
Toplogredni plini - 1. del: Specifikacija z navodilom za količinsko določanje in poročanje o emisijah in odstranjevanju toplogrednih plinov na ravni organizacije (ISO 14064-1:2006)

Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006)

Treibhausgase - Teil 1: Spezifikation mit Anleitung zur quantitativen Bestimmung und Berichterstattung von Treibhausgasemissionen und Entzug von Treibhausgasen auf Organisationsebene (ISO 14064-1:2006)

Gaz à effet de serre - Partie 1: Spécifications et lignes directrices, au niveau des organismes, pour la quantification et la déclaration des émissions et des suppressions des gaz à effet de serre (ISO 14064-1:2006)

Ta slovenski standard je istoveten z: EN ISO 14064-1:2012

ICS:

13.020.40	Onesnaževanje, nadzor nad onesnaževanjem in ohranjanje	Pollution, pollution control and conservation
-----------	--	---

SIST EN ISO 14064-1:2012

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 14064-1:2012

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14064-1

February 2012

ICS 13.020.40

English Version

Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006)

Gaz à effet de serre - Partie 1: Spécifications et lignes directrices, au niveau des organismes, pour la quantification et la déclaration des émissions et des suppressions des gaz à effet de serre (ISO 14064-1:2006)

Treibhausgase - Teil 1: Spezifikation mit Anleitung zur quantitativen Bestimmung und Berichterstattung von Treibhausgasemissionen und Entzug von Treibhausgasen auf Organisationsebene (ISO 14064-1:2006)

This European Standard was approved by CEN on 5 February 2012.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
---------------	---

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 14064-1:2012](https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

Foreword

The text of ISO 14064-1:2006 has been prepared by Technical Committee ISO/TC 207 “Environmental management” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 14064-1:2012 by CCMC.

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 August 2012, and conflicting national standards shall be withdrawn at the latest by August 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Endorsement notice

The text of ISO 14046-1:2006 has been approved by CEN as a EN ISO 14046-1:2012 without any modification.

[SIST EN ISO 14064-1:2012](https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 14064-1:2012

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

INTERNATIONAL STANDARD

ISO
14064-1

First edition
2006-03-01

Greenhouse gases —

Part 1:

**Specification with guidance at the
organization level for quantification and
reporting of greenhouse gas emissions
and removals**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Gaz à effet de serre —

*Partie 1: Spécifications et lignes directrices, au niveau des organismes,
pour la quantification et la déclaration des émissions et des suppression
des gaz à effet de serre*

<https://standards.iteh.ai/catalog/standards/sist/en-iso-14064-1-2012/3608512e77c/sist-en-iso-14064-1-2012>



Reference number
ISO 14064-1:2006(E)

© ISO 2006

ISO 14064-1:2006(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 14064-1:2012](https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012)

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

© ISO 2006

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

1	Scope	1
2	Terms and definitions	1
3	Principles	6
3.1	General	6
3.2	Relevance	6
3.3	Completeness	6
3.4	Consistency	6
3.5	Accuracy	6
3.6	Transparency	6
4	GHG inventory design and development	6
4.1	Organizational boundaries	6
4.2	Operational boundaries	7
4.3	Quantification of GHG emissions and removals	8
5	GHG inventory components	10
5.1	GHG emissions and removals	10
5.2	Organizational activities to reduce GHG emissions or increase GHG removals	10
5.3	Base-year GHG inventory	11
5.4	Assessing and reducing uncertainty	12
6	GHG inventory quality management	12
6.1	GHG information management	12
6.2	Document retention and record keeping	12
7	Reporting of GHG	13
7.1	General	13
7.2	Planning the GHG report	13
7.3	GHG report content	13
8	Organization's role in verification activities	14
8.1	General	14
8.2	Preparing for verification	14
8.3	Verification management	15
Annex A	(informative) Consolidating facility-level data to the organization level	17
Annex B	(informative) Examples of other indirect greenhouse gas emissions	18
Annex C	(informative) Greenhouse gas global warming potentials	19
Bibliography	20

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14064-1 was prepared by Technical Committee ISO/TC 207, *Environmental management*.

ISO 14064 consists of the following parts, under the general title *Greenhouse gases*:

- *Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals*
- *Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements*
- *Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions*

Introduction

0.1 Climate change has been identified as one of the greatest challenges facing nations, governments, business and citizens over future decades. Climate change has implications for both human and natural systems and could lead to significant changes in resource use, production and economic activity. In response, international, regional, national and local initiatives are being developed and implemented to limit greenhouse gas (GHG) concentrations in the Earth's atmosphere. Such GHG initiatives rely on the quantification, monitoring, reporting and verification of GHG emissions and/or removals.

This part of ISO 14064 details principles and requirements for designing, developing, managing and reporting organization- or company-level GHG inventories. It includes requirements for determining GHG emission boundaries, quantifying an organization's GHG emissions and removals, and identifying specific company actions or activities aimed at improving GHG management. It also includes requirements and guidance on inventory quality management, reporting, internal auditing and the organization's responsibilities for verification activities.

ISO 14064-2 focuses on GHG projects or project-based activities specifically designed to reduce GHG emissions or increase GHG removals. It includes principles and requirements for determining project baseline scenarios and for monitoring, quantifying and reporting project performance relative to the baseline scenario and provides the basis for GHG projects to be validated and verified.

ISO 14064-3 details principles and requirements for verifying GHG inventories and validating or verifying GHG projects. It describes the process for GHG-related validation or verification and specifies components such as validation or verification planning, assessment procedures and the evaluation of organization or project GHG assertions. ISO 14064-3 can be used by organizations or independent parties to validate or verify GHG assertions.

<https://standards.iteh.ai/catalog/standards/sist/86b4a92f-1e7a-497d-871a-f3608512e77c/sist-en-iso-14064-1-2012>

Figure 1 displays the relationship between the three parts of ISO 14064.

0.2 ISO 14064 is expected to benefit organizations, governments, project proponents and stakeholders worldwide by providing clarity and consistency for quantifying, monitoring, reporting and validating or verifying GHG inventories or projects. Specifically, use of ISO 14064 could

- enhance the environmental integrity of GHG quantification,
- enhance the credibility, consistency and transparency of GHG quantification, monitoring and reporting, including GHG project emission reductions and removal enhancements,
- facilitate the development and implementation of an organization's GHG management strategies and plans,
- facilitate the development and implementation of GHG projects,
- facilitate the ability to track performance and progress in the reduction of GHG emissions and/or increase in GHG removals, and
- facilitate the crediting and trade of GHG emission reductions or removal enhancements.

Users of ISO 14064 could find benefit from some of the following applications:

- a) corporate risk management: for example, the identification and management of risks and opportunities;
- b) voluntary initiatives: for example, participation in voluntary GHG registry or reporting initiatives;
- c) GHG markets: for example, the buying and selling of GHG allowances or credits;
- d) regulatory/government reporting: for example, credit for early action, negotiated agreements or national reporting programmes.

ISO 14064-1:2006(E)

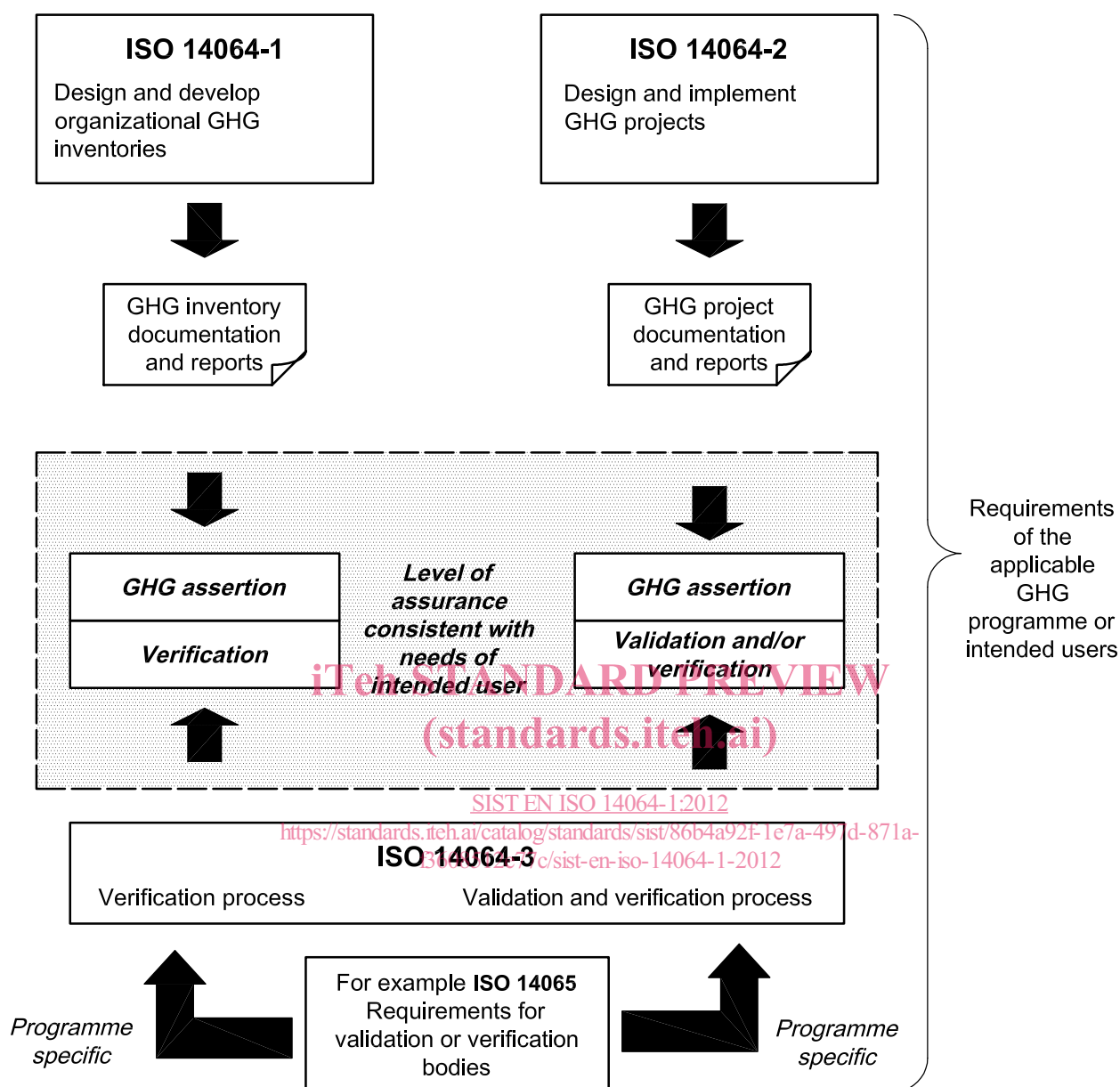


Figure 1 — Relationship between the parts of ISO 14064

0.3 Consistent with the objective of building on existing International Standards and protocols on corporate GHG inventories, this part of ISO 14064 incorporates many key concepts and requirements stated by World Business Council for Sustainable Development/World Resources Institute in Reference [4]. Users of this part of ISO 14064 are encouraged to refer to Reference [4] for additional guidance on applying relevant concepts and requirements.