



**Executive Management Committee Meeting was held by video conference on Tuesday March 2, 2021, pursuant to section C.12 of the TRCA's Board of Directors Administrative By-Law. The Co-Chair Todd Ernst called the meeting to order at 6:31 p.m.**

**VOTING MEMBERS**

John Coyne, Co-Chair	Present
Todd Ernst, Co-Chair	Present
Erica Brabon, Member	Absent
Michelle Brown, Member	Present
Brad Chittick, Member	Present
Chris Fonseca, Member	Present
Jack Heath, Member	Present
Maxx Kochar, Member (in at 6:40 p.m.)	Present
John MacKenzie, Member	Present
Anthony Perruzza, Member	Present
Paul Vicente, Member	Present

**ADVISORY MEMBERS**

Scott Pegg, Member	Absent
Doug Whillans, Member	Present

The Co-Chair Todd Ernst recited the Acknowledgement of Indigenous Territory.

**RES.#PPG1/21 - APPOINTMENTS TO THE PARTNERS IN PROJECT GREEN  
EXECUTIVE MANAGEMENT COMMITTEE**

Moved by: Jack Heath  
Seconded by: John MacKenzie

**THAT the list of appointments to the Partners in Project Green Executive Management Committee be received.**

**CARRIED**

The Clerk can advise that all the persons listed below have been duly appointed and are entitled to sit as Members of the Partners in Project Green Executive Management Committee for a term of February 26, 2021 to November 14, 2022, or until their successors are appointed.

<b>TRCA</b>	John MacKenzie, Chief Executive Officer
<b>GTAA</b>	Todd Ernst, Director, Aviation Infrastructure, Energy & Environment
<b>BUSINESS LEADERS</b>	Erica Brabon, Director, Energy & Sustainability, Black and McDonald Michelle Brown, Vice President, Property Management, BentallGreenOak Brad Chittick, President, Hydrogen Business Council John Coyne, Vice President, External Affairs & Sustainability, Unilever Canada Maxx Kochar, Chief Business Officer, Silver Dart Group
<b>MUNICIPAL LEADERS</b>	Regional Councillor Chris Fonseca, City of Mississauga Councillor Anthony Perruzza, City of Toronto Regional Councillor Jack Heath, City of Markham Regional Councillor Paul Vicente, City of Brampton
<b>ADVISORY MEMBERS</b>	Councillor Doug Whillans, City of Brampton Scott Pegg, Senior Vice President, Infrastructure Ontario

As per section 2.3 of the Partners in Project Green Executive Management Committee (PPG EMC) Terms of Reference, membership consists of one Greater Toronto Airports Authority (GTAA) member, up to eight Business Community Leaders, one TRCA representative, up to four Municipal Leaders, and up to five advisory non-voting representatives. Section 2.4 further stipulates that members are appointed for a two-year, renewable term by the TRCA Board of Directors.

**RES.#PPG2/21 - MINUTES**

Moved by: Chris Fonseca  
Seconded by: Paul Vicente

**THAT the Minutes of Meeting #3/20, held on November 17, 2020, be approved.**

**CARRIED**

## **Items for the Action of the Partners in Project Green Executive Management Committee**

### **RES.#PPG3/21 - CALL FOR APPLICATIONS – PPG EMC APPOINTMENT FROM NYGEP-PAIE**

To approve a call for applications, seeking a participant or alumnus of the TRCA's Newcomer Youth Green Economy Program or Professional Access Into Employment Program to join the PPG Executive Management Committee as an advisory member.

Moved by: Michelle Brown  
Seconded by: Jack Heath

**WHEREAS at Meeting #2/20, held on September 22, 2020, the Partners in Project Green Executive Management Committee approved, in principle, the appointment of a participant or alumnus of the Newcomer Youth Green Economy Project and Professional Access Into Employment programs to an advisory member position on the PPG EMC;**

**THEREFORE, LET IT BE RESOLVED THAT this call for applications be approved.**

**CARRIED**

### **BACKGROUND**

According to the 2019-2023 Terms of Reference (ToR), Partners in Project Green (PPG) Executive Management Committee (EMC) voting members are to represent the following groups in the number shown: TRCA (1); GTAA (1); Business community leaders (8); and, Municipal leaders (4). This composition was created in order to ensure proper representation from primary PPG stakeholder groups. In addition, the EMC may have up to five (5) non-voting Advisory members that can be drawn from Federal, Provincial, or Municipal governments, or from the business community.

At Meeting #2/20, the PPG EMC approved, in principle, the recruitment of a participant or alumnus of TRCA's Newcomer Youth Green Economy Project (NYGEP) or Professional Access into Employment (PAIE) program to fill an Advisory Member role of the EMC as a means to diversify membership on the EMC to include under-represented professionals within this governance structure.

There are currently two (2) Advisory members on the EMC: Councilor Whillans (City of Brampton), Scott Pegg (Infrastructure Ontario). Advisory members provide insights and opinions on PPG strategy, programs and efforts and do not vote on issues before the committee.

### **RATIONALE**

PAIE is an innovative bridge training program that helps internationally-trained environmental professionals launch their careers in Engineering, Geoscience, Environmental Science and Planning. The PAIE Program empowers participants with an increased understanding of the local labour market. PAIE supports participants as they pursue their goals of obtaining employment and gaining the Canadian experience required for professional licensing and certifications.

Funded by the Government of Ontario, the Newcomer Youth Green Economy Project (NYGEP), supports newcomer post-secondary students in the GTA to access field trips, experiential learning opportunities, and job skills training. Through a five-month part-time program, participants gain access to learning opportunities in the environmental career pathways of ecological restoration, water management, green energy/green buildings, and environmental

education.

In addition to ensuring the committee composition adheres to the ToR, there is an opportunity to improve representation of the communities PPG serves through an Advisory member appointment of a professional who is a participant or alumnus from TRCA's NYGEP or PAIE. In addition, the PPG EMC has discussed their interest in advancing racial and gender inclusion within governance structures as an important aspect of achieving objectives related to diversity and equity. The proposed call for applications (attached) is an opportunity to attract more diverse representation on the PPG EMC.

### **Relationship to Building the Living City, the TRCA 2013-2022 Strategic Plan**

This report supports the following strategies set forth in the TRCA 2013-2022 Strategic Plan:

**Strategy 1 – Green the Toronto region's economy**

**Strategy 5 – Foster sustainable citizenship**

**Strategy 8 – Gather and share the best sustainability knowledge**

### **FINANCIAL DETAILS**

PPG Executive Management Committee members contribute their expertise as in-kind services. Compensation for transportation will be provided for attendance at meetings according to TRCA policy where these are not covered by their agency or other source. Staff time involved in EMC management is charged to account no. 11635 (413-16).

### **DETAILS OF WORK TO BE DONE**

Pending the approval of this call for applications, PPG staff will begin the appointment process, involving the Clerk's office as required. We anticipate that the call for applications could be made in Q1 2021 with the selected candidate being appointed in Q2 2021.

**Report prepared by: Jeff Robertson 416-894-8454**

**Emails: [jeff.roberston@trca.ca](mailto:jeff.roberston@trca.ca)**

**For Information contact: Jeff Robertson, 416-894-8454**

**Emails: [jeff.roberston@trca.ca](mailto:jeff.roberston@trca.ca)**

**Date: February 5, 2021**

**Attachments: 1**

Attachment 1: Draft Call for Applications – PPG EMC NYGEP/PAIE

# Attachment 1

## Partners in Project Green Call for Applications to the Executive Management Committee for the NYGEP / PAIE Advisory Member Position is now Open

Initiated by Greater Toronto Airports Authority (GTAA) and Toronto and Region Conservation Authority (TRCA), Partners in Project Green (PPG) supports a growing community of businesses working together to strengthen the Greater Toronto Area's economy and environmental sustainability by fostering collaborations with businesses and municipalities, supporting the implementation of green technologies and participating in projects that produce tangible environmental benefits.

Reporting to the TRCA Board of Directors, the PPG Executive Management Committee (EMC) is responsible for providing leadership and acting as ambassadors for the program, reviewing and approving strategy and programs as required, and monitoring overall priorities and performance.

The EMC is comprised of business community leaders, municipal representatives, and TRCA staff. Members are categorized as voting members or advisory members. In September 2020 the PPG EMC approved a resolution to open an Advisory Member position to a past or current TRCA Newcomer Youth Green Economy Project (NYGEP) or Professional Access into Employment (PAIE) participant.

New members will be supported and mentored by the existing EMC members to help ease the transition into this leadership role. Participation on the EMC is voluntary and there is no remuneration for service.

### Expected Commitment

- PPG EMC members are appointed for a two-year renewable term by the TRCA Board of Directors.
- Members attend 4 meetings per year, roughly every three months. Meetings are approximately 2 hours in length.
- Members are expected to review meeting agendas in advance of each meeting.
- Commit the time and resources to serve on the EMC and represent PPG as requested.

### Qualifications

- Commitment to the sustainable transition to a green economy.
- Personal commitment to devote the time necessary to perform the responsibilities of an EMC member.
- Strong communication and collaborative skills.

### To apply:

- This position is open to past and current participants in the TRCA NYGEP and PAIE programs
- Please submit a cover letter and your resume by (DATE) to (ADDRESS)
- All cover letters and résumé / CVs will be reviewed by PPG staff to be selected for an interview
- PPG staff will conduct interviews The EMC will conduct interviews and then motion for selection

# Attachment 1

We thank all applicants in advance, however only those selected for an interview will be contacted.

For more information about the role and nomination process please contact Jeff Robertson, Senior Manager, Partners in Project Green, at [jeff.robertson@trca.ca](mailto:jeff.robertson@trca.ca).

## About Toronto and Region Conservation

With more than 60 years of experience, TRCA is one of [36 Conservation Authorities](#) in Ontario. Working with municipalities and other partners to look after [the watersheds of the Toronto region and its Lake Ontario waterfront](#), we help people understand, enjoy and look after the natural environment. Our vision is for The Living City®, where human settlement can flourish forever as part of nature's beauty and diversity.

## About Toronto Pearson

The Greater Toronto Airports Authority (GTAA) is the operator of Toronto Pearson International Airport. The GTAA's vision is to make Toronto Pearson the best airport in the world. Towards this objective, the GTAA focuses on ensuring the safety and security of passengers and airport employees, enhancing the passenger experience and supporting the success of its airline partners. Toronto Pearson served more than 47 million passengers in 2017, making it Canada's largest airport and the second-busiest North American international airport.

## **Items for the Information of the Partners in Project Green Executive Management Committee**

### **RES.#PPG4/21 -**

#### **2021 WATER STEWARDSHIP PROGRAM UPDATE**

Update on municipal programs affecting water stewardship programming, and overview of PPG Water Stewardship Program direction for 2021 that benefitted from facilitated roundtable and consultation discussions to assist with effective program delivery.

Moved by: Michelle Brown  
Seconded by: Chris Fonseca

**IT IS RECOMMENDED THAT the following information report and presentation on the highlights of 2021 PPG Water Stewardship program delivery be received.**

**CARRIED**

### **BACKGROUND**

Partners in Project Green: A Pearson Eco-Business Zone was launched in 2008 by Toronto and Region Conservation Authority (TRCA) and the Greater Toronto Airports Authority (GTAA), with support from municipalities including Peel, York, the City of Toronto, and lower tier municipalities including Mississauga and Brampton, and from the nearby business community to transform the employment lands surrounding Toronto Pearson, and located within TRCA's Etobicoke-Mimico Creeks Watershed into an internationally recognized community of eco-friendly businesses.

At Board of Directors Meeting #4/19, held on April 26, 2019, Resolution #A51/19 was approved as follows:

*THAT the Partners in Project Green Strategic Refresh 2019-2023 and Executive Management Committee Terms of Reference 2019-2023 ... be approved*

This strategic refresh was intended to guide the next generation of eco-business activities through PPG focused on increased engagement, improved performance outcomes and enhanced alignment with municipal and business priorities. The delivery model for Partners in Project Green was updated to include four performance areas:

1. Waste Management
2. Water Stewardship
3. Energy Performance & Low Carbon Transport, and
4. Communications & Engagement.

### **RATIONALE**

The PPG Water Stewardship team consolidated the previous Stormwater Infrastructure Projects program, the Innovative Water Technologies program, and the Water Auditing program into two programs going forward: the Natural Infrastructure and Climate Resiliency program and the Water Efficiency program. Both programs went live on the Partners in Project Green website in December 2020 and are now readily available for businesses within TRCA's jurisdiction to access and utilize.

#### **Natural Infrastructure and Climate Resiliency**

The Natural Infrastructure and Climate Resiliency program helps property managers, commercial developers, industrial manufacturers, institutional facilities, and business owners

understand their climate risks and identify opportunities to mitigate those risks and provides support to this segment of the marketplace to become more climate resilient.

This program focuses on natural infrastructure, utilizing the environmental services that nature provides as a method of building resiliency to climate change, while creating a host of co-benefits. The program will seek to reduce the area of impermeable surfaces through on-site implementation of natural infrastructure on corporate properties and through business-led sponsorship of stormwater offset projects. This program re-design aligns positively with City of Toronto's effort to update their Water Fees, Charges, and Programs; consultation took place in December 2020 (<http://www.toronto.ca/waterconsultation>). TRCA/PPG staff provided direct input on the potential for a stormwater charge credit program to be explored for the industrial, commercial, and institutional sector.

### **Water Efficiency Program**

The Water Efficiency program is designed to work collaboratively with local municipalities to provide water efficiency project identification and implementation support for businesses. Partners in Project Green's role through this program is to help businesses in the Greater Toronto Area (GTA) discover and successfully implement water stewardship projects in their facilities. Partners in Project Green helps organizations reduce their process water and wastewater footprint to maximize environmental benefits and minimize operational costs.

The Water Efficiency program is supported by Region of Peel, City of Toronto, and York Region and is offered by the municipalities with incentives available to help lower the capital costs required to implement water efficient upgrades.

Region of Peel's WaterSmart Peel programming focused on businesses includes Business Equipment Replacement Incentives, Irrigation System Assessments, and Indoor Water Assessments. This programming has been placed on hold for 2021 as announced through a stakeholder reference letter received in September 2020. These changes are a result of the Water Efficiency Strategy update, for which current review and evaluation for business support programs will be taking place in 2021.

### **Water Stewardship Roundtable Event**

Following the COVID-related shutdown of multiple municipal water stewardship audit programs (such as the Region of Peel's WaterSmartPeel Indoor Water Assessment program), TRCA/PPG staff identified a need to develop targeted programming to assist local businesses in pursuing water efficiency and water stewardship programs. Following consultations with these municipalities, TRCA/PPG staff hosted an invite-only Water Stewardship Roundtable on November 25. The focus of this discussion was to uncover priorities and challenges shared by multiple local businesses related to on-site stormwater management, process water uses and wastewater footprint reduction, and collaboratively identify potential water stewardship projects which are viable despite municipal programming changes.

15 organizations attended including the following corporations and municipal stakeholders:

- Air Canada
- Apotex
- Calstone
- Coca-Cola Bottling Limited
- Dextran Products
- Greater Toronto Airports Authority



- Longo's
- Molson-Coors
- Peel District School Board
- Region of Peel
- Seneca College
- Unity Health
- University of Toronto Mississauga
- Weston Foods
- York Region

61 distinct collaborative implementation opportunities were identified from this roundtable, including seven specific action items for the PPG Water Stewardship team to pursue in 2021:

1. Develop a Water Leaders Consortium concept
2. Confirm timelines for implementation of project opportunities
3. Perform resource gap analysis for each organization
4. Relay reference materials
5. Develop inventory of technical support
6. Pursue supportive governmental alignment
7. Develop case study repository

#### **DETAILS OF WORK TO BE DONE**

At upcoming PPG Executive Management Committee meetings, staff will provide detailed reports and updates related to the evolution of PPG's programming and formats, ensuring delivery of program outcomes while acting in accordance with public health directives related to pandemic spread.

**Report prepared by: Jeff Robertson, 416-894-8454; Eric Meliton, 416-661-6600 x 5890**

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**Emails: [Jeff.Robertson@trca.ca](mailto:Jeff.Robertson@trca.ca)**

**Date: February 2, 2021**

**Attachments: 1**

Attachment 1: 2021 Programming Update – Water Stewardship

# 2021 Programming Update – Water Stewardship

(10 minutes)

# Natural Infrastructure and Climate Resiliency

## What are the benefits to my organization?

- Resiliency for your business and your community through the utilization of natural infrastructure solutions on private and public lands
- Mitigate risks and potential costs from flooding and extreme weather events including physical damage, supply chain and operational interruptions, and threats to water quality
- Access to a community of experts and vendors to assist with natural infrastructure implementation opportunities
- **Program landing page** - <https://partnersinprojectgreen.com/your-needs/water-stewardship/natural-infrastructure-climate-resiliency/>



# Natural Infrastructure and Climate Resiliency

## Business Case for Natural Infrastructure (2020)

### White Paper and Article publications



- As a liaison between the conservation community and the private sector, Partners in Project Green is uniquely positioned to provide information for businesses on flooding issues in the GTA, on the benefits of natural infrastructure, and on the business case for action
- **White paper** - <https://partnersinprojectgreen.com/natural-infrastructure-white-paper/>
- **ReNew Canada magazine** - <https://partnersinprojectgreen.com/wp-content/uploads/2020/08/Renew-Canada-greeninfrastructure-julyaug-2020.pdf>



# Water Efficiency

## What are the benefits to my organization?

- Consult with a network of experts and technology providers dedicated to helping you solve your organization's process water and wastewater challenges and realize efficiencies.
- Learn from other organizations in our network that have improved their processes by installing industry best practices and innovative water efficient technologies.
- Utilize existing municipal programs, supportive incentives, and potentially reduce process water and wastewater footprints and enhance utility savings.
- Improve Environmental, Social and Governance (ESG), Sustainable Development Goals (SDG), and Corporate Social Responsibility (CSR) performance of businesses.
- **Program landing page - <https://partnersinprojectgreen.com/your-needs/water-stewardship/water-efficiency/>**



# Water Efficiency

## Municipal Eco-Cluster (2019)

### Summary Report and Article publications



- 18-month working group focused on ICI sector water efficiency program alignment between Region of Peel, City of Toronto, York Region, City of Guelph, and Region of Waterloo
- **Summary report -** <https://partnersinprojectgreen.com/resources/municipal-water-efficiency-eco-cluster-summary-report/>
- **Environmental Science & Engineering magazine -** <https://esemag.com/water/craft-brewery-cuts-water-consumption-by-10/>
- **Ontario Pipeline magazine -** [https://www.ontariopipeline-digital.com/owwq/0219\\_summer\\_2019/MobilePagedArticle.action?articleId=1502692#articleId1502692](https://www.ontariopipeline-digital.com/owwq/0219_summer_2019/MobilePagedArticle.action?articleId=1502692#articleId1502692)

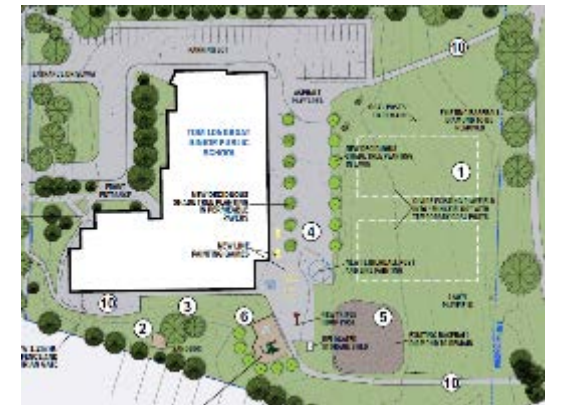
This initiative was made possible in part through the financial support of the Independent Electricity System Operator's (IESO) Education and Capacity Building Program. TRCA is solely responsible for implementation of, and the content of any materials produced by, this initiative, and the IESO has no responsibility or liability whatsoever in the event that any person suffers any losses or damages of any kind as a result of the initiative.

# Collective Implementation Opportunities



## Successful examples of collaborative partnerships

- Nine collaborative implementation projects with industrial and commercial end users that utilized governmental program support and incentivization (references in Appendix section)
- Water offset impact equivalent to 918 Olympic sized swimming pools
- Project awards: Clean 50 (3), Nature Inspiration, North American Pollinator Protection
- Vendor network support (for both green infrastructure and water efficiency services and technologies) to accelerate project implementation
- Case studies and trade publication articles showcasing industry collaboration, stakeholder success, and collective impact







# Water Industry Roundtable – November 2020

## Roundtable Objectives:

1. Identify the common challenges and opportunities available in managing water utility operational footprints and on-site stormwater management
2. Share industry case studies and best practices that Partners in Project Green has led to encourage companies to pursue similar implementation opportunities
3. Inspire industry leadership and collaborative goals




# Water Industry Roundtable Participants



# Water Industry Roundtable Action Items for 2021

PPG Action Item	Brief Description	Estimated Timeline for Completion
Develop concept for Water Leaders Consortium	<ul style="list-style-type: none"> <li>Establish consortium model</li> <li>Invitations to Roundtable attendees</li> </ul>	<ul style="list-style-type: none"> <li>Q1 2021</li> </ul>
Confirm timelines for project completion for each organization	<ul style="list-style-type: none"> <li>Meet with Roundtable attendees</li> <li>Confirm timelines for project implementation</li> </ul>	<ul style="list-style-type: none"> <li>Q1 2021</li> </ul>
Perform resource gap analysis for each organization	<ul style="list-style-type: none"> <li>Identify resource gaps sought by end users</li> <li>Confirm funding capacity from stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Q1/Q2 2021</li> </ul>
Relay reference materials	<ul style="list-style-type: none"> <li>Relay customized list of materials identified</li> <li>Establish repository for materials identified</li> </ul>	<ul style="list-style-type: none"> <li>Q1 2021</li> </ul>
Develop inventory of technical support	<ul style="list-style-type: none"> <li>Establish industry vendor network(s)</li> <li>Establish supportive stakeholder network(s)</li> </ul>	<ul style="list-style-type: none"> <li>Q1/Q2 2021</li> </ul>
Pursue supportive governmental alignment	<ul style="list-style-type: none"> <li>Meet with OWWA Water Efficiency committee</li> <li>Meet with Peel, York, Toronto programs (efficiency)</li> <li>Meet with Mississauga, Brampton, Toronto (stormwater)</li> </ul>	<ul style="list-style-type: none"> <li>Q1/Q2 2021</li> </ul>
Develop case study repository	<ul style="list-style-type: none"> <li>Establish inventory of case study references</li> <li>Develop new case studies with Roundtable participants</li> </ul>	<ul style="list-style-type: none"> <li>Q2/Q3 2021</li> </ul>
Confirm supportive categorization from PPG	<ul style="list-style-type: none"> <li>Water management / Sustainability plan development</li> <li>Sewer surcharge / wastewater discharge reduction</li> <li>On-site stormwater management / resiliency</li> <li>Water efficiency capital retrofit capacity</li> <li>Pilot program development and participation</li> <li>Funding source capacity for implementation support</li> </ul>	<ul style="list-style-type: none"> <li>Ongoing</li> </ul>



# Appendix I

(Brainstorming Questions)

# Brainstorming Questions



## Uncovering Water Stewardship Opportunities

- What are some of the common challenges that your organization faces managing operational water footprint or on-site stormwater management?
- What are your current priorities when it comes to water stewardship over the next 1-3 years?
- What are your primary motivators for making some of these changes?





# Appendix II

(Case study references)

# Natural Infrastructure and Climate Resiliency

## Green Infrastructure Implementation (2015)

### Calstone's "Ponds"



- 44,000 ft<sup>2</sup> of drainage area supported (rooftop, infiltration ponds)
- Infiltrates ~1.8 M litres of on-site stormwater runoff capacity per year
- Industry recognition: (4) trade publication articles, (2) case studies, multiple stakeholder awards (e.g. Clean50, Green Business Leader)
- **PPG Partners:** Calstone, XCG, Grounds Covered, Ministry of Environment
- **Case study** - <https://sustainabletechnologies.ca/home/urban-runoff-green-infrastructure/low-impact-development/evaluation-retrofitted-stormwater-source-control-practices-calstone-inc-toronto/>

# Natural Infrastructure and Climate Resiliency

## Corporate Social Responsibility Implementation (2018)



### Raingarden / Pollinator Habitat / Engagement Pilot

- Neighbourhood Improvement Area
- 800 m<sup>2</sup> of on-site infiltration
- ~700k litres of on-site stormwater runoff capacity each year
- 2,000+ native plant species
- **PPG Partners:** Toronto District School Board (Tom Longboat Junior Public School), Calstone
- **Award recipient video -**  
<https://www.youtube.com/watch?v=UsCdsB7oI34>



# Natural Infrastructure and Climate Resiliency

## Tower Program Demonstration (2019-2021)

### Burnhamthorpe SNAP Collaboration



- Help older multi-unit residential buildings make improvements to their building and gain from savings
- Providing co-benefits to the community and help to improve aging affordable housing
- **PPG Partners:** TRCA SNAP, Starlight Investments, City of Mississauga, Eco-Source, Federation of Canadian Municipalities
- **Pilot program landing page -**  
<https://trca.ca/conservation/sustainable-neighbourhoods/snap-neighbourhood-projects/burnhamthorpe-snap/projects-tower-program/>



# Natural Infrastructure and Climate Resiliency

Green Infrastructure Leadership Lab (2021-2023)

## Greening Corporate Grounds Collaboration

- Minimize potential stormwater risks to property and the environment
- Increase uptake of the stormwater credit program by building leadership within the business community
- Improving the profile and awareness of green infrastructure and innovative stormwater management practices
- **PPG Partners:** Credit Valley Conservation, City of Mississauga, Mississauga Board of Trade



# Water Efficiency

## Water Conservation and Reuse (2016)



## Dextran Products Water reuse retrofit

- Reduction of rising operational costs: gas, chemical treatment, surcharge fees
- Reduction in process water and wastewater footprint
- 8-step retrofit capital project: \$60k investment to redeem \$110k savings

- **Case study -**

<https://partnersinprojectgreen.com/case-study/dextran-products-water-stewardship/>

💧 ~45.4 million litres of process water offset from operations

# Water Efficiency

## Water Conservation (2016)



### Campbell's Reverse Osmosis retrofit

- Reverse osmosis retrofit installation
- Reduction in CO2 loading
- Reduction in chemical usage
- Boost boiler efficiency
- \$397,000 capital project, \$80,000 grant

💧 ~18.3 million litres of process water offset from operations

# Water Efficiency

## Water Conservation (2017)



### **Molson-Coors Pre-buffer cooling process retrofit**

- Bottle and can line retrofit installation
- Electrical equipment enhancements
- Pasteurization equipment enhancements
- \$225,000 capital project, \$78,000 grant

💧 ~34.6 million litres of process water offset from operations

# Water Efficiency

## Water Conservation (2017)



### Supreme Egg 10-step water conservation retrofit

- Enhanced clean in place practices
  - Sanitation and pasteurization adjustments
  - \$136,722 in overall operational savings
  - 30% municipal block rate incentive
- 
- ~7.7 million litres of process water offset from operations per year
  - ~28.3 tonnes of greenhouse gas emission reduction (municipal electricity pumping, natural gas, steam heat recovery)
  - **Case study** - <https://partnersinprojectgreen.com/case-study/municipal-water-efficiency-eco-cluster-supreme-egg/>

# Water Efficiency

## Water Conservation (2017)



### Credit Valley Hospital Sterilizer and heat exchanger retrofit

- Sterilizer equipped with vacuum pumps
  - Heat exchanger for preheating efficiency
  - \$43,573 in overall operational savings
  - \$12,750 municipal program incentive
- 
- ~18.6 million litres of process water offset from operations per year
  - ~28.2 tonnes of greenhouse gas emission reduction (municipal electricity pumping, natural gas, steam heat recovery)
  - **Case study** - <https://partnersinprojectgreen.com/case-study/municipal-water-efficiency-eco-cluster-credit-valley-hospital/>



# Water Efficiency

## Water Conservation (2018)



## Arla Foods Process water reuse & efficiency retrofit

- Spray nozzle and process water reuse
  - Natural gas, cleaning chemical reduction
  - \$285,000 in overall operational savings
  - \$30,513 municipal program incentive
- ~122.4 million litres of process water offset from operations per year
  - ~212.0 tonnes of greenhouse gas emission reduction (municipal electricity pumping, natural gas, steam heat recovery)
  - **Case study** - <https://partnersinprojectgreen.com/case-study/municipal-water-efficiency-eco-cluster-arla-foods/>

## **DISCUSSION SUMMARY**

Eric Meliton provided a presentation to the EMC on updates to the Watershed Stewardship Program. The presentation covered several updates related to natural infrastructure and climate resiliency and the benefits to their organizations, and examples of collaborative implementation opportunities related to Green Infrastructure Implementation projects and water efficiency projects.

Members asked about a recent Canadian fresh water survey that was circulated to municipalities. Staff responded that the federal government is considering to establish a water agency and are looking for input from provincial and municipal partners to determine whether there is demand for a national program.



## **Items for the Information of the Partners in Project Green Executive Management Committee**

### **RES.#PPG5/21 -**

### **SUMMARY OF 2020 PARTNERS IN PROJECT GREEN (PPG) ACHIEVEMENTS**

To provide the Partners in Project Green Executive Management Committee ("PPG EMC") with a summary of PPG's main deliverables and outcomes from calendar year 2020.

Moved by: Maxx Kochar  
Seconded by: Brad Chittick

**IT IS RECOMMENDED THAT the following information report on the key PPG outcomes for the calendar year 2020 be received.**

**CARRIED**

### **BACKGROUND**

Partners in Project Green: A Pearson Eco-Business Zone was launched in 2008 by Toronto and Region Conservation Authority (TRCA) and the Greater Toronto Airports Authority (GTAA), with support from municipalities including Peel, York, the City of Toronto, and lower tier municipalities including Mississauga and Brampton, and from the nearby business community to transform the employment lands surrounding Toronto Pearson, and located within TRCA's Etobicoke-Mimico Creeks Watershed into an internationally recognized community of eco-friendly businesses.

At Board of Directors Meeting #4/19, held on April 26, 2019, Resolution #A51/19 was approved as follows:

*THAT the Partners in Project Green Strategic Refresh 2019-2023 and Executive Management Committee Terms of Reference 2019-2023 ... be approved*

This strategic refresh was intended to guide the next generation of eco-business activities through PPG focused on increased engagement, improved performance outcomes and enhanced alignment with municipal and business priorities.

In a section entitled "Alignment with TRCA Strategy", the strategic refresh indicates that the accomplishments "of PPG and its members will be measured through a variety of performance metrics." An initial list of metrics is also provided in the same section and is reproduced below:

- # of projects implemented
- # tonnes of material avoided from landfill
- # tonnes CO2e reduced
- # litres of water reduced
- # of individuals reached
- # of organizations reached
- # of members
- % of self-generated revenue

In addition to the metrics above, PPG also tracks the number of sustainability actions completed by participants in the annual 'People Power Challenge'.

### **RATIONALE**

Despite a challenging year for PPG and its members, the PPG staff and program participants

continued to advance their sustainability knowledge and implement impactful projects throughout 2020. Partners in Project Green led or supported the following programs in 2020, categorized by performance area:

Performance Area	Program
Water Stewardship	Water Efficiency
	Natural Infrastructure & Low Impact Development
	Water Stewardship Roundtable Series
Energy Performance & Low-Carbon Transport	Energy Leaders Consortium
	SME Energy Management Consortium
	Peel Climate Change Partnership (Regional ZEV Strategy)*
Communications & Engagement	Green Economy Webinar Series
	Legislator Fireside Chat Series
	People Power Challenge
Waste Management	Material Exchange
	Recycling Collection Drive
	Waste Management Roundtable Series
Cross-Functional Programs	GreenBiz Caledon
	Economic Development Roundtable Series
	FCM MCIP Transition 2050 Program*

\* Program supported by PPG staff

Through the delivery of these programs, Partners in Project Green and its members achieved the performance outcomes identified in the table below. In several cases, new metrics have been implemented in 2020 for future tracking.

Performance Metric	2019 Result	2020 Result
# of projects implemented	Not previously tracked	65 projects
# of sustainability actions completed	Not previously tracked	650 actions
# tonnes of material avoided from landfill	42 tonnes	86 tonnes
# tonnes CO <sub>2</sub> e reduced	5,058 tonnes	6,900 tonnes
# litres of water reduced	466 million	380 million
# of individuals reached	1,041 direct participants 55,410 website views	2,004 direct participants, 44,405 website views
# of organizations reached	Not previously tracked	454 organizations
# of members	86 members*	67 members*
% of self-generated revenue	35% self-generated revenue	36% self-generated revenue <sup>†</sup>

\* As at December 31 of reporting year. 2020 membership turnover increased due to COVID-19.

<sup>†</sup> Preliminary, to be confirmed Q1 2021.

### Relationship to Building the Living City, the TRCA 2013-2022 Strategic Plan

This report supports the following strategies set forth in the TRCA 2013-2022 Strategic Plan:

**Strategy 1 – Green the Toronto region’s economy**

**Strategy 2 – Manage our regional water resources for current and future generations**

**Strategy 4 – Create complete communities that integrate nature and the built**

**environment**

**Strategy 5 – Foster sustainable citizenship**

**Strategy 6 – Tell the story of the Toronto region**

**Strategy 7 – Build partnerships and new business models**

**Strategy 8 – Gather and share the best sustainability knowledge**

**Strategy 9 – Measure performance**

**Strategy 10 – Accelerate innovation**

**Strategy 12 – Facilitate a region-wide approach to sustainability**

#### **DETAILS OF WORK TO BE DONE**

In Q2 2021, Partners in Project Green staff will provide a 2020 financial results summary to align with the performance results in this report.

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**Date: February 12, 2021**

**DISCUSSION SUMMARY**

Jeff Robertson summarized the PPG programs offered and PPG achievements from 2020. Jeff discussed examples of cross-functional programs that address all four performance areas. Approximately 15 virtual programs were offered in 2020. Jeff summarized the performance metrics, compared 2019 to 2020 metrics, if applicable, and summarized the range of trends among metrics. Staff committed to bringing a financial update to the EMC at the June 15, 2021 meeting.

Members shared their experiences in selecting and tracking metrics related to the sharing economy, digital infrastructure, community programming, and wellness and inclusion metrics. Staff acknowledged the importance of including both social and environmental metrics.

ON MOTION by Anthony Perruzza, the meeting ended at 7:14 p.m. on Tuesday March 2, 2021.

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John Coyne  
Co-Chair

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Todd Ernst  
Co-Chair

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