

W.E.T. case study



Babcock & Wilcox

Babcock & Wilcox Canada Ltd. designs, engineers, manufactures and constructs steam generation equipment in Cambridge. These products convert water into steam for running generators that produce electricity.



Figure 1 Babcock & Wilcox Cambridge location

The Cambridge location uses around 10,000 m³ of water each year. Water use comes from both manufacturing and fixtures in the washrooms and kitchens used by the 800 employees. Despite being a large water user, management did not have water balance data for the different plants including hydro testing, metal washing, machine coolant water and the cement plant or the fixtures.

Babcock & Wilcox completed a project to gain water balance data and learn about the largest water consuming activities in order to reduce water use.



Water savings solution

The Region of Waterloo provided funding through the W.E.T. program.

To understand its water use, Babcock & Wilcox installed sub-meters to collect data and to monitor water flows to each plant. The sub-metering project provided the data for Babcock & Wilcox to focus on replacing 40 inefficient flush-valve toilets with an expected annual water savings of 580m³.

Future projects include reuse of hydro testing water and collecting reverse osmosis (RO) and DI wastewater for the concrete making process. Making these changes will provide Babcock & Wilcox with a further water savings of 1,000m³.

Babcock & Wilcox is the 2011 recipient of the Region of Waterloo Water Efficiency Excellence Award for this work.

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

519-575-4400 (TTY: 519-575-4608)
www.regionofwaterloo.ca/water

Email: waterservices@regionofwaterloo.ca
Find us on Facebook: /ROWWaterServices