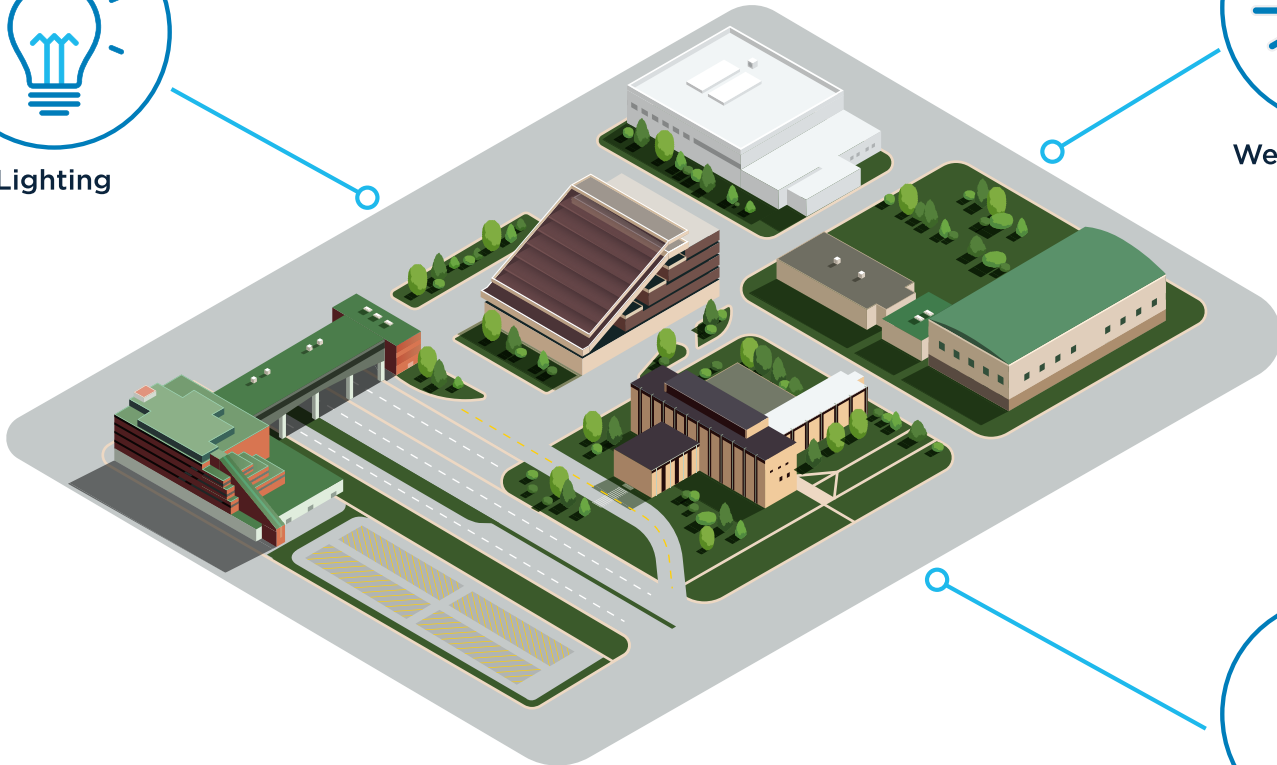
PowerSecure first carried out an investment-grade audit in order to identify Memorial's exact needs. PowerSecure then designed and engineered all ECM upgrades, using state-of-the-art modeling software, in order to meet all proposed energy savings and facilities operations goals. Solutions included optimization of a steam plant system water distribution pumps and piping, installation of a ducted VRF system, demand response generation and ventilation systems, lighting upgrades, motors and deferred maintenance.



Lighting



Weatherization



Mechanical

## Benefits to the Customer

- 1** Increased energy efficiency through installation of 50+ transformers and upgrades of steam plant and distribution system
- 2** 40,000+ LED installations and retrofits and 1,000+ lighting control zones
- 3** 10,500,000+ kWh of energy usage conserved
- 4** Nearly \$1.6 million in savings for the university
- 5** Payback faster than the required 15 years

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