



**Partners in
Project Green**

A Program of Toronto and Region Conservation Authority

Slow the Flow, Speed up Savings, Water Efficiency for ICI Facilities in Peel

June 14, 2023

For optimal viewing

- Click 'View' in the top right-hand corner
 - Select "Side by Side: Gallery"
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Ask & Engage



Chat with fellow attendees using the chat feature

Use the Q&A feature to submit questions to the presenter

Q&A



We respectfully acknowledge that we are situated on the Traditional Territories and Treaty Lands, in particular those of the Mississauga Nation, as well as the Anishinaabe of the Williams Treaty First Nations, the Huron Wendat, and the Haudenosaunee.

As stewards of land and water resources within the Greater Toronto Region, Toronto and Region Conservation Authority appreciates and respects the history and diversity of the land and is grateful to have the opportunity to work and meet on this territory.



Agenda

Time	Item
1:05 PM	PPG updates
1:10 PM	Slow the Flow, Speed Up Savings: Water Efficiency for Industrial, Commercial, and Institutional Facilities in Peel
1:25 PM	Why Save Water? Building a Business Case for Water Conservation
1:45 PM	Q&A





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www.partnersinprojectgreen.com



Corporate Flood and Heat Risk Management Resource Hub

- Free resources provide ICI/MURB sectors with the knowledge to improve their property's adaptation to a changing climate.
- The videos and accessible resources discuss:
 - Flood and extreme heat risks in Canada and tools and actions to address them.
 - Benefits of utilizing Green Infrastructure (GI) and Low Impact Development (LID) techniques as sustainable solutions to build climate resilience.

Modules 1 and 2 are released.



<https://partnersinprojectgreen.com/water-stewardship/natural-infrastructure-and-climate-resiliency/>



Circular Economy Leaders Consortium

Join a network of sustainability industry professionals seeking to achieve measurable waste prevention and diversion goals, focused on facility management and operations by:

- Learning from each other's waste management and circular economy projects
- Sharing resources and expertise on best practices and innovative technologies
- Strategizing solutions to common challenges through collective projects
- Identifying opportunities for continuous improvement



Financing Net Zero



The banner features a hand pointing to a green hexagon with a white arrow pointing down and the text 'CO₂'. The background includes faint text like 'Recycle', 'Emission', 'Climate Change', 'Industry', and 'Energy Saving'. The event details are as follows:

- Partners in Project Green**
A Program of Toronto and Region Conservation Authority
- HYBRID EVENT**
- PART 3 OF 3 EVENT**
- FINANCING NET ZERO SERIES:
Financial Institutions**
- June 22 | 1:00 p.m. – 4:30 p.m.**

- Learn how financial institutions can support your GHG-reduction goals
- Network with like-minded businesses and share your story
- Register today and don't miss out!

Presenting partner:



Fariha Ahmed

Fariha is a water efficiency technical analyst at the Region of Peel since 2019. She has actively worked on the Industrial Indoor Water Assessments Program and supported several businesses when it comes to water usage in Peel over the years.

She is an active member of the Ontario Water Works Association's Water and Energy Efficiency Committee since 2019.



Lloyd Hipel

Lloyd is a professional engineer and a Project Director at Enviro-Stewards, which is an environmental engineering firm and Certified B Corporation that cultivates resilient businesses and improves lives in extraordinary ways.

Lloyd is a member of the OWWA's Water and Energy Efficiency Committee and is involved with Enviro-Stewards' humanitarian Safe Water Social Ventures, which helps establish locally owned and operated drinking water projects in communities in East Africa.



Syed Naqvi

Syed is a mechanical engineering , currently an EIT, pursuing his license to become a P.Eng., Syed serves as the Maintenance Coordinator at Super-Pufft Snacks Corp., where he leverages his skills to drive efficiency and productivity.

Additionally, he actively contributes as the Secretary of the Joint Health and Safety Committee, identifying risks and promoting a culture of safety. His experience spans with roles in renewable energy, oil & gas, automotive, food, & sheet metal industries, which has allowed Syed to acquire valuable expertise and hone his problem-solving abilities across various domains.



Slow the Flow, Speed Up Savings: Water Efficiency for Industrial, Commercial, and Institutional Facilities in Peel

Fariha Ahmed,
Technical Analyst, water efficiency
Region of Peel

Agenda

- Background
- Program details (industrial)
- Eligibility
- Application process
- Commercial/Institutional
- Questions



Poll 1



Background

- Environmental Education team provides information and resources to schools, businesses and the public on Water, Wastewater, Waste, Transportation
- The Region of Peel recently updated its water efficiency resources for businesses:
 - Webpage: [Water efficiency for businesses](#)
 - » Details for industrial, commercial, institutional facilities
 - Goal: assist businesses in Peel RE water efficiency
 - Industrial Indoor Water Assessments Program



Program details

Most common water saving opportunities for industrial properties:

- Replace water-cooled systems with air-cooled systems
- Remove once-through water use processes

Industrial Indoor Water Assessments Program offers industrial customers a **free water audit**. This audit will help determine water saving opportunities and associated return on investment.

How to participate:

- Email: fariha.ahmed@peelregion.ca
- Phone: 905-791-7800 ext. 3311
- Complete [online contact form](#)



Poll 2



Eligibility

1. In Peel (*Brampton, Mississauga, Caledon*)
2. Industrial facility (manufacturing, supplier, etc.)
3. Business contains water using equipment/processes
4. Open to a site walk-through that may include non-intrusive metering
5. Business size: medium to large facility



Application process

1. Business reaches out to Region to learn more about program (via email, phone, online contact form)
2. Virtual meeting (30 minutes) scheduled to discuss program and business details
3. Audit (on-site)
4. Report
5. Up to business to make recommended change(s) from report (no specific deadline)
6. If changes are made, second audit scheduled and performed on-site
7. Second report
8. Social media option



City of Mississauga

Mississauga Climate Leaders Program (MCLP):

- Greenhouse Gas Emission Reduction Plan Training
- Greenhouse Gas Emission & Energy Efficiency Site Assessments

How to participate:

- - [Mississauga Climate Leader Program | \(thefutureisunlimited.ca\)](https://thefutureisunlimited.ca)
- Email: john.barber@mississauga.ca
- Phone: 905-615-3200 x8109



Poll 3



Commercial/Institutional

The Region of Peel recently updated water efficiency webpage for commercial and institutional properties:

<https://www.peelregion.ca/water/efficiency/commercial-properties.asp>

Leaks are one of the top reasons for high water bills and performing regular property inspections can help prevent this. Your water bill can also be reduced if inefficient water use equipment is replaced with [water efficient models](#).



Equipment most commonly replaced

**costs and savings are dependent on level of usage, all values are approximate*

**investment based on online research / money and water saved based on different sources (reports, specs, historic program data)*

Walk-in fridge, freezer unit, or condenser

- Replace your water-cooled unit or condenser with an air-cooled more water-efficient model.
- Money saved per year: \$2,600
- One-time investment cost: \$3,000
- Water saved per year: 850 m³



Ice machine

- Replace your water cooled condenser with an air-cooled unit
- Money saved per year: \$1,220
- One-time investment cost: \$3,900
- Water saved per year: 390 m³



Commercial toilet flush valve or bowl combo (or both)

- Replace a non-WaterSense labelled flushometer-valve toilet with a [WaterSense](#) unit.
- Money saved per year: \$845
- One-time investment cost: \$450
- Water saved per year: 270 m³



Save by replacing inefficient equipment

**costs and savings are dependent on level of usage, all values are approximate
*investment based on online research / money and water saved based on different sources
(reports, specs, historic program data)*

Urinal unit

- Replace a non-WaterSense labelled urinal with a [WaterSense](#) unit or waterless unit.
- Money saved per year: \$53
- One-time investment cost: \$470
- Water saved per year: 17 m³



Pre-rinse spray valve

- Replace a non-WaterSense labelled pre-rinse spray valve with a [WaterSense](#) unit.
- Money saved per year: \$85
- One-time investment cost: \$270
- Water saved per year: 27 m³



Dipper well

- Install a dipper well faucet that has a flow rate of less than 0.95 Lpm (litres per minute).
- Money saved per year: \$2,300
- One-time investment cost: \$270
- Water saved per year: 27 m³





Water Conservation Incentive Programs

YORK REGION ICI INCENTIVE PROGRAMS

ICI Capacity Buyback Incentive Program



- Offers a comprehensive water audit to identify water saving opportunities for high water-use businesses
- One time incentive of up to 50% of the cost to undertake the process changes to a max. of **\$50,000**

All program details and application forms can be found at york.ca/waterincentives

*These programs are on a first come, first-served bases, based on available budget

Water Efficiency Equipment Replacement Incentive Program



- Offers financial incentives for businesses to replace inefficient equipment with new water-efficient equipment e.g., toilets and showerheads
- Each incentive is 50% of equipment cost, up to the maximum of the incentive value, and a total combined incentive of **\$10,000**

City of Toronto Water Efficiency for Business

Save Water. Save Money. It's Good Business.

The City of Toronto has a number of programs to help **commercial**, **industrial** and **institutional** customers save water and save money.

CAPACITY BUY BACK PROGRAM



Average project could net you approximately
\$7,440



INDUSTRIAL WATER RATE (AKA BLOCK 2)

Manufacturing businesses consuming more than 5,000m³ of water a year may be eligible for a 30% reduction in the water rate.

Eligibility includes implementing a water conservation plan.



SEWER SURCHARGE REBATE

Industrial and commercial businesses that keep water out of the sewer system* may be eligible for a rebate based on the percentage of water not returned to the sewer system.

*e.g. water evaporated from cooling towers or used to make a product.

Average program participant receives
\$48,607



- Incentive programs available to Toronto ICI water customers
- For more information visit toronto.ca/water
- Email: savewater@toronto.ca



Why Save Water? Building a Business Case for Water Conservation



Q & A



**Partners in
Project Green**

A Program of Toronto and Region Conservation Authority

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