

Verification of the Greenhouse Gas Emissions of Your Transport Operations

Product Sheet ISO 14083

The comprehensive measurement of greenhouse gas emissions from transport processes is rare and often only available at company level. This makes it difficult to achieve a complete emissions balance in this area. However, precise, and transparent measurement is crucial to present the current status of emissions and fulfil reporting obligations. Only in this way can a fair comparison between different providers of transport services, various modes of transport and vehicles with different propulsion systems be ensured.

About ISO 14083

The ISO 14083, introduced by the International Organization for Standardization in March 2023, provides an internationally recognized standard for quantifying and reporting greenhouse gas emissions in passenger and freight transport chains. ISO 14083 replaces the previous standard DIN EN 16258.

ISO 14083 considers GHG emissions along the entire transport chain, including all relevant modes of transport such as air, rail, road, sea, and inland waterway transport, pipelines, and cable cars. Additionally, it takes into account locations such as hubs, stations, distribution centers, airports, and maritime ports. This ensures comprehensive measurement of both operating and supply emissions.

This comprehensive view of emissions from the energy supply of various transport modes and processes allows for the first-time standardized measurement of greenhouse gas emissions in the transport and logistics industry.



The ISO 14083 standard is based on the framework of the Global Logistics Emissions Council (GLEC). The GLEC, founded in 2014, is a co-operation of over 150 companies, associations and experts who have developed a universal methodology for calculating emissions in logistics.

ISO 14083 recognizes that greenhouse gases are released during the production, storage, processing, and distribution of energy used in transport. This provides an assessment of the environmental impact of transport operations and creates a solid basis for emissions reporting and emissions management.

The standardisation of calculation methods increases transparency and supports companies and organisations in the effective fulfilling their environmental responsibilities.

About ISO 14083 and the Relationship Between the ISO 14040 Series of Standards and the ISO 14060 Series of Standards

ISO 14083 is part of a series of international standards for quantifying environmental impacts and greenhouse gas emissions. It specifies general principles for calculating greenhouse gas emissions in passenger and freight transport.

The results of ISO 14083 serve as a foundation for further analyses. It is harmonized with the Corporate Carbon Footprint (ISO 14064), the Product Carbon Footprint (ISO 14067) or the Life Cycle Assessment (ISO 14040/14044). ISO 14083 thus contributes a first part to the aforementioned series of standards.

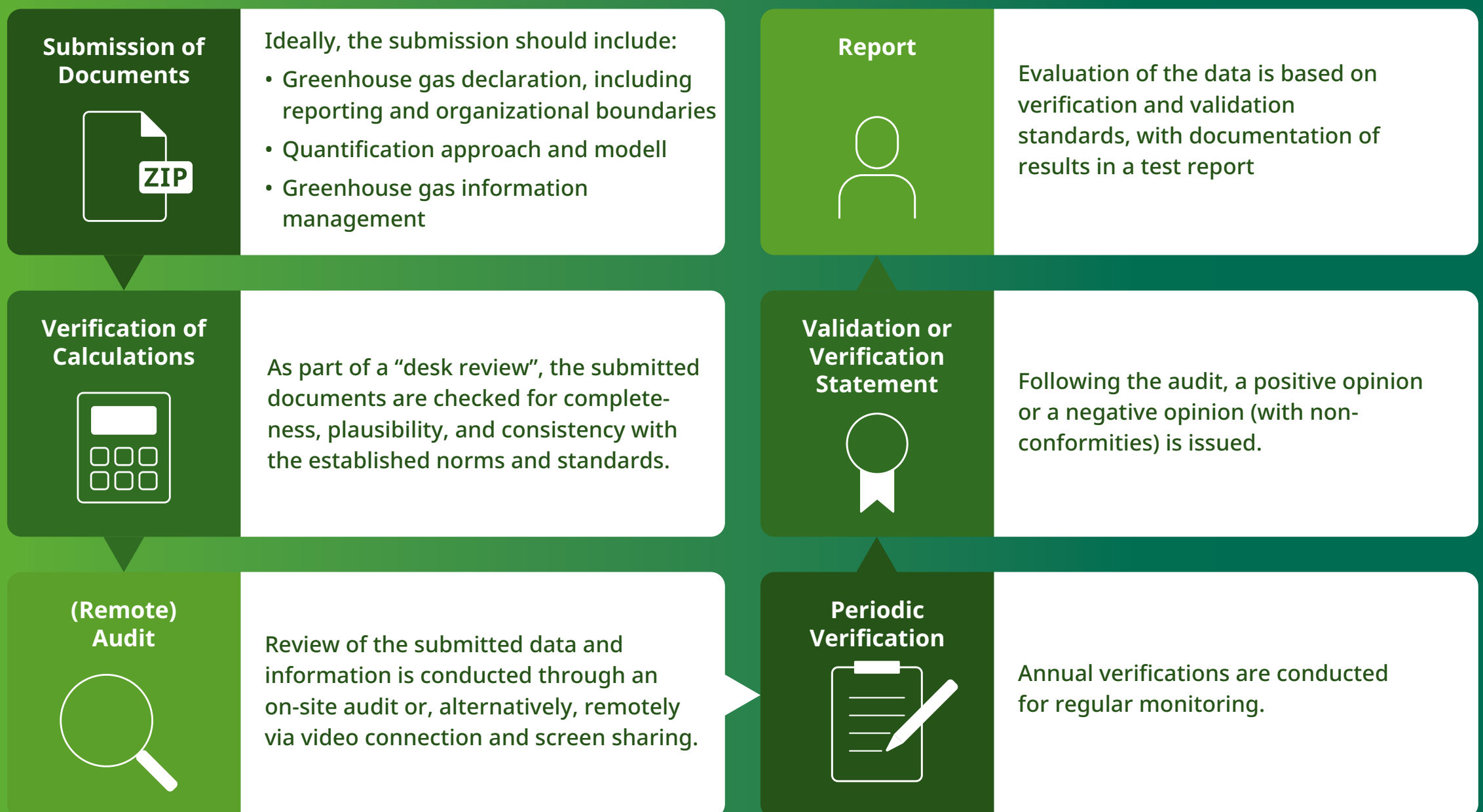
Note: Currently, there is no accreditation option with the German Accreditation Body (DAkkS) for ISO 14083. Our certification services according to DIN EN 16258 remain unchanged.

New EU Regulation on Recording Greenhouse Gases in Transport

As there are currently no standardized EU requirements, the EU Commission presented proposals in July 2023 for the environmentally friendly design of freight transport. Among them is a proposal for a single methodology for calculating greenhouse gas emissions from transport services, referred to as CountEmissions EU. This regulation aims to standardize the calculation and monitoring of GHG emissions in the transport sector. The new ISO 14083 plays a significant role in this.

CountEmissions EU is designed to ensure that greenhouse gas emissions data is collected reliably and accurately to enable fair comparisons between transport services. Companies that publish or are required to report the CO₂ footprint of their transport activities should use ISO 14083. External verification of emissions data and calculation methods is also crucial to strengthen trust in the data and ensure its accuracy.

Process for Validation and Verification



What DEKRA Offers You

Our experts possess comprehensive experience across a variety of sectors and are on hand to provide you with expert advice. We offer practical and straightforward assistance with all matters relating to validation and verification and will guide you effectively through the process so your organization can fully benefit. With a presence in numerous locations, we can be reached via direct digital communication channels, helping you save time and money.

Would you like to find out more about how you can validate or verify your greenhouse gas declaration? Then please get in touch with us!

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