

## ELC Year-end Roundtable

December 7<sup>th</sup>, 2023 from 1:00PM – 2:30PM

### In Attendance

Phil Dick	Business Resource Specialist	OMAFRA
Martin Bohl	Sector Manager-Food Processing, Logistics and MedTech	City of Brampton
Babak Beglarzadeh	Manufacturing Engineer	Dishon Ltd
Adam Vaiya	Advisor, Office of Climate Change and Energy Management	Region of Peel
Doug Dittburner	First Class Chief Stationary Engineer	Ferrero
Katelyn Poyntz	Director, Project Engineering & Energy	Unit Health Toronto
Darryl Croft	President	Electric Vehicle Network
Alex Bernardino	Principal Consultant	Electric Vehicle Network

## AGENDA

Time	Activity
1:00 – 1:0pm	<b>ELC in Review - PPG</b>
1:20 – 2:00pm	<b>Member Roundtable – ELC Members</b>
2:00 – 2:30pm	<b>Member Roundtable &amp; Discussion</b>

## FOLLOW UP ACTIONS AND COLLABORATION

- Unity Health Toronto shared their GHG Emissions Roadmap – [Market Sounding Prospectus](#). This is the first stage of a larger process for Unity Health and forms the foundation of a discussion with the market. The input received will help inform the next stage of procurement. Insights or suggested market vendors are welcome.
- **Phil (OMAFRA) to send ELC** the resources from the seminar about maximizing plant effectiveness
- **PPG to create list of service providers** and subject matter experts to share as a member resource/ reference

## MEETING MINUTES

### **#1 – PPG Reminders and Year in Review**

- Matt reminded members of the ELC and PPG surveys due this month
- Recognized new members Seneca, Centennial College, and Electric Vehicle Network
- 4 virtual workshops, 4 roundtables, 4 site visits, 26.25 learning hours per attendee average
- ELC Hub launched in August 2023, any suggestions?
  - As a new member, Darryl found it helpful to get up to speed
  - Want more information on transportation and infrastructure resources
  - Include a link to the Hub in Direct Current to remind people to use it
- ELC Impact Tracking reminder
- See slide deck attached to email for more details
- Julia did a run-down of PPG's Futureproof Your Fleet program. Please reach out to her directly if you want to know more and attend upcoming sessions.
  - A new program for PPG going on now until March, 2025
  - Includes 7 in-person workshops raising awareness of hydrogen, electric, natural gas and renewable diesel for medium and heavy-duty vehicles
  - Case studies of companies that have transitioned their fleet to low/zero emissions
  - Needs assessment survey out until Dec 13<sup>th</sup>

### **#2 – Member Roundtable & Discussion**

#### **Unity Health Toronto**

- Advanced sustainability strategy
- Secured a sustainability manager
- Created an emissions roadmap for Scope 1+2 and looking to implement now (looking at format and structure)
- Conducted a building thermal scan to validate savings of building envelope of retrofit
- Actively pursuing heat recovery plant systems geothermal vs WET system (in scoping phase)
- Recognized by the Canadian College of Health Leaders for 2023
- Market call for providers underway, wrapping up soon
- Went to a session hosted by a law firm and spoke about financial disclosures that will become requirement for various organizations. Landscape starting to shift about how entities will even invest in businesses based on their climate action/sustainability efforts
  - Canada looking to put regulations in place
- Electric patient record by next November, takes a lot of time and is a top priority

### **Ferrero**

- Pursuing power purchase agreement (solar, wind, battery)
  - More entities than just their plant involved so it will take some time
- Looking to change their classification to class A and do load shedding
  - Possibility of reaching net-zero during GA events
- Presentation with Centennial College last week about biogas study, looks like a viable project, could add animal feed, went very well
  - Thinking about how Ferrero could use the system, or do a buy-back program
  - They bought an ice cream plant in Michigan that uses biogas
- New targets to implement next year
- LAVA product moving along well, close to having the system going
- Steam-trap monitoring, giving good savings, can help tell them which traps are failing
  - Enbridge has incentives to get the monitoring installed

### **Region of Peel**

- Alex Bogun came to discuss ongoing development of retrofit standards, how to align with capital planning
- 7 or 8 facilities designed to net-zero standards, where Adam is focusing this year and next
- EV infrastructure
- Looking at embodied carbon, how to be consistent and improve
- Attended the Building Show, interesting to see how much work goes into calculating embodied carbon of materials (it can be very complex)
- Opportunity to look internally at what ROP is doing sustainability-wise
- Fully electric refuse truck going on the road next week
- Interested in learning about A.I. applications for energy efficiency. Could be a great ELC session next year.

### **Dishon Inc**

- In 2024, looking at new projects about electricity consumption
- Engaging with other industries and growing the ELC in different sectors
- Actively tracking air compressors, will continue to see where more energy savings can be found
- In April 2023, started to think about how well they could clean our parts with complex designs and geometry. Therefore, they began to research regarding precision cleaning of these parts which are difficult to clean and came up with a solution by adding an automatic power wash machine which enhanced functionality in three different areas as follows:
- Saving on water consumption

- This machine uses 80 gallons (363.68 L) of water per month. Previously in manual power washing, they were using a considerable amount of water to clean different parts. According to our data from water consumption (only for 1 month) and compared with the previous month, they were able to save 1585.03 gallons (6000 L) in November 2023.
- Automation and Production Process Time
  - The idea was to automate and reduce washing time for these parts. Formerly, the manual power washing process was time-consuming and in some cases was not able to deliver high-quality cleaning results. Another problem was about using cold water which was the formation of a thin white layer called silicate on the part surface. The solutions were:
    - Automate and define process-based cleaning line
    - Utilizing water with different temperatures and pressures at different angles to be able to reach those cavities which cannot be seen with the eyes and prevent the creation of silicate
- Consequently, they came up with an idea such as employing an automatic power wash machine and defining a process-based line to meet the above-mentioned requirements.
- Before, this process took about 50 minutes. After adding this machine, they've reduced the cleaning process to about 30 minutes for two parts simultaneously which is about a 40% reduction in production process time for this specific area.
- Quality of Cleaning Process
  - Earlier, they had some quality issues such as having dirty holes or cavities which could not be seen by eyes. This machine has spray with nozzles which rotate 360 degrees and can hit all the holes with high pressure at any angle. Thus, it cleans those holes as well as cavities and delivers high-end results for the part-cleaning process.
- Now, by adding this machine they will save on both energy and time and deliver high-end results to our customers.

## **EV Net**

- A complimentary organization to OK Tire and Truck Pro services
- Helping businesses overcome the hesitation to adopting EV
  - Many businesses are waiting for more incentives and financial programs
  - Supply chain issues have prevented some people getting their vehicles on time
- Launched EVs at a condo in London
- Carsharing in Toronto going well
- EV rental at commercial properties, helping them apply or ZEVAI funding
- Looking at a company to do mobile fleet charging in the GTA
  - PPG has helped them make connections for financial institutions to help with affording the charging infrastructure

## **OMAFRA**

- In past few weeks, first seminar about maximizing plant effectiveness to discuss lessons learned inspired by ELC
  - Best management practices to reduce carbon footprint
- Working on next round of tech and efficiency programs for next year
- Always look forward to getting the summary of the ELC to inspire, to know what's possible for the industry, what can be done in the agriculture and food sectors
- Federal murmurs for banks to assess entity risk based on climate action
  - Orgs in the ELC may be ahead of the game
  - Members can highlight the achievements and data from ELC metrics to the public which is quite advantageous