

In attendance:

IN ATTENDANCE

Members

Ravi Chauhan	BASF Canada	ravi.chauhan@basf.com
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Craig Rock	GTAA	craig.rock@gtaa.com
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James Stokes	Arterra Wines Canada	james.stokes@arterracanada.com
Patrick Huynh	Maple Leaf Foods	patrick.huynh@mapleleaf.com
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Mohamed Ghorab	Sheridan College	mohamed.ghorab@sheridancollege.ca
G.C Acharjya	Algood Caster Innovations	acharjya@algood.com

REGRETS

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AGENDA

Time	Activity
1:00pm – 1:10pm	Introduction and Updates <i>from PPG</i>
1:10pm – 1:30pm	Member Presentation: BASF
1:30pm – 2:30pm	Member Roundtable & Discussion

FOLLOW UP ACTIONS AND COLLABORATION

February 2023

- Ferrero looking for member recommendations for companies that can help deliver their compressed air heat recovery project. This is a design-build procurement. Open to suggestions from other members. See roundtable notes below for more information.
- Dishon Limited looking for member suggestions on air compressor optimization. Do any ELC members have case studies or best practices they can share from a recent air compressor optimization or upgrade project?
- GTAA looking for member insights on electrical infrastructure and limited grid capacity. Have any ELC member navigated similar issues when increasing electrical demand at their facilities (e.g., EV chargers)?
- Nahanni Steel shared insights from their airflow meeting with [Renteknik](#). Contact info below.
- Maple Leaf Foods shared information on the air leak detector unit that they are using as part of their successful air compressor optimization initiative. See roundtable notes below for more information.

MEETING MINUTES

#1 – PPG Updates, Reminders, & Intro

- **Last call to register for the March 7th ELC in-person meeting at GTAA.** There is limited capacity for the meeting and tour. If you wish to bring more than one rep from your company please let me know ASAP and we can put them on the waiting list. The tour will also require PPE (e.g., safety glasses, hard hat, and safety shoes). If you have PPE, please bring it with you.
- Centennial College Funding opportunity for applied-research energy projects. Wide range of project types that can be considered. Funding available until the end of 2023 and 1/3rd contribution must be provided by the participant. **Matt will be scheduling an information session with Centennial, please let Matt know if you wish to join the call.**
- NRCan recently launched two new programs that may be of interest to members looking for additional funding and support:
 - [Green Industrial Facilities and Manufacturing Program](#) (call for proposals open now and closing soon)
 - [Deep Retrofit Accelerator Initiative](#) (application deadline: April 28, 2023)
- Save on Energy's [Industrial Energy Efficiency Program](#) has extended the deadline for its current round of funding to March 15, 2023. The final funding round closes August 15, 2023.
- Region of [Peel Water Efficiency for Businesses](#) is a resource hub to support Peel-based businesses with water efficiency. Currently have free audits for eligible industrial facilities under the Industrial Indoor Water Assessments Program. Also have online resources available for commercial and institutional facilities.
- **Reminder:** Orientation to Hydrogen Systems for Fleet Operations coming up on Feb 22nd and March 22nd. If of interest, please share the links with your fleet managers/vendors. Workshops are free to attend.
 - Register for Feb 22nd: <https://www.eventbrite.ca/e/an-orientation-to-hydrogen-systems-for-fleet-operations-tickets-524804754147?aff=ebdsoporgprofile>
 - Register for March 22nd: <https://www.eventbrite.ca/e/an-orientation-to-hydrogen-systems-for-fleet-operations-tickets-529783525787?aff=ebdsoporgprofile>
- [Fractalytic](#) is a new tech company that can help any meter become a smart carbon meter, capable of streaming data to any ESG application. Currently seeking partners for paid demonstration with co-created success criteria.

#2 – Member Presentation: BASF

- Globally, BASF is working towards sustainability targets of:
 - 25% reduction of Scope 1 & 2 emissions by 2030
 - Net Zero by 2050
 - Initiatives include significant investment in renewable energy for many sites across Europe.
- In addition to on-going operational improvements, Canadian sustainability efforts include:
 - Partnering with **Bullfrog Power** since 2018 to procure renewable energy credits and reduce Scope 2 emissions. Through allocating to sites with heavier carbon footprints/ dirtier grid (e.g. Western Canada), it has avoided over 10K tonnes CO₂e. It has also been an effective partnership for engaging Indigenous communities and BASF employees through lunch & learns.
 - Joining the **ECCC Net Zero Challenge** as one of 12 founding partners to align with federal climate goals and collaborate with other organizations.
 - Launching an internal employee engagement and emissions reduction program called the **Site Emission Challenge** in March 2023. This program will target site managers to propose and implement projects that help reduce Scope 1 & 2 emissions. The program is intended to drive friendly competition across different sites and will provide incentives through prizes.
 - Engaging employees across Canada through the Decade of Action Contest. Through this program, employees at all levels are invited to propose ideas related to climate protection, circular economy, and community care. Proposals are voted on and employees rewarded with internal corporate points.
- Funding for the engagement programs primarily draws from Op Ex budget for the region to reduce emissions. A challenge they have in Canada is their small footprint compared to other jurisdictions, so they need to be louder and demonstrate the impact in order to get the budget allocation.
- Joined the UN Global Compact a couple years ago and see value in the program. There is a lot of knowledge sharing and best practices. The program is framed around the UN SDGs. The partnership is strong but found it to be a bit more engaged prior to the pandemic. There is great online learning and ESG courses that they continue to leverage.
- Have seen general awareness and engagement increase over the past few years with more people showing interest in sustainability and being proactive about it. They have regular touch points with site leaders and have added emissions and ESG as part of their meeting agendas.
- BASF has seen success in holding people accountable by framing the initiatives based on employee interest and knowledge. They know that for many people not involved in sustainability day-to-day often need reminders or simple ways to understand different terms.

- Also looking at Scope 3 emissions and working to understand the carbon footprint of their products. Starting to look at different cradle-to-gate calculation methodologies in Canada. They are also looking collecting baseline data on vehicles and offering clean commuting incentives for employees.

#3 – Member Roundtable & Discussion

Arterra Wines

- Currently assessing solar PV opportunities across their properties. The strongest business case seems to be their head office in Mississauga.
- Project financing is still a challenge given the long payback period. But the story is important to them and the project has potential for a significant impact.
- Nothing tangible to share at this point but they are in the early stages of data collection and will share more as the project proceeds.

Ferrero Rocher

- Currently working on a project for waste heat recovery from air compressors. It's a design-build project that includes an energy performance guarantee.
- Looking for member recommendations for companies that might be interested in bidding on the project.
- The project came recommendation from a net-zero audit, with high-levels estimates on savings provided. Working to set up metering so they will be able to collect data and track project results.
- Other renewables project slowly moving through contracting stage. More details to share on project vendor and scope in future meetings. Supplier selected based on alignment with their goals.

GTAA/ Toronto Pearson

- Continue to investigate GHG emission reduction opportunities, in addition to energy efficiency. Working to better understand how they utilize natural gas and where there are opportunities for efficiency and fuel switching.
- Also looking at air compressor optimization. They did an energy hunt at their facility and are in the process of procuring a deeper energy audit.
- Current challenge includes availability of medium voltage. Recent project involved the installation of 10 electric boilers (about 1.58 MW each) which have significantly changed demand. Running them on a nightly basis to offset gas use.
- Wondering if other members have challenges with ampacity availability or how they are navigating issues with electrical infrastructure and capacity.

Nahanni Steel

- Have completed the installation of gages and meters for power and airflow. Starting to collect data on compressors and have already seen some surprising preliminary findings.
- Working with [Renteknik](#) for the airflow sensors. Suggest working with contractor to install to help save time. The airflow sensors require breaking the pipes, power meters less invasive. Utilizing Renteknik's Centrica Business Solutions software and installed Pan 10 and Pan 12 sensors.
- Collecting data now which will help inform decisions. They suggest making sure that you map out the system and sensors to better understand your data. If not able to put meters on everything, have to be selective and strategic for the best results.
- Renteknik contact info:
 - Darren Cooper (President)
 - 289-208-2950
 - D.cooper@renteknikgroup.com
 - Video on Energy Insights Technology: <https://www.youtube.com/watch?v=BtPu-PJXcyA>

Trillium Health Partners

- Continuing to work with metering projects and aggregating data collection with IT so that they have an internal dashboard to help with visualization.
- Going forward with low-cost projects including lighting, VFDs and steam trap sensors. Recently found that they had three different models of steam trap sensors at one facility and are working to get them operational and sharing data through the dashboard.
- Looking into energy performance contracting for large capital projects, including wastewater heat recovery. Slow process to get approval.
- Recently completed installation of 12 EV chargers at one of their sites and have more planned to go in at their other locations.

Maple Leaf

- Compressor optimization a key priority for them as well. Recently launched an internal program to purchase ultra-sonic leak detectors. Put in work orders to fix leaks as they are found. Investing in a third-party to help find and fix leaks. The program has already surpassed expectations.
- Following the outstanding work by Behzad, our corporate maintenance group launched a single capex request encompassing multiple plants to procure, train plant personnel, identify and repair leaks. As well to ensure continuity and sustainable, it is now part of maintenance work order system to identify leaks at every 6-month schedule.
- Maple Leaf has also done projects on heat recovery from refrigeration but not from air compressors as it tends to be more challenging than with refrigeration. Interested in the results from the Ferrero project.

- Patrick will share information on the tools they are using for the compressor optimization program.

Dishon Limited

- Looking for member insights on air compressor optimization. Compressors use about half of total energy at their facility. Aware of airline leakage but looking for recommendations on equipment and vendors that might be able to help.
- Information from Nahanni Steel and Maple Leaf Foods will be shared with meeting notes.