



SLOVENSKI STANDARD SIST EN ISO 14052:2019

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Ravnanje z okoljem - Stroškovno računovodstvo materialnega toka - Smernice za praktično uvajanje v dobavno verigo (ISO 14052:2017)

Environmental management - Material flow cost accounting - Guidance for practical implementation in a supply chain (ISO 14052:2017)

Umweltmanagement - Materialflusskostenrechnung - Leitfaden zur praktischen Anwendung innerhalb der Lieferkette (ISO 14052:2017)

Management environnemental - Comptabilité des flux matières - Lignes directrices pour la mise en application pratique dans une chaîne d'approvisionnement (ISO 14052:2017)

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Environmental management - Material flow cost accounting - Guidance for practical implementation in a supply chain (ISO 14052:2017)

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European foreword

The text of ISO 14052:2017 has been prepared by Technical Committee ISO/TC 207 "Environmental management" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 14052:2018 by Technical Committee CEN/SS S26 "Environmental management" the secretariat of which is held by CCMC.

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**Environmental management —
Material flow cost accounting —
Guidance for practical implementation
in a supply chain**

*Management environnemental — Comptabilité des flux matières
— Lignes directrices pour la mise en application pratique dans une
chaîne d'approvisionnement*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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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This document was prepared by Technical Committee ISO/TC 207, *Environmental management*.

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Introduction

The aim of this document is to provide guidance for the practical application of material flow cost accounting (MFCA) in supply chains. MFCA is an environmental management accounting tool that assists organizations in creating a better understanding of their material and energy uses, the losses and the associated costs caused by material inefficiencies. The application of MFCA within an organization is explained in ISO 14051. Extending the scope of MFCA to multiple organizations in a supply chain will enable them to develop an integrated approach to more efficient use of materials and energy. This can result in various economic and environmental benefits for different organizations in the supply chain. These include reducing total material losses (main materials, energy and auxiliary materials) and thereby providing common opportunities to reduce costs, enhance environmental performance (e.g. GHG reduction and higher material/energy efficiency) and increase trust, collaboration, and fruitful business relationships. A trusted relationship between the different organizations in the supply chain and the increased common understanding of their own situation promotes collaboration. This can also be an incentive for long-term contracts through mutual MFCA-cooperation.

In order to achieve the benefits of an MFCA project extended to the supply chain for all organizations, it is a precondition that the collaborating organizations are committed to share information on processes and related material and energy flows to create a comprehensive understanding of the production system for the effective implementation of MFCA.

When applied in the supply chain, MFCA can improve existing supply chain management information sharing, communication mechanisms and management practices between suppliers and the purchasing department of organizations, which is the key connector between suppliers and customers. MFCA can complement existing environmental management and management accounting practices.

In addition, a thorough assessment of the material flows and energy use along all stages of the supply chain can also serve as a basis for comprehensive sustainability management. For example, MFCA information can be used for monitoring environmental indicators, or help in identifying and mitigating risks in the supply chain.

This document provides guidance on the following topics:

- the significance of integrating MFCA between organizations;
- a general approach for enhancing material and energy efficiency in the supply chain;
- steps for implementing MFCA in the supply chain.