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Statistical data on the German Solar Heating (Solar Thermal) Market

This data sheet gives an overview of the German solar heating (solar thermal) sector at the end of 2023.

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Suggested citation

Unless stated otherwise, please use the following suggested citation: German Solar Association (BSW-Solar) (2024): "Statistical data on the German Solar Heating (Solar Thermal) Market", Berlin.

Solar Heating (Solar Thermal) Market in Germany	at the end of 2023 (all figures rounded)
New solar thermal systems installed in 2023 ¹	51,000
Cumulative number of installed solar thermal systems ²	2.60 million
New gross collector surface installed in 2023 ¹	0.38 million sqm
Cumulative gross collector surface installed ²	22.15 million sqm
New solar thermal capacity installed in 2023 ³	244 MW (th)
Cumulative solar thermal capacity installed ³	14.42 GW (th)
Solar thermal energy produced in 2023 ³	9.3 TWh (th)
Greenhouse gas emissions saved in 2023 in CO ₂ equivalents ⁴	2.6 million tons

¹ BSW-Solar and BDH, estimate based on own survey

² BSW-Solar and BDH, estimate based on own survey after deduction of installations that exceeded expected service life

³ BSW-Solar, own estimate; provisionally, methodology adapted

⁴ BSW-Solar, own estimate; provisionally, based on historic emission savings factors according to: Umweltbundesamt (2023): „Emissionsbilanz erneuerbarer Energieträger“, Dessau-Roßlau.