

Europe Solar PV Module Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

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Abstracts

Europe Solar PV Module Market, valued at USD 63.1 billion in 2024, is projected to expand at a CAGR of 7% from 2025 to 2034. Solar photovoltaic (PV) modules, which convert sunlight into electrical energy using photovoltaic cells, are a fundamental component of solar energy systems. These modules are commonly grouped into panels and connected in arrays to generate substantial power output.

The integration of solar PV modules with energy storage systems, such as batteries, is becoming increasingly popular. This setup allows excess solar energy to be stored and utilized during periods of low sunlight or peak energy demand, ensuring a stable energy supply and enhancing energy independence. The adoption of advanced monitoring technologies and digital solutions further optimizes the performance of solar PV systems, enabling predictive maintenance and boosting overall system efficiency. This trend is significantly contributing to market growth prospects.

The industry is poised for further expansion as countries implement clean energy targets, emphasizing the transition to renewable energy. Strategic partnerships and collaborations between key market players are accelerating the development of large-scale, grid-connected solar power projects. Additionally, continuous advancements in solar PV technology, focusing on improved performance and efficiency, are expected to drive market growth in the coming years.

In terms of technology, the crystalline segment is anticipated to reach USD 116 billion by 2034. This growth is supported by streamlined manufacturing processes and declining module costs, making high-efficiency solar modules more accessible. These advancements are particularly beneficial for installations where space is limited, as they

enable the generation of more electricity from the same amount of sunlight.

On-grid solar PV systems are also expected to witness significant growth, with a projected CAGR of over 6.5% through 2034. The increasing focus on sustainable energy solutions and efforts to recycle solar panels at the end of their lifecycle are driving segment expansion. Additionally, the availability of diverse financing options and government incentives is making on-grid solar installations more attractive to both residential and commercial users, further enhancing the market outlook.

Germany solar PV module market is set to exceed USD 50 billion by 2034, driven by government initiatives and collaborative efforts between solar developers and public entities. The focus on expanding solar infrastructure, particularly in commercial and industrial sectors, is expected to play a key role in shaping the country's renewable energy landscape, supporting the overall growth of the European solar PV module market.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research Design
- 1.2 Base estimates & calculations
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 INDUSTRY INSIGHTS

- 2.1 Industry ecosystem
- 2.2 Regulatory landscape
- 2.3 Industry impact forces
 - 2.3.1 Growth drivers
 - 2.3.2 Industry pitfalls & challenges
- 2.4 Growth potential analysis
- 2.5 Porter's analysis
 - 2.5.1 Bargaining power of suppliers
 - 2.5.2 Bargaining power of buyers
 - 2.5.3 Threat of new entrants
 - 2.5.4 Threat of substitutes
- 2.6 PESTEL analysis

CHAPTER 3 COMPETITIVE LANDSCAPE, 2024

- 3.1 Introduction
- 3.2 Strategic dashboard
- 3.3 Innovation & technology landscape

CHAPTER 4 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 – 2034 (USD MILLION & MW)

- 4.1 Key trends

4.2 Thin film

4.3 Crystalline Silicon

CHAPTER 5 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 – 2034 (USD MILLION & MW)

5.1 Key trends

5.2 Monocrystalline

5.3 Polycrystalline

5.4 Cadmium telluride

5.5 Amorphous silicon

5.6 Copper indium gallium diselenide

CHAPTER 6 MARKET SIZE AND FORECAST, BY CONNECTIVITY, 2021 – 2034 (USD MILLION & MW)

6.1 Key trends

6.2 On grid

6.3 Off grid

CHAPTER 7 MARKET SIZE AND FORECAST, BY MOUNTING, 2021 – 2034 (USD MILLION & MW)

7.1 Key trends

7.2 Ground mounted

7.3 Rooftop

CHAPTER 8 MARKET SIZE AND FORECAST, BY END USE, 2021 – 2034 (USD MILLION & MW)

8.1 Key trends

8.2 Residential

8.3 Commercial & industrial

8.4 Utility

CHAPTER 9 MARKET SIZE AND FORECAST, BY COUNTRY, 2021 – 2034 (USD MILLION & MW)

9.1 Key trends

- 9.2 Austria
- 9.3 Norway
- 9.4 Denmark
- 9.5 Finland
- 9.6 France
- 9.7 Germany
- 9.8 Italy
- 9.9 Switzerland
- 9.10 Spain
- 9.11 Sweden
- 9.12 UK
- 9.13 Netherlands
- 9.14 Poland
- 9.15 Belgium
- 9.16 Ireland
- 9.17 Baltics
- 9.18 Portugal

CHAPTER 10 COMPANY PROFILES

- 10.1 Belectric
- 10.2 Canadian Solar
- 10.3 CsunSolarTech
- 10.4 Eternia Solar
- 10.5 Emmvee Solar
- 10.6 First Solar
- 10.7 JA SOLAR Technology
- 10.8 JinkoSolar
- 10.9 LG Electronics
- 10.10 LONGi
- 10.11 REC Solar Holdings
- 10.12 RENESOLA
- 10.13 Shunfeng International Clean Energy
- 10.14 Solar Frontier
- 10.15 The Solaria Corporation
- 10.16 Trina Solar
- 10.17 Vikram Solar
- 10.18 Yingli Solar

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