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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.

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Suggested citation

Unless stated otherwise, please use the following suggested citation: German Solar Association (BSW-Solar) (March 2025): "Statistical data on the German Solar Heating (Solar Thermal) Market", Berlin.

Solar Heating (Solar Thermal) Market in Germany	at the end of 2024 (all figures rounded)
New solar thermal systems installed in 2024 ¹	Approx. 26,000
Cumulative number of installed solar thermal systems ²	Approx. 2.59 million
New gross collector surface distributed in 2024 ¹	Approx. 0.22 million sqm
Cumulative gross collector surface End of 2024 ²	Approx. 21.82 million sqm
New solar thermal capacity installed in 2024 ³	Approx. 141 MW (th)
Cumulative solar thermal capacity installed ³	Approx. 14.20 GW (th)
Solar thermal energy produced in 2024 ⁴	Approx. 8.8 TWh (th)
Greenhouse gas emissions saved in 2024 in CO ₂ equivalents ⁴	Approx. 2.4 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 Umweltbundesamt (2025): „Erneuerbare Energien in Deutschland - Daten zur Entwicklung im Jahr 2024“, Dessau-Roßlau, see https://www.umweltbundesamt.de/sites/default/files/medien/11850/publikationen/hgp_erneuerbareenergien_2024.pdf