Water Efficiency Case Study

St. Mary’s General Hospital

Background
St. Mary’s General Hospital serves hundreds of thousands of patients and their families each year. This busy Kitchener facility used roughly 85 million litres of water per year between 2016 and 2018.

The hospital realized there was an opportunity for big water savings by upgrading old fixtures, especially switching out old toilets.

Water savings solutions
St. Mary’s began with a full utility usage audit, including a water use review. The findings led to a $587,000 investment to replace over 500 fixtures in 2018 — mostly toilets but also urinals and faucet aerators.

Economic benefits
This investment is saving the hospital approximately $105,000 in yearly water costs. The project is expected to pay for itself in under six years.

The project received a total of $25,000 from the Region of Waterloo’s Water Efficient Technology (WET) Program.

<table>
<thead>
<tr>
<th>Water reducing measures</th>
<th>Cost of implementation</th>
<th>WET Program funding</th>
<th>Water savings (m³/year)</th>
<th>Annual water bill savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrading toilets, urinals and faucet aerators</td>
<td>$587,164</td>
<td>$24,942</td>
<td>18,229</td>
<td>$104,817</td>
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</tbody>
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The Region funded half the water audit and also provided a rebate based on measured water savings after the project’s completion.

Water savings
St. Mary’s General Hospital is saving approximately 18,000 m³ of water each year through its investment in new, efficient fixtures. That is 50,000 litres saved per day, equivalent to the average household use of 345 people in Waterloo Region.

The Region’s WET Program helps businesses and institutions benefit from water efficiency investments. Projects like this one help protect and conserve our community’s precious drinking water supply.

Visit our website (see below) to learn more about our water efficiency programs.

www.regionofwaterloo.ca/conservation | 519 575 4400 | TTY: 519 575 4608