Product carbon footprint verification to ISO 14067

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Independent verification of your product carbon footprint and carbon reduction to ISO 14067 criteria can help you meet emerging demands from customers, investors and regulations.

What is a product carbon footprint?
A product carbon footprint measures the greenhouse gas emissions of a product throughout its entire lifecycle from material procurement through end-of-life. Manufacturers must first create a lifecycle assessment (LCA), which forms the basis for the product carbon footprint report.

How can companies show improvement in their product carbon footprint?
For manufacturers who not only have measured their products' footprint but also have taken steps to reduce it, an LCA comparison study is needed to assess any reduction between old and newer version of the product in order to support the reduction claim.

Why should a product carbon footprint be verified?
Verification of your product's carbon footprint demonstrates your commitment to climate protection, enabling you to establish targets and create a carbon reduction plan.

It is crucial for companies to ensure the reliability, consistency, and accuracy of their carbon footprint and supporting information, as they are being evaluated based on their actions. UL Solutions offers verification services that help you demonstrate that your greenhouse gas statement meets international standards. Our services also reduce the risk of data errors and build trust among stakeholders. This verification provides additional credibility to manufacturers who have measured and reduced their products' footprint, demonstrating genuine efforts to reduce environmental impact.

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Product Carbon Footprint Verification Options by UL Solutions

Criteria	Carbon measured program	*ISO 14064-3 carbon footprint verification program	Carbon reduced
Standard compliance	ISO 14067	ISO 14067, verification following ISO 14064-3	**ISO 14067
Site visit	No	Typically, Yes	**No
Life cycle assessment required for verification	Yes	Yes	Yes – Comparative study required of new vs old product version
Process	Confirms compliance to standard and program criteria through critical review of Life Cycle Assessment and PCF	In addition to compliance with criteria, we also conduct a risk-based approach that evaluates the truthfulness of the PCF report and primary data used	**Follows carbon measured process, confirming comparison criteria and minimum reduction is met for comparative study
Deliverables	Product carbon footprint measured statement of verification	Product carbon footprint statement of verification to the limited or reasonable level of assurance	**Product carbon footprint reduced statement of verification
Risk mitigation level	Medium Suitable for those that wish to show ISO 14067 standard compliance	High May be necessary for financial disclosures or to comply with specific PCF frameworks	**Medium Suitable for those that wish to show ISO 14067 standard compliance

UL Solutions offers multiple product carbon footprint verification options to suit a variety of customer needs. Consult the table on this page to determine which of our programs are most suitable for you.

*The extent of verification to ISO 14064-3 differs by two levels:

- **Reasonable:** Where the nature and extent of the verification activities have been designed to provide a high — but not absolute — level of assurance of historical data and information.
- **Limited:** Where the nature and extent of the certification activities have been designed to provide a reduced level of assurance of historical data and information.

** The ISO 14064-3 verification approach can optionally be used for the carbon reduced program when a higher level of risk mitigation is needed. A site visit may be required.

How to achieve a Product Carbon Footprint Verification

A Product Carbon Footprint Verification with UL Solutions is achieved in four phases:

PHASE 1

Proposal:

- Application
- Quote

Verify Project Scope:

- Confirm scope
- Objectives*
- Level of assurance*
- Materiality threshold*

PHASE 2

Project Kick-Off:

- Identify project team
- Introductions

Project Planning:

- LCA and PCF review against standard criteria
- Strategic analysis and risk assessment*
- Verification and evidence gathering plan*
- Site audit plan*
- LCA and PCF review against comparability criteria**

PHASE 3

Execution:

- Conduct site audits*
- Verification and evidence gathering activities according to plan*
- Customer resolves unresolved standard criteria gaps

PHASE 4

Reporting:

- Draft opinion*
- Prepare Verification report

Issue Opinion:

- Independent review*
- Issue opinion*

PCF Publication:

- PCF is published in spot.UL.com
- Customer authorized to use Mark on compliant products

* Steps with an asterisk are for ISO 14064-3 Verification process only.

** Steps with two asterisks are for Carbon Reduced Verification process.

Get in contact with UL Solutions: UL.com/PCF

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