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General method for the assessment of the ability to remanufacture energy-related products

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

General method for the assessment of the ability to remanufacture energy-related products

Méthode générale pour l'évaluation de la capacité d'un produit lié à l'énergie à être refabriqué

Allgemeines Verfahren zur Bewertung der Wiederherstellungsfähigkeit energieverbrauchsrelevanter Produkte

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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European foreword

This document [EN 45553:2020] has been prepared by CEN/CLC/JTC 10 "***Energy-related products - Material Efficiency Aspects for Ecodesign***".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2021-05-25
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2023-05-25

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

This document has been prepared under a standardization request given to CEN and CENELEC by the European Commission and the European Free Trade Association.

The dual logo CEN-CENELEC standardization deliverables, in the numerical range of 45550 – 45559, have been developed under standardization request M/543 of the European Commission and are intended to potentially apply to any product within the scope of the Directive 2009/125/EC concerning energy-related products (ErP).

Topics covered in the above standardization request are linked to the following material efficiency aspects:

a) Extending product lifetime;

b) Ability to reuse components or recycle materials from products at end-of-life;

c) Use of reused components and/or recycled materials in products.

These standards are general in nature and describe or define fundamental principles, concepts, terminology or technical characteristics. They can be cited together with other product publications, e.g. developed by product technical committees.

This document is intended to be used by technical committees when producing horizontal, generic, and product-specific, or product-group, publications.

Introduction

This document provides a general method for assessing the ability of an energy-related product to be remanufactured, to be used by technical committees when producing horizontal, generic, and product-specific, or product-group, publications. It identifies seven general process steps which are crucial to the remanufacturing process. Each of the seven steps (see 5.1) is linked to several product attributes of the energy-related product (see table 1). These product attributes are evaluated by their criteria described in 5.2.1 to 5.2.5.

As the terms remanufacturing and refurbishment are sometimes used interchangeably in different industry sectors it is necessary to clarify what is meant by remanufacturing in this document. Remanufacturing is identified as an industrial process where at least one change, which influences the safety, original performance, purpose or type of the product, is applied to the energy-related product.

NOTE This document does not cover general methods for assessing the ability of an energy-related product to be refurbished.

1 Scope

This document contains a general method to assess the ability of energy-related products to be remanufactured. It is intended to be used by technical committees when producing horizontal, generic, and product, or product-group, standards.

NOTE 1 Throughout this document, reference to 'user of this document' refers to those members of technical committees that are producing horizontal, generic, and product, or product-group, standards as well as any person using the standard directly.

Assessing the ability of a part that is not considered to be an energy-related product to be remanufactured is not considered in this document.

NOTE 2 To assess the ability of an energy-related product to be remanufactured (i.e. in 5.2.1 to 5.2.5), the described criteria are applied to the parts of the energy-related product.

A scoring system to quantify the ability of an energy-related product to be remanufactured is not covered in this document. Only the criteria for the ability of an energy-related product to be remanufactured are presented in this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 45559:2019, *Methods for providing information relating to material efficiency aspects of energy-related products*