Mobilizing companies to calculate, report and reduce logistics emissions

Logistics Emissions Accounting and Reduction Network (LEARN)

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This project completes in March 2019. For more information: www.learnproject.net or info@smartfreightcentre.org

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The LEARN Project
www.learnproject.net

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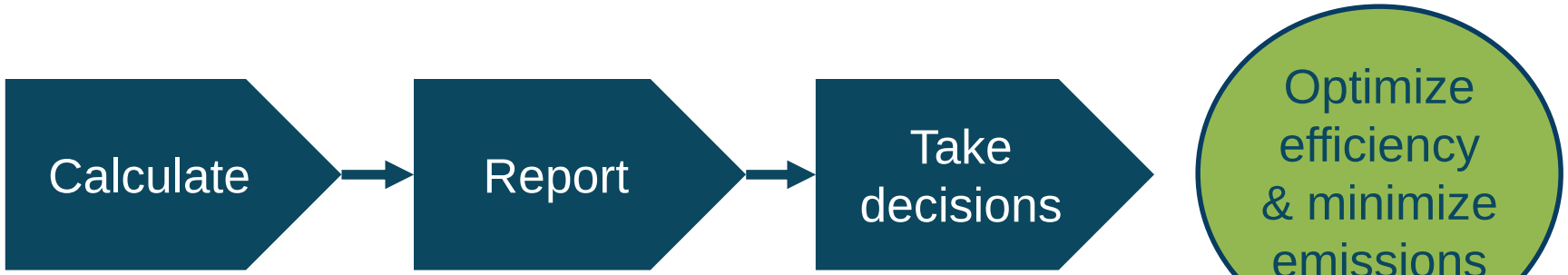
Mobilize businesses to reduce their carbon footprint across their global logistics supply chains through improved emissions calculation and reporting



LEARN partners

SMART FREIGHT CENTRE
CLECAT
Connekt
DLR
energy saving trust
ESC
Fraunhofer IML
IRU PROJECTS
ivl
NTM
TNO innovation for life
UNTRR
ZLC
MIT GLOBAL SCALE NETWORK

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Four “Asks” and LEARN outputs to help

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- Businesses: calculate logistics emissions using the GLEC Framework
- Businesses: report more consistent and reliable logistics emissions data
- Governments & research institutes: support business
- All stakeholders: join our growing network to help businesses be leaders

1. Guide for GHG accounting at logistics sites as part of GLEC Framework
2. Calculation tools info sheets
3. GLEC Framework challenge cases & company examples
4. Training course on emissions accounting
5. GLEC Declaration for external reporting
6. Research Agenda
7. Policy Recommendations & input into ISO standard development
8. Growing LEARN network & annual workshop to continue

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Businesses: calculate logistics emissions using the GLEC Framework

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Adopt the GLEC Framework as the universal method for logistics emissions calculation

+

1 **Guide for GHG Emissions Accounting at Logistics Sites** as part of GLEC Framework

→

Calculate emissions

2 info sheets available for main tools & programs

In-house Tool

External Tool or Green Freight Program

SmartWay · clean CARGO Sustainable Transportation · PLVB Programa de Logística Verde Brasil · GREEN FREIGHT ASIA · LEAN & GREEN EUROPE · Objectif CO2 · REDUCE REPORT RECORD CLERS · EcoTransIT World · Green Router · Lean analytiX · LogEC · BearingPoint. · NTM · TK Blue · Via Green institute · UPU Universal Postal Union · Other

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Businesses: calculate logistics emissions using the GLEC Framework

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3 GLEC Framework Challenge Cases including answers & company examples to support implementation

1. How to adopt the GLEC Framework in combination with existing methodologies, tools or standards?

2. How to integrate into the existing TMS and broader IT systems of the company?

3. How to apply the GLEC Framework to specific segments and/or combinations of multiple modes?

4. How to report results to customers and external stakeholders using the GLEC Declaration?

5. How to use the results for different decisions and implementation of actions?

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Businesses: calculate logistics emissions using the GLEC Framework

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4 Training & education of road freight carriers (in English, Spanish and Romanian)

Module 1: Carbon Footprint Measurement

- All involved in logistics emissions accounting
- 4 Units
  - Background
  - Standards, protocols and reporting frameworks
  - Data, tools and key resources
  - Calculating carbon footprint

Module 2: Carbon Emissions Assurance

- Management & CSR staff
- 4 Units
  - Re-cap on carbon footprinting
  - Assurance of GHG declarations and assurance engagements
  - Preparation for verification
  - Outputs from verification

Module 3: Sustainability Strategy & Executives Training

- Management & CSR staff
- 3 Units
  - Climate chance science and freight challenges
  - Developing a Decarbonization Strategy for Logistics
  - Decarbonization Actions for Freight Transport

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Businesses: report more consistent and reliable logistics emissions data

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Input for customer CSR reports, logistics decisions and collaboration

5 GLEC Declaration on Logistics GHG Emissions

BUSINESS TO BUSINESS REPORTING
at service level to customers

PUBLIC REPORTING
at company level in to public, government, investors, programs

Minimum and negotiable / "Smart Freight Leadership"

- GHG total and per tonne-km or unit of production
- Breakdown by modes, scope 1,2,3, WTW/TTW, other
- Logistic supply chain % coverage
- Sources of input data
- Confirm independent data verification

Input for labels or rating by programs, reporting initiatives, indices and product labels

CDP DRIVING SUSTAINABLE ECONOMIES · SCIENCE BASED TARGETS · GRI · clean CARGO Sustainable Transportation · SmartWay · PLVB · GREEN FREIGHT ASIA · LEAN & GREEN EUROPE · SUSTAINABLE PURCHASING LEADERSHIP COUNCIL · Dow Jones Sustainability Indexes · Gartner Supply Chain Top 25 · Other

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Governments & research institutes: support business

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6 Research Agenda to advance logistics emissions accounting and disclosure

1 Further harmonization of approaches

- Logistics emissions in overall climate change efforts
- Awareness among practitioners
- Availability of primary data
- Inform emission reduction and monitor results

2 Standardization of data exchange

- Data exchange protocols
- Common platforms for information exchange
- Upgrading Transport Management Systems
- Trust issues surrounding data sharing

3 Extended emissions calculation scope

- ICT infrastructure and use
- Logistics infrastructure
- Evaporative emissions
- Packaging materials
- Air pollutants

4 Support of ex-ante emissions calculation

- Organizational set-up of the logistics supply chain
- Construction of logistics infrastructure
- Collaboration between logistics partners

5 Implementation of the GLEC Declaration

- Behavioral studies on business attitudes to disclosure
- Assurance or verification
- Integration into programs, tools, sust indices, other
- Training and information needs of companies
- Inclusion in ISO standard and EN16258

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7 Policy Recommendations & input into ISO standard development

Methodology development

- Back GLEC Framework and support ISO development & EN16258 update
- Back single global set of fuel emission factors, including alternative fuels
- Support awareness and information campaigns for industry

Data collection and exchange

- Back IMO/IATA protocols & alignment
- Support development of global (or EU) data exchange protocol(s)
- Explore development of neutral platform & IT architecture with TMS link
- Take more central role in data exchange

Assurance

- Give companies incentives to collect high quality data and obtain assurance
- Explore assurance needs in case of mandatory report or carbon pricing
- Support standardized assurance guidance and reporting template

Use of results

- Establish national Green Freight Program
- Make gov't targets relevant to the sector
- Support industry surveys & recognition
- Include in NDCs/nat'l plans: infrastructure, vehicles/vessels and their operation

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All stakeholders: join our growing network to help businesses be leaders

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8 'Network of Networks' with annual Smart Freight workshop to continue

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Thank you!

www.learnproject.net

For more information contact: Nicolettevdjagt@clecat.org or info@smartfreightcentre.org

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European Commission