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Standards

Irish Standard  
I.S. EN 62430:2009

# Environmentally conscious design for electrical and electronic products (IEC 62430:2009 (EQV))

## I.S. EN 62430:2009

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

**EN 62430**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2009

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ICS 13.020; 43.040.10

English version

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

**Central Secretariat: Avenue Marnix 17, B - 1000 Brussels**

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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with the EN have to be withdrawn (dow) 2012-05-01

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## 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).



IEC 62430

Edition 1.0 2009-02

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Environmentally conscious design for electrical and electronic products**

**Eco-conception pour les produits électriques et électroniques**





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IEC 62430

Edition 1.0 2009-02

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Environmentally conscious design for electrical and electronic products**

**Eco-conception pour les produits électriques et électroniques**

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ELECTROTECHNICAL  
COMMISSION

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ELECTROTECHNIQUE  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ENVIRONMENTALLY CONSCIOUS DESIGN FOR  
ELECTRICAL AND ELECTRONIC PRODUCTS**
**FOREWORD**

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International Standard IEC 62430 has been prepared by IEC technical committee 111: Environmental standardization for electrical and electronic products and systems.

It has the status of a horizontal standard in accordance with IEC Guide 108.

The text of this standard is based on the following documents:

CDV	Report on voting
111/104/CDV	111/124/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## 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]

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