



MEETING MINUTES

2021 ENERGY LEADERS CONSORTIUM MEETING #6
VIRTUAL ROUNDTABLE
APRIL 29TH, 2021

IN ATTENDANCE

Members

John Spence	Canadian Tire	john.spence@cantire.com
Evan Grant	Grupo Bimbo Canada	evan.grant01@grupobimbo.com
Jeff Robertson	Grupo Bimbo Canada	jeff.robertson@grupobimbo.com
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Mary Bianco	Maple Leaf Foods	mary.bianco@mapleleaf.com
Patrick Huynh	Maple Leaf Foods	patrick.huynh@mapleleaf.com
Ron Robinson	Pratt & Whitney Canada	ron.robinson@pwc.ca
Katelyn Poyntz	Unity Health Toronto	poyntzk@smh.ca

Guests

Chun Liang	City of Brampton	chun.liang@brampton.ca
Mansoor Salah	Coke Canada	musalah@cokecanada.com
Jordan Meunier	Enbridge Gas	jordan.meunier@enbridge.com
Adam Vaiya	Region of Peel	adam.vaiya@peelregion.ca

Staff

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Nathaniel Magder	TRCA	nathaniel.magder@trca.ca

REGRETS

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Chris Hood	Lincoln Electric	chris_hood@lincolnelectric.com
Aaron Wouters	Trillium Health Partners	aaron.wouters@thp.ca
Emily Huang	Unity Health Toronto	huangyir@smh.ca
Darren Borden	Weston Foods	darren.borden@westonfoods.com

AGENDA

1:00pm-1:10pm: PPG Introduction

1:10pm-1:40pm: Maple Leaf Foods Refrigeration Heat Recovery

1:40pm-2:30pm: Group Roundtable

FOLLOW-UP ACTIONS AND COLLABORATION

- Nathaniel to share BC Clean Commercial Vehicles information with John ([LINK](#))
- Jeff requested information from the group on eligibility for EPS by aggregating multiple facilities
- Jeff noted to group that incentives in New Brunswick right now offer a very lucrative opportunity for carbon reduction projects

MEETING MINUTES

#1 – PPG Introduction

Nathaniel reviewed upcoming events and industry updates, including:

- **Hybrid Boiler Systems (May 20):** Presentation of a business model for electrifying boiler plants. Medley Thermal is presenting an offering that installs an electric boiler in parallel with existing natural gas boilers, for use at times when the business case makes sense.
- **EV Chargers grant from NRCAN (due June 22):** Receive \$5,000 per connector up to 50% of project costs. ([LINK](#))
- **PPG's People Power Challenge:** Join a group of green teams and compete for prizes based on sustainable actions at the workplace. Program launches summer 2021. ([LINK](#))
- **PPG Membership Survey:** Attendees asked to take 3-4 minutes to provide their insight into PPG's membership offering. ([LINK](#))

#2 – Presentation: Maple Leaf Foods

Behzad Hosseinpour, Energy and Sustainability Lead at MLF's Heritage plant in Mississauga, presented on a large energy recovery project completed within the last year. The project captured waste heat for the plant's ammonia chiller to offset natural gas used to heat water.

The presentation highlighted:

- Ammonia refrigeration plant serves both cold (4F) and high (24F) temp zones of the facility
- Desuperheater was added to capture excess heat of the refrigeration gas and transfer energy to boiler pre-heat
- While offsetting gas required for steam heat in the plant, the system increases the efficiency of the chiller
- The project achieved 850k m³ of natural gas reductions, 1500 tonnes CO₂ offset, and \$160k annual savings
- Received an incentive from Enbridge of \$104k, which was essential for feasibility of the project
- An award for the project was received from Enbridge and a plaque hung in the office lobby to celebrate the recognition received
- Next projects MLF will be pursuing include: Air compressor heat recovery, RO system and a direct contact water heater

#4 – Roundtable Discussion: Conservation Projects

Roundtable discussion where members give updates on current projects and share recent successes, challenges and related tools and resources.

Below is an overview of energy projects identified at meetings that are currently being evaluated, are underway or recently completed. The purpose of this working document is for members to identify others in the group that are working on similar projects.

PROJECT SYNERGIES – Energy Leaders Consortium

	BIMBO	PHILIP	BAH	FLYNN	GTA	LINCOLN ELECTRIC	MAPLE LEAF	MOLSON COOLS	PHIL & WHITNEY	DUTMAN	UNIVERSITY HEALTH TORONTO	WELLS FARGO	Maple Leaf Foods
Battery Storage	●							●	●	●			
Biogas								●	●				●
Boilers	●			●	✓	●	●	●	✓	●	●	●	
Building Automation Systems (BAS)		●		●			●		●	●			
Cogeneration				✓									
Compressed Air	●	✓	●			●	●	●	●	✓			●
Continuous Commissioning				●					●	●			
Corporate Energy/Sustainability Strategy							✓		●	✓		●	●
Energy Monitoring		●	●	✓	●	✓	✓	●	●	●	●	●	●
Employee Engagement			●			●	●	●		●	●	●	●
Energy Star Certification	●									●		●	
Electric Vehicles (EVs)		●		●	●				●			●	
Forklifts		●					●						
Heat Recovery	●							●		✓	●		
Hydrogen		●											
Insulation Upgrades								●		✓			
ISO 50001 Certification			●			✓							●
Lighting	●	✓	●	●	●	●	●	✓	●	●	●	●	✓
Low-GWP Refrigerants	●												●
Peak Curtailment								●	●				●
Power Quality				●			●			✓			●
Process Efficiency						●		●					
Pumps and Fans			●							●	●		
Refrigeration Plant				●			●	●			●		●
Renewable Energy Procurement / Carbon Credits	●						●		●				
Solar PV (On-Site)				●	●		●						
Solar Thermal				●									
Sustainable New Construction				●							●		
Waste Management	●						●			✓	●		●
Water Efficiency				●			●	●		●			●

- In Progress
- ✓ Completed

CANADIAN TIRE

EVs

- Tesla charger infrastructure for freight trucks on hold for now, was planned as a 3MW electrical capacity upgrade to the site
- Will look into EV charger incentive program from NRCAN
- Will look into Commercial EV incentives from government of BC for shunt trucks

Hydrogen

- Project on hold for now

Heat Pumps

- Interested in exploring heat pumps for small DHW heaters for washroom facilities in distribution centre

CITY OF BRAMPTON

Net Zero New Construction

- Secured approval from council to move ahead with design phase for South Fletchers Recreation Centre
- Likely will pursue 80% to net zero, using carbon offsets to get the rest of the way, but will build in future-proofing strategies so that retrofitting to get to 100% in the future is possible – “zero-over-time” approach
- Now looking at a electric-only design for Brampton’s new bus terminal, which will be one of the largest in North America and will house as many as 600 electric buses (assuming 100% fleet conversion to electricity)
- Brampton to announce launch of electric bus fleet on May the 4th ([LINK](#))

COKE CANADA

Sustainability Strategy

- Engaging in a widespread baselining exercise right now, including both energy and water

- Have entered the Canada Plactics Pact

GRUPO BIMBO CANADA

Renewables Procurement

- Announced large VPPA agreement to reach carbon neutrality for Canadian operations

Sustainability Strategy

- Have joined the Canada Plactics Pact and Energy Star Challenge

Lighting

- Finalizing LED retrofits at remaining bakery facilities

Battery

- Targeting operation by first GA event

Waste

- Enviro-Stewards FLW assessment follow-ups are still being explored

REGION OF PEEL

Sustainability Strategy

- Presented to council that the Region is behind in meeting its climate targets and more action is required
- Water utility division may have relevant experience (cogeneration, biogas, micro-hydro turbines) to share with ELC, Adam will explore bringing them in to a future roundtable
- Peel engaged in an analysis of their portfolio of buildings

Sustainable New Construction

- Evaluating design for net zero new building, capital cost premium of only \$1.2M

EV Chargers

- Installing 35 charging stations this year

Waste-to-Energy

- Anaerobic Digester construction project is underway

MAPLE LEAF FOODS

(see above presentation)

PRATT & WHITNEY CANADA

Sustainability Strategy

- Facing some setbacks due to covid-19 impacts on the airline industry

Lighting

- 80-90% converted at the plant
- Secured approval for move forward with exterior LED project

Refrigeration

- Looking at a VFD project for spin pit cooling towers

EVs

- Charging station project on hold for now

UNITY HEALTH TORONTO

Energy Monitoring

- Installed a bank of about 100 CTs
- Chiller plant to be monitored to identify efficiency opportunities
- Plug loads were discovered to be a source of significant energy use

IESO Energy Efficiency Auction Pilot

- Were 1 of 9 awarded incentives through the pilot program ([LINK](#))
- Includes various efficiency projects
- Risk of not delivering can be offset by shifting savings to another facility, even if not owned by UHT (e.g. another hospital or an ELC member)

HVAC

- 3 large projects on the go
- AHU: New VFDs motors and valve upgrades reduced consumption to 75%
- Glycol pump VFDs: Reduced consumption to 66%
- Pump package units: Reduced to 70%

 **Chiller Plant**

- Currently operated by manual controls, looking at automation options