

W.E.T. case study



City of Kitchener

City of Kitchener is the largest municipality in Waterloo Region with over 233,000 residents.



Figure 1 City of Kitchener City Hall

Water savings solution

Between 2015 and 2018, the City of Kitchener completed four major water savings projects including:

- Upgrading City Hall's cooling tower to a model that conserves more water
- Optimizing a rainwater harvesting system at the Operation Centre
- Auditing eight splash pads and installing water efficiency upgrades
- Installing 32 water flow monitors at City facilities to detect leaks

The City of Kitchener is the 2018 recipient of the Region of Waterloo Water Efficiency Excellence Award for this work.



Economic benefits

The Region of Waterloo provided \$26,915 funding through the W.E.T. Program. The funding helped with water audits and sub-metering as well as providing rebates based on water savings. The City of Kitchener is saving nearly \$39,180 per year.

Water savings

The City of Kitchener is saving 7,600 m³ of water each year, plus an estimated savings of 19,700 m³ per year on less measurable projects. Enough water for 152 homes.

Summary

Upgraded cooling tower

- W.E.T. Program funding: \$10,523
- Water savings: 2,811 m³ per year
- Cost to implement: \$373,650
- Annual water bill savings: \$14,505

Optimized rainwater harvesting system

- W.E.T. Program funding: \$10,149
- Water savings: 4,782 m³ per year
- Cost to implement: \$108,700
- Annual water bill savings: \$24,675

Audited and upgraded eight splash pads

- W.E.T. Program funding: \$800
- Cost to implement: \$1,600 for audits and sub meters

Installed 32 water flow monitors to detect leaks

- W.E.T. Program funding: \$5,713
- Cost to implement: \$11,427 for audits and sub meters

Region of Waterloo water programs for business

The Region of Waterloo has funding and programs to help industrial, commercial and institutional organizations reduce water costs.

Learn more at www.regionofwaterloo.ca/WaterSmartBusiness.

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Region of Waterloo, Water Services

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