SOLAR THERMAL AND **CONCENTRATED SOLAR POWER BAROMETERS 2022**

Solar Thermal

In 2021, the solar thermal market bounced back in key European Union countries after experiencing a tough year in 2020. The solar thermal sector took advantage of aid opportunities as well as benefitted from higher fossil fuel and electricity prices. According to EurObserv'ER, the 2021 market total was above the 2 million m² mark for all EU solar thermal applications: solar hot water heating, solar, industrial heating, and urban heating. The year's newly installed surface equates to about 1 502.8 MWth of thermal capacity (up from 1 391.1 MWth in 2020). Incidentally, the glazed surface of a 1-m² solar thermal collector offers 0.7 kWth of thermal capacity. However, this EU market upturn remains uneven and largely dependant on incentive systems and regulatory contexts.

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concentrated-solar-power-barometers/

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Graph No. 1





* Estimation. ** Including 90 000 m2 in the overseas departments. + EurObserv'ER estimation based on the market trend of recent years Source: EurObserv'ER 2022.

A study carried out by EurObserv'ER



Concentrated Solar Power

Concentrated Solar Power (CSP) describes all the where the two new, most powerful plants technologies that aim to transform solar radiation energy into very high temperature heat to convert it into electricity or steam. According to the calculations made by EurObserv'ER, at least two plants were commissioned during 2021 worldwide but none in The European Union. CSP development is higher in countries such as Chile and China,

Cumulated solar thermal capacity in operation in EU27 at the end of 2021

commissioned in 2021 are located. European CSP capacity is overwhelmingly concentrated in Spain, where the officially installed CSP capacity is 2 304 MW (i.e., 99% of the EU total). Despite the sector is part and parcel of the EU's solar energy strategy, very few projects have been announced for the future.

2 328.8 MWe CSP plants in operation* in the European Union at the end of 2021

Table No. 1

Cumulated capacity of thermal solar collectors* installed in the European Union in 2021** (in m² and in MWth)

Country	2021 m²	2021 MWth
Germany	21 784 790	15 249.4
Greece	5 175 000	3 622.5
Austria	4 767 286	3 337.1
Italy	4 672 525	3 270.8
Spain	4 393 316	3 075.3
France	3 524 000	2 466.8
Poland	3 195 690	2 237.0
Denmark	2 032 959	1 4 2 3 . 1
Rest of EU	7 625 334	5 338
otal EU 27	57 170 900	40 019.6

ies included ctors. Source: 2022

The next

energy.

barometer will be about ocean

FURTHER INFORMATION ANNUAL REPORT: "The State of renewable energies in Europe", 20th edition, www.eurobserv-er.org/20th-annual-overview-barometer DATABASE: www.eurobserv-er.org/online-database **GRAPHS**: www.eurobserv-er.org/press-corner-graphs-and-tables

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