

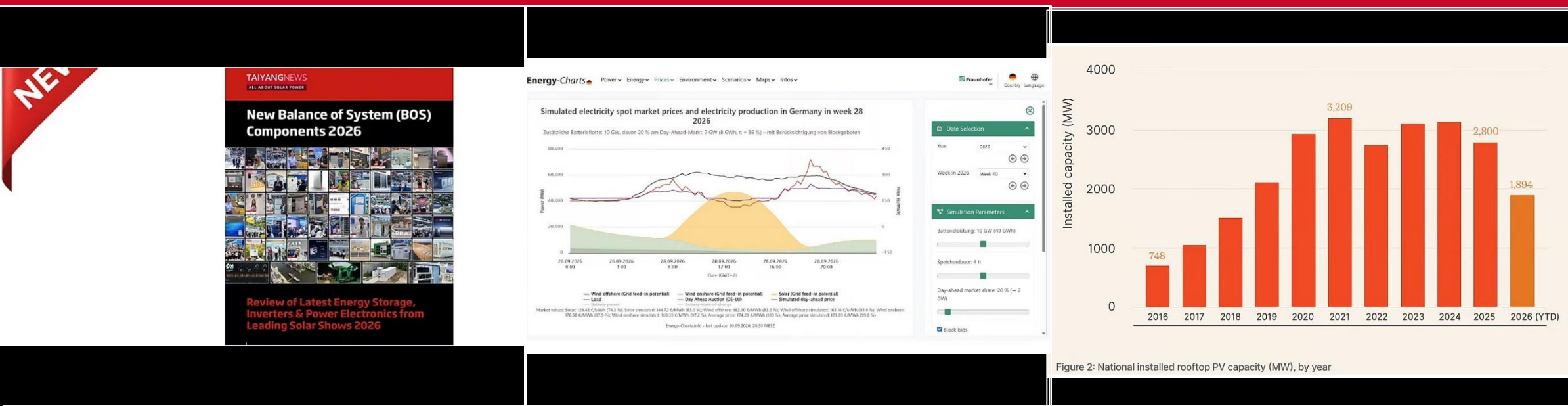
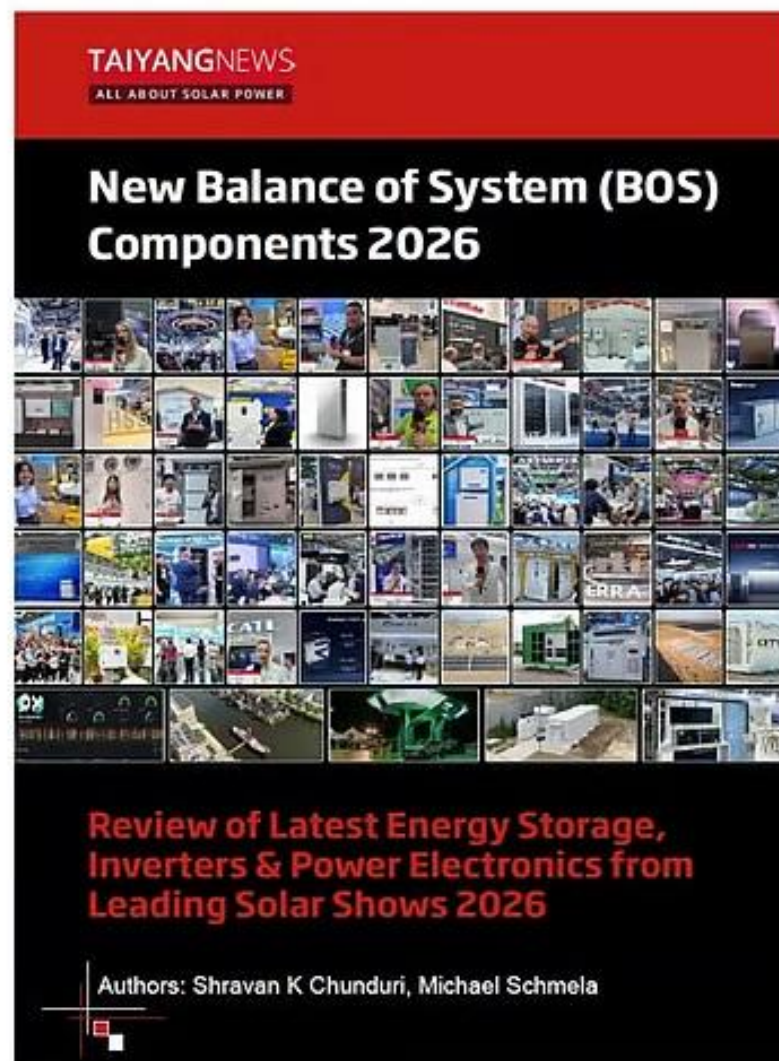


Figure 2: National installed rooftop PV capacity (MW), by year

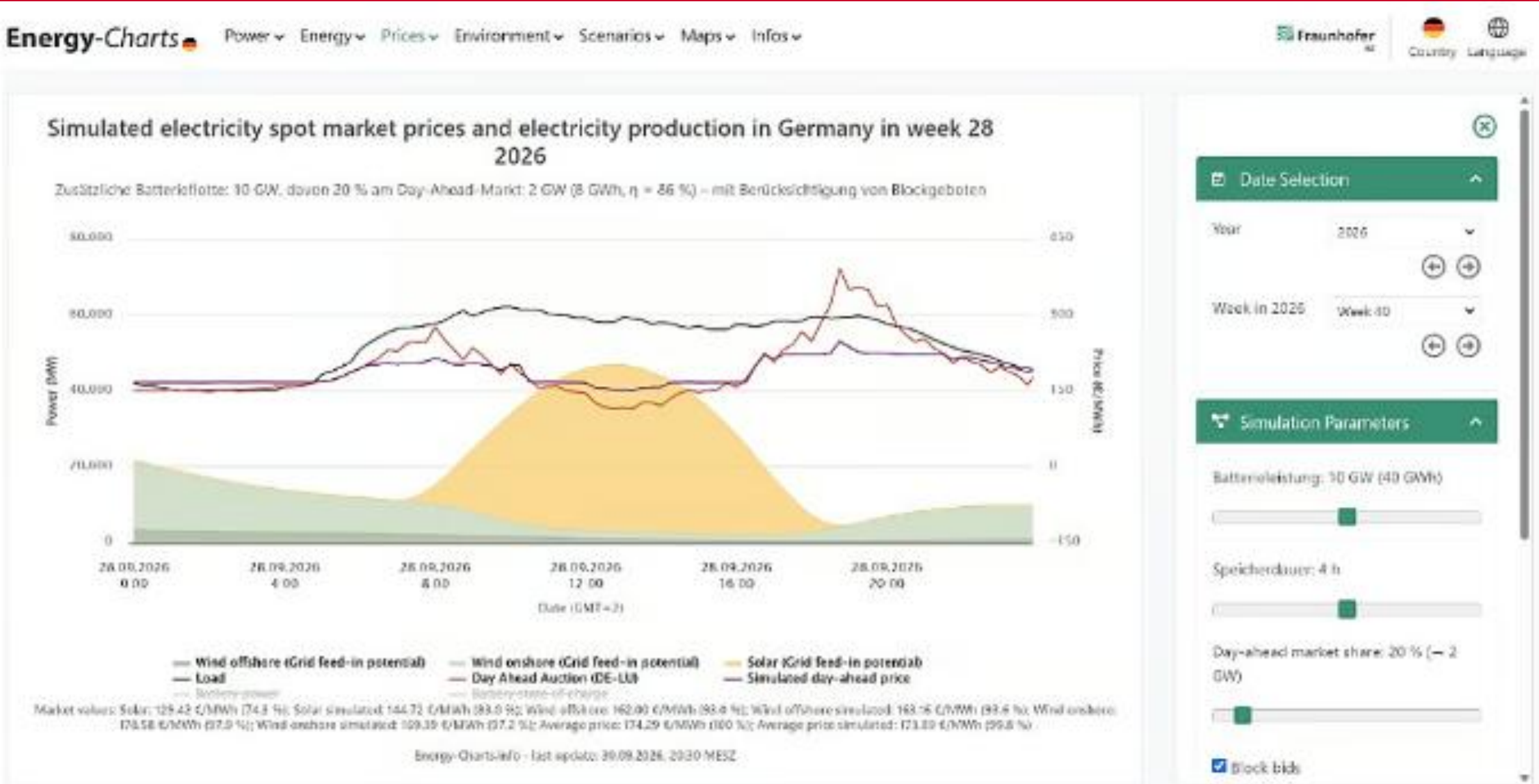
- > New Balance of System (BOS) Components 2026 Report
- > Fraunhofer ISE's New Price Simulator To Assess Battery Impact
- > Australia Adds 'Record' Rooftop Solar, Batteries In H1 2026
- > Global Distributed Solar Installations Reach 282 GW In 2025
- > JA ESS Links Utility-Scale Solar Value To Storage And Flexibility
- > MENA Battery Storage Capacity To Reach 43 GW By 2030

.... & More

NEW



- > **New Balance of System (BOS) Components 2026 Report**
- Energy storage is becoming an integral part of the solar PV ecosystem. While utility-scale battery storage remains the most visible segment, storage is also steadily finding its way into homes and commercial and industrial facilities.
- The TaiyangNews New Balance of System (BOS) Components 2026 report reviews the storage systems and power-electronic components presented at leading solar exhibitions.



> Fraunhofer ISE's New Price Simulator To Assess Battery Impact

- Fraunhofer ISE has launched an online price simulator tool to simulate the impact of battery storage on electricity prices
- The simulator uses German actual day-ahead market bids to model different battery deployment scenarios
- The analysis highlights the potential of battery storage to influence solar's market value

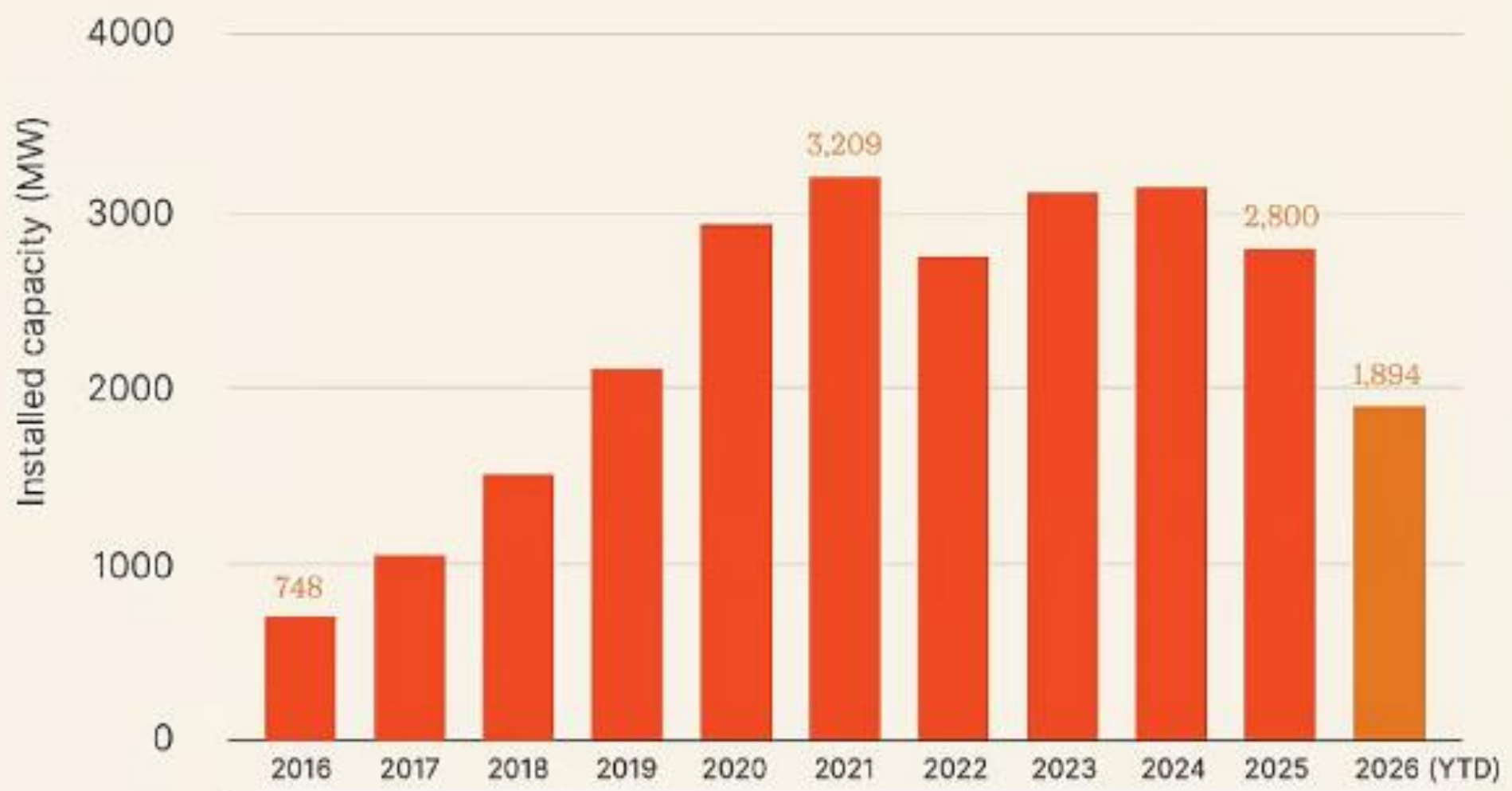


Figure 2: National installed rooftop PV capacity (MW), by year

> **Australia Adds 'Record' Rooftop Solar, Batteries In H1 2026**

- Clean Energy Council says rooftop solar installations rebounded in H1 2026, recording their strongest six-month performance since 2021
- Home battery installations grew faster than solar during the period with 153 batteries installed for every 100 rooftop systems
- The association expects solar and battery capacity to exceed AEMO's 2029-30 projections at current deployment rates

Table 2.4: TOP 10 COUNTRIES FOR DISTRIBUTED PV INSTALLED IN 2025

Country	GW
China	159
Pakistan	14
India	12
Germany	9.2
Brazil	7.9
USA	7.6
France	5.0
Türkiye	4.2
Italy	4.0
Japan	3.5

SOURCE: IEA PVPS

TABLE 2.5: TOP 10 COUNTRIES FOR CUMULATIVE DISTRIBUTED CAPACITY IN 2025

Country	GW
China	533
Germany	83
USA	74
Japan	61
Brazil	43
India	36
Italy	29
Australia	29
Pakistan	29
France	22

SOURCE: IEA PVPS

> Global Distributed Solar Installations Reach 282 GW In 2025

- Global solar PV capacity approached 3 TW after 690 GW of additions in 2025 with distributed solar accounting for 41% share
- Solar PV could generate around 12% of global electricity consumption at current installed capacity, according to IEA PVPS report
- Manufacturing capacity continued to exceed production across key stages of the PV supply chain

From Power Plant to Flexible Energy Asset JA ESS

A three-layer transformation: Physical · Operational · Commercial

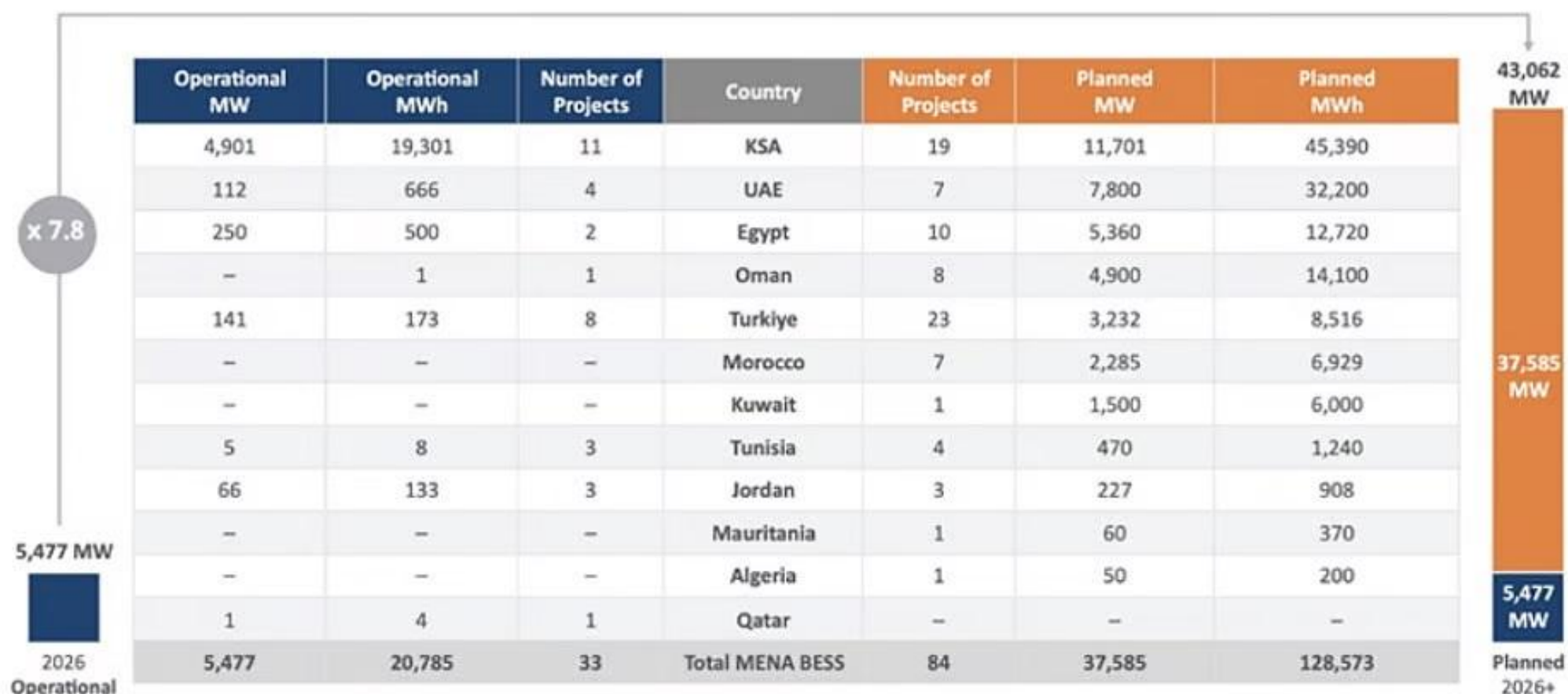
	FROM	TO
PHYSICAL	Solar power plant Generation only	Generate + Store + Connect DC-coupled / AC-coupled · Shared interconnection · Shared substation
OPERATIONAL	One-way export to the grid	Shift + Firm + Respond Curtailment recovery · Peak-hour shifting · Ramp control · Ancillary services · Grid-forming
COMMERCIAL	Single PPA Single revenue stream	Multiple Revenue Streams PPA · Energy arbitrage · Capacity · Ancillary services · Grid services

Speaker : **Gloria Gao**
Marketing Director, JA ESS

TAIYANGNEWS ALL ABOUT SOLAR POWER
TaiyangNews Virtual Conference on Solar & Storage Power Plant Developments
Business Cases for Building Smarter, More Flexible Solar Power Plants
September 17, 2026

> JA ESS Links Utility-Scale Solar Value To Storage And Flexibility

- A low solar LCOE does not guarantee strong returns when grid constraints, midday prices and curtailment reduce project revenues
- Storage can add energy-shifting, capacity and ancillary-service value, but the available revenue stack depends on the market
- JA ESS's 5.015 MWh JAGalaxy BESS uses 314 Ah LFP cells and is rated at 2.508 MW and 0.5P



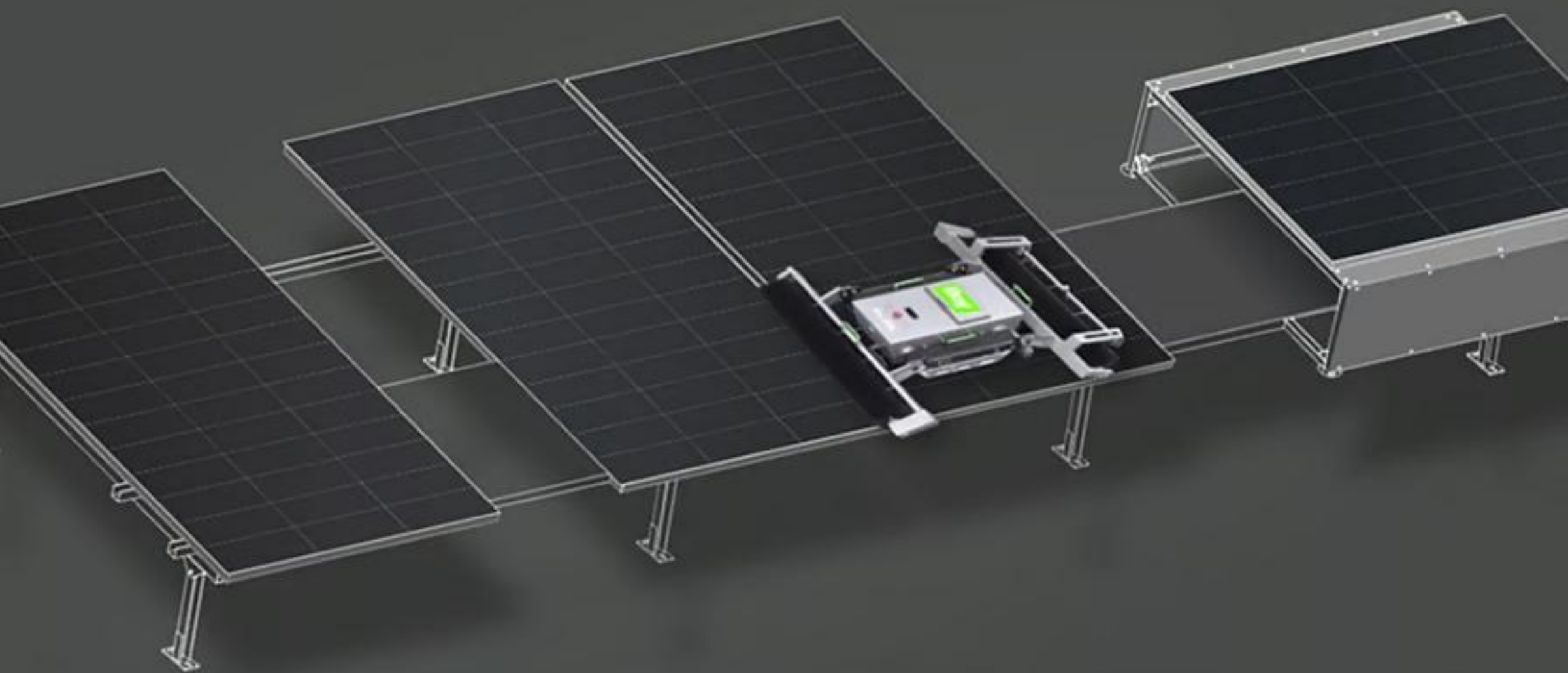
Source: Dii Desert Energy, MENA BESS Projects Tracker (117 projects, 43 GW / 149 GWh as of August 2026).

Figure 3 - MENA BESS Operational Capacity & Projects by Country, August 2026.

Note: "Operational" = projects in operation as of August 2026; "Planned" = projects in tender, planning, development or construction (all with estimated COD 2026 or later).

> MENA Battery Storage Capacity To Reach 43 GW By 2030

- Dii Desert Energy projects MENA's utility-scale battery storage capacity to reach 43 GW by 2030, led by Saudi Arabia
- It sees regulatory maturity and improving project economics as shaping the region's battery storage growth
- Analysts caution the near-total dependence on Chinese battery cells expose MENA to supply and price risks



> **BayRobot Introduces H1 Pro Autonomous PV Cleaning Robot**

- BayRobot's H1 Pro combines autonomous navigation with wired and PV-powered wireless charging
- Ultrasonic, time-of-flight, VCSEL and RTK GNSS sensors support navigation and positioning
- The 23 kg robot operates for up to 4.5 hours per charge and on dry slopes of up to 16°



> **Asia Pacific Solar PV News Snippets:**

- NSW's Solar & Battery Pilot For Social Housing
- Mercury signs PPA for 118 MW NZ solar project
- ESR To Acquire 1.6 GW Aquila Clean Energy APAC Portfolio
- B.Grimm, Siam Piwat sign clean energy MOU
- NexGen signs solar PSA with Marubeni Philippines
- Gamuda wins EPC contract for Australian project
- Lightyears constructing 15 MW Māori Solar Farm.

Online Conference

TaiyangNews Reliable PV Module Design Conference 2026

How to Innovate & Optimize Solar Panel Costs Without Compromising Long-Term Performance



October 15, 2026



09:30 - 13:00 CEST



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> Block Oct 15 | TaiyangNews Reliable PV Module Design Online Conference

The TaiyangNews Reliable PV Module Design 2026 online conference will address a key challenge for the PV industry: how to combine rapid product innovation and continued cost reduction with high quality and long-term reliability.

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