

Electrical Energy Storage Report Europe

(Subscription Model)

EUPD Research | July 2023



BACKGROUND

Electrical energy storage has become an **integral part of the energy transition**, and a vital component of a complete renewable energy system

While Germany remains the most important market for residential storage systems (with 220,000 new installations for systems up to 20 kWh in 2022), **more and more markets** are dependent on storage systems; Italy is the second largest market behind Germany, while the United Kingdom and Spain has also shown glimpses of a promising potential.

The **current situation in Europe** has further opened the possibilities for renewable energies in general, and storage solutions in specific – the Ukraine crises, increasing energy prices and the fear of further looming pandemics to name a few.

Furthermore, **the storage industry has been growing** as further players have been pushing into the market; more and more renowned module manufacturers have introduced their own storage solutions, the electric mobility sector is keeping a close eye on the developments in terms of sector coupling, and large utilities and multinational corporations have been increasing their investments in solar PV and storage.

To be successful in the storage industry it is **vital to keep track of the current developments**, among others the growing PV markets, the individual regulatory framework conditions in the European countries, and the competitive landscape in terms of brands and manufacturers.

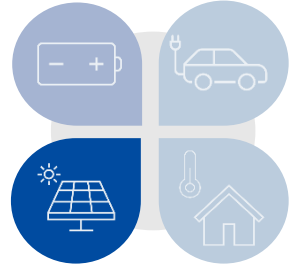
The **Electrical Energy Storage Report Europe** offer you all the above on a half-yearly basis, in order for you to keep a close eye on the developments you can react as quickly as possible, and secure your success in the energy storage industry.

Electrical Energy Storage Report Europe[©]

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

Electrical Energy Storage Report Europe[©]

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



Market data

Storage installations (Numbers)

Storage installations (MWh)

NEW*

Pricing PV + Storage Germany

Residential PV installations

Intelligence & Analytics

Framework conditions

Drivers & barriers

Top Storage Market Players

Top Cell Suppliers

*as of November 2023

The Electrical Energy Storage Report Europe contains:

Key Indicators

An overview of residential PV and storage installations, as well as forecasts for both. Additionally, PV and storage system prices will be shown for Germany as of November 2023.

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)

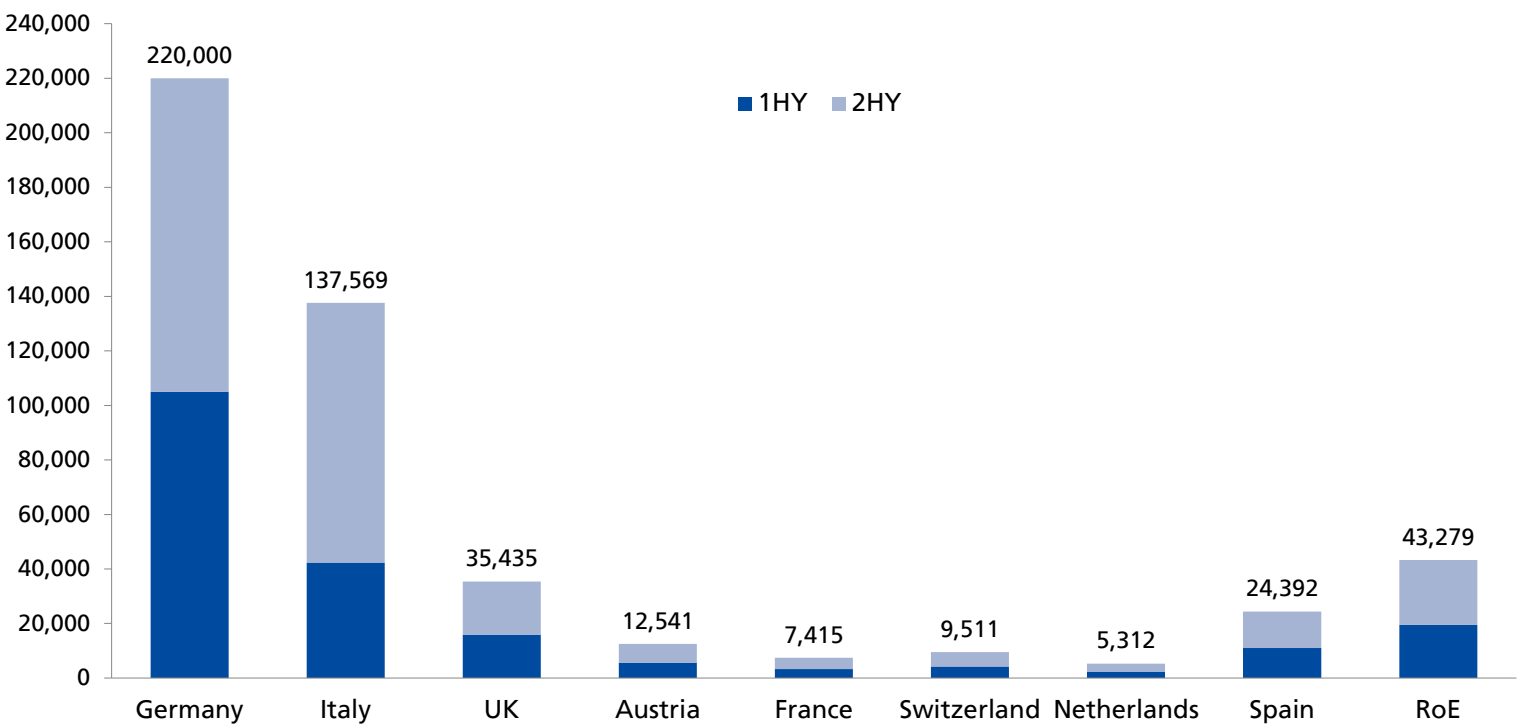
Top Cell Suppliers Europe:

Market shares and the technology split between NMC, NCA and LFP . Furthermore, an overview, to whom cell suppliers deliver, to what extent their cells are used.



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

NEW: Storage system prices

In addition to various market information in this report, in the 2nd half of 2023 storage system prices for Germany will be added to this report.

[Key indicators](#) | [Framework conditions](#) | [Top ESS manufacturers](#) | [Top cell suppliers](#)

Storage system prices Germany – 2022



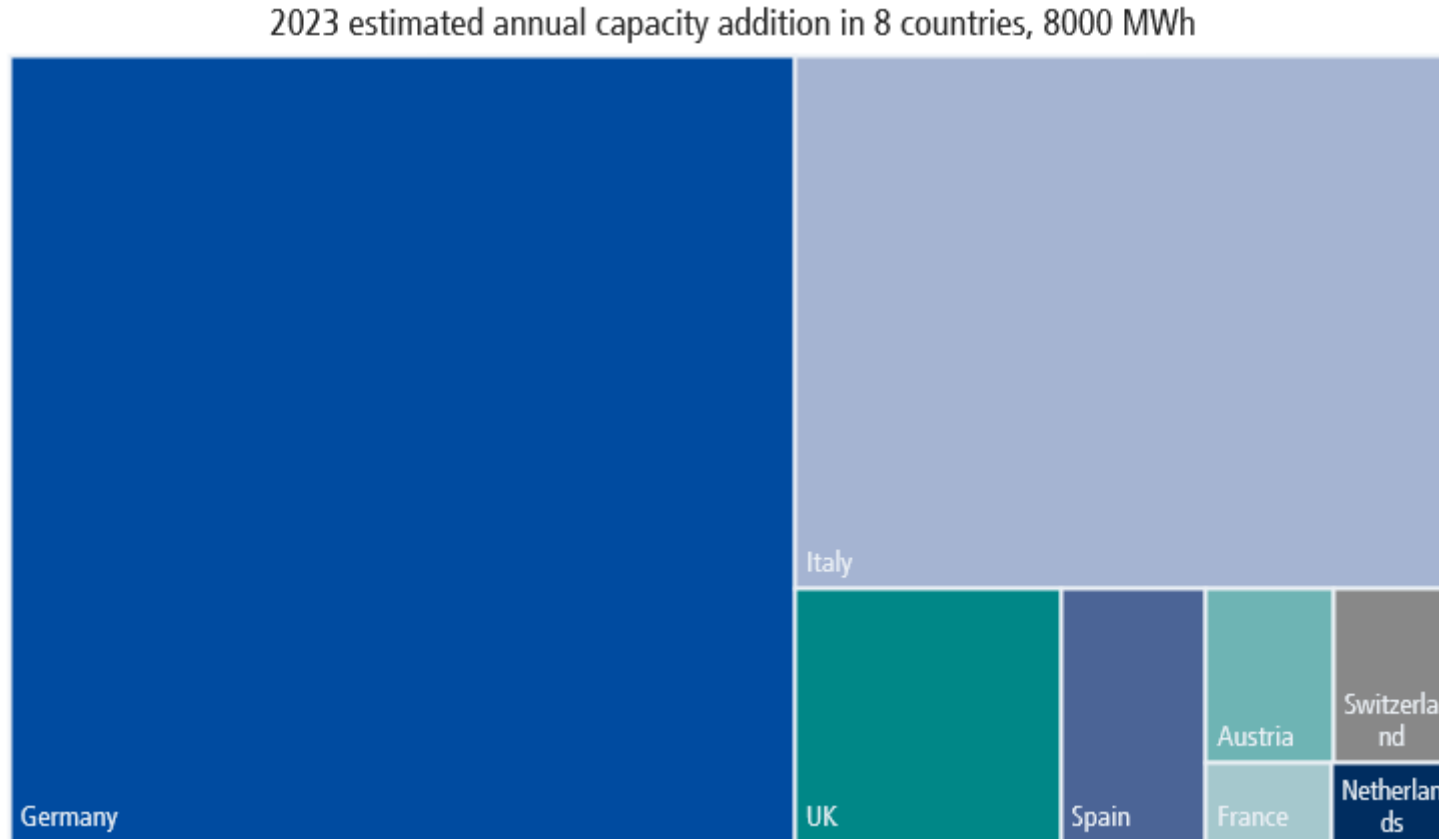
Every quarter, EUPD Research surveys 100 installers in Germany on prices for PV modules, PV systems and storage systems.

This price analysis will be part of the Electrical Energy Storage Report Europe from the second half of 2023.

Source: EUPD Research 2023

Scope

The countries within the scope have been constantly growing and show further potential.



- Key PV markets in Europe have made impressive progress in the development of residential storage systems
- EUPD Research will further provide market information for the mentioned countries, such as market statistics, regulatory framework, as well as drivers and barriers.

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 (the forecasts will include a list of factors that influenced the preceding forecast).

[Key indicators](#) | [Framework conditions](#) | [Top ESS manufacturers](#) | [Top cell suppliers](#)

Capacity of PV installations – 2022



[Key indicators](#) | [Framework conditions](#) | [Top ESS manufacturers](#) | [Top cell suppliers](#)

Capacity of residential storage installations – Forecast 2022-2026e



Framework Conditions

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 (same support as for PV systems) + investment grant for retrofit-storage installations with a maximum capacity of 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 federal subsidies
 - The new support schemes will boost the residential ESS market

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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 storageRooftop PV has a high potential due to e.g. high solar radiationLarge annual growth rate of residential PV	<ul style="list-style-type: none">Compensation scheme for surplus PV electricity restricts expansion of storage facilitiesSpain's main focus in PV installations is on large-scale mounted installations due to a favourable regulatory frameworkSo far no storage support schemes in the recovery plan runs out

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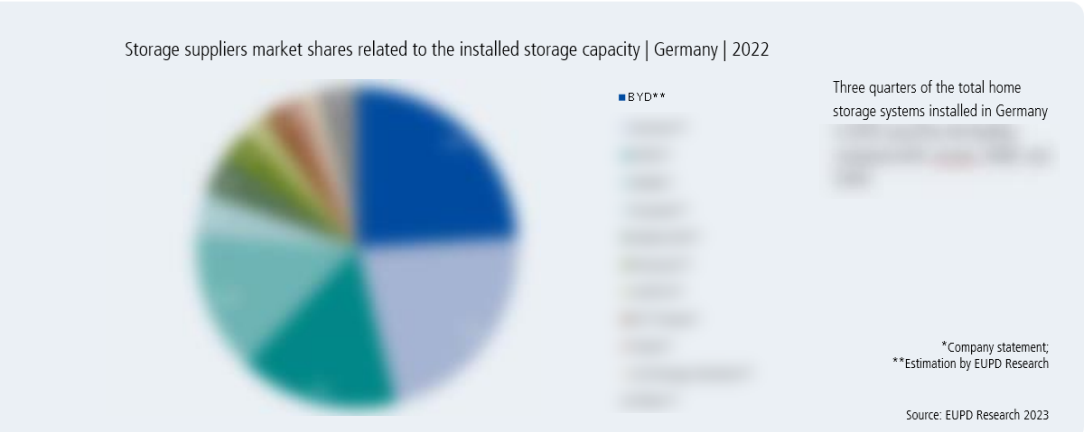
Top Storage Market Players (Germany & Europe)

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. Forecast are included, as well.

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

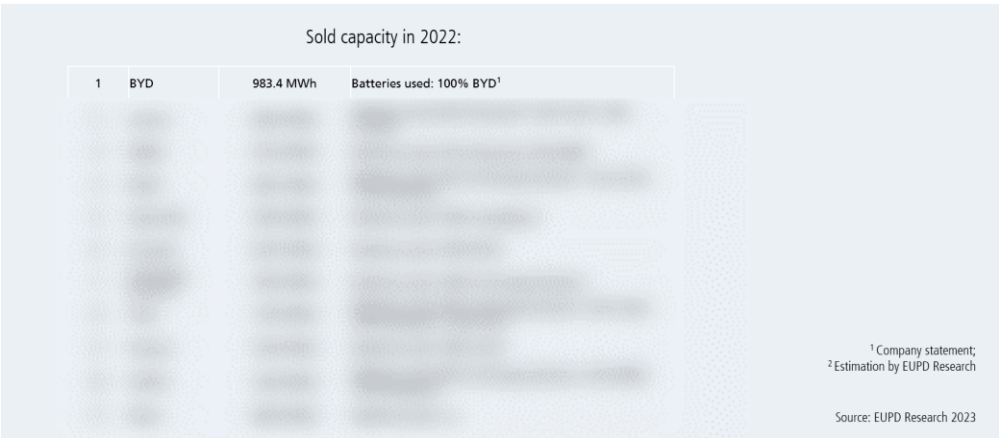
Key indicators | Framework conditions | [Top ESS manufacturers](#) | Top cell suppliers

Top storage market players – Germany 2022



Key indicators | Framework conditions | [Top ESS manufacturers](#) | Top cell suppliers

Top 10 residential ESS manufacturers – Europe 2022



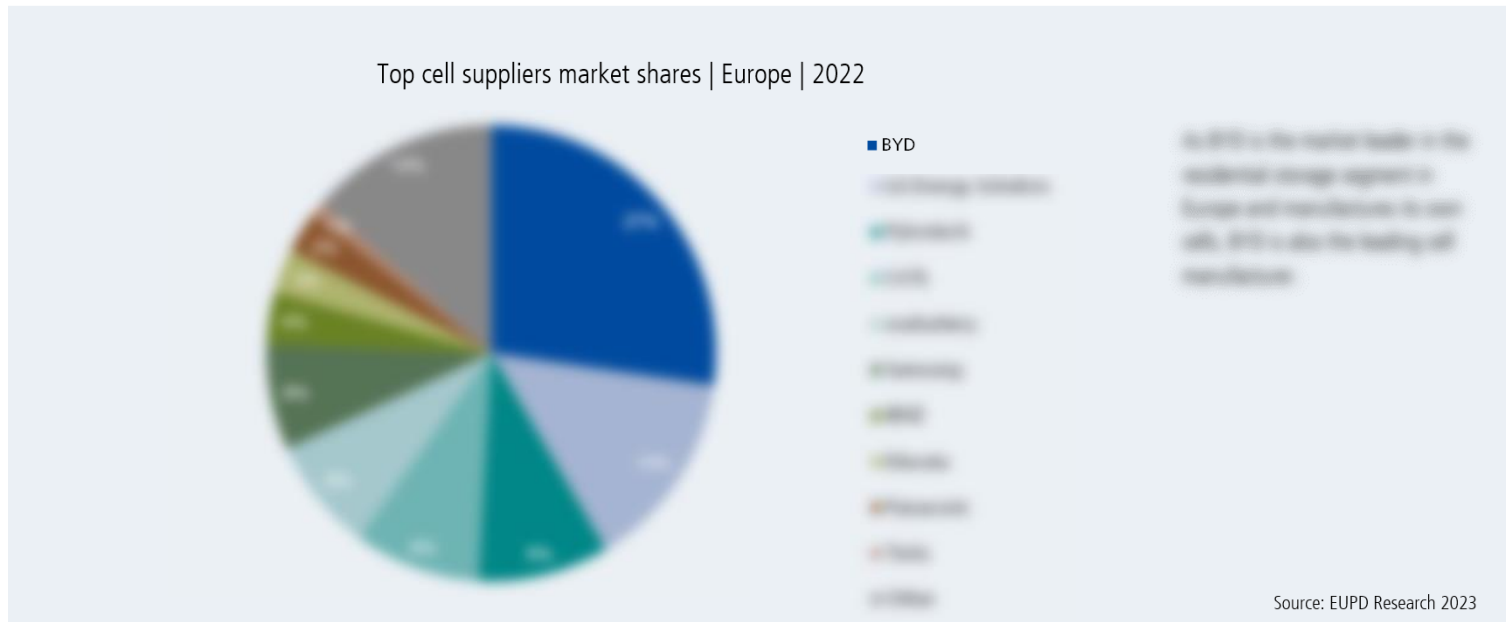
Top Cell Suppliers Europe

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.

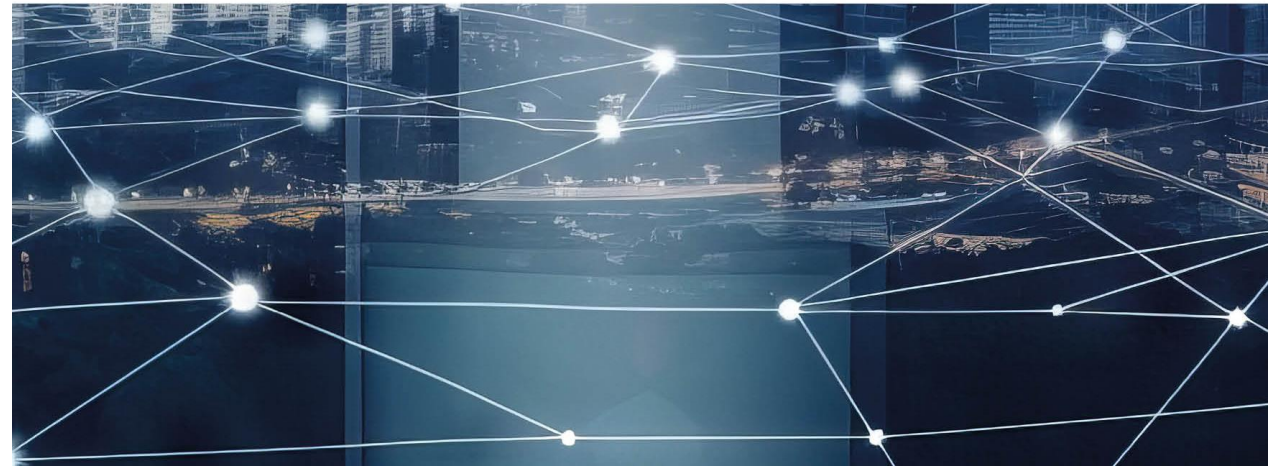
Furthermore, the technology split between NMC, NCA and LFP cells will be displayed.

[Key indicators](#) | [Framework conditions](#) | [Top ESS manufacturers](#) | [Top cell suppliers](#)

Top cell suppliers – Europe 2022



ORDER FORM



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We hereby order the following:

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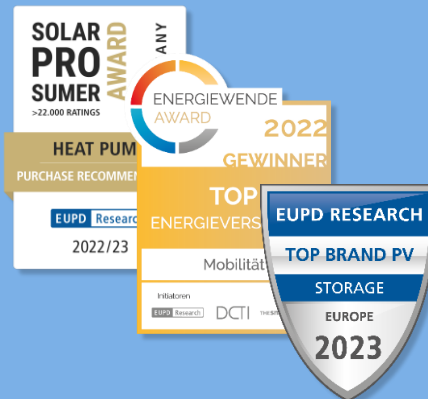
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