

GW-level solar energy latest



Overview

The world just added a record amount of wind and solar in 2025, and it's not even close. New data from global energy think tank Ember shows that 814 gigawatts (GW) of new solar and wind capacity came online last year, up 17% from 2024's 696 GW. Some regions, like Africa, the United Arab Emirates (UAE) are recently ramping up solar capacity. 7 gigawatts direct current (GWdc) of capacity in Q3 2025, a 20% increase from Q3 2024, a 49% increase from Q2 2025, and the third largest quarter for deployment in the industry's history. The latest additions bring the combined global installed capacity of wind and solar to 4,174 GW (over 4 TW) . China's SDIC subsidiary commissioned a 1 GW photovoltaic plant on the Yalong River in Sichuan, making it the world's third-highest-altitude PV facility at 4,600 m. The project integrates with hydro assets to optimize energy output in the challenging plateau environment.

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The world added a record 814 GW of wind + solar

New data from global energy think tank Ember shows that 814 gigawatts (GW) of new solar and wind capacity came online last year, up 17% from 2024's 696 GW. That brings total global

U.S. developers have 33 GW of safe-harbored solar and wind through

Developers have safe harbored federal tax credits for clean energy projects through 2028, but "very little" capacity is safe-harbored in 2030 and beyond, said a report from PPA



New report: World installed 600 GW of solar in 2024, could be

MUNICH, Germany (Tuesday 6th May 2025): A new report from SolarPower Europe reveals that the world installed a record 597 GW of solar power in 2024 - a 33% surge over 2023.

Today in Energy

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the



Solar Market Insight Report Q4 2025



5 Global Trends Driving the Rise of GW-Scale Solar in 35 Countries

Global solar installations have now surpassed 2.26 TW, with over 47% of capacity added in the past three years, the latest Snapshot of Global PV Markets 2024 report shows. The study



World adds a record-breaking 814 GW of solar and wind in 2025

This 11% year-on-year increase in 2025, following an already strong year in 2024, underscores that solar is playing an ever-larger role in the global power system. By the end of 2025,

Trends in PV Applications 2025

IEA PVPS has released its latest Trends in Photovoltaic Applications 2025 report, revealing that the world's cumulative installed PV capacity surpassed 2 260 GW by the end of 2024, marking a 29%



Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes

China switches on 1 GW of solar at 4,600 m above sea level

China's SDIC subsidiary commissioned a 1 GW photovoltaic plant on the Yalong River in Sichuan, making it the world's third-highest-altitude PV facility at 4,600 m. The project integrates with



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