Partners in Project Green
2024 Energy Leaders Consortium
Member Roundtable
Feb 22, 2024

Partners in Project Green
A Program of Toronto and Region Conservation Authority

ELC February Roundtable

February 22, 2024 from 1:00PM – 2:30PM

In Attendance

Sahar Ali	Business Consultant, Corporate Affairs & Finance	TELUS
Terry Hickey	Senior Strategy Manager	TELUS
Babak Beglarzadeh	Manufacturing Engineer	Dishon Ltd
Craig Rock	Advisor, Office of Climate Change and Energy Management	GTAA
Rajeev Dhiman	Chief Operating Engineer	Molson-Coors
Ravi Chauhan	Manager, Sustainability and Government Relations	BASF
Phil Dick	Business Resource Specialist	OMAFRA
Patrick Huynh	Director of Carbon and Energy	Maple Leaf Foods
Darryl Croft	President	Electric Vehicle Network
Darcy Curran	Environmental Sustainability Manager	FGF Brands
Abdel Sabriye	Manager, Environment, Health, Safety & Security (EHSS)	Mother Parkers Tea & Coffee
Behzad Hosseinpour	Energy and Sustainability Manager	Maple Leaf Foods

AGENDA

Time	Activity
1:00 – 1:15pm	**PPG introduction (Matt) and member featured share by TELUS**
1:30 – 2:00pm	**Member Roundtable –** *ELC Members*
2:00 – 2:30pm	**Further Discussion**

FOLLOW UP ACTIONS AND COLLABORATION

- PPG to look into potential contacts for solar providers and get back to Babak
- PPG to get more details on Enbridge incentives and financial programs to share with the group
- PPG to ask the group if anyone else has worked or is working on ISO 14068 and get back to Patrick

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MEETING MINUTES

#1 – PPG Reminders

Date	Topic
March 5th 9:00am-11:00am	**GreenBiz Caledon Climate Partnership** – Stormwater Management & Low Impact Development online workshop. Register to get the Zoom link.
March 21st 1:30pm – 3:30pm	**Wastewater Energy Transfer Webinar: Opportunities, Challenges and Key Take-aways.** Online workshop offered by Environmental Science & Engineering. PPG community gets a 15% discount when registering to this event!
March TBD 9am-noon	ELC Site Visit. Details to be shared soon!
March 28th 8:00am-11:30am	**Workshop 3: Bringing it All Together with Reporting and Disclosure – An Overview of ESG Reporting.** Learn about different ESG reporting and disclosure frameworks and legislation. Register to join us at the IDEA space in Square One.

Agri-Tech Innovation Initiative
Provides funding for food processing businesses to invest in equipment and technology to support growth, productivity and/or GHG reductions. Applications will be accepted between Feb 15 - March 28, 2024.

Member Spotlight Feature
Highlight a recent project, initiative, milestone or award to the PPG community and the public with a Member Spotlight feature. These are shared through our website and newsletters, providing recognition for your achievements and inspiration for other PPG members.

We are looking to grow the ELC!
If you know of any stakeholders or industry leaders you have connections with who would be a great addition to this consortium, please help us get connected.

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#2 – Member Roundtable & Discussion

TELUS

- Slide below indicates some of the milestones and goals

- Conducted decarbonization feasibility study at several of their largest emitting facilities. A common opportunity for significant GHG reductions identified in the assessments were heat recovery chillers
- Large emitting facilities are typically network sites that operate similarly to data centres. The heat recovery chillers would grab heat off the network equipment so that natural gas boilers are right-sized and only used on extreme cold days
- Currently in the systems design stage for pilot at Edmonton facility, looking at ways to balance out the pros and cons of free cooling
- Phill (OMAFRA) asked if TELUS considered water changes in heat recovery chillers, as water efficiencies can be used as a positive sell for the system
- Craig (GTAA) they are looking at infield development currently heated with natural gas boilers, looking at heat recovery chillers and heat pumps. Not alone on this journey!
    - Heat pumps will be a consideration for small and medium sized Telus facilities (BC and Ontario)
- Darryl (EV Net) asked about EV plans and car sharing for office/staff use.
    - Telus started fleet electrification, chargers on site across the country. Currently in RFP process for anyone who is working in electric vehicles. A portion has been converted to EV and now looking at where to put infrastructure, how to upgrade electric infrastructure, etc.
    - They have a mix of light duty (80%) and medium duty (20%)

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Dishon Inc

- Looking to produce electricity using renewable energy source
    - Already started to do some research on options. Looking for something unique they can build themselves to help produce some of the energy needed for their machines
    - Perhaps looking to generate electricity with heat
    - Looking for speakers, presentations, insight from other members
    - Phil (OMAFRA) suggested looking into solar thermal that will be heating water.
        - Enbridge just announced some financial incentives around solar thermal options (co-pay options)
    - Patrick (MLF) they did talk to the provider from the PPG presentation and asked for quotes. They wanted to see if solar thermal could pre-heat sanitation water to reduce natural gas consumption. Did not pursue because of capital constraints and did not make their ROI requirements. Limited by space as well for the array. Believes that Enbridge can offer a feasibility study.

BASF

- Employee engagement clean commuting program incentivized employees to find greener ways to get to work
    - Over 200 employees complete the program
    - Estimated GHG reductions around 128 tonnes
    - Found NR Can/EPA resources for emissions factors
- About to close out site reduction challenge (scope 1 and 2 emissions) ran for about a year
    - Challenged sites to submit ideas of how they can reduce emissions
    - Identified a range of opportunities including low-hanging fruit projects (e.g. LED upgrades) to more capital-intensive projects (e.g. operational efficiencies/changes)
    - Hosting a workshop (requested by employees) to share what sites across North America are considering
- Last year, collaborated with University of Calgary and Sustainability Masters program, worked with students to gain input and asked students to assess 2 of their sites and give suggestions

EV Net

- Conducted studies at four of their facilities across the GTA for energy efficiency opportunities. Facilities located in grid-constrained industrial areas. As EV servicing centres, hoping to futureproof locations with added charging capacity.
    - Looked at stationary DC and mobile DC charging around the western GTA
        - Mobile charging units in Quebec, they took it out to some of their clients to show how they can charge their vehicles while they wait for infrastructure changes. Plans to get equipment in Ontario for pilot.
    - Considering off-peak charging for EV and mobile charging units. Have also looked at envelope improvement opportunities for facilities. Looking for additional energy storage

solutions that allow for storing at low rates and fast dumping when vehicle charges needed.

GTAA

- Selected AECOM to deliver key aspects of their GHG emission reduction strategy (2050)
    - Includes lighting upgrades in T1
    - Infield building upgrades
    - Expansion plan
- Hydrogen refueling facility currently under construction and expected to be fully commissioned by Q3 2024. It will be Ontario's first public hydrogen charging facility and will have capacity to refuel two vehicles at a time. System has 350 and 700 bar.
    - Patrick (MLF) asked PPG what the status on Canadian Tire's Hydrogen project?
        - Looking for fueling forklifts with hydrogen, project has been delayed
    - Thoughts on hydrogen generation on site, but just a high-level thought
- On-going discussions with utilities around addressing local grid capacity constraints. Considering alternatives to add charging capacity to meet growing customer and tenant demands.
- Ground side equipment to service aircraft will be replaced with electric. Air Canada would like GTAA to supply level 3 charging for these new vehicles
    - 85 charges are not enough
    - Looking into a hydrogen powered EV charger (could get up a day's worth of charging with fueling of hydrogen)
- At 30% design for 2.5 MW solar farm to add electrical capacity

Maple Leaf Foods

- Heat exchanger upgrade that involved design change to recover condensate
    - Will reveal more in ELC site visit in the summer
    - Make-up water cut from 90% to 50%
    - Also helps with temperature control
- This year is slower for capital intensive energy projects. Currently planning for lower cost, non-capital-intensive projects and initiatives in 2024.
- Looking at new ISO 14068 related to carbon neutrality. **Is anyone else looking at this?**
- Conducted gap analysis to understand how to meet ISO 15001. Opportunities include:
    - Meters and submeters
    - Knowledge transfer at different levels of the organization
    - Resource constraints
    - Energy integration into process