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BSI Standards Publication

Inclusion of energy efficiency aspects in electrotechnical publications

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National foreword

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A list of organizations represented on this committee can be obtained on request to its secretary.

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GUIDE

Inclusion of energy efficiency aspects in electrotechnical publications

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INCLUSION OF ENERGY EFFICIENCY ASPECTS IN ELECTROTECHNICAL PUBLICATIONS

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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This first edition of IEC Guide 118 has been prepared, in accordance with ISO/IEC Directives, Part 1, Annex A, by the IEC Advisory Committee on Energy Efficiency (ACEE). This is a non-mandatory guide in accordance with SMB Decision 136/8.

The text of this IEC Guide is based on the following documents:

Four months' vote	Report on voting
C/1979A/DV	C/2002/RV

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

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

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

Energy efficiency is key to addressing the challenge to support energy policies while preserving the environment.

Many energy efficient technologies and solutions are already available and cost-effective; nevertheless, a variety of barriers inhibits the deployment of these technologies and impedes harvesting their energy efficiency potential.

Standardization can play an important role to help overcome these barriers and to disseminate and promote energy efficient technologies, solutions and services.

This Guide aims to give advice to technical committees on the way energy efficiency should be considered and included in IEC publications.

IEC publications may deal exclusively with energy efficiency or may include clauses specific to energy efficiency; however technical committees are encouraged to:

- consider energy efficiency in their standardization work;
- identify which aspects of energy efficiency are relevant for their standardization;
- use a structured approach when addressing energy efficiency;
- use a systems approach when addressing energy efficiency.

This Guide helps to fulfil IEC Energy Efficiency Policy[1] by indicating how energy efficiency can be included in electrotechnical publications.

In this Guide, the term “technical committees” also includes subcommittees and system committees. The term “publication” includes “International Standard”, “Technical Report”, “Technical Specification” and “Guide”. In addition, the term “product” includes “process”, “service” and combinations thereof, commonly known as “systems”.

Technical committees dealing with aspects relating to energy efficiency for the whole, or for a specific part of their activities, are invited by SMB Decision 136/8 to follow the provisions of this Guide.

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1 White Paper: Coping with the Energy Challenge. The IEC’s role from 2010 to 2030. Smart electrification – The key to energy efficiency.

INCLUSION OF ENERGY EFFICIENCY ASPECTS IN ELECTROTECHNICAL PUBLICATIONS

1 Scope

This Guide is intended for technical committees and gives guidance on how to consider energy efficiency aspects when preparing IEC publications.

Its purpose is:

- to describe the contributions of IEC publications to energy efficiency;
- to describe the concept of an energy efficiency aspect;
- to provide categories of energy efficiency aspects and a list of energy efficiency aspects to be considered by technical committees.

This Guide:

- helps in harmonizing the approach to energy efficiency;
- raises awareness that provisions in IEC publications can affect the energy performance of the product itself (taken individually) and of the entire application (embedding the product), in both negative and positive ways;
- helps technical committees to identify energy efficiency aspects that contribute to energy efficiency improvement of the product itself and of the entire application;
- promotes the use of a systematic approach when addressing energy efficiency in the context of standardization;
- promotes the use of a systems approach when addressing energy efficiency aspects in the context of standardization.

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.

ISO/IEC 13273-1:2015, *Energy efficiency and renewable energy sources – Common international terminology – Part 1: Energy efficiency*

IEC Guide 119, *Preparation of energy efficiency publications and use of basic energy efficiency publications and group energy efficiency publications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 13273-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses: