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Standards

Irish Standard Recommendation
S.R. CEN/TR 17798:2022

Optimal design of hydrometric networks

S.R. CEN/TR 17798:2022

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National Foreword

S.R. CEN/TR 17798:2022 is the adopted Irish version of the European Document CEN/TR 17798:2022, Optimal design of hydrometric networks

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TECHNICAL REPORT

CEN/TR 17798

RAPPORT TECHNIQUE

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April 2022

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English Version

Optimal design of hydrometric networks

Conception optimale des réseaux hydrométriques

Hydrometrisches Datenetz und Optimierung

This Technical Report was approved by CEN on 27 March 2022. It has been drawn up by the Technical Committee CEN/TC 318.

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European foreword

This document (CEN/TR 17798:2022) has been prepared by Technical Committee CEN/TC 318 “Hydrometry”, the secretariat of which is held by BSI.

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1 Scope

This document provides guidance to assist with the planning and design of hydrometric networks, to ensure a better understanding of the water cycle and that any data are observed and collated in an effective and appropriate manner. This document is intended for use when:

- a new network is being planned and designed;
- the nature, value and extent of an existing network is being reviewed;
- a redundant network is being decommissioned or modified.

This is to ensure that the impacts of these changes are considered objectively, and all changes are adequately monitored and recorded.

Even though this document covers network design principles in general it focuses mainly on river (streamflow) monitoring networks.

This document covers all aspects that are considered pertinent to the design of hydrometric networks. The guidance is intended to be used to inform the decision-making process employed by the network's owners and operators. The objective nature of the review will ensure that all influential factors, both beneficial and otherwise, are considered. This will ensure that primary and potential alternative uses of the network are considered. It will also ensure compliance with any extant environmental legislation.

The intended audience for this document may include:

- Government, Non-Government Organizations (NGOs), agencies and other organisations which are responsible for designing and developing hydrometric networks that provide data to support a public service.
- Research and academic institutions that aim to develop a better understanding of the natural and human influences on the hydrological cycle.
- Developers of the built environment seeking to comply with environmental legislation that requires them to monitor those parts of the natural hydrological cycle that have been, or will be, impacted by their activities.
- Any individual seeking a better understanding of the water cycle for private and personal reasons.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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

- IEC Electropedia: available at <https://www.electropedia.org/>
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