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Connection between the contributions of civil engineering works to sustainability and achievement of the Sustainable Development Goals

Lien entre les contributions des ouvrages de génie civil au développement durable et la réalisation des Objectifs de développement durable

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, SC 17 *Sustainability in buildings and civil engineering works*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 350, *Sustainability of construction works*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The methodology for sustainability assessment defined in EN 17472 and ISO 21928-2 provides results intended to be communicated to the interested parties in an understandable way.

The Sustainable Development Goals (SDGs) provide a common language to express sustainability, its challenges and results, and for this reason it would be good to express sustainability performance in terms of SDGs. However, they are not articulated in such a way to form a comprehensive, structured and rigorous set to evaluate the sustainability of a civil work. Therefore, to express the evaluations carried out according to EN 17472 and ISO 21928-2 in terms of SDGs can facilitate the understanding of the stakeholders and can demonstrate the progress and contributions made by the civil engineering works to meeting the SDGs.

Links between the indicators in EN 17472 and ISO 21928-2 and SDGs can be established. This can lead to improved performance on the indicator results and a greater likelihood of achieving the SDGs. The aim of this document is to identify linkages between the indicators used to assess the sustainability performance of civil engineering works and the SDGs adopted by the United Nations.

Connection between the contributions of civil engineering works to sustainability and achievement of the Sustainable Development Goals

1 Scope

This document shows the relationship between the indicators in EN 17472 and ISO 21928-2, used to assess the environmental, social, and economic performance of civil engineering works (CEW), and the Sustainable Development Goals (SDGs), which can serve as a tool to communicate the results of the assessment carried out with the methodology established in EN 17472 and ISO 21928-2.

This document does not provide any criteria or rules for performing any kind of assessment.

This document also provides information about how the SDGs are influenced by the performance of several CEW, based on the results of the assessment done according to either EN 17472 or ISO 21928-2, or both, and demonstrate their contributions to achieving the SDGs targets.

The links provided can also be applied to address efforts towards satisfying specific SDGs.

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 21928-2, *Sustainability in buildings and civil engineering works — Sustainability indicators — Part 2: Framework for the development of indicators for civil engineering works*

EN 17472, *Sustainability of construction works — Sustainability assessment of civil engineering works — Calculation methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21928-2 and EN 17472 apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Methodology

Five typologies of CEW are considered in the study:

— industrial process infrastructures;

— linear infrastructures;

— dams and other fluvial works;

— maritime works;