



ISO 14067



Product Carbon Footprint Certification Scheme

Climate change has been identified as one of the greatest challenges facing nations governments, businesses and citizens over the coming decades. Climate change has implications to both humans and the environment and could lead to significant changes in the use of resources, methods of production and economic activities.

A carbon footprint is defined as “the total sets of greenhouse gas emissions caused by an organization, event, product or person”. Greenhouse gases (GHGs) can be emitted as a consequence of activities such as transportation land clearance, fuel combustion, use of electricity, manufacture of goods, use of materials and delivery of services. For simplicity of reporting, it is often expressed in terms of the amount of carbon dioxide (CO₂), or its equivalent of other GHGs emitted (CO₂e).

The carbon footprint of a product is the sum of greenhouse gas emissions and removals in a product system, expressed as CO₂ equivalent and is based on life cycle assessment (LCA) which considers the ‘cradle to grave’ concept, i.e. from the receiving of the raw materials, production, distribution of the products, usage of the products until the disposal of the products.

Carbon Footprint Certification supports the overall goal of environmental labels and declarations to encourage demand and supply of products (including services) that cause less stress on the environment, specifically the emissions of greenhouse gases. This can be achieved through communication of verifiable and accurate carbon footprint information that is not misleading.

The objectives of Carbon Footprint Certification are to create transparency, identify the main sources of emission and create innovations in reducing energy and raw materials consumption. An organization

can demonstrate its commitment to reducing the impact of its daily operations on the environment with carbon footprint analysis. The Carbon Footprint Certification scheme is operated in accordance with the ISO/TS 14067 standard.

Carbon Footprint Verification (CFV)

SIRIM QAS International can independently verify the accuracy of the carbon footprint of an organization's product. The organization will be able to identify the level of emissions resulting from each of the processes during the entire lifecycle of the product. CFV is fundamental to provide credibility, reassuring internal and external stakeholders that the carbon footprint of an organization's product is accurate and complete.

Benefits of Carbon Footprint Certification:

- Enhance the environmental integrity of GHG quantification - SIRIM QAS International's verification team will assess all the raw data used in the determination of the GHG quantification. A certificate will be issued which confirms the GHG emissions of the product.
- Facilitate the ability to track performance and progress in the reduction of GHG emissions and/or increase in GHG removals.
- Enhance an organization's image and demonstrate its leadership in a sector - An organization's commitment to the carbon management scheme can lead to business advantage by demonstrating its proactive leadership. Customers are beginning to choose environmentally sensitive organizations as their suppliers.
- Reduction in costs - The verification of the product carbon footprint will help an organization to identify areas in which it can reduce CO₂ emissions, which can indirectly lead to cost savings.

- Respond to public demand - The certification will help organizations to respond to their customers' demand for environmental information and makes it easier for them to communicate the environmental aspects of their products.

CERTIFICATION PROCESS

1. Submission of questionnaire
2. Issuance of quotation
3. Application
4. Submission of carbon footprint report and spreadsheet
5. Document review
6. On-site audit
7. Issuance of audit findings
8. Resolutions of audit findings
9. Final verification certification report
10. Approval by certification panel
11. Issuance of certificate which is valid for two years.

About us

SIRIM QAS International is the leading certification, inspection and testing body in Malaysia. Our services are delivered in compliance with International Standards and other scheme-specific requirements. Through compliance with International Standards and with accreditations from the Department of Standards Malaysia (Standards Malaysia), the United Kingdom Accreditation Service (UKAS) and other international recognition bodies for most of our services, we ensure wide acceptance of our certificates around the world.



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MS ISO/IEC 17021 : 2011 QS 02121999 CB 01
MS ISO/IEC 17021 : 2011 EMS 17122002 CB 02
ISO/IEC 17065 : 2012 PC 09102004 CB 01
MS ISO/IEC 17021 : 2011 OHS 06122005 CB 01
MS ISO/IEC 17021:2011 HACCP 09052008 CB 03
ISO/TS 22003:2007 FSMS 23122008 CB 01
MS ISO/IEC 17021 : 2011 FMC 10122009 CB 02
MS ISO/IEC 27006 : 2011 ISMS 17022011 CB 01
MS ISO/IEC 17021 : 2011 EnMS 03012014 CB 01
MS ISO/IEC 17021 : 2011 FSQC 03032015 CB 01
MS ISO/IEC 17021:2011 MIDMS 30092015 CB 04
MS ISO/IEC 17021 : 2011 GMP 09102015 CB 04

MS ISO/IEC 17025
CALIBRATION/TESTING
SAMM NO. 065 SAMM NO. 086
SAMM NO. 087 SAMM NO. 219
SAMM NO. 231 SAMM NO. 240
SAMM NO. 299 SAMM NO. 474
SAMM NO. 377

MS ISO/IEC 17020
MBAS NO. 003