



GAIA FOOTPRINT – CARBON FOOTPRINT OF A PRODUCT

Assessment of carbon footprint for products enables climate-beneficial solutions. Climate impacts of a product are identified and quantified, and, based on the assessment, means for minimising the climate impact can also be developed. Reduction of climate impacts often brings about cost savings, as the usage of energy and materials becomes more effective. Carbon footprint is also a powerful tool for marketing and communications. Gaia carries out carbon footprint assessment for products with in-depth expertise and outstanding reliability.

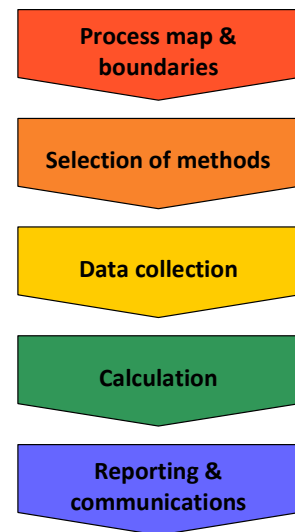
The environmental awareness of consumers is on the rise and assessment of environmental impacts is required throughout the value and production chains. Assessment of carbon footprint for products is part of a solution for this ever-growing challenge.

Scope of the assessment

Carbon footprint is calculated for the entire lifecycle of the product or focused on a certain part of the life cycle based on product-specific requirements. Carbon footprint can be calculated also for services.

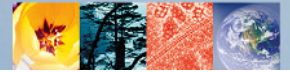
The emission sources taken into account in the assessment can include:

- electricity, heat and fuel consumption,
- logistics,
- raw materials,
- usage of natural resources,
- other usage of materials,
- waste and
- water consumption.



Steps for carbon footprint assessment for products

1. Definition of a process map for life cycle of the product and definition of the assessment boundaries.
2. Selection of the most suitable method for the assessment. Relevant ISO standards and other state-of-the-art methods such as PAS 2050 can be utilised based on case-specific requirements.
3. Collection of data on emission factors of all relevant materials and functions along the life cycle of the product, keeping in mind the local circumstances.
4. Collection of calculation data.
5. Calculation of carbon footprint in a transparent manner by utilising internationally widely accepted practices. Estimation of error marginal for results, if calculations are based on other than primary data.
6. Reporting of results in a compact way so that exploitation of results for customer communications is straight-forward.



Gaia provides innovative and cost-effective solutions for sustainability

Gaia serves corporations, international organisations, and private and public institutions looking for innovative solutions for sustainability. Our areas of expertise include energy, climate change and environment, as well as risk management and innovation. We have an extensive track-record of delivering high quality and cost-effective results to our private and public sector clients. Gaia is based in Finland, Switzerland and China.

Within the last ten years, Gaia has conducted over 100 projects on energy and climate. Gaia has a wide experience on climate politics and mitigation and carbon footprint accounting for organisations, products and municipalities.

We provide our clients with profound and multi-disciplinary know-how, and a cross-sectoral approach to their challenges. We combine extensive client experience across industries and fields of public sector with deep understanding of the challenges of, and solutions to sustainability.



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*Innovative Solutions
for Sustainability*

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