

Carbon Footprint Calculation of the products delivered to Schaeffler

1 Our motivation

The calculation of a product's carbon footprint has become increasingly important. As a key sustainability tool, it helps not only to meet customer requirements, but also to track and improve the company's sustainability performance. To ensure the expectations in terms of consistency, transparency and informative value, we, as Schaeffler, and our suppliers need a standardized basis for calculation – the ISO 14067.

2 Advantages

The calculation of product carbon footprints can support companies in this process to

- **create transparency** in the value chain regarding upstream and downstream processes and the actors involved,
- **raise awareness** of greenhouse gas emissions along the value chain and identify particularly high-emission phases,
- **identify potentials** on how to reduce emissions,
- **document improvements** in the CFP, for example over product generations,
- **gain impetus** for the (further) development of one's own climate strategy.

3 How to operationalize for a specific product: Product Carbon Footprint (PCF)

According to ISO 14067, the carbon footprint of a product is the sum of greenhouse gas emissions (GHGs) and removals in a product system (from cradle to Schaeffler gate), expressed as CO₂ equivalents.

For the selection of suitable and applicable emission factors, it is recommended to contact material, component and energy suppliers. In addition, special certified emission databases can be used. In any case, a transparent and consistent selection of emission factors must be conducted.

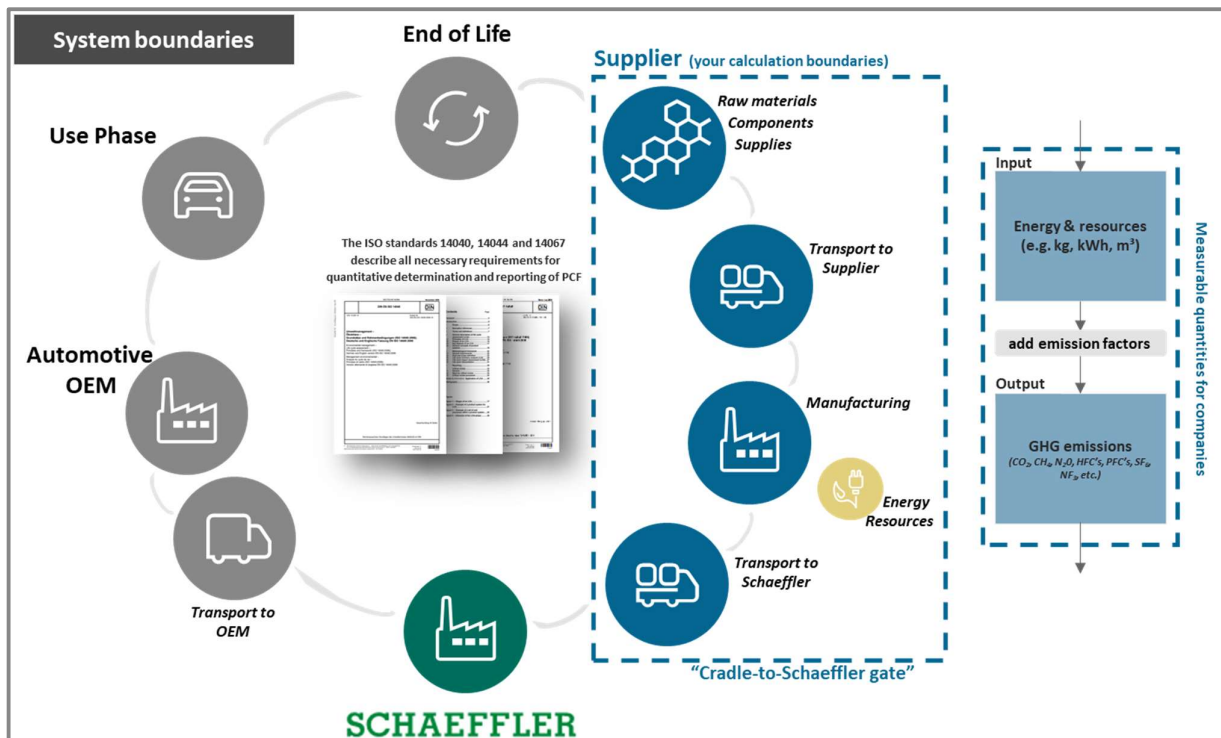


Figure 1: The full life cycle of a product with a "cradle-to-Schaeffler gate" scope for a Schaeffler supplier

4 Scope 1, 2 & 3: What is it?

Especially for GHG accounting and reporting purposes three “scopes” are defined by the globally recognized GHG Protocol Standard. This scope-specific approach helps to classify direct and indirect emission sources and to structure climate policies and business goals.

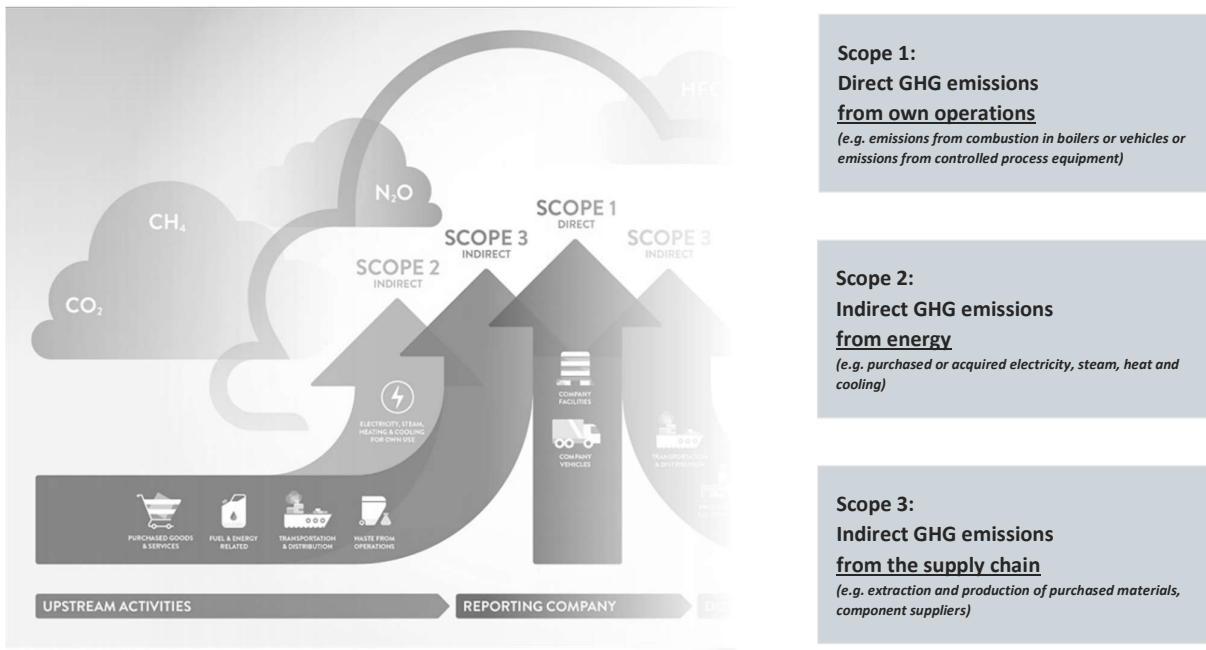


Figure 2: An overview of scopes and emissions across the value chain according to GHG protocol (figure modified)

5 Further information and guidelines

Greenhouse Gas Protocol GHG Standard

ISO 14067:2018¹

ISO 14040:2006¹

ISO 14044:2006¹

¹Procurement of ISO standards must be carried out independently