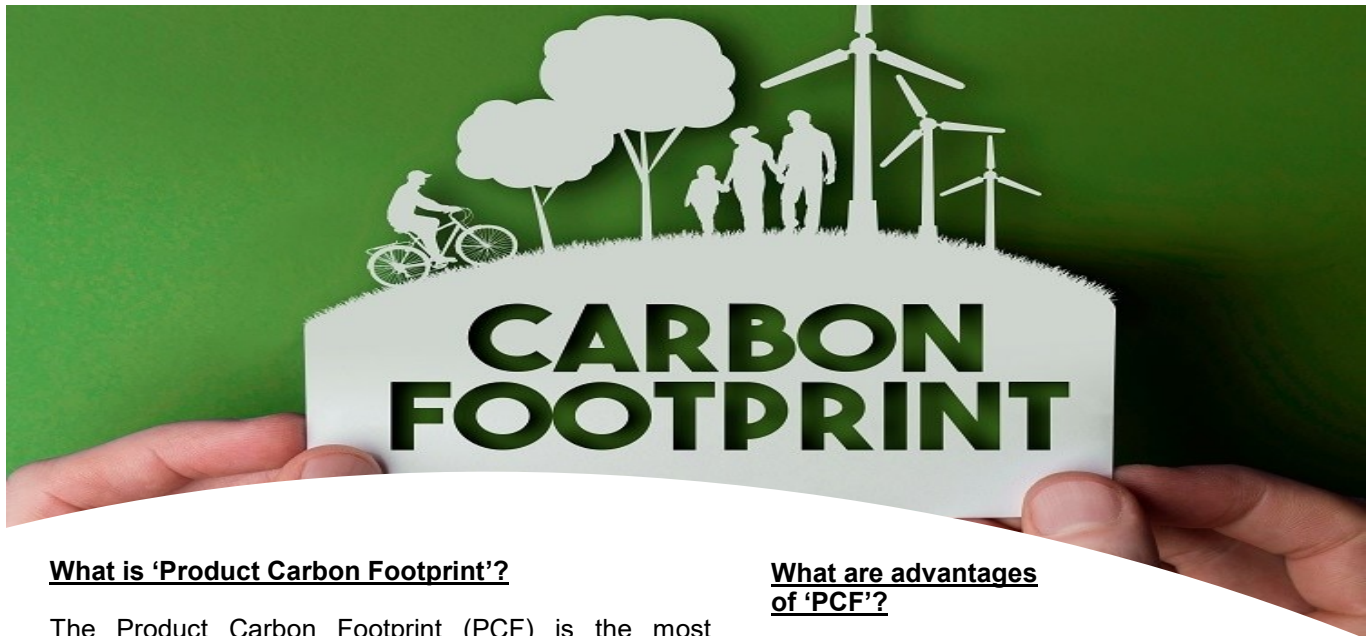


Determine The Climate Impact Of Your Product



What is 'Product Carbon Footprint'?

The Product Carbon Footprint (PCF) is the most established method for determining the climate impact of a product. Throughout the entire life cycle of a product - from raw material extraction to recycling or disposal-climate-relevant impacts arise in the form of greenhouse gas (GHG) emissions. The PCF helps to identify, analyze and, with the right measures, reduce or (ideally) completely avoid these impacts.

Every product or service has an impact on the environment. In a world facing multiple crises of resource depletion, the pollution of air, water and soils, and climate change, there is a need to work towards reducing these impacts to make our products fit for a more sustainable future.

It is important to be able to measure the carbon intensity specifically in order to understand and reduce the impact on climate change. GHG (Green House Gases) emissions, which are the sources of climate change, can originate from a number of different processes.

Goals of the PCF:

- Reduction of GHG emissions and achievement of climate goals.
- Analysis of the climate-relevant hotspots of a production system.
- Increasing transparency in industry.
- Development of internationally binding, harmonized standards and guidelines.

What are advantages of 'PCF'?

- Organizational strategy and ethics – Overall approach to sustainability will drive specific projects.
- Product carbon foot-print reveals how products and supply chains impact carbon emissions.
- It also helps to address communication with consumer on carbon information. Product carbon footprint helps to differentiate products for sensitive consumers in their purchasing decisions.
- Evaluation of emissions over each stage of lifetime enables better targeted, more effective emissions reduction and cost savings initiatives, which may or may not fall under the company's direct control.
- Internal communications – In order to further motivate internal engagement on sustainability projects.
- Customer requirements and external communication.
- Brand differentiation - Differentiation from competitors has market benefits.
- Reputation risk - Identify high profile issues and manage these through footprint and action plans.
- Compliance to reporting legislation – Legislation requires carbon disclosure and this could be at product level in the future.
- Identify resource and cost saving opportunities. The most significant sources of GHG are often linked to items that cost money e.g. they use more energy.

Our Services for PCF Certification:

GHG Experts at TUV India Private Limited will help you determine the PCF, part of Product LCA (Life Cycle Assessment) assessment. This "footprint" result the impact of product on the environment from design to disposal due to emission of GHG emissions over its entire lifetime.

Verification and Certification Procedure:

For verification, all relevant data has to be documented by the company and submitted to TUV India. After a pre-check of the documents by TUV India, the verification consists of on-site audits and interviews with qualified GHG Auditor. The auditors from TUV India document the results of the assessments, including any findings such as non-conformities or areas for improvement. After all non-conformities are successful closed, the verification results are reported by TUV India and the certificate will be issued. Please find below step wise approach of Certification.

- Acceptance of the proposal with agreed methodology.
- Submission of data as requested after signing the contract.
- Evaluation of documentation by TUV India & release of desk review and onsite assessment report with gap analysis.
- Submission of final documentation along with corrections / additional clarifications as applicable.
- Final Evaluation of documentation and recommendation to Final Approver of TUV India.
- Award of Certification by TUV India.



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Our Approach:

We will conduct your Product Carbon Footprint according to 14067 : 2018 and PAS (Publicly Available Specification) 2050 standards as applicable. The assessment comprises below:

- a) GHG emissions and removals linked to the main life cycle stages in which they occur, including the absolute and the relative contribution of each life cycle stage.
- b) GHG emissions and removals arising from fossil carbon sources and sinks.
- c) GHG emissions and removals arising from biogenic carbon sources and sinks.
- d) GHG emissions resulting from (Direct land-use change) dLUC.
- e) GHG emissions resulting from aircraft transportation.
- f) Soil carbon change.
- g) GHG emissions and removals occurring as a result of (Indirect Land Use Change) iLUC.
- h) Carbon storage arising from the use stage and/or end-of-life stage of products.

