



CANADA'S WATER INDUSTRY CONTRIBUTING TO THE GREEN BUILDING INDUSTRY

According to the Canada Green Building Council (CaGBC), buildings generate up to 35 percent of all greenhouse gases, and up to 70 percent of municipal water is consumed in and around buildings. By making buildings greener, there is the clear potential to accelerate global carbon reduction and water conservation.

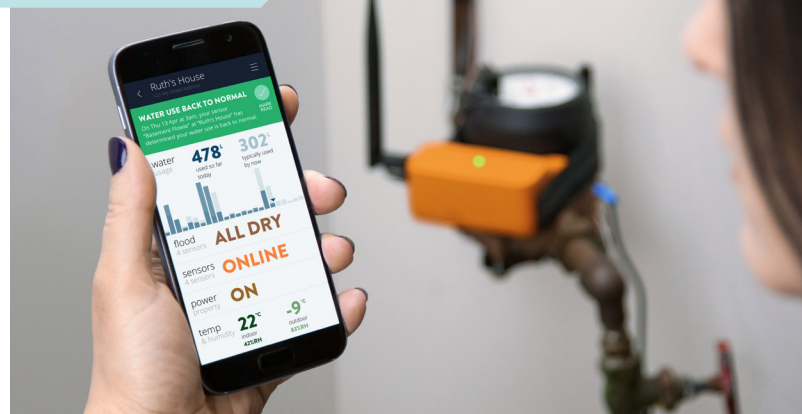
Whether through rain harvesting, circular water reuse, or local HVAC water filtration, numerous Canadian water firms are stepping up to the challenge. In the process, these companies are driving economic in addition to sustainable growth. The CaGBC reports that the Canada's green building industry generated \$23.45 billion in GDP and represented nearly 300,000 full-time jobs in 2014.¹

Integrating seamlessly with sustainable building design and operation, innovative water technologies are helping raise the bar not only for buildings, but for better planning communities, neighborhoods, and cities overall. In particular, smart technology such as internet of things (IoT) and data analytics, add high connectivity to green infrastructure, encouraging a new type of engaged water user who is more sensitive and efficient in their consumption of this precious resource.

Since **2005**, green buildings that have received LEED® certification in Canada have had water savings totaling over **30 BILLION LITRES**.²

¹ CaGBC and The Delphi Group. Green Building in Canada: Assessing the Market Impacts & Opportunities. 2016.

² LEED® Impact Report Canada. 2018.



ALERT LABS INC. > alertlabs.com

Most businesses, homes, schools, and government facilities do not have minute-by-minute insight into water usage. Since 2017, **Alert Labs Inc. (Ontario)** has saved more than 200 million litres of wasted water and helped save \$1,000,000. Key to these savings is Flowie, which is a cellular connected, non-invasive water flow sensor that analyzes water usage patterns to identify inefficiencies. Across North America, Alert Labs' sensors and software are helping individuals and organizations see real-time data of water usage and lower water bills. The Sumpie sump pump sensor, Floodie flood sensor, and Sentries a/c monitoring system powered by machine learning from the Alert Labs Dashboard are also helping minimize water damage and optimize energy consumption due to air conditioning. In late 2018, the company was acquired by Florida-based Watsco Inc., the largest HVAC/R distributor in North America. While continuing to operate out of Kitchener, Ontario, the company now has heightened potential in the U.S. market.

WATER
INDUSTRY

Bringing leadership and innovative solutions to the world.

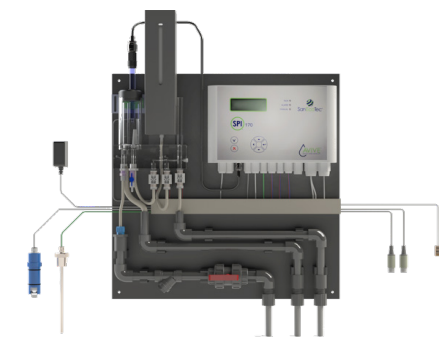
CANADIAN COMPANIES WORKING GLOBALLY

When it comes to advances in green building technologies for water management, Canadian companies are leading the way. Here are some examples of firms at work around the world.



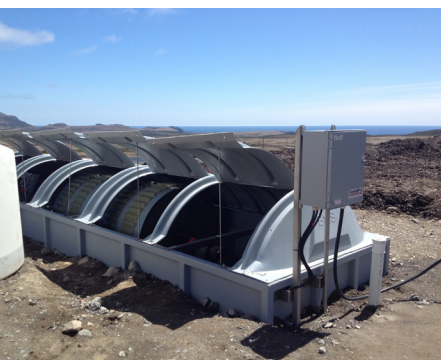
GREYTER WATER SYSTEMS INC. > greyter.com

Greyter Water Systems Inc. (Ontario) worked in collaboration with several top U.S. homebuilders to develop the Greyter HOME™, an award-winning appliance that can help reduce indoor water consumption by as much as 25 percent in a family home. This fully automated system captures water from showers and bathtubs, treats it to a near-potable quality, and provides clear, odor-free water to meet a home's toilet flushing demands. It was awarded "Best Green Building Product" at the International Builders' Show (IBS) 2017 by the National Association of Home Builders. In early 2019, the company announced that it received its NSF/ANSI 350 Class R certification, making it the only compact, cost-effective and easy-to-install residential greywater reuse system to hold this designation. Beyond residential development, the company has designed, delivered and supported water recycling projects for demanding and challenging applications such as military installations, hotels, schools, condominiums and office buildings throughout North America.



SANECOTEC LTD. > sanecotec.com

Since 2008, **SanEcoTec Ltd.** (Ontario) has successfully applied its AVIVE™ program, systems, technology and know-how to many large, water-critical green build applications around the world. The company's award-winning AVIVE™ water treatment system uses a new generation of stabilized hydrogen peroxide—a natural substance that breaks down to water and oxygen—to treat the water instead of harsh chemicals like chlorine. SanEcoTec will help you adapt to your current infrastructure, delivering an affordable, easy-to-use alternative for total control of your water operations and a safer, more secure building, helping save energy and lower operating costs, while improving water quality. The product has been used in green building applications, ranging from residential and commercial projects, to large-scale water parks and community pools in Europe, as well as greenhouses throughout North America and Mexico.



BMS NORTH AMERICA LTD. > bmsna.com

For buildings without access to centralized sewage treatment, **BMS North America Ltd.** (Newfoundland) offers a green solution. The Blivet is an "all-in-one" packaged sewage treatment plant that is designed to accept raw (unsettled) sewage and produces a high quality final effluent that meets national standards without the need for auxiliary tankage, equipment, or chemicals. The easy-to-maintain, compact, and modular technology is able to service between five and 100 homes, or they can be stacked side-by-side for larger flows. This solution provides a cost-effective and green alternative to traditional treatment plants, which require expensive and energy-intensive infrastructure to maintain. While BMS North America's business is focused on North and South America, it has exported to 38 countries, installed 800 units worldwide, and treats 50,000,000 litres of sewage daily. The technology is ideal for small communities and municipalities, but the company also has installations at military sites, fitness and health centres, hotels, campgrounds, office complexes, and restaurants.

MORE CANADIAN FIRMS OFFERING GREEN BUILDING SOLUTIONS:

- > Aclarus Ozone Water Systems
- > AQUARTIS
- > AVESI Stormwater and Landscape Solutions
- > Bionest Wastewater Treatment Solutions
- > BMS North America
- > Clean Cut Energy Corp.
- > Eddy Smart Home Solutions Inc.
- > Evoqua Water Technologies
- > Imbrium, inField Solutions Inc.
- > LID Paving, Net Zero Water
- > Nimbus Water Systems Inc.
- > Premier Tech Aqua Ltd.
- > Quadlogic Meters Canada Inc. (QMC)
- > Water Matrix Inc.
- > WatrHub
- > Watermark Solutions Ltd.

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