





PRESS RELEASE

The 2024 edition of Solar Heat Worldwide by the IEA SHC Programme underscores the resiliency and changing landscape of solar heat. Notably, this year’s report includes a dedicated section on PV Generated Heat (PGH), highlighting system concepts and installations. To illustrate some of the report’s key data, we have developed a series of infographics. Both the report and infographics are free to download at <https://www.iea-shc.org/solar-heat-worldwide>.

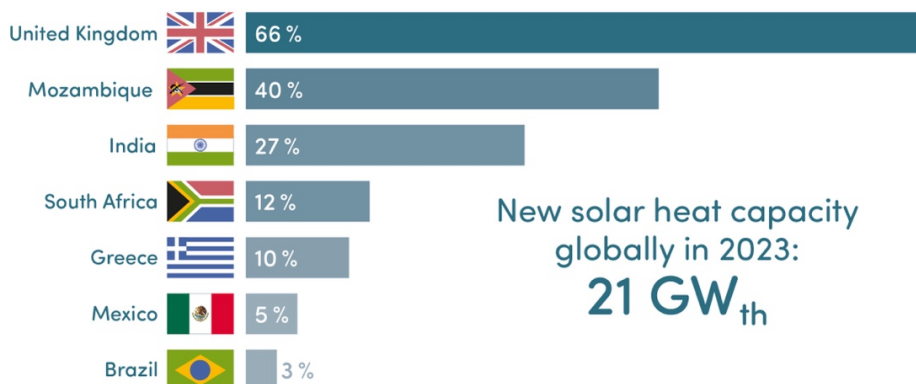
5 top markets (In terms of new installations)

End of 2023		1	2	3	4	5
Solar water and space heating		China	India	Brazil	Turkey	United States
Solar district heating		China	Germany	Austria	Denmark	Italy
Solar industrial heat		Spain	France	China	Netherlands	Belgium
Solar hybrid solutions (PVT)		China	Netherlands	Germany	France	Spain

Photos: Chromagen, TYP Solar, Inventive Power, Albara Solar

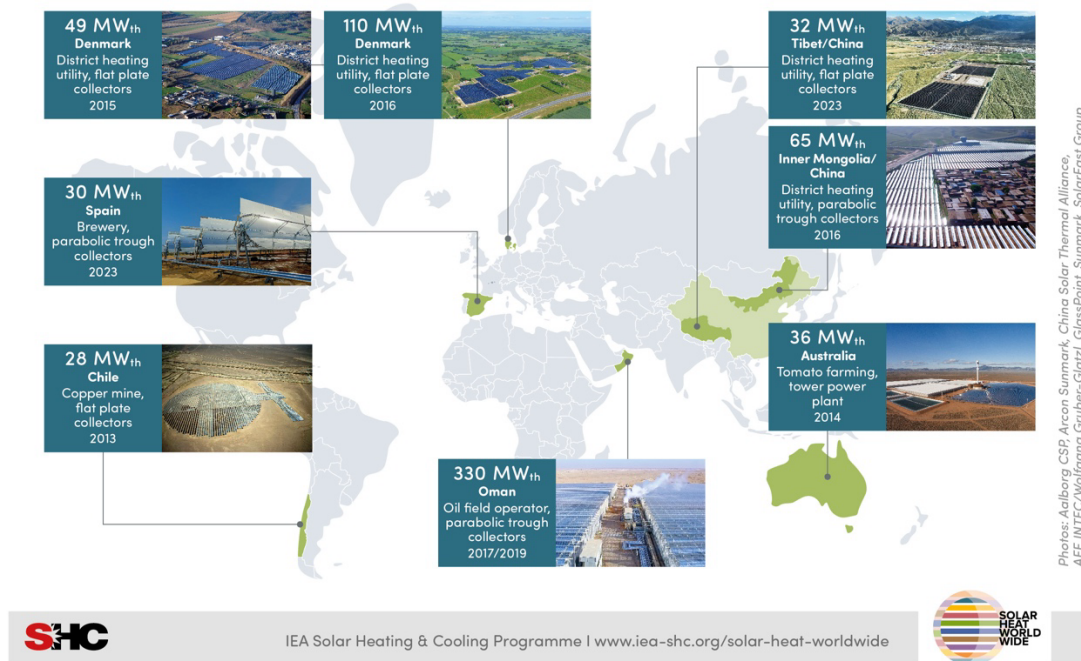
While the major solar thermal markets have faced declines, the resilience of the technology shines through as other markets steadily grow. As Lucio Mesquita, the Chair of the IEA SHC Programme, notes, *“This reaffirms the versatility and adaptability of the technology, signaling a promising future for solar heat applications worldwide. Market growth from 2022 to 2023, for the first time, was not dominated by European countries highlighting this shifting landscape.”*

Solar heat markets on the rise (Countries with growth 2022/2023)



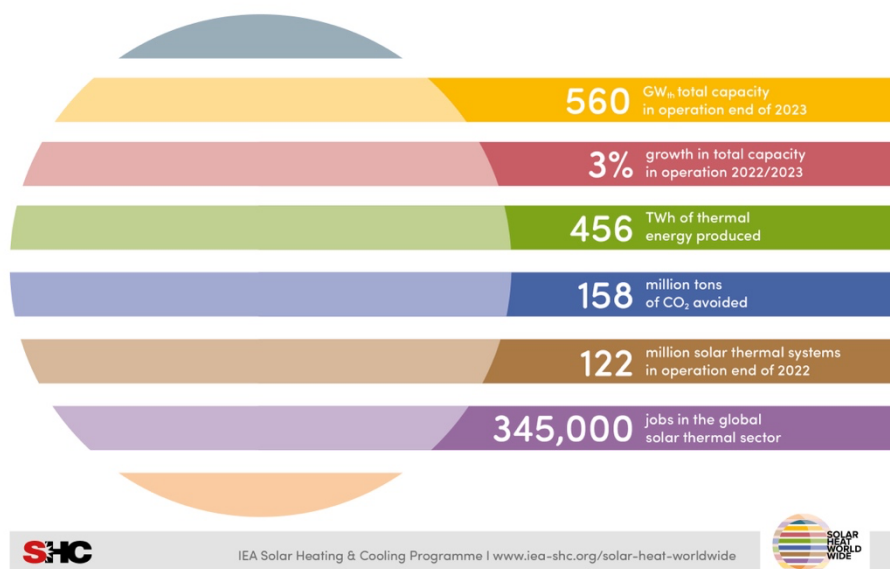
This shift is occurring not only in residential systems but also in large commercial systems. By the end of 2023, 598 large-scale solar heat systems were in operation with a total installed capacity of 2.3 GW_{th}, corresponding to 3.3 million m² of collectors.

World's largest solar heat plants



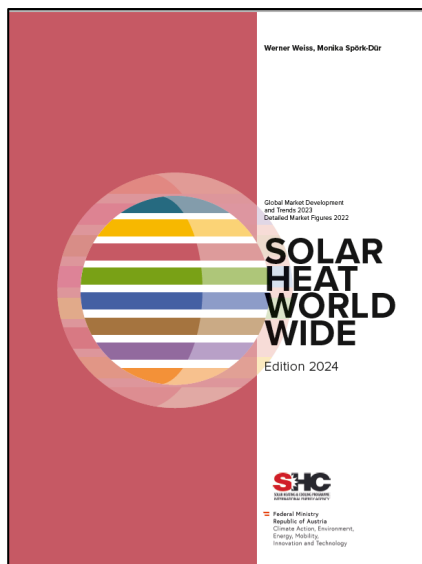
By the end of 2023, the total solar heat capacity reached 560 GW_{th}, equivalent to 800 million square meters of collector area. This means a net increase of 18 GW_{th} or 26 million square meters of collector area in 2023 or an increase in cumulative global installed capacity of 3% in 2023 compared to 2022.

Solar heat on the global scale



Despite this overall increase in total installed capacity, it's worth noting that the installed capacity of 21 GW_{th} or 30 million square meters of collector area in 2023 marked a decrease from the previous year's figure of 22.7 GW_{th}. This indicates a 7% decline in the global solar heat market compared to 2022, mainly due to declines in the largest market, China. However, with the building and industrial sectors accounting for 97% of the final energy demand for heat – there is enormous potential for solar heat in district heating and industrial processes. Expect significant growth as large-scale systems in the pipeline become operational and renewable heat policies, implemented in 2022, continue to take effect. Stay tuned for updates on this evolving trend.

Solar Heat Worldwide



First published in 2005, *Solar Heat Worldwide* documents solar heat energy development over the past 20 years as a trusted reference source for solar heating and cooling data among international organizations, including the IEA, REN21, and IRENA. This year's report includes data from 72 countries. And was, once again, written by Werner Weiss and Monika Spörk-Dür from the Austrian research institute AEE INTEC and supported by the Federal Ministry for Climate Action of the Republic of Austria and solar heat experts worldwide.

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Solar Heat Worldwide report and infographics: <https://www.iea-shc.org/solar-heat-worldwide>

IEA Solar Heating and Cooling Technology Collaboration Programme (IEA SHC): <https://www.iea-shc.org/>

AEE INTEC: <https://www.aee-intec.at/>

Federal Ministry for Climate Action of the Republic of Austria: <https://www.bmk.gv.at/en.html>

About IEA SHC

The International Energy Agency, Solar Heating and Cooling Technology Collaboration Programme (IEA SHC) is an international research and information program on solar heating and cooling technologies. Over 200 experts from 19 countries, the European Commission, and eight international organizations conduct collaborative research on a wide range of solar heating and cooling topics.

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