

SHC Publications

New Publications Online!

You won't want to miss the new reports highlighted below. You can read them online or download them for free. Our complete library of publications – online tools, databases, and more – dating back to the start of the SHC Programme can be found on the IEA SHC website under the tab “Publications” or under a specific Task.

TECHNOLOGY POSITION PAPERS

Three new papers! Each Technology Position Paper concisely explains the relevance, current status, potential, and actions needed for the uptake and further development of a specific technology or application.

[Compact Thermal Energy Storage](#)

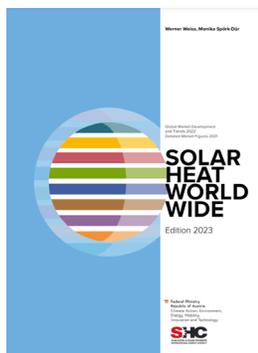
Recognizing the fact that - half of the world's final energy demand is used for heating and cooling and the transition to renewables can only succeed with storage – this paper highlights applications with potential and identifies drivers and actions needed to implement successful compact thermal energy storage.

[Solar Energy for Industrial Water and Wastewater Management](#)

Recognizing the fact that – water resources are finite and sustainably managing them is a critical challenge for industry and the worldwide economy – this paper presents potential applications and actions needed from water treatment demonstration projects to new energy vectors.

[Integrated Daylighting and Electric Lighting in Nonresidential Buildings](#)

Recognizing the fact that – lighting consumes 15% of the global electricity consumption and accounts for 5% of global CO₂ emissions – this paper shows what is needed to provide lighting that is not only energy efficient and sustainable but meets the needs of users.

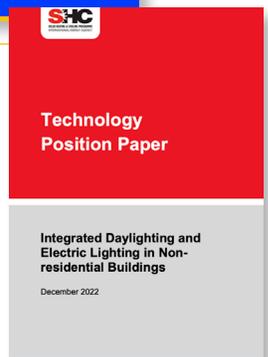
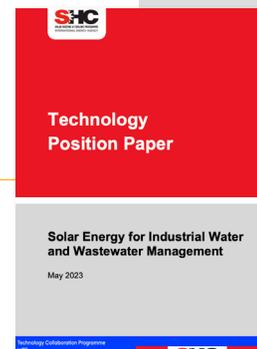
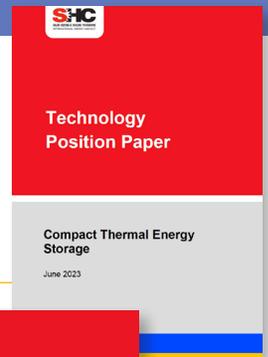


SOLAR HEAT WORLDWIDE 2023

This year's comprehensive report on the solar thermal market and trends collected data from 71 countries. The report is divided into two parts: Chapters 3-5 cover the 2022 global market development and trends for different applications and Chapters 5-8 present detailed market figures for 2021.

SHC ANNUAL REPORT 2022

Reports on our 2022 activities and plans for 2023. Includes a Feature Article on Integrating Daylighting and Electric Lighting into Non-residential Buildings

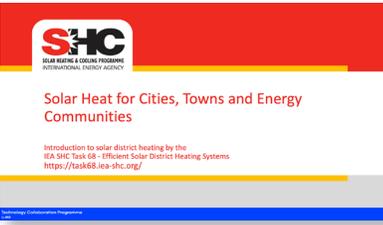
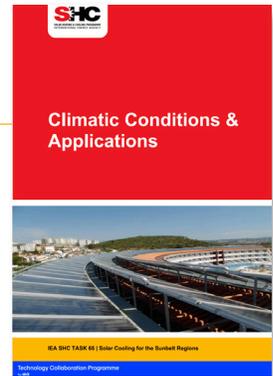


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SOLAR COOLING FOR THE SUNBELT REGIONS

Climatic Conditions & Applications

This report documents how GIS software can combine geographic data in a way that local reference boundary conditions for solar cooling systems in the Sunbelt regions can be determined and used for evaluation. And explains how this method can be used to gather information on possible locations and the potential of specific solar cooling systems.



EFFICIENT SOLAR DISTRICT HEATING SYSTEMS

Solar Heat for Cities, Towns and Energy Communities

This 40-page presentation spotlights 10 solar district heating case studies in Europe. With the help of these flagship projects, the most important questions asked about solar district heating when discussing green heating opportunities are answered.

SOLAR HEAT FOR INDUSTRIAL PROCESSES

Technical Note for Tracked Concentrated Solar Collectors

This document describes in detail the new calculation method for converting m² to KWth for tracked concentrating solar thermal systems for statistical purposes.



TASK HIGHLIGHTS

Every year we publish short summaries on what our Tasks are accomplishing.

