SLOVENSKI STANDARD
oSIST prEN ISO 24194:2025

01-julij-2025

Sončna energija - Polja sprejemnikov sončne energije - Preverjanje zmogljivosti (ISO/DIS 24194:2025)

Solar energy - Collector fields - Check of performance (ISO/DIS 24194:2025)

Sonnenenergie - Kollektorfelder - Überprüfung der Leistungsfähigkeit (ISO/DIS 24194:2025)

Energie solaire - Champs de capteurs - Vérification de la performance (ISO/DIS 24194:2025)

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ICS:

27.160	Sončna energija	Solar energy engineering

oSIST prEN ISO 24194:2025 **en,fr,de**

DRAFT International Standard

ISO/DIS 24194

Solar energy — Collector fields — Check of performance

Energie solaire — Champs de capteurs — Vérification de la performance

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Foreword

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This document was prepared by Technical Committee ISO/TC 180, *Solar energy*, Subcommittee SC 4, *Systems - Thermal performance, reliability and durability*.

This second edition cancels and replaces the first edition ISO 24194:2022 and the amendment ISO 24194:2022/Amd 1:2024 as it has been revised and extended.

This edition includes the following significant changes compared with the previous edition:

— Introduction: Information and explanations on how large-scale solar installations behave with regard to climate change and other environmental aspects.

— Scope: The scope has been specified to liquid heating collectors

— Chapter 5: General chapter added with validity of all 3 procedures was summarized in one general chapter instead of being repeated for every procedure separately, Methodology and operating conditions are explained, source of input information is described and possible applications are mentioned

— Chapter 6: Wrong formula for beam irradiance has been deleted and only one general formula according to ISO 9806 for liquid heating collectors introduced using beam and diffuse irradiance, which can be simplified in special cases using only hemispherical irradiance. No general distinction between concentrating and non concentrating collectors. Example is now given with calculation and result.

— Chapter 7: Daily yield method has been generalized so that is applicable for all collectors in the scope. Example is now given with calculation and result.

— Chapter 8: New method for annual yield has been added applicable for all collectors in the scope. Example is given with calculation and result.

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