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SINGAPORE STANDARD

Energy management systems – Measurement and verification of energy performance of organisations – General principles and guidance

Confirmed 2023

Singapore Standards Council

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National Foreword

This Singapore Standard was prepared by the Working Group on Energy Management Systems set up by the Technical Committee on Energy under the purview of the Environment and Resources Standards Committee.

This standard is an identical adoption of ISO 50015:2014, “Energy management systems – Measurement and verification of energy performance of organizations – General principles and guidance”, published by the International Organization for Standardization. ISO 50015:2014 was confirmed by the International Organization for Standardization in 2020.

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INTERNATIONAL STANDARD

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Systèmes de management de l'énergie — Mesure et Vérification de la performance énergétique des organismes — Principes généraux et recommandations

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is Technical Committee ISO/TC 242, *Energy management*.

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Introduction

The purpose of this International Standard is to establish a common set of principles and guidelines to be used for measurement and verification (M&V) of energy performance and energy performance improvement of the organization. M&V adds value by increasing the credibility of energy performance and energy performance improvement results. Credible results can contribute to the pursuit of energy performance improvement.

This International Standard can be used irrespective of the type of energy used.

This International Standard can be used in several organizational contexts:

— by organizations with or without existing energy management systems, such as ISO 50001;

— for the M&V of energy performance or energy performance improvement;

— for all or part of an organization.

This International Standard can be used by organizations of any size, M&V practitioners, or any interested parties, in order to apply M&V to the reporting of energy performance results. The principles and guidance in this International Standard can be used independently or in conjunction with other standards and protocols. The principles and guidance in this International Standard are not required by ISO 50001, but can be applied by organizations using ISO 50001.

This International Standard does not specify calculation methods; rather, it establishes a common understanding of M&V and how M&V could be applied to different calculation methods. These principles and guidelines are applicable irrespective of the M&V method used.

Annex A provides an overview of the M&V flow that is used throughout this International Standard.

This International Standard is one of a family of International Standards developed by ISO/TC 242 and ISO/TC 257, on energy management and on the evaluation of energy savings related to regions and projects. Both ISO/TC 242 and ISO/TC 257 address organizational energy management and energy savings.

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INTERNATIONAL STANDARD **ISO 50015:2014(E)**

Energy management systems — Measurement and verification of energy performance of organizations — General principles and guidance

1 Scope

This International Standard establishes general principles and guidelines for the process of measurement and verification (M&V) of energy performance of an organization or its components. This International Standard can be used independently, or in conjunction with other standards or protocols, and can be applied to all types of energy.

2 Normative references

There are no normative references.

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