



DataCross 2.0 - The competence for the procurement and calculation of real CO₂ emissions

CO₂ balance as an essential part of the life cycle assessment

With the European Green Deal, the EU Commission has set the ambitious goal of making the EU the first climate-neutral continent. In line with this, national legislation such as the German Climate Protection Act calls for greenhouse gas neutrality by 2045. In order to achieve such ambitious targets, it is first and foremost up to politicians to enact appropriate legislation to limit harmful emissions.

Ultimately, however, the various industries must manage the transformation. Last but not least, increasing pressure from customers and investors is another important reason for evaluating and minimizing emissions. At the same time, more and more marketing departments are discovering the topic for themselves and are looking for reliable data and facts to score points with customers.

The calculation of a corporate carbon footprint (CCF) or a product carbon footprint (PCF) will therefore become essential in future for companies that want to remain future-proof on the market.

What needs to be done?

The increasing number and dynamics of legal regulations (Battery Directive, ELV, Ecodesign, etc.) and ambitious customer requirements are already calling for action today. Before companies can take appropriate measures in their processes to reduce emissions, comparative values must be created. The following five steps must be carried out to determine the necessary data and facts:

1. Define system boundaries

Which CO₂ emissions should be included in the balance sheet and which should be excluded (for what reasons)?

2. Measure / evaluate actual emissions and associated energy consumption

What direct / indirect emissions does your company generate, what emissions does your product generate and what indirect emissions does your supply chain generate?

3. Calculate first CO₂ balance

Which data is valid and which requires dedicated communication with your suppliers? How can measured energy consumption be set in relation to the corresponding emissions?

4. Derive and formulate reduction targets and measures

Do you as a company want to become „climate neutral“? If so, by when? Or do you want to set specific reduction targets for your company or your products?

5. Take measures to achieve objectives and monitor their effectiveness

Which goals can be achieved quickly with simple measures and where do you need to make long-term investments? Who is responsible for which measures in which company processes?

- ▶ Procurement of real CO₂ data
- ▶ Simple calculation of emissions
- ▶ SCOPE 1, 2 and 3 analysis
- ▶ Creation of reliable CCF and PCF
- ▶ Reduction of the CO₂ footprint

How can tec4U-Solutions support you?

We work with you to create a reliable CCF or PCF, set reduction targets and introduce suitable measures. In addition, we support you in the sustainable monitoring of the agreed product adjustments and carry out regular effectiveness analyses. In doing so, we consider all three scopes of CO₂ balancing:



Scope 1

Direct emissions >
Energy sources at the site
(natural gas, coolants, fuels ...)



Scope 2

Indirect emissions >
Purchased energy
(electricity, steam, district heating ...)



Scope 3

Indirect emissions supply chain >
Enquiries about emissions in the
upstream supply chain

Scope 3 emissions usually account for a large proportion of the greenhouse gases emitted. This is precisely where there is potential to reduce greenhouse gases.

The CO₂ module in DataCross

The CO₂ module in our sustainability compliance software DataCross is a highly efficient and effective tool for supplier communication to obtain the necessary emission values.

The CO₂ module offers you the following functionalities:

- ▶ Calculation of a CCF + PCF
- ▶ Calculation with databases
- ▶ Calculation with real data
- ▶ Calculation with mixed data
- ▶ Managing CO₂ data
- ▶ Review of objectives
- ▶ Requests for real CO₂ data in the supply chain (SCOPE 3)
- ▶ Creation of certificates, reports and evaluations
- ▶ Best / worst case scenarios

We also support you in validating the data, deriving and monitoring effective measures and providing the following **consulting and services**:

- ▶ Process optimization in purchasing and development (product management)
- ▶ ERP interfaces: tec4U-Solutions is an official member of the SAP Partner Edge OE
- ▶ Taking over the data research to obtain and validate the data from the supplier
- ▶ Training & workshops to educate & sensitize your employees
- ▶ Strategy development for the implementation of your sustainability and climate goals

With the CO₂ module and our accompanying services, you can make a demonstrable contribution to the statutory CO₂ reduction targets and make your company fit for a more sustainable future!

If you have any questions about the CO₂ module in DataCross, please contact **Stefan Nieser**.

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