



# LCA Academy

Houston | September 4 - 5, 2024

# Join Us: Life-Cycle Analysis Academy

A life-cycle analysis (LCA) is a systematic and comprehensive method for evaluating the environmental impact of a product, service, or system from its inception to its end-of-life. Undertaking a comprehensive LCA requires a detailed examination of energy usage, upstream farm or raw material extraction inputs, and processing inputs along with all outputs throughout the various life-cycle stages including co-products and waste.

LCAs typically assess the global warming potential, or carbon footprint, of a functional unit but can also encompass other impact categories such as land use and land use change, eutrophication, acidification, and water use, among others.

As climate regulations and tax credits evolve, consumer preferences shift, and opportunities in voluntary carbon markets emerge, LCAs have become the cornerstone of these developments. Understanding and implementing LCAs is crucial for organizations to stay ahead in these changing times.

EcoEngineers is an industry leader in performing LCAs, with a team of renowned scientists performing more than 1,000 carbon LCAs since 2015.

Combined with our expertise in EcoUniversity, we created the LCA Academy to help our clients meet the ever-increasing demand for LCAs, while reducing their environmental impact and increasing profitability.

**The LCA Academy provides a unique opportunity for industry leaders and practitioners across all sectors to gain insights from our expertise and make a significant impact in your field. The program offers a forum for influencing industry trends and regulations - and provides an immersive workshop experience.**

**“The best investment my company made in events this year was sending me to the LCA Academy.”**

- VP of Growth, Enterprise Software Provider  
Attendee of LCA Academy in Des Moines, June 2024

# Why Attend an LCA Academy?



Understand LCA concepts, methodologies, and the role of LCA in environmental, social, and governance (ESG), compliance, and conservation



Gain a deeper understanding of the regulations that require LCA and drivers that are shaping the global marketplace



Learn how to model LCA scores using leading technologies and ISO standards



Participate in an interactive discussion focused on creating a consistent LCA approach to global policies

# LCA Academy Learning Objectives

## Global regulations that require LCA:

- Regulated markets in North America:
  - U.S. Renewable Fuel Standard (RFS) and incentive programs such as the U.S. Inflation Reduction Act (IRA)
  - Canada's Clean Fuel Regulations (CFR)
  - Low-Carbon Fuel Standard (LCFS) programs in CA and BC
  - Clean Fuels Programs in Oregon and Washington
  - Greenhouse Gas (GHG) Protocol
  - Department of Energy (DOE) grants
  - Environmental Product Declarations (EPDs)
- Regulated markets in Europe:
  - Renewable Energy Directive III (RED)
  - Emissions Trading Scheme (ETS)
  - Clean Border Adjustment Mechanism (CBAM)
  - A wide array of registries and other European certification schemes such as International Sustainability and Carbon Certification (ISCC)
- Voluntary carbon markets

## Understanding the importance of LCA:

- Concepts, methodologies, and the role of LCA in environmental, social, and governance (ESG) reporting
- The importance of developing and deploying climate-friendly technologies and operational improvements in manufacturing as measured by an LCA
- LCA results interpretations and various assessment techniques for corporate and product reporting
- Differences between LCA and scope reporting
- Data relevance and dataset selection
- Incorporating ISO quality standards
- Review and comparison of LCA tools including the Argonne National Laboratory's GREET (Greenhouse gases, Regulated Emissions, and Energy use in Technologies) model and its derivatives, GHGenius, GaBi/Sphera, SimaPro, openLCA, and more
- Immersive workshops: Argonne GREET model focused on renewable diesel (RD) and sustainable aviation fuel (SAF), along with relevant hydrogen (H2) topics; or CA-GREET model of Tier 1 dairy manure to renewable natural gas (RNG)



# Registration

This exclusive client program has limited seating, so be sure to register in advance to secure your place.

## **Early Registration: \$2,450**

Advance pricing until August 14

Houston, Texas

## **Registration: \$2,950**

Pricing after August 15

Houston, Texas

[Register Here](#)

For questions about this program, contact Stephanie Decker at [sdecker@ecoengineers.us](mailto:sdecker@ecoengineers.us).

# LCA Academy Schedule

## Day 1:

### 8:00a.m. to 5:00p.m. – Plenary Session:

- Understand the importance of measuring the impact of products on the environment
- Gain insights into the regulations shaping the global marketplace
- Learn the foundations of LCA and carbon accounting
- Hear assessments of various tools and methodologies
- Learn about emission factor databases and transparency
- Gain insights into the tools for estimating and analyzing your results
- Understand the complexities of LCAs, and the importance of having the right expertise in-house or with partners to meet business objectives
- Learn the importance of LCA modeling for tax and other energy credits, including the U.S. Inflation Reduction Act (IRA) and California Low Carbon Fuel Standard (LCFS)
- Work towards a consistent LCA approach in global policies through an interactive discussion with key regulators, including: National Academies of Sciences, Engineering, and Medicine (NASEM); U.S. Department of Energy (DOE) Bioenergy Technologies Office (BETO)

### 5:00 to 7:00p.m. – Reception

## Day 2:

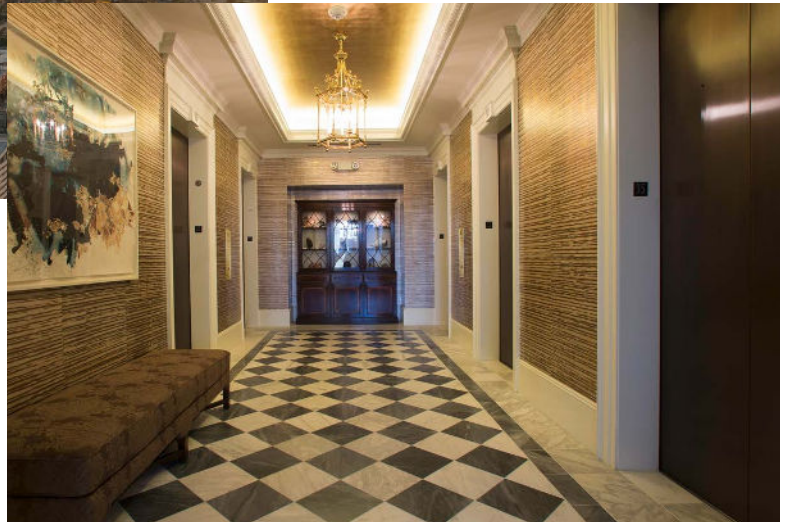
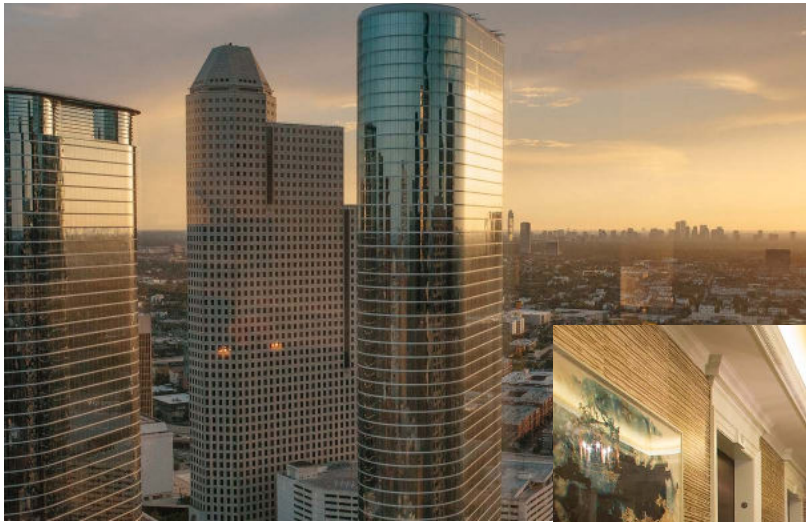
### 8:00a.m. to 12:00p.m. – Technical Tracks:

- Participate in one of two tracks, with case studies focused on renewable diesel (RD and sustainable aviation fuel (SAF), along with relevant hydrogen (H<sub>2</sub>) topics, using Argonne GREET, or dairy manure to renewable natural gas (RNG) using the CA-GREET Tier 1 calculator case studies.
- Expand your knowledge and understanding of the Argonne GREET model with an in-depth review of the model and its functions
  - Define system boundaries; identify primary data sources, such as facility data; assess secondary data sources that can help fill in a data gap; and determine a carbon intensity (CI) result
  - Learn how to collect data, assess data quality, and interpret results from LCA modeling in GREET and its derivative tools, such as a 45V calculator for RD/SAF
  - Understand what CI scores mean, how to spot CI reduction opportunities looking at key contributors, and the uses of CI in regulatory compliance programs to receive credits
  - Gain insights from Eco's team of experts and network with other industry leaders

# Venue

The Houston program is being held at the Petroleum Club, 1201 Louisiana Street, 35th Floor.

Registration includes food and beverages for breakfast, lunch, and reception on Day 1, and breakfast on Day 2, all held on-site at the Petroleum Club.





# Our Expertise



**15+**

EcoEngineers: For 15 years, providing strategic advisory services to our global client base

**1,000+**

Life-Cycle Analysis: Carbon scores for more than 1,000 fuel pathways and other products



**1,000+**

EcoUniversity: Conducted more than 1,000 hours of executive training in carbon management





# About EcoEngineers

EcoEngineers is a consulting, auditing, and advisory firm with an exclusive focus on the energy transition. From innovation to impact, Eco helps its clients navigate the disruption caused by carbon emissions and climate change. Eco helps organizations stay informed, measure emissions, make investment decisions, maintain compliance, and manage data through the lens of carbon accounting. Its team of engineers, scientists, auditors, consultants, and researchers live and work at the intersection of low-carbon fuel policy, innovative technologies, and the carbon marketplace. Eco was established in 2009 to steer low-carbon fuel producers through the complexities of emerging energy regulations in the United States. Today, Eco's global team is shaping the response to climate change by advising businesses across the energy transition.

Eco is a leader in performing LCAs, using a systematic and comprehensive method for evaluating the environmental impact of products, services, or systems from inception to end-of-life. Eco's team of industry-renowned scientists has performed more than 1,000 carbon LCAs since 2015, on a variety of products including grains, oils, fuels, plastics, farm products, supplements, lubricants, metals, and more. Its team is fully adept at utilizing all available LCA tools such as the Argonne National Laboratory's GREET (Greenhouse gases, Regulated Emissions, and Energy use in Technologies) model and its derivatives, GHGenius, SimaPro, OpenLCA, and more. Eco has expertise across global regulations, bringing the right strategies and solutions to help you reach your carbon management and environmental, social, and governance (ESG) goals.

Eco is accredited by ANSI National Accreditation Board (ANAB) as a greenhouse gas (GHG) verification body in accordance with ISO standards ISO/IEC 17029:2019, ISO 14065:2020, and ISO 14064-3:2019.



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