

Kongres Container

Solar energy 112GW level



Overview

How much solar capacity is there in 2022?

IRENA's Renewable Capacity Statistics 2023 showed that a total of 192GW of solar capacity was installed in 2022, up 22% year-on-year. Last year, renewable generation capacity increased by 295GW (+9.6%), meaning solar capacity accounted for 65.1% of the global renewable power capacity growth.

How many GW will solar power be installed in 2050?

In comparison to the PV installations in 2018 (481 GW), the world's PV installed capacity is projected to increase almost six times by 2030 (to 2841 GW) and almost 18 times by 2050 (to 8519 GW, of which the distributed scale (rooftop) would account for 40% while the remaining 60% would be utility scale).

What is the contribution of solar energy to global electricity production?

While the contribution of solar energy to global electricity production remains generally low at 3.6%, it has firmly established itself among other renewable energy technologies, comprising nearly 31% of the total installed renewable energy capacity in 2022 (IRENA, 2023).

Which country installs the most solar power in 2022?

While China, the US, and Japan are the top three installers, China's relative contribution accounts for nearly 37% of the entire solar installation in 2022. Fig. 1 illustrates the contribution of energy sources to both electricity generation and total installed power capacity by 2050.

What is the global LCOE for solar PV technology?

The presented data indicates that the global weighted-average LCOE for solar PV technology was approximately 0.05 USD/kWh in 2022, projected to further decrease to a range of 0.014–0.05 USD/kWh by 2050. Currently, CSP technology has the highest LCOE at 0.118 USD/kWh among renewables.

How much will solar PV cost in 2022?

The results from IRENA's REmap analysis also indicate that the global weighted-average total installed cost of solar PV projects would reduce from 876 USD/kW in 2022 to an average within 340–834 USD/kW by 2030 and 165–481 USD/kW by 2050. Fig. 3.

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