

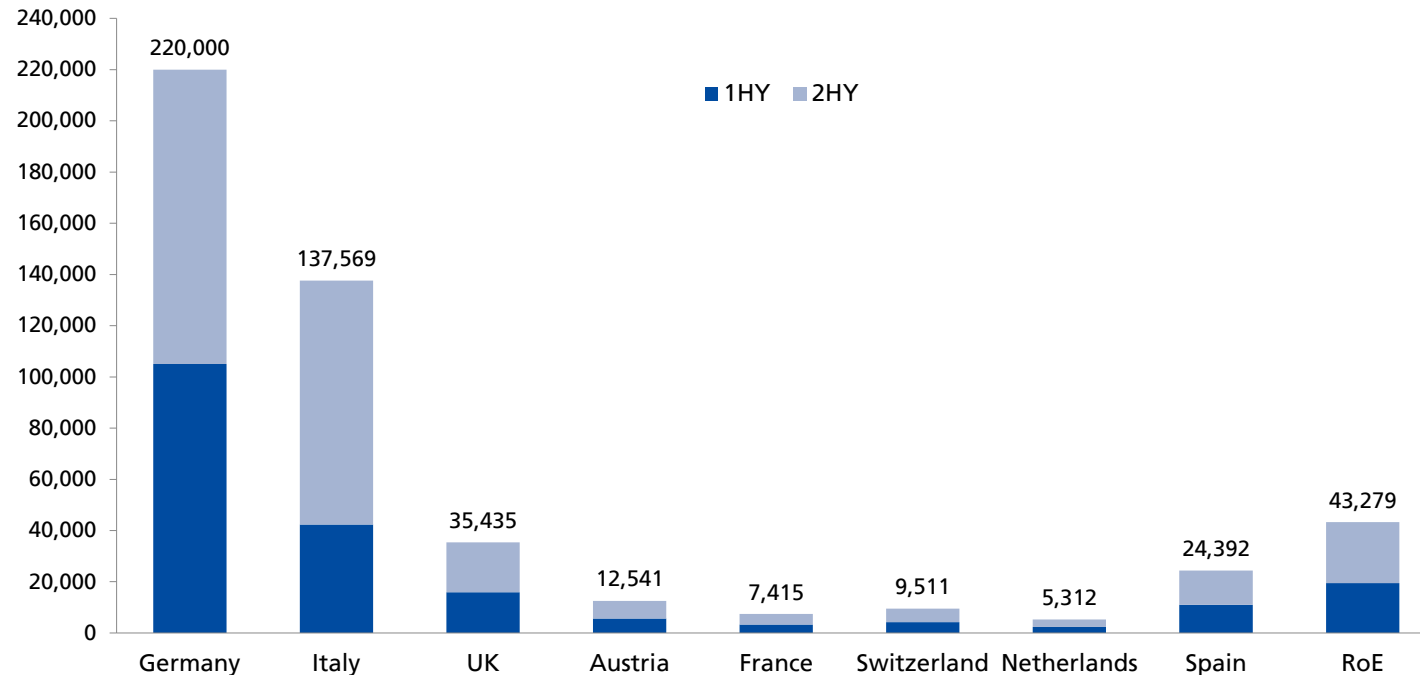
Electrical Energy Storage Reports Europe

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Number of residential storage installations – 2022

In addition to various surveys, EUPD Research offers a report on residential storage in the major European markets.



The residential storage market in Europe reached new heights in 2022, with close to 500,000 newly installed systems across the various markets.

This development is analogous to the developments in the rooftop PV market, and shows similar potential in terms of forecasts for 2023 and beyond.

However, the different markets are all structured differently, and in order to be successful one needs to understand the drivers and barriers.

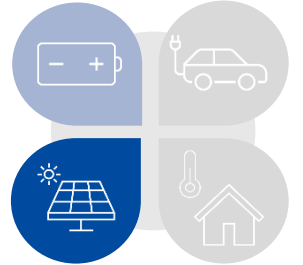
Source: EUPD Research 2023

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In addition to various surveys, EUPD Research offers a report on residential storage in the major European markets.

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Market intelligence and data analytics report to gain insights into the major European storage markets



Market data

Storage installations (Numbers)

Storage installations (MWh)

Residential PV installations

Intelligence & Analytics

Framework conditions and drivers & barriers

Top Storage Market Players

Top Cell Suppliers



The Electrical Energy Storage Reports Europe contain:

Key Indicators

An overview of residential PV and storage installations, as well as forecasts for both.

Framework Conditions

An overview of governmental framework conditions per country, as well as drivers and barriers and the resulting impact.

Top Storage Market Players (Germany & Europe)

Market shares for residential storage suppliers (based on delivered and installed systems)

Top Cell Suppliers Europe:

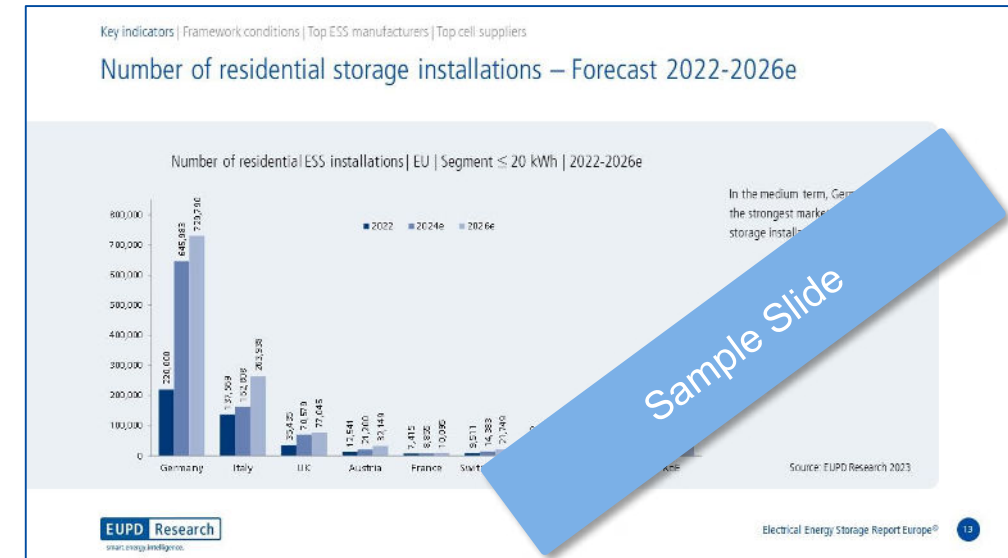
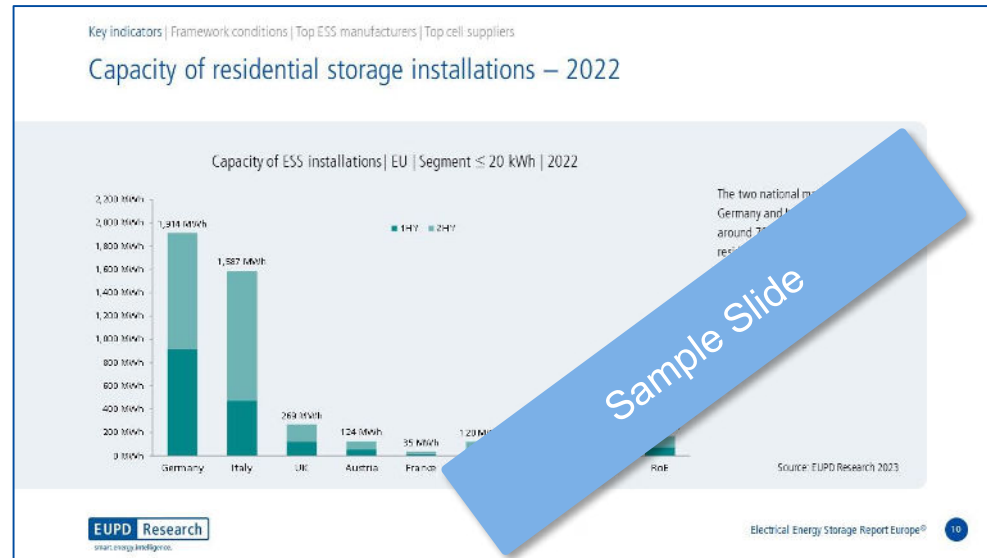
Market shares and an overview, to whom cell suppliers deliver and to what extent their cells are used.



Key Indicators

This section allows you to track and estimate the developments in the residential segment in the key European PV and storage markets: Europe (total), Germany, Italy, the UK, Austria, France, Switzerland, the Netherlands, Spain and Rest of Europe.

Here you will receive historical data, current figures and forecasts in terms of numbers and capacity.



This section highlights all framework conditions, as well as drivers & barriers for the residential ESS market.

They are displayed for every featured country, in order to better understand the development in terms of storage installations. Furthermore, EUPD estimates the impact of each issue, in order to benchmark the importance.

Key indicators | Framework conditions | Top ESS manufacturers | Top cell suppliers

Austria – Framework conditions

Framework conditions & latest developments

Impact on residential PV and ESS

Outlook residential ESS

Residential PV:

- In 2023, the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology will provide around 600 million euros for the installation of new photovoltaic systems
- PV systems up to 10 kWp are subsidized with 285 EUR/kWp, systems up to 20 kWp are subsidized with 250 EUR/kWp
- In addition, some federal states have their own subsidy schemes
- Austria wants to achieve a PV target of 15 GW in 2030, they have reached a cumulative capacity of around 4.2 GW (as of 2022)

Residential ESS:

- For storage systems (in combination with PV). On a federal level there is an investment grant for storage systems up to 10 kWh (same support as for PV systems) + investment grant for retrofit-storage installations with a capacity of up to 10 kWh as well as a planned continuation and expansion of this program in 2023
- Several support schemes on state level
- The new support schemes make it attractive to invest in PV and storage
- About 73% of the storage systems installed in 2021 were supported by the federal government
- The new support schemes will boost the residential ESS market

Sample Slide

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Key indicators | Framework conditions | Top ESS manufacturers | Top cell suppliers

Spain – Drivers & barriers for the residential ESS market

DRIVERS	BARRIERS
<ul style="list-style-type: none">• Favourable support schemes for solar PV and storage• Rooftop PV has a high potential due to e.g. high solar radiation• Large annual growth rate of residential PV	<ul style="list-style-type: none">• Compensation scheme for surplus PV electricity restricts expansion of storage facilities• Spain's main focus in PV installations is on large-scale ground-mounted installations due to a favourable regulatory framework• So far no storage support schemes in the recovery plan runs out

Sample Slide

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Top Storage Market Players (Germany & Europe)

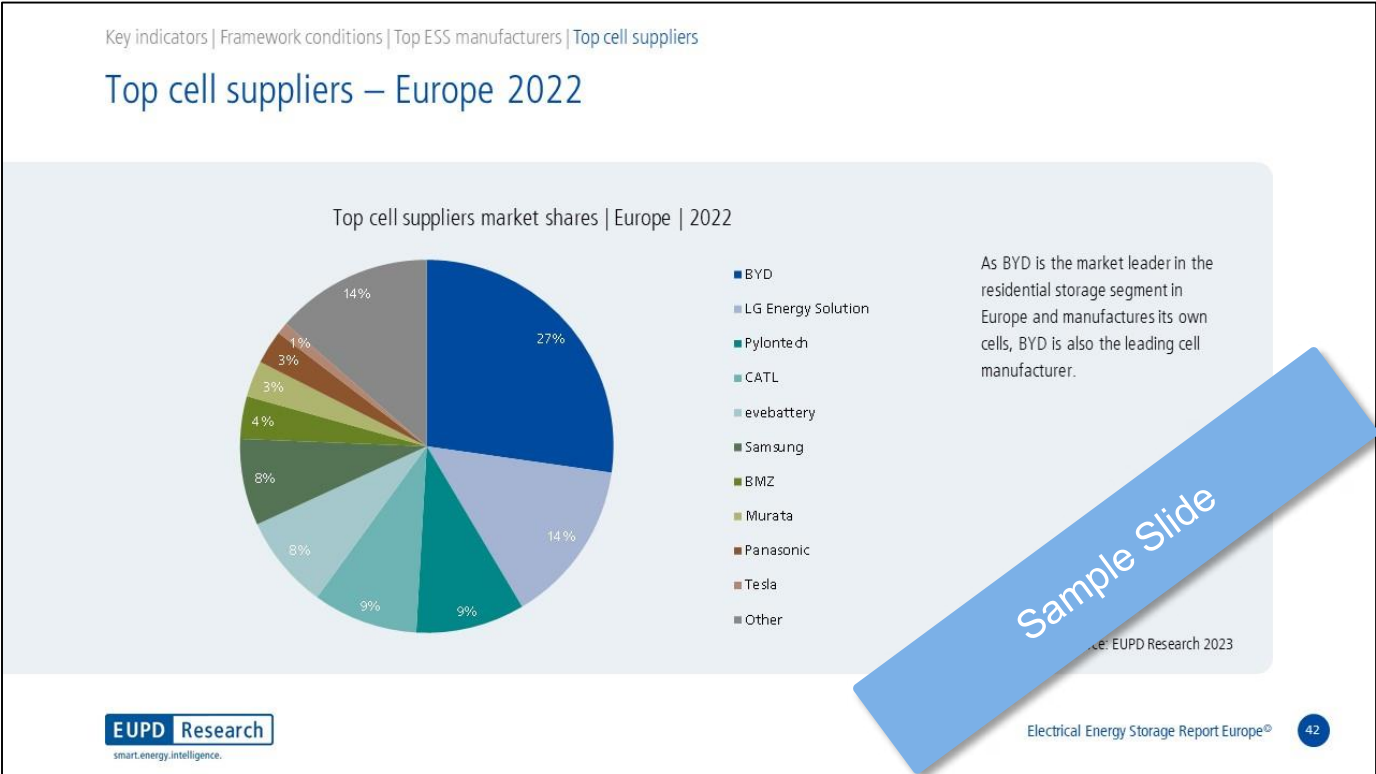
In this chapter the market shares for residential storage suppliers are depicted for Germany and Europe. The shares reflect the delivered and installed systems; the market share calculation is based on a survey with manufacturers, plus a further benchmarking with EUPD Research study reports and desk research. A forecast is included, as well.

Furthermore, the sales volumes are displayed with an overview, which cell suppliers are used and to which extent

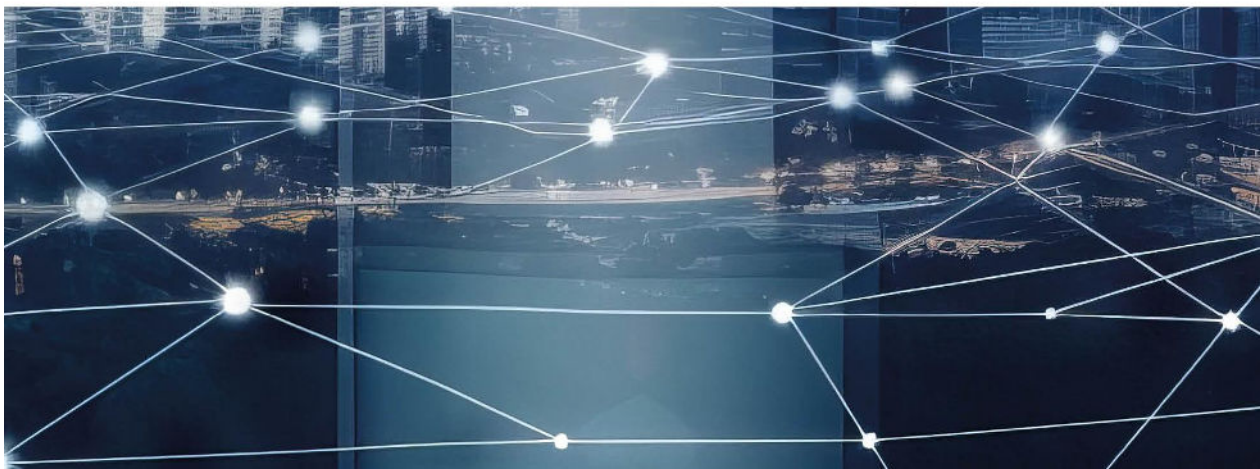


Top Cell Suppliers Europe

In the final section, the market shares for the cell suppliers for residential storage solutions are displayed. The depiction is based on the current year, and also includes a forecast for the following year.



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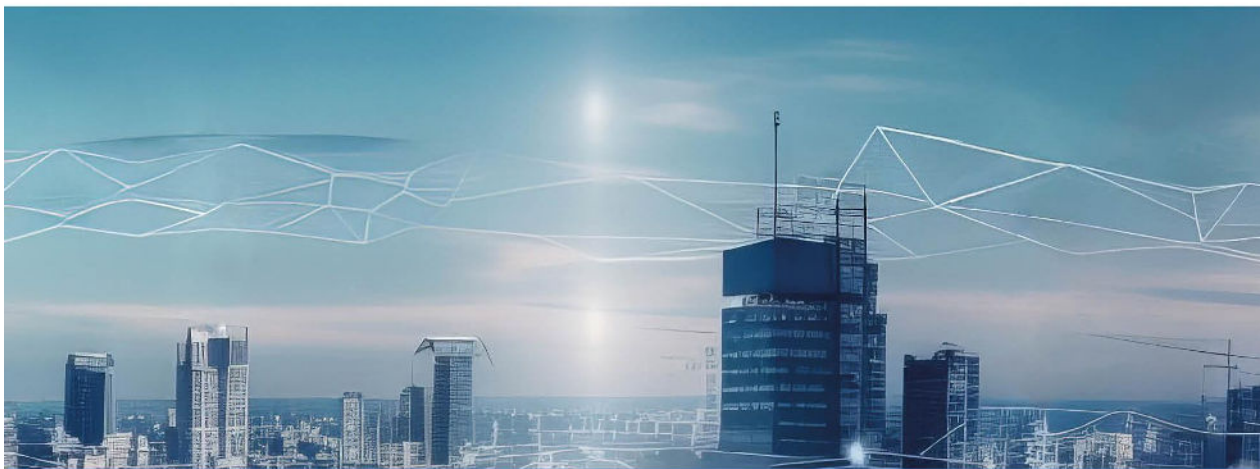
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- Market analyses
- Competition analyses
- Product analyses
- Price analyses

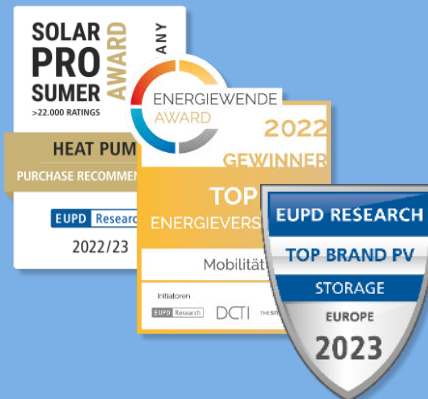


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- Our future-oriented consulting services analyze both the corporate environment and the fundamental objectives of the client

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