

ELEKTRI- JA ELEKTROONIKATOODETE
KESKKONNATEADLIK KAVANDAMINE

Environmentally conscious design for electrical and
electronic products

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62430:2009 sisaldab Euroopa standardi EN 62430:2009 ingliskeelset teksti.	This Estonian standard EVS-EN 62430:2009 consists of the English text of the European standard EN 62430:2009.
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**Environmentally conscious design
for electrical and electronic products
(IEC 62430:2009)**

Eco-conception pour les produits
électriques et électroniques
(CEI 62430:2009)

Umweltbewusstes Gestalten von
elektrischen und elektronischen Produkten
(IEC 62430:2009)

This European Standard was approved by CENELEC on 2009-05-01. CENELEC 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.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 111/104/CDV, future edition 1 of IEC 62430, prepared by IEC TC 111, Environmental standardization for electrical and electronic products and systems, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62430 on 2009-05-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2010-02-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2012-05-01

Endorsement notice

The text of the International Standard IEC 62430:2009 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

ISO 9000	NOTE Harmonized as EN ISO 9000:2005 (not modified).
ISO 9001	NOTE Harmonized as EN ISO 9001:2008 (not modified).
ISO 14001	NOTE Harmonized as EN ISO 14001:2004 (not modified).
ISO 14040	NOTE Harmonized as EN ISO 14040:2006 (not modified).

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INTRODUCTION

Every product has an effect on the environment, which may occur at any or all stages of its life cycle – raw-material acquisition, manufacture, distribution, use, maintenance, re-use and end of life. These effects may range from slight to significant; they may be short-term or long-term; and they may occur at the local, national, regional or global level (or a combination thereof).

The widespread use of electrical and electronic products has drawn increased awareness to their environmental impacts. As a result, legislation, as well as market-driven requirements for environmentally conscious design, are emerging.

The goal of environmentally conscious design is the reduction of adverse environmental impacts of a product throughout its entire life cycle. This can involve balancing the environmental aspects of the product with other factors, such as its intended use, performance, cost, marketability and quality, and choosing methods to meet legal and regulatory requirements in the most environmentally friendly way. In striving for this goal, multiple benefits can be achieved for the organization, its customers and other stakeholders. Environmentally conscious design is not a separate design activity; rather, it is an integral part of the existing design process. The "design" in this context includes the activities associated with the processes of product planning, development and decision-making as well as the creation of policies within the organization.

The impetus to create an International Standard was triggered by common circumstances impacting many industries in the global marketplace, since the compositional elements of a product (such as materials, components and services) are provided across national borders. The existence of an International Standard provides for a consistent approach to life cycle management.

This International Standard is intended for use by all those involved in the design and development of electrical and electronic products. This includes all parties in the supply chain regardless of organization type, size, location and complexity. It is applicable for all types of products, new as well as modified. Sector-specific documents may be developed to address needs not covered in this standard. The use of this standard as a base reference is encouraged so as to ensure consistency throughout the electrotechnical sector.

This International Standard provides a set of requirements for the process of environmentally conscious design reflecting the contents of IEC Guide 114 and ISO/TR 14062.

ENVIRONMENTALLY CONSCIOUS DESIGN FOR ELECTRICAL AND ELECTRONIC PRODUCTS

1 Scope

This International Standard specifies requirements and procedures to integrate environmental aspects into design and development processes of electrical and electronic products, including combination of products, and the materials and components of which they are composed (hereafter referred to as products).

NOTE The existence of this standard does not preclude particular sectors from generating their own, more specific, standards or guidelines. Where such documents are produced it is recommended that they use this standard as the reference in order to ensure consistency throughout the electrotechnical sector.

2 Normative references

No normative references are cited. Informative references are noted in the bibliography.

NOTE This clause is included in order to retain typical clause numbering.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

design and development

activities that take an idea or requirement and transform these into a product

NOTE The process of design and development usually follows a series of defined steps starting with an initial idea, transforming that into a formal specification, and resulting in the creation of a working prototype and whatever documentation is required to support production of the goods or provision of the service.

3.2

environment

surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation

NOTE Surroundings in this context extend from within an organization to the global system.

[ISO 14001: 2004, definition 3.5]

3.3

environmental aspect

element of an organization's activities or products that can interact with the environment

NOTE A significant environmental aspect has or can have a significant environmental impact.

[ISO 14001:2004, definition 3.6, modified]

3.4

environmental impact

any change to the environment, whether adverse or beneficial, wholly or partly resulting from an organization's environmental aspects

[ISO 14001:2004, definition 3.7]