



SLOVENSKI STANDARD SIST EN ISO 14083:2023

01-junij-2023

Toplogredni plini - Količinsko določanje in poročanje o emisijah toplogrednih plinov, ki nastanejo pri dejavnostih prometne verige (ISO 14083:2023)

Greenhouse gases - Quantification and reporting of greenhouse gas emissions arising from transport chain operations (ISO 14083:2023)

Treibhausgase - Quantifizierung und Berichterstattung über Treibhausgasemissionen von Transportvorgängen (ISO 14083:2023)

Gaz à effet de serre - Quantification et déclaration des émissions de gaz à effet de serre résultant des opérations des chaînes de transport (ISO 14083:2023)

Ta slovenski standard je istoveten z: **EN ISO 14083:2023**

ICS:

13.020.40	Onesnaževanje, nadzor nad onesnaževanjem in ohranjanje	Pollution, pollution control and conservation
13.040.50	Emisije izpušnih plinov v prometu	Transport exhaust emissions

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ICS 13.020.40

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English Version

Greenhouse gases - Quantification and reporting of greenhouse gas emissions arising from transport chain operations (ISO 14083:2023)

Gaz à effet de serre - Quantification et déclaration des émissions de gaz à effet de serre résultant des opérations des chaînes de transport (ISO 14083:2023)

Treibhausgase - Quantifizierung und Berichterstattung über Treibhausgasemissionen von Transportvorgängen (ISO 14083:2023)

This European Standard was approved by CEN on 10 March 2023.

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European foreword

This document (EN ISO 14083:2023) has been prepared by Technical Committee ISO/TC 207 "Environmental management" in collaboration with Technical Committee CEN/TC 320 "Transport - Logistics and services" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2023, and conflicting national standards shall be withdrawn at the latest by October 2023.

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Endorsement notice

The text of ISO 14083:2023 has been approved by CEN as EN ISO 14083:2023 without any modification.

Annex S (informative)

Table 1 lists the main technical differences between EN16258 and ISO 14083:2022. The terms used in this table are the ones of ISO 14083:2023.

A comparison of the terms used in EN 16258:2012 and ISO 14083:2023 is provided in Table 2.

Beyond these main technical differences, further minor differences exist, related to terms, structure of the documents, and methodological presentation.

Table 1 – Main technical differences

	EN 16258	ISO 14083
Title	Methodology for calculation and declaration of <u>energy consumption</u> and GHG emissions of transport <u>services</u> (freight and passengers)	Greenhouse gases — Quantification and reporting of greenhouse gas emissions arising from transport chain <u>operations</u>
Scope	Quantification and reporting of <u>energy consumption</u> and GHG emissions related to a transport <u>service</u>	Quantification and reporting of GHG emissions arising from the <u>operations</u> of transport chains of passengers and freight
Operations	Transport operations	Transport operations: Cable cars added Pipelines added Hub operations included to support full transport chain GHG calculations
Passengers, Freight	Both – focus is primarily on individual vehicle operation	Both – focus is on how the transport and hub operations combine to move a consignment or passenger from origin to ultimate destination.
Modes of transport	All modes (not listed)	Air, Sea, Inland waterway, Road, Rail, Pipelines, Ropeway
GHG sources (processes) included	Energy carriers combustion Energy carriers leakage Energy carriers production and supply	Energy carriers combustion Energy carriers leakage Energy carriers production and supply Refrigerant leakage <i>Use of ICT equipment and data servers (related to transport and/or hub operations) (optional)</i> <i>Packaging (optional)</i>

		<i>Black carbon emissions from transport operations (optional)</i>
Cut-off criteria	No	Yes
Distances for transport activity	<u>Actual distances</u> should be used, except for collection and delivery rounds, where SFD or GCD should be used.	<u>SFD or GCD</u> should be used to calculate transport activity (activity distance). A <u>DAF</u> (Distance Adjustment Factor) shall be used to convert actual distance into activity distance if activity distance is not available.
GHG emission factor values	Detailed table of values for transport fuels (<u>recommended if no value specified from energy supplies</u>)	Detailed tables of values for transport fuels and <u>electricity</u> for Europe and for North America (<u>recommended if no value specified from energy supplier</u>) Acknowledges emission factors may be specified in national or international legislation.
GHG emission intensity default values	List of sources in an informative annex	List of sources in an informative annex
Data categories	By order of preference: 1. Primary data for the TO 2. Primary data for the TOC 3. Primary data for the whole fleet 4. Default values	By order of preference: 1. Primary data 2. Secondary data: Modelled data 3. Secondary data: Default values
Scope of reporting	Transport services	Reporting may be: 1. at organizational level 2. at transport chain or transport chain element level
Report for a TCE or a TC	1. Total GHG emissions = vehicle use GHG emissions (energy carrier combustion) + vehicle energy provision GHG emissions 2. Vehicle use GHG emissions (energy carrier combustion) 3. <u>Total energy consumption</u> = energy consumption for vehicle use (energy carrier combustion) + energy consumption for vehicle energy provision 4. <u>Energy consumption for vehicle use</u> (energy carrier combustion)	1. Total GHG emissions = vehicle/ <u>hub</u> use GHG emissions (energy carrier combustion + <u>refrigerant leakages</u>) + vehicle/hub energy provision GHG emissions 2. Total GHG emission intensity (total GHG emissions reported to transport activity)
Class of passenger transport	No	Optional reporting to distinguish differing emission intensity of

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		passenger transport classes
Allocation where passengers and freight are transported using the same vehicle	Detailed changes in the allocation mechanisms in these circumstances to align better between different modes	

Table 2 – Main terms changes

EN 16258	ISO 14083
tank-to-wheels (TTW)	vehicle use (includes leakages of refrigerant)
well-to-tank (WTT)	vehicle energy provision
well-to-wheels (WTW)	total (vehicle use + vehicle energy provision)
vehicle operation system (VOS)	transport operation category (TOC)
leg (of a transport service)	transport chain element (TCE)
specific measured values	primary data (for the transport operation)
transport operator specific values	primary data (for the TOC)
transport operator fleet values	primary data (for the whole fleet)

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INTERNATIONAL
STANDARD

ISO
14083

First edition
2023-03

**Greenhouse gases — Quantification
and reporting of greenhouse gas
emissions arising from transport
chain operations**

*Gaz à effet de serre — Quantification et déclaration des émissions de
gaz à effet de serre résultant des opérations des chaînes de transport*

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Foreword

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This document was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 7, *Greenhouse gas and climate change management and related activities*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 320, *Transport — Logistics and services*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition cancels and replaces IWA 16:2015, which has been technically revised throughout to expand the framework to a methodology.

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