

A Program of Toronto and Region Conservation Authority

Energy Leaders Consortium

Getting Started on Scope 3 Carbon Emissions with Liam Conway from Carbonzero

July 13, 2023



We respectfully acknowledge that we are situated on the Traditional Territories and Treaty Lands, in particular those of the Mississaugas of the Credit First Nation, as well as the Anishinaabe of the Williams Treaty First Nations, the Huron Wendat, the Haudenosaunee, and the Metis Nation.

As stewards of land and water resources within the Greater Toronto Region, Toronto and Region Conservation Authority appreciates and respects the history and diversity of the land and is grateful to have the opportunity to work and meet on this territory.



Additional Resources

- yrnature.ca/acknowledging_land
- edgeofthebush.ca
- native-land.ca
- Text 1-855-917-5263 with your City and Province to learn whose traditional territory you're on (standard text messaging rates may apply)



A Collaborative Space for All

Proposed Operative Values for ELC meetings:

- 1. Balance airtime to hear from as many voices as possible
- 2. Be curious and challenge our own assumptions and biases
- Be open to building on each other's suggestions or taking the conversation in another direction



Agenda

Time	Activity
1:00pm – 1:15pm	Introduction
1:15pm – 1:45pm	Getting Started on Scope 3 Carbon Emissions with Carbonzero
1:45pm – 2:30pm	Q & A and Discussion Period





Participant Introductions

- To introduce ourselves to presenters, special guests, or for new ELC members
 - Please turn on your camera if you can
 - Name
 - Position
 - Organization



Upcoming ELC Sessions & PPG Events

Date	Topic
August 17th 1:00pm-2:30pm	Member Roundtable – led by Ferrero Canada (virtual)
September 14th 8:30am – 12:00pm	Site Visit – Molson-Coors Meeting & Tour (In-person)
September 23rd 9:00am-1:00pm	PPG Members Only tree planting – Claireville Conservation Area, Brampton (registration required)
October 19th 3:00pm – 6:00pm	PPG's 15th Anniversary Celebration – 300 City Centre Drive, Mississauga "Meeting People Where They're At: Systemic Change, Partnerships and Moving Forward"
October 26th 1:00pm-2:00pm	Online Presentation – Heat Battery Technology with Rondo Energy

Please contact Julia Kole if you are interested in hosting an ELC Site Visits, presenting at a Member Roundtable, or have suggestions for future learning sessions.



Updates and Reminders

- •NRCan GIFMP Track 2 (Industrial Facilities)- proposal due July 31, 2023. Eligible activities include:
 - Training for energy management practitioners
 - Energy assessments and audits
 - Energy managers
 - Energy management systems
 - Capital investments
- •IESO custom track in the Retrofit Program- apply before Sept 1, 2023.



Updates and Reminders

Funding opportunities through Centennial College:

- Green mobility- anything EV, autonomous, hydrogen fuel cell (we have around 1 mil/year over 3 years) for applied research projects
- Subsidized Energy audits- 67% covered by the grant, report is accepted for green/eco designations
- NSERC Energy IE grant for software, prototyping, testing
- NRCan any green educational, outreach, demonstration (at the school of transportation).



Today's Speaker



Liam.conway@carbonzero.ca

Liam Conway

Vice President, Advisory Services and COO, Carbonzero

Liam has oversight for Carbonzero's client deliverables, which include GHG Inventories and GHG Reduction Strategies. Liam's background in the environmental consulting sector has included positions in carbon management, ESG research, non-profit program management, and most recently in healthcare.

He has a Bachelors of Environmental Science and Geomatics from Wilfrid Laurier University, a post-graduate certificate in Environmental Management & Assessment from Niagara College, and has also completed training with the Greenhouse Gas Protocol, specifically the Greenhouse Gas Protocol Corporate Standard as well as the Scope 3 Standard.







Partners in Project Green – Energy Leaders Consortium

Getting Started on Scope 3 Carbon Emissions with Carbonzero Foundations and Insights for Tackling Scope 3

Liam Conway, Vice President, Advisory Services at Carbonzero

carbonzero







Presentation Overview

- About Carbonzero
- The GHG Reporting Landscape
 - The Challenge of Scope 3s
 - Selecting your Scope 3s
 - Scope 3 Calculation Guidance
- Supplier Engagement Roadmap
- Next Steps & Takeaway Resources
- Contact Info & Q&A







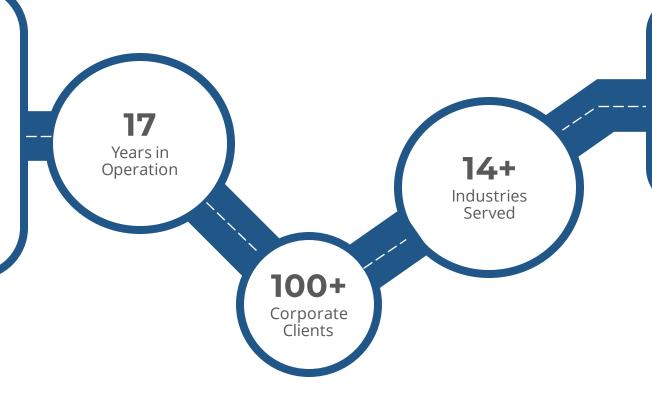
Carbonzero: Who We Are

Advisory Services

- **GHG** Inventories
- **GHG** Reduction Strategies
- **Green Event Services**

Project Sourcing & Development

- Carbon Offsets
- Renewable Energy Credits (RECs)
- Corporate Carbon **Neutrality Goals**



Positioned for Continued Long-Term Growth

- **Growing Core Team**
- Leader in Canadian Carbon Offset Inventory
- Trusted Partner in Rapidly Growing Voluntary Carbon Market





The GHG Reporting Landscape

Businesses see a far more complicated GHG reporting landscape than ten years ago.



Upcoming Mandatory Climate Reporting for **US-Listed Publicly** Traded Companies via the Security and **Exchange Commission**



Setting GHG Reduction Targets that are **Science-**Based and aligned with a 1.5-degree warming scenario.



The **CDP** maintains an important role to solicit emissions data from global publicly-traded companies.



The **TCFD** worked to illustrate the relationship between climate disclosure and management policy & financial materiality.



The International Sustainability Standards Board (ISSB) have recently launched two Sustainability Disclosure Standards that intend to align and consolidate many past frameworks.









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The SEC Climate Disclosure proposed rules see Scope 3 as optional until 2026, then material Scope 3s will be required.



Science Based Targets require Scope 3 inclusion for any GHG Inventory where Scope 3 is estimated to be >40% of total GHG emissions.



The CDP does **not** require Scope 3 data in the Climate Change Questionnaire.



Scope 3 reporting (select categories based on materiality) is **recommended**.



Scope 3 reporting (select categories based on materiality) is required.







The GHG Reporting Landscape

From a GHG Inventory perspective, the **good news** is that most of these programs still reference one GHG accounting & reporting standard as central to their participation.



- **GHG Inventory Boundary Setting**
- Classifying Scope 1, 2, and 3 GHGs
- Guidance on Emission Factor Selection
- Reporting Requirements for GHG Protocol Compliance







Scope 3 – The Nature of the Challenge

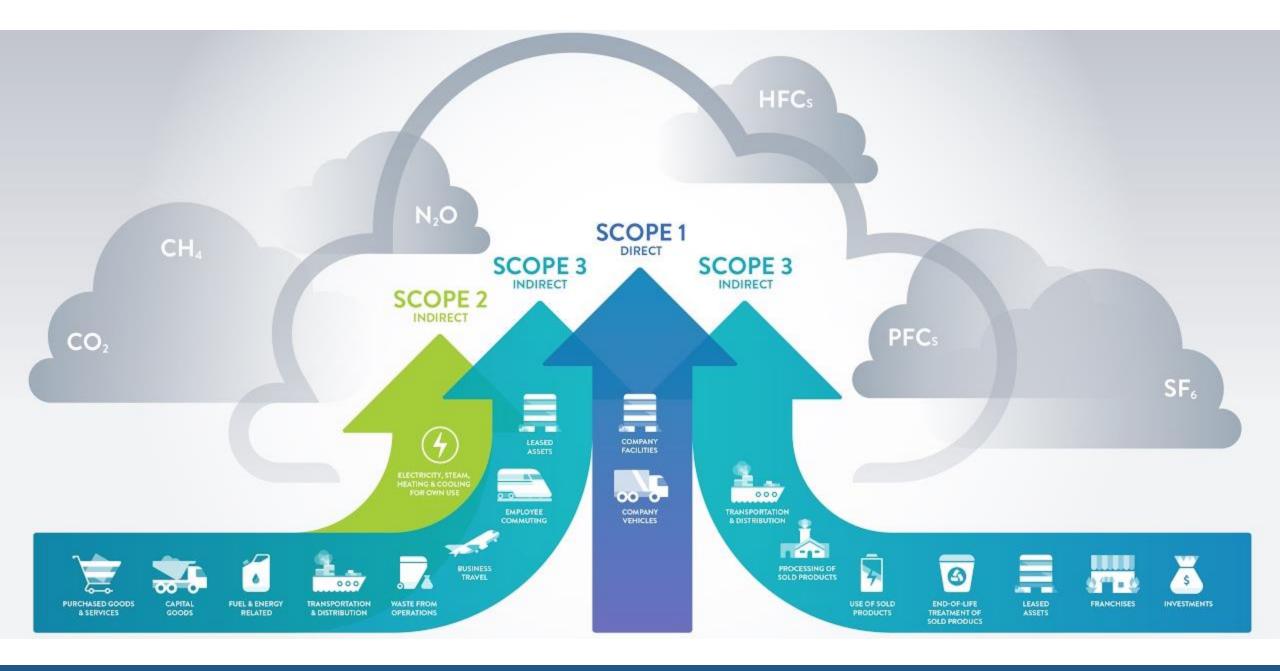
Scope 3 reporting remains a challenge for many companies...

- The **demand** for Scope 3 GHG inventory data has **increased**, but
- The support for Scope 3 GHG accounting has remained static.









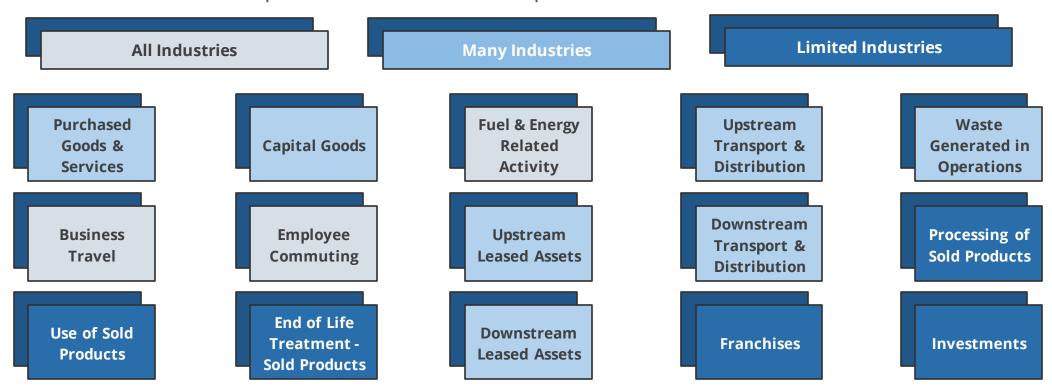




Scoping out my Scope 3s

July 13, 2023

While there are many (15) Scope 3 categories, it's important to remember that reporting on all of them is not a requirement under the Scope 3 standard.







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While there are many (15) Scope 3 categories, it's important to remember that reporting on all of them is not a requirement under the Scope 3 standard.

We need to define what is **Relevant** and what is **Material**. \rightarrow **How?**

Purchased Fuel & Energy Waste **Upstream Capital Goods** Related **Transport &** Goods & Generated in **Services Activity Distribution Operations Downstream Processing of Business Employee Upstream Transport & Sold Products** Commuting Travel **Leased Assets** Distribution **End of Life** Use of Sold **Downstream Franchises** Treatment -**Investments Products Leased Assets Sold Products**









Scoping out my Scope 3s

Relevance:

- If a Scope 3 category is completely irrelevant to a business' activities, then no inclusion is necessary.
- If a Scope 3 category is relevant, but expected to be immaterial, it is optional.

Materiality:

- If a Scope 3 category is estimated to generate emissions in excess of a materiality threshold, it should be included.
- If a Scope 3 category is immaterial, albeit relevant, it is optional.



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How do we define and establish materiality?



Defining Materiality

A materiality threshold for Scope 3 inclusion is <u>not set</u> by the **GHG Protocol**, nor is one set by the majority of GHG reporting frameworks or programs.

The onus falls to a reporting entity-led screening exercise, which should be documented.



The 'Scope 3 Evaluator Tool' is an intentionally high-level tool to identify which categories are relevant/material. The results from the tool are generally inaccurate.

Third-Party Support

Streamlined GHG Quantification estimates, based on readily available data, interviews, or other anecdotal information, can help determine relevance and materiality.

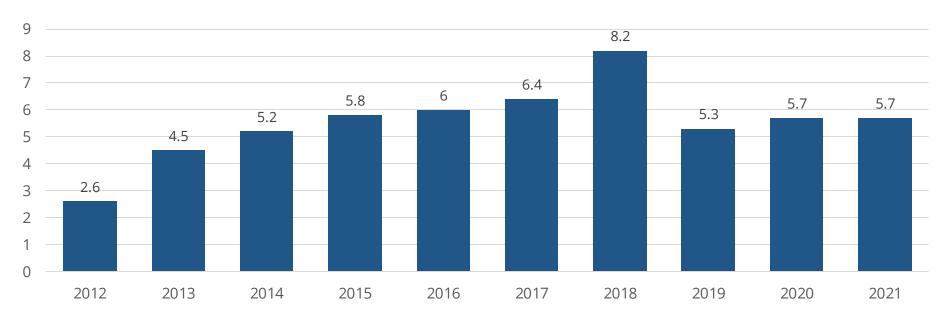






How Many is Enough?

The number of Scope 3 categories reported (through CDP) has leveled over time.



Number of Scope 3 categories reported on by companies reporting Scope 3 data

Data from CDP, Research conducted by Concordia University





Scope 3s Generally Improve over Time

In very few instances will a first-year Scope 3 GHG Inventory satisfy the wish list of an ESG team or third-party verifier.

Purchased Goods & Services Industry average emission factors for products Supplier specific emission factors for products **Waste Generated in Operations** Waste amounts estimated based on compactor size Data supported by a third-party waste audit **Business Travel** Central process to collect travel data for all staff Travel data only for staff at HQ





Scope 3 Calculation Examples









Scope 3 Calculation Example

Category 3 - Business Travel

Reporting Entity Data Requirements	Emission Factor Requirements
Full year travel manifest (origin, destination, mode) for all travel modes included in the category.	 Air Travel: United Kingdom Department of Env. Food, and Rural Affairs (DEFRA) emission factors (gCO2e/p-km).
 Data Sources: Travel agency Financial records Consultant provided tracking tools 	 Ground Travel: Vehicle specific or vehicle size generalizations (small, mid-size, large, etc.) from the United States Env. Protection Agency (gCO2e/v-km) Vehicle specific fuel economy specifics (if known)







Scope 3 Calculation Example

Category 11 – Use of Sold Products

Reporting Entity Data Requirements	Emission Factor Requirements
Primary energy demand (kW), operating hours per year, and geographic sales records for products sold and used in the reporting period. Data Sources: Product spec sheets (watts, volts, amps) E-commerce sales reports (postal codes)	 Stationary / Mobile Fuels: Regionally appropriate fuel specific emission factors Electricity: Regionally appropriate grid electricity emission factors (National Inventory Reports, United States E-Grid Database, etc.)







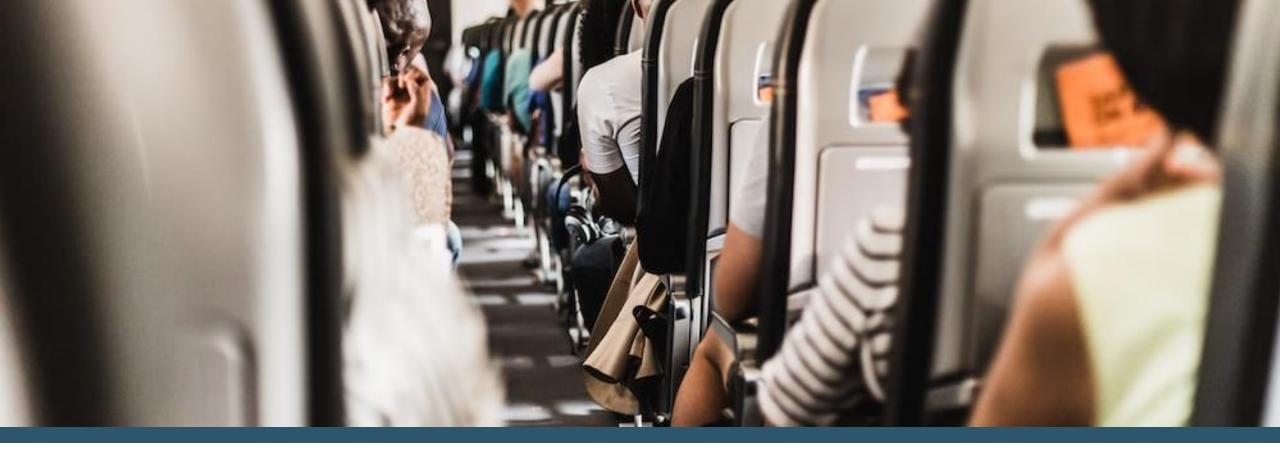
Scope 3 Calculation Example

Category 1 & 2 – Purchased Goods & Services / Capital Goods

Reporting Entity Data Requirements	Emission Factor Requirements
Purchasing Amounts (# of units, dollars) during the reporting period Data Sources: Procurement & Financial Records	 Supplier-specific emission factors will already be established from participating suppliers. Industry average emission factors for relevant purchased products (life cycle databases, etc.) on a per unit or per dollar of expense basis.







Supplier Engagement Deep Dive

Purchased Goods & Services









Supplier Engagement Milestones

Communicate Supplier **Expectations**

Issue Supplier GHG Data Request

Preferential Sourcing from **Participating Suppliers**

Preferential Sourcing from **Top Performing Suppliers**

Determine Scope of Engagement

Target 80% by Spend, Top-10 Suppliers, Random Sample, etc.

Communicate your data request within a reasonable submission window

Develop a Standardized Reporting Template for your Supplier

Communicate the Data Requirements from Initial Correspondence

Spot Check Validations

Re-emphasize importance of supplier participation.

Offer follow up support to any high value participation laggards.

Communicate any pending preferential sourcing and related requirements

Communicate Top Tier Performance Results

Evaluate 'interchangeable' supplies between suppliers.

Use GHG emissions performance to source suppliers, driving down supply chain GHGs (at a cost)









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Data Improvement Lever

Communicate Top Tier Performance Results

Evaluate 'interchangeable' supplies between suppliers.

Use GHG emissions performance to source suppliers, driving down supply chain GHGs (at a cost)

Decarbonization Lever







Don't Lose Sight of the Intent

For most companies, the intent of reporting Scope 3 supply chain (Purchased & Capital Goods) GHG emissions is to...

- Make progress towards preferentially sourcing low carbon products
- De-risk supply chains away from high carbon intensity processes and environments

High quality supply chain (supplier specific product / service data, allocated Scope 1 + 2 data) is instrumental to the task, but it often takes multiple years to acquire.



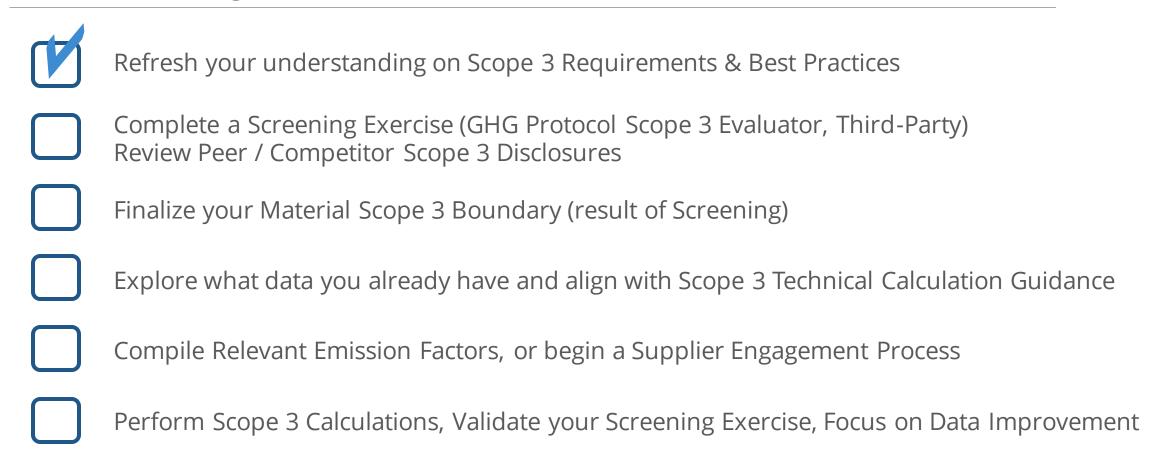
Closing Thoughts & Next Steps







Takeaway Checklist









Takeaway Resources

Emission Factor Resources:

- World Resources Institute Cross Sector Tools Emission Factors (upstream & downstream distribution)
- Department of Food, Environment, and Rural Affairs (**DEFRA**) UK (air travel)
- United States Environmental Protection Agency Emission Factors Hub (distribution, car travel)
- National Inventory Reports UNFCCC (electricity, natural gas)

Calculation Guidance:

- GHG Protocol Technical Guidance for Calculating Scope 3 Emissions
 - Category-specific chapter snippets are available
 - Data and emission factor requirements, with examples







Contact and Q&A

Thank you for your time and attention!

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Thank You!