



# Solar Surge & Storage Strategy: Germany's Journey in PV & BESS

German Solar Association (BSW-Solar)

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#### **German Solar Association**

The Network of the Solar Energy and Storage Sectors







and many more

National memberships

























among others

### **German Solar Association**



TASK	To represent the solar industry in Germany in the photovoltaic, thermal and storage sector
VISION	A sustainable global energy supply provided by solar (renewable) energy
ACTIVITIES	Lobbying, political advice, public relations, market observation, standardization
EXPERIENCE	Active in the solar energy sector for over four decades
REPRESENTS	More than 1000 solar producers, suppliers, wholesalers, installers and other companies active in the solar business from all over the world
HEADQUARTER	Berlin, Germany

EQUIPMENT MATERIALS SYSTEM COMPONENTS WHOLESALE & PROJECT DEVELOPMENT CONSTRUCTION 0&M

#### **Recent milestones**

#### in the German PV and storage market





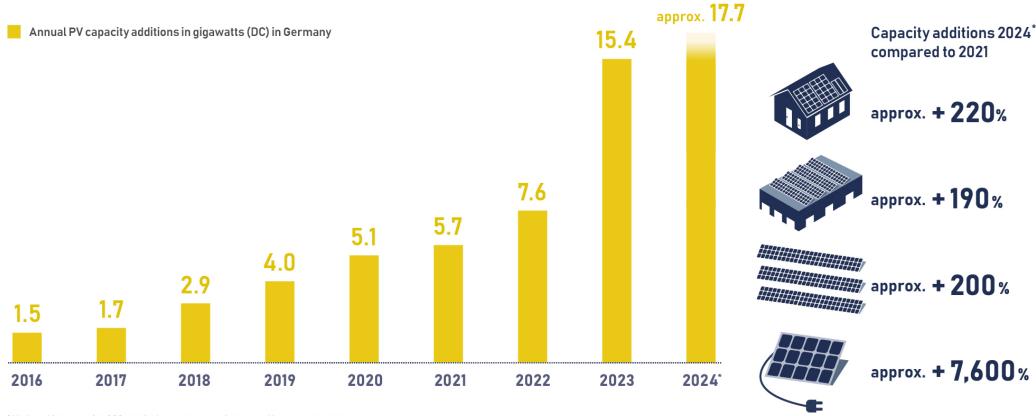
- More than 100 GWp cumulative PV capacity installed end of 2024 (currently approx. 112 GWp installed)
- Over 25 GWp new rooftop PV capacity installed in the years
   2022 to 2024
- More than 1 GWp new ground-mounted PV capacity installed via EEG-tenders in months of February and August 2025
- More than **5.5 million PV-systems** as of Q3/2025 including more than **1 million plug-in solar devices** (registered)
- 25 GWh of battery storage achievable by the end of 2025
- Almost 2.3 million battery storage units as of Q3/2025

#### **Tripling within three years:**

### **Annual capacity additions of solar PV**





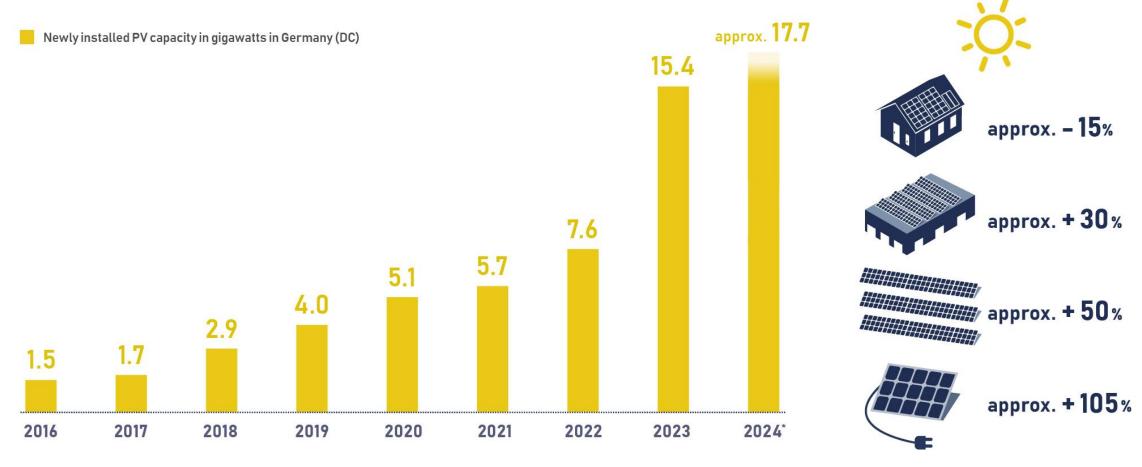


<sup>\*</sup>Updated forecast for 2024 includes estimates of expected late registrations.

BSW-Solar, based on Marktstammdatenregister (commissioning date of PV unit); as of 09/09/2025

# German PV market continued to grow in 2024 Diverging developments across market segments





<sup>\*</sup>Updated forecast for 2024 includes estimates of expected late registrations.

BSW-Solar, based on Marktstammdatenregister (commissioning date of PV unit); as of 09/09/2025

#### Added PV capacity in Jan. to Sept. 2025 approx. +4%\*



Approx. 11.9 GWp in Jan. to Sept. 2025 compared to 11.5 GWp in previous year period\*

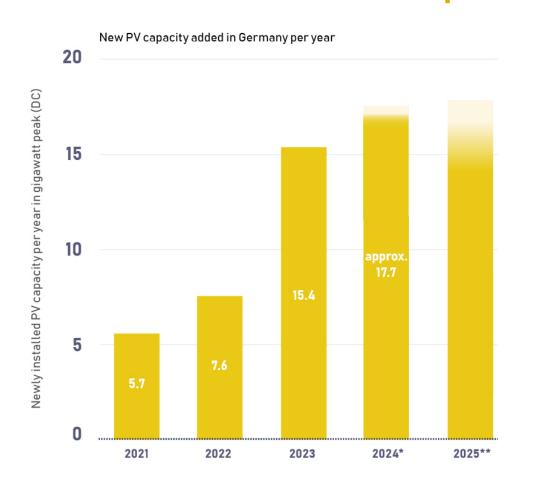
New PV installations	Residential rooftop PV ≤ 30 kWp	<b>C&amp;I rooftop PV</b> > 30 kWp	Ground-mounted PV (incl. other structures, floating PV and agrivoltaics)	Plug-in solar devices ("Balcony PV")
Jan. to Sept. 2024 registered before 10/27/2024	approx. 4.7 GWp	approx. 2.4 GWp	approx. 4.1 GWp	approx. 0.4 GWp
Jan. to Sept. 2025 registered before 10/27/2025	approx. 3.6 GWp -23 %	approx. 2.4 GWp +/-0 %	approx. 5.5 GWp +35 %	approx. 0.5 GWp +28 %

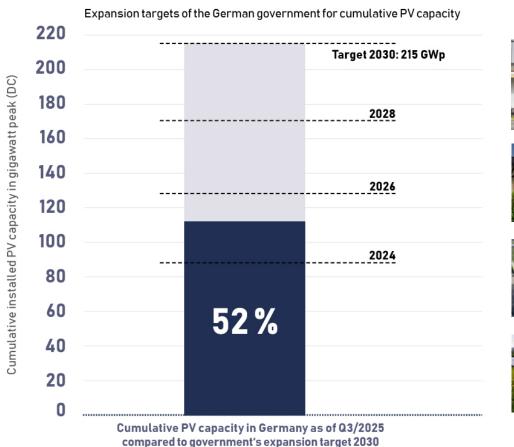
Source: BSW-Solar based on core energy market data register (Marktstammdatenregister as of 10/27/2025, commissioning date and registration date of PV unit, added capacity in DC) Note: Preliminary data for 2025. Further late registrations are to be expected.

<sup>\*</sup>Comparison based on commissioned PV installed within identical registration periods to eliminate the distorting effect of late registrations. Due to rounding, the sums and percentages may not reconcile exactly.

# 52 % of current 215 GWp PV expansion target for 2030 achieved PV additions in 2025 are expected to be at a similar level to 2024













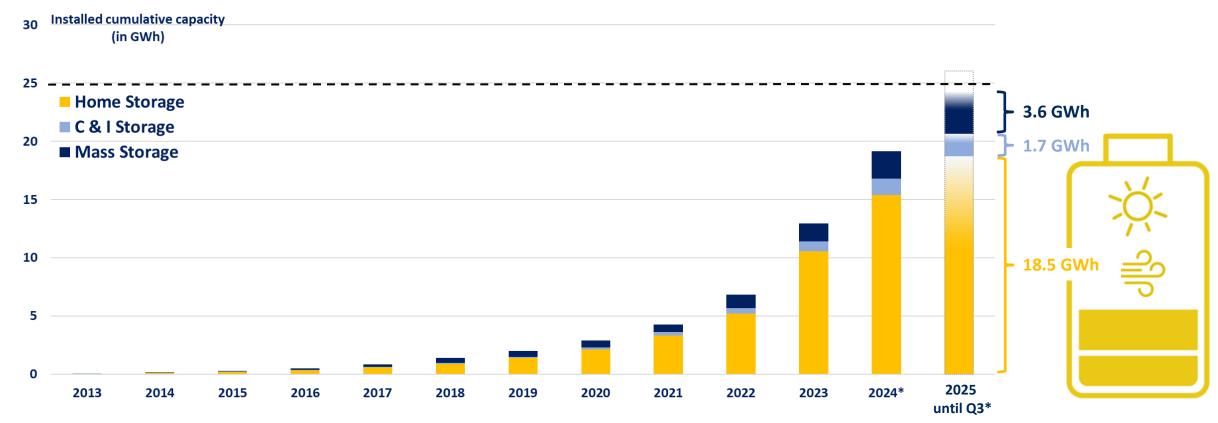


<sup>\*</sup>Forecast for 2024 and 2025 including estimate of expected late registrations \*\* Preliminary forecast BSW-Solar based on Marktstammdatenregister (commissioning date of the PV unit), as of 10/27/2025; EEG 2023

### Battery storage likely to exceed 25 GWh before the end of 2025

# BSW

2.28 Million battery systems and 24.2 GWh across all segments in 2025Q3

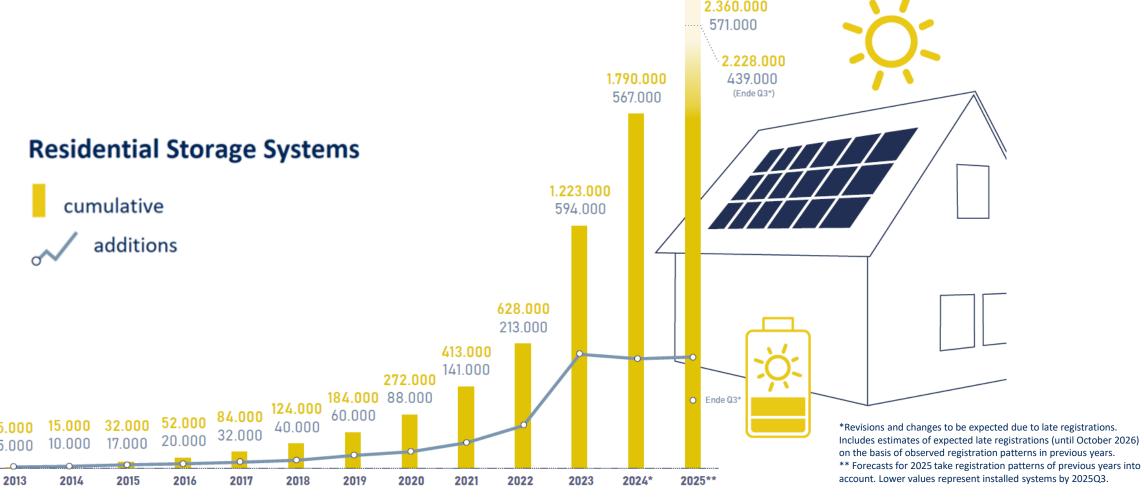


<sup>\*</sup> Revisions to be expected due to delayed reporting. The reported values contain estimates of (late) registrations to be expected until the end of October 2026 based on previous registration patterns. Source: BSW, own estimates based on MaStR as of October 27th, 2025.

# 2.23 Mio. households utilize battery storage by 2025Q3



80% of new residential PV systems installed with batteries



**Source:** BSW-Solar, own calculations based on MaStR as of 10/27/2025.

# Battery capacity additions in 2025: Likely to exceed 6 GWh again



Up to 5.0 GWh over 450,000 systems by Q3 - partly due to mass storage increase

Installed Storage	Small Storage	Residential Storage	<b>C &amp; I Storage</b> (20 – 1,000 kWh)	Mass Storage
Capacity	(≤ 5 kWh)	(5 – 20 kWh)		(> 1,000 kWh)
2024 Q1–Q3 Including late registrations*	approx. 0.33 GWh	approx. 3.41 GWh	approx. 0.38 GWh	approx. 0.44 GWh
2025 Q1-Q3 Including expected late registrations*	approx. 0.41 GWh	approx. 2.94 GWh	approx. 0.51 GWh	up to 1.23 GWh
	+27%	-14%	+34%	up to +180%

<sup>\*</sup>Revisions and changes to be expected due to late registrations. Includes estimates of expected late registrations (until end of October 2026) on the basis of observed registration patterns in previous years. Source: BSW-Solar, own calculations based on MaStR as of 10/27/2025.



# Join us on our path!



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