PD IEC TR 63196:2020

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Switchgear and controlgear and their assemblies for low voltage — Energy efficiency

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National foreword

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TECHNICAL REPORT

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SWITCHGEAR AND CONTROLGEAR AND THEIR ASSEMBLIES FOR LOW VOLTAGE – ENERGY EFFICIENCY

FOREWORD

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IEC TR 63196, which is a technical report, has been prepared by committee 121: Switchgear and controlgear and their assemblies for low voltage.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
121/44/DTR	121/47A/RVDTR

Full information on the voting for the approval of this technical report 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.

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INTRODUCTION

Energy efficiency (EE) is a horizontal topic spanning the IEC domain and may be dealt with in standards in various forms across a wide range of technologies and for different products, processes and services.

The horizontal nature of the topic and increasing integration of products, processes and services entering the market implies that standard writers identify which aspects of energy efficiency are relevant for standardization, and:

– use a systematic approach (see IEC Guide 119);

– adopt a systems approach.

The objective of an energy efficiency management system is to improve continuously the energy performance of an energy using system such as a production facility or an office building. As shown below in Figure 1 (see dark blue boxes), it is based on the particular organization's energy policy, supporting energy objectives and it is implemented by processes (planning, operations, assessment, etc.) to achieve those objectives.

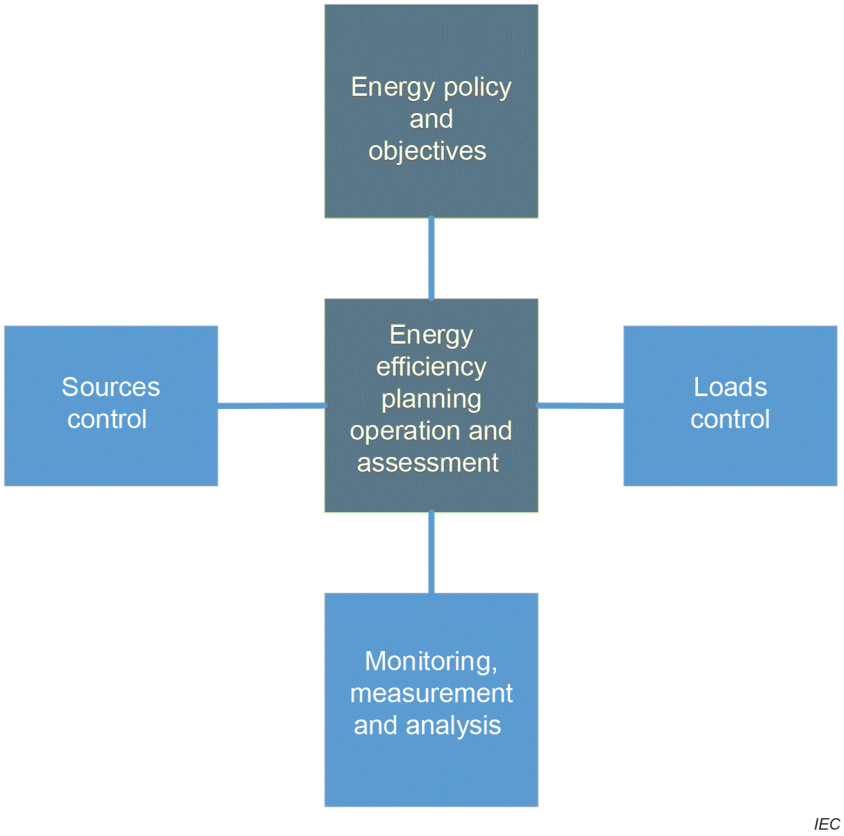

Figure 1 – Overview of energy efficiency management

Many types of equipment, including switchgear and controlgear and their assemblies, depicted in the light blue boxes in Figure 1, make an important contribution to the overall energy efficiency of a system.

This document aims to give guidance to product standards writers and other interested parties on the way energy efficiency should be considered for switchgear and controlgear and their assemblies.

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By following this document, experts in standards will be encouraged to:

– consider energy efficiency aspects in their product standards and any associated publications;
– use a structured method;
– use a systems approach;
– support the dissemination of energy efficient technologies;
– accelerate the uptake of the next generation of energy efficient technologies;
– create the prerequisites for energy efficiency through enabling technologies.

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