Irish Standard
I.S. EN ISO 14006:2020

Environmental management systems - Guidelines for incorporating ecodesign (ISO 14006:2020)

I.S. EN ISO 14006:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN ISO 14006:2020 is the adopted Irish version of the European Document EN ISO 14006:2020, Environmental management systems - Guidelines for incorporating ecodesign (ISO 14006:2020)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14006

February 2020

ICS 03.100.70; 13.020.10

Supersedes EN ISO 14006:2011

English Version

Environmental management systems - Guidelines for incorporating ecodesign (ISO 14006:2020)

Systèmes de management environnemental - Lignes directrices pour intégrer l'éco-conception (ISO 14006:2020)

Umweltmanagementsysteme - Leitlinien zur Berücksichtigung umweltverträglicher Produktgestaltung (ISO 14006:2020)

This European Standard was approved by CEN on 21 January 2020.

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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.

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European foreword

This document (EN ISO 14006:2020) has been prepared by Technical Committee ISO/TC 207 "Environmental management" in collaboration with Technical Committee CEN/SS S26 “Environmental management” the secretariat of which is held 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of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

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

This document supersedes EN ISO 14006:2011.

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Endorsement notice

The text of ISO 14006:2020 has been approved by CEN as EN ISO 14006:2020 without any modification.

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I.S. EN ISO 14006:2020

INTERNATIONAL STANDARD

ISO 14006

Second edition
2020-01

Environmental management systems — Guidelines for incorporating ecodesign

Systèmes de management environnemental — Lignes directrices pour intégrer l'éco-conception

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 1, *Environmental management systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS S26, *Environmental management*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 14006:2011), which has been technically revised. The main changes compared with the previous edition are as follows:

— Clause 6, which covered ecodesign at an operational level, has been deleted due to the development of IEC 62430:2019 (however, the basic information has been retained in a new Annex C);

— the structure has been adapted to ISO 14001:2015;

— the boxes related to ISO 14001 and ISO 9001 have been removed;

— text has been added to address management issues related to the outsourcing of ecodesign;

— a new Clause 11 covering management issues associated with setting ecodesign has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

0.1 Audience

This document is primarily aimed at organizations that have an environmental management system (EMS), such as that described in ISO 14001, whether or not combined with a quality management system (QMS). This document can also be useful for organizations that only have a QM, as well as for organizations without a formalized EMS or QMS, but that are interested in reducing adverse product-related environmental impacts.

NOTE In this document, the term "product" is understood to cover both goods and services (see 3.2.3).

0.2 Concepts and definitions

Organizations are recognizing both the need to reduce adverse impacts on the environment from their product(s) and the need to include environmental considerations in design and development, applying life cycle thinking. This process is generally called "ecodesign". Other terms that are used include "design for environment (DfE)", "environmentally conscious design (ECD)", "environmentally sustainable design" and "green design". The term "ecodesign" is used throughout this document.

NOTE In this document, design and development is regarded as a process, and is referred to as simply "design and development".

Ecodesign is defined in this document as a systematic approach, which considers environmental aspects in design and development with the aim to reduce adverse environmental impacts throughout the life cycle of a product. In this document it is understood that the EMS should take account of design and development, and, within that, ecodesign, with a view to enhancing product-related environmental performance.

Ecodesign should be applied to new and existing products, including the modification of processes as needed in delivering products.

0.3 Life cycle thinking and trade-offs

0.3.1 Life cycle thinking

Life cycle thinking is essential for ecodesign.

Life cycle thinking means the consideration of environmental aspects relevant to a product during its entire life cycle. This implies considering consecutive and interlinked stages, such as:

— material acquisition;

— design and development;

— manufacturing;

— delivery and installation;

— use (including reuse, maintenance, repair, remanufacturing, refurbishing and upgrading);

— end-of-life treatment;

— disposal.

NOTE In this document, the use of the term "life cycle" is different from other terms used in relation to products, e.g. the term "product life cycle (PLC)" describes the market stages of a product: introduction, growth, maturity and decline, and the term "product life cycle management (PLM)" describes a system used to manage the data and design process associated with the life of a product, from its design and development through to its manufacture and finally to its disposal.