

WaterTAP Corporate Brief

News and success stories from Ontario's water technology champion



Tracking Growth

As Ontario's water technology companies grow, WaterTAP helps share their good news and works with them to provide access to programs and support. Here are a few recent successes.

EMAGIN (Waterloo) was selected from more than 80 companies to participate in the first United Utilities Innovation Lab in the UK as a solution in the Future of Water category.

Lystek International Ltd. (Cambridge) won the Governor's Environmental and Economic Award at a special ceremony held at the EPA's headquarters in California.

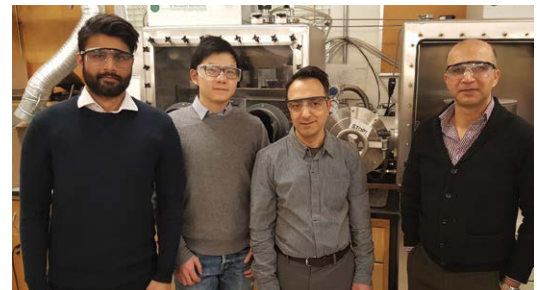
The **George Barley Water Prize** has launched its final, three-month pilot phase at Lake Simcoe. Two of the competing teams are **Econse Water Purification Systems Inc.** (Toronto) and **University of Waterloo**.

Clearford Water Systems Inc. (Ottawa) recently announced that it has signed a memorandum of understanding with **Sustainable Water Investments Inc.** (Vancouver) to receive an expanded \$100-million commitment for infrastructure projects. ◀

#OntarioWater Spotlight: Readyng the Globe for Enerision's Green Chiller Solution

According to **Dr. Hanif Montazeri**, CEO and President of **Enerision Inc.**, the time is ripe to update traditional approaches to cooling to be more energy-efficient and cost-effective. The Toronto company's signature cooling system, the Quantum 500, has the potential to reduce the cost and environmental impact of air conditioners, chillers, and refrigerators.

Enerision's green refrigeration system draws energy from heat sources other than electricity. In order to produce cooling power, the innovative technology uses any thermal source, such as solar energy or low-grade residual heat that is often a byproduct of existing operations. Most commonly, the heat comes from either hot air or water. Using Enerision's conversion method, the need for electricity is reduced greatly, if not completely eliminated.



◉ L-R: **Vignesh Krishnamurthy**, **Jinguyan Hou**, **Dr. Bahman Lashkari**, and **Dr. Hanif Montazeri**.

Photo: Enerision

The company forecasts that this solution uses 70% less electricity and a 30 to 50% reduction in water consumption. Another benefit is that the solution does not rely on refrigerants. "Traditional cooling technologies use CFC and HCFC refrigerants, which are harmful when they leach into the atmosphere," Montazeri says. "We have a very green agenda. Our method uses pure water and avoids dangerous pollutants."

With the goal of commercializing its product, Enerision is currently in the pilot stage with two companies. "Working with WaterTAP allowed us two new hires: one business guru and one technical expert," Montazeri says. "These additions helped us secure two pilots tests, allowing us to validate our innovation with positive testimonials from real people who care about our product." The two companies involved with the tests are a manufacturing company near Ottawa and a data centre in Toronto. In both cases, there is enormous reliance on electricity to cool down their facilities.

"WaterTAP has already supplied Enerision with critical support," he says. "In the near future, we think we will be able to leverage the extensive network that WaterTAP has to offer to secure clients in industries with high water and energy consumption." ◀

Read the full article at WaterTAPontario.com.

Innovation UpLIFT: WaterTAP Partners with WRF

As many Canadian startups will testify, the lure of foreign water markets has strong appeal, especially when adoption at home can be hard won. Yet, finding the right inroads to secure exports and partnerships can prove difficult without the proper support. With the announcement made this past fall that WaterTAP is embarking on an exciting new partnership with **The Water Research Foundation** (WRF), the goal is to alleviate this growing pain.

Based in Denver, Colorado, WRF is a non-profit research foundation which funds research and technology demonstrations that enhance the value of water. WaterTAP will be working closely with WRF through its **Leaders Innovation Forum for Technology** (LIFT) program.

The natural synergies between the two organizations complement this partnership; both WaterTAP and LIFT focus on advancing water innovation. The LIFT program includes a number of critical components including technology evaluation, policy improvement, communication/training, and a deep network for utility technology and R&D managers.



▶ L-R: **Jeff Moeller, Melissa Meeker** (WRF), **Dr. Peter Gallant, Rick VanSant** (WaterTAP).

Photo: Nick Spector/WaterTAP

Through this agreement, WaterTAP and LIFT will collaborate in several ways, including identifying new technologies, facilitating pilots and demonstrations, and sharing information and data on technology performance.

Jeff Moeller, Director of Water Technologies at WRF and the WRF manager of the LIFT program, anticipates that the partnership with WaterTAP will spark more cross-border collaborations and opportunities for getting Canadian solutions into the U.S. market, and commends WaterTAP for its pioneering efforts to foster innovation.

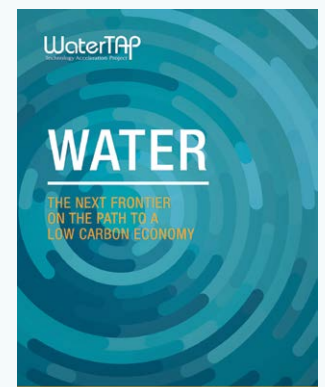
“WaterTAP has worked diligently to help support and advance new water innovations in the Ontario region to get these solutions out into the global marketplace,” he says. “That is where I see a real alignment of effort between the two organizations: Ontario is a hub for world-class water technology solutions and we want LIFT members worldwide to benefit widely from these powerful resources.” ◀

Read the full article at WaterTAPontario.com.

Report: Water Tech Next Step in Path to Low Carbon Economy

WaterTAP's newest report **Water: The next frontier on the path to a low carbon economy** asserts that clean water technology is vital to meeting GHG emissions targets. The report recommends a continuing focus on clean water technology as a reliable, cost-effective way to lower GHG emissions and create energy savings. ◀

Read the report at bit.ly/2pfKRNF



Ontario Cleantech Strategy Supports Accelerators

Ontario is supporting the development of new, globally competitive low-carbon technologies that will reduce greenhouse gas pollution and fight climate change.

In February, **Reza Moridi**, Minister of Research, Innovation and Science announced Ontario's new Cleantech Strategy, which will help cleantech companies launch products and services, find new customers, and scale up in a global market that is expected to be worth \$2.5 trillion by 2022.

As part of the strategy, which includes initiatives funded by proceeds from the province's carbon market, the Minister announced renewed funding for cleantech accelerators, including WaterTAP.

"By promoting the business of one of our most precious resources, WaterTAP is helping Ontario companies find solutions to some of today's greatest water challenges. Through renewed support for our cleantech accelerators, including WaterTAP, Ontario will continue building on a strong foundation of cleantech expertise and technologies to win in the global marketplace," he added. <

Read the full article at WaterTAPontario.com.



➔ **Minister Moridi** (centre) with **Kerry Freek** (left) and **Dr. Peter Gallant** (right) of WaterTAP.

Photo: WaterTAP

WaterTAP to Host Asset Management Sessions for Small Municipalities May 9 and May 31, 2018

WaterTAP has received support from the Federation of **Canadian Municipalities' Municipal Asset Management Program** (MAMP) to deliver asset management training workshops for small municipalities in southeastern and southwestern Ontario.

These workshops will build municipal capacity by increasing basic municipal AMP understanding and will provide guidance on how to incorporate life-cycle costing into AMP. The training will also focus on capacity identification within municipalities and capacity sharing between municipalities. <

See dates and registration details at WaterTAPontario.com.



Ontario Water Innovation Week Returns to Toronto in October



**ONTARIO
WATER
INNOVATION
WEEK**
OCTOBER 22-26 2018
TORONTO

Mark your calendars: WaterTAP is gearing up to host the third annual edition of Ontario Water Innovation Week (OnWIN) in Toronto from October 22 to October 26, 2018. You will want to save the date for a week full of exciting water industry events. As preparations unfold, expect further updates about OnWIN, but in the meantime, here are the most important details:

We're proud to partner with **Rethink Events** to host the highly anticipated World Water-Tech North America Summit (October 24-25). This forum attracts top utility leaders, innovative technology providers, and investors to discuss the latest proven solutions for today's most significant water challenges, share best practices, and make valuable business connections.

We're planning another immersive agenda for this year's Water Innovation in Action (October 23), which sets its sights on celebrating progress toward a sustainable water future in Ontario. <

Interested in partnering with OnWIN?

Contact Kerry Freek at kerry.freek@WaterTAPontario.com.

The 2018 OnWIN website launches in April. Stay tuned!



Events

Motivated by a mandate to grow the sector, WaterTAP participates in industry events to **strengthen global networks** and, *most importantly*, **open doors** for Ontario water technology companies.

AFN National Water Symposium Vancouver • February 6–8

- ▶ WaterTAP's **Dr. Lesley Herstein** attended the symposium to better understand jurisdictional issues in the Canadian water sector.

OGRA Conference • Toronto February 25–28



- ▶ WaterTAP's **Dr. Lesley Herstein** and **Trish Johnson** participated in interactive workshops to better understand linkages between life-cycle costing and water infrastructure affordability.

WaterTAP
Technology Acceleration Project

Water technology thrives here.™
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Find WaterTAP at these Upcoming Events

MARCH

GLOBE Forum, TRIECA

APRIL

ONEIA Environment and Cleantech Business and Policy Forum
WEAO Technical Symposium and OPCEA Exhibition
OOWA Annual Conference and Trade Show
Ontario's Water Conference and Trade Show

MAY

Blue Cities, IFAT Munich

JUNE

BlueTech Forum, ACE, Canadian Water Summit

Fishackathon • Toronto • February 11



- ▶ WaterTAP's **Raad Seraj** (right) participated as a judge for the global hackathon, which is designed to help make Earth's waters, aquaculture, and sheries more sustainable and equitable.

World Water-Tech Innovation Summit • London UK February 20–21



- ▶ WaterTAP's **Kerry Freek** attended the UK summit to offer Canadian insights, as well as to support the highly capable companies from Ontario. Case in point: **Thouheed Abdul Gaffoor**, the CEO of EMAGIN (Waterloo) speaks about how the water sector can harness AI to improve decision-making.