Carbon Footprint

Carbon footprinting - Monitoring CO2 emissions along the logistics chain

Carbon Footprint - Monitoring für den CO2-Ausstoß in der Logistikkette

Funding: National (Germany)
Duration: Oct 2009 - Feb 2011
Status: Complete with results

Background & policy context:
Freight transport and logistics is a major source of energy consumption and climate gas emissions from transport. For internal assessments as well as for image and competitiveness reasons, customers and logistics service providers get increasingly aware of CO2 footprint information. However, there is still a lack of accepted and comparable calculation methods for greenhouse gas emissions along complex freight and logistics chains.

Objectives:
The aim of the project was to develop a standardized methodology to calculate GHG (Greenhouse gases) emissions along the logistics chain and to incorporate this methodology in the development of the respective standard prEN 16258 by the European Committee on Standardisation (CEN).

Methodology:
The project “Carbon footprinting – Monitoring CO2 emissions along the logistics chain” is about developing a set of ideas and recommendations for a standardized calculation method. Therefore, the project is divided into several subprojects:

- Identify needs for standardization and harmonization.
- Develop concepts in cooperation with partners from the logistics sector.
- Develop advice for a practicable, standardized, calculation method.

Parent Programmes:
UFOPLAN before 2010 - Environmental Research Programme of the Federal Ministry for the Environment, Nature Preservation, Construction and Nuclear Safety

Institute type: Public institution
Institute name: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety; BMUB
Funding type: Public (national/regional/local)
Other funding sources: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Partners:
Öko-Institut e.V., Institut für angewandte Ökologie
Martin Schmied
IFEU - Institut für Energie- und Umweltforschung Heidelberg GmbH
Wolfram Knörr
Deutscher Speditions- und Logistikverband (DSLV)

Organisation: Öko-Institut e.V., Institut für angewandte Ökologie
Address: Schicklerstraße 5-7
Zipcode: 10179
City: Berlin
Contact country: Germany
Organisation Website: Institute for Applied Ecology

Key Results:
Meanwhile, a draft of the European CEN standard prEN 16258 – entitled “Methodology for calculation and declaration on energy consumptions and GHG emissions in transport services” exists. To simplify the usage of the draft standard prEN 16258 for freight forwarders and logistics operators, guidelines/ a manual was developed, which are published and distributed by the Association of German Freight Forwarders and Logistics Operators (Deutscher Speditions- und Logistikverband - DSLV).
Findings of the study are published in detail by a final report (German only) which is available online via the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety:

http://www.bmu.de/fileadmin/Daten_BMU/Pools/Forschungsdatenbank/fkz_3709_45_139_carbon_footprint_teilgutachten1_bf.pdf

**STRIA Roadmaps:** Other specified  
**Transport mode:** Multimodal transport  
**Transport sectors:** Freight transport  
**Transport policies:** Decarbonisation  
**Geo-spatial type:** Other