The University of Waterloo saves $220,000 annually with energy-efficient upgrades

With the help of Waterloo North Hydro’s energy-efficiency incentives, SHARCNET was able to implement more advanced technology while maximizing our savings capacity.

RICK ZALAGENAS
Director of Maintenance & Utilities, University of Waterloo

PROJECT DETAILS

ANNUAL ENERGY SAVINGS: 2.2 million kWh

ANNUAL ELECTRICITY COST SAVINGS: $220,000

INCENTIVE: $137,900

ANNUAL PEAK ELECTRICITY DEMAND REDUCTION: 270 kW

PAYBACK IN LESS THAN 1 YEAR

Institutional Sector:
• University Facilities

Project:
• RETROFIT - Server Upgrades

Recognizing the need for a server upgrade, The Shared Hierarchical Academic Research Computing Network (SHARCNET) turned to their data center’s host—the University of Waterloo (UW). The project reduced the server footprint by 95%, delivered better overall performing equipment without compromising capacity, freed up resources and reduced IT management burdens while reducing energy consumption by 95%.

The project’s energy reduction is equivalent to removing 229 homes from the grid for one year.
About saveONenergy

Whether your company is looking to become more energy efficient or simply upgrade outdated equipment, saveONenergy incentives are available to help reduce payback periods and cut capital costs. Start saving energy and reduce your environmental footprint with a PRESCRIPTIVE, ENGINEERED or CUSTOM project today.

Available Incentives

<table>
<thead>
<tr>
<th>LIGHTING</th>
<th>NON-LIGHTING INCLUDING CONTROLS</th>
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<tbody>
<tr>
<td><strong>Prescriptive Incentives</strong></td>
<td>Fixed incentive levels depend on system upgrades or installed equipment.</td>
</tr>
<tr>
<td>Prescriptive Track applications are ideal for quick system upgrades. Incentive levels are based on a predefined amount with applications that are easy to follow and have a quick turnaround.</td>
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<tr>
<td><strong>Engineered Incentives</strong></td>
<td>The greater of either, $400/kW of demand savings or $0.05/kWh of first year electricity savings.</td>
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<tr>
<td>Engineered Track applications are for more complex equipment upgrades and provide the potential for higher incentives. Applications require more technical information than Prescriptive Track applications.</td>
<td>The greater of either, $800/kW of demand savings or $0.10/kWh of first year electricity savings.</td>
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<td><strong>Custom Incentives</strong></td>
<td>The greater of either, $400/kW of demand savings or $0.05/kWh of first year electricity savings.</td>
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<tr>
<td>Custom Track applications are designed to provide flexibility for more comprehensive projects with opportunities for increased energy savings. Incentives are based on energy savings over pre-project baselines.</td>
<td>The greater of either, $800/kW of demand savings or $0.10/kWh of first year electricity savings.</td>
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What Upgrades Can I Make?

Incentives are available for the following upgrades, plus many more.

- Lighting and Controls
- Building Envelope
- Fans and Blowers
- Ventilation
- Synchronous Belts
- Compressed Air
- Refrigeration
- Pump Impeller Trimming
- Heat Pumps
- Building Automation Systems
- HVAC Systems
- Chiller Systems
- Motors and VFDs
- Heat Recovery
- Sensors
- Unitary Air Conditioning
- Fans and Blowers
- Ventilation

How Do I Learn More?

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