# SOLAR THERMAL AND CONCENTRATED SOLAR POWER BAROMETERS 2024

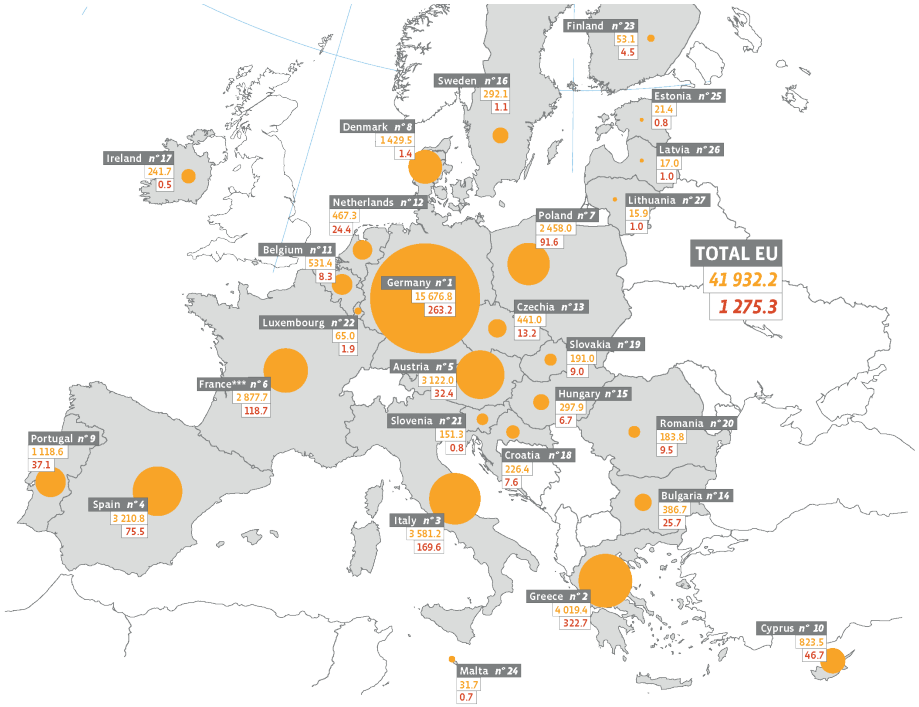
**FREE DOWNLOAD**

ENGLISH: https://www.eurobserv-er.org/category/all-solar-thermal-and-concentrated-solar-power-barometers/

## Solar thermal

The European Union solar thermal market's two-year growth spurt stalled abruptly in 2023, leading to a 23.9% market contraction. EurObserv'ER quantifies the annual installed solar thermal collector surface for 2023 at just over 1.8 million m² compared to the previous year's installation figure of 2.4 million m². The drop, which hit almost all EU countries, dealt the German market a particularly severe blow, pushing it down into second place in the rankings behind Greece. Looking on the bright side, the Greek solar thermal market expanded by 10%, and in doing so, consolidated its solar thermal supremo status. Other positive factors were the programmed build-up of solar heating networks in Germany and the commissioning of several major solar industrial heat projects.

*Solar thermal capacity* ***installed in the European Union at the end of 2023* (MWth)***




**41 932.2** *Total solar thermal capacity installed at the end of 2023 (MWth).*

**1275.3** *Solar thermal capacity installed during the year 2023 (MWth).*

** All technologies included unglazed collectors. **Estimation. *** Overseas departments included for France*
***Source: EurObserv'ER 2024.***

*A study carried out* by EurObserv'ER

EurObserv'ER

Funded by the European Commission

## Concentrated Solar Power

Recent EU concentrated solar thermal projects have been geared to industrial heating needs. Currently, only one 4-MW Fresnel type power plant is under construction in Sicily.

**59.9 MILLION M²**

*The cumulated surfaces of solar thermal in operation in the European Union in 2023*

**2 333.1 MWe**

*Total CSP capacity in operation in the European Union in 2023*

*Cumulated capacity of thermal solar collectors** ***installed in the European Union in 2023** (in m² and in MWth)***

| Country | 2023 m² | 2023 MWth |
|---|---|---|
| Germany | 22 395 490 | 15 676.8 |
| Greece | 5 742 000 | 4 019.4 |
| Italy | 5 116 005 | 3 581.2 |
| Spain | 4 586 843 | 3 210.8 |
| Austria | 4 459 936 | 3 122.0 |
| France | 4 111 000 | 2 877.7 |
| Poland | 3 511 490 | 2 458.0 |
| Denmark | 2 042 096 | 1 429.5 |
| Portugal | 1 598 054 | 1 118.6 |
| Cyprus | 1 176 383 | 823.5 |
| Rest of EU | 5 163 878 | 3 614.7 |
| Total EU 27 | 59 903 175 | 41 932.2 |

** All technologies included unglazed collectors. ** Estimation. Note: Some countries like France, Austria and Spain include PVT hybrid systems in their cumulated capacity of solar thermal collectors.*
***Source: EurObserv'ER 2024.***

## FURTHER INFORMATION

ANNUAL REPORT: "The State of renewable energies in Europe", 22nd edition, www.eurobserv-er.org/22nd-annual-overview-barometer
DATABASE: www.eurobserv-er.org/online-database
GRAPHS: www.eurobserv-er.org/press-corner-graphs-and-tables
TWITTER: twitter.com/EurObserv_ER
PRESS RELEASES: www.eurobserv-er.org/download-press-releases

*The next barometer will be about heat pumps.*