



## MEETING MINUTES

**2021 ENERGY LEADERS + SME CONSORTIUM MEETING**  
**ROUNDTABLE WITH BRADAM ENERGIES**  
**OCTOBER 13<sup>TH</sup>, 2021**

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### **IN ATTENDANCE**

#### *Members*

Prasath Vinayagamoorthy	3M	<a href="mailto:pvinayagamoorthy@mmm.com">pvinayagamoorthy@mmm.com</a>
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#### *Guests*

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#### *Staff*

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### **REGRETS**

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## AGENDA

- 2:00pm-2:10pm:** PPG Introduction
- 2:10pm-2:40pm:** Bradam Energies: Next Gen Biogas
- 2:40pm-4:00pm:** Group Roundtable

## MEETING MINUTES

### **#1 – PPG Introduction**

Nathaniel reviewed upcoming ELC + SME meetings to end of year. Reminded group of upcoming reporting requirements.

### **#2 – Presentation: Bradam Energies**

Robert Willes presented on an innovative technology for generating methane from waste products. Including an IC&I waste facility pilot being established in Hamilton.

The presentation highlighted:

- Variety of feedstocks allowing for a wider scope of waste products to be used for RNG and SNG generation
- Opportunities to get involved via waste diversion in Hamilton
- Innovative structure that is different from both bio-digester solutions and char
- Rather large projects, at this point, requiring lower threshold of 100,000 tonnes annually of feedstock

## #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

	3M	BIMBO CANADIAN	STARS	GRU	FLYNN	GFCU	Kingspan	LINCOLN ELECTRIC	HAFF LEE	MOLSON COCA-COLA	Prest & Whitney	Elmer's Back Porch	Luxury Vacations	KIA MOTORS	Partners in Project Green
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	●				●			●	●				●	●	
Renewables Procurement / Carbon Credits	●	●						●		●					
Solar PV (On-Site)					●	●		●							
Solar Thermal					●										
Sustainable New Construction					●								●		
Waste Management	●	●							●			✓	●		●
Water Efficiency					●			●	●			●		●	

- In Progress
- ✓ Completed

## NAHANNI STEEL

### Sustainability Strategy

- Allocating time from new trainee to energy management
- Looking at expanding monitoring equipment to water and compressed air

### Forklifts

- Looking at options for battery vs propane lift trucks
- Key benefit is comfort and health of workers

### HVAC

- Looking at ways to create baseline for cooling, using advanced thermostat and controls system already in place, need better data

## GRUPO BIMBO CANADA

### Sustainability Strategy

- Enviro-Stewards assessments complete, identified \$2.5M in savings and have already achieved \$0.5M in completed projects
- Energy Star is on hold at the moment, as voluntary reporting projects are taking a back seat to implementation projects

### Renewables Procurement

- Exploring expanding Bullfrog Powered SKUs
- Evaluating Class B solar sites

### Lighting

- On track for 100% completion

### Battery

- Targeting go-live in October

### Waste

- Evaluating a waste-to-landfill facility, similar to Kingspan
- Looked at Green Circle for certification, but leaning towards self-certifying

### Thermal Electrification

- Pursuing a hybrid boiler system, even if only a pilot

## GTAA

### **Sustainability Strategy**

- BOMA Race to Reduce Award achieved by GTAA
- Many other projects continuing

## MAPLE LEAF FOODS

### **Sustainability Strategy**

- Looking toward Net Zero as per Science Based Targets definition
- Considering pushing target from 2C warming to 1.5C

### **Battery**

- Project executed at Heritage with OPG
- Looking at new facility in London

### **Renewables Procurement**

- Looking at PPA procurement from Alberta markets as well as in US

### **Air Compressors**

- Heat recovery and leak detection, many projects

### **Freight Vehicles**

- Evaluating technology to inject hydrogen into diesel to reduce emissions and get a cleaner burn

## UNITY HEALTH TORONTO

### **Sustainability Strategy**

- Advocating for carbon strategy, since carbon tax prices are making an impact and will continue to rise
- Will consider potential for opt-in to either OBPS or EPS as they are above 10,000 tonnes at some facilities

### **Refrigeration Plant**

- On hold due to supply chain shortage of VFDs

 **HVAC**

- Evaluating occupancy scheduling opportunities across various AHU zones

