PIENAAR ENERGY (PTY) LTD

How much solar power generation has increased

Overview

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 and broad social acceptance drive the acceleration in solar PV adoption. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. This amount represents an almost 30% increase from 2024 when 48. 6 GW of capacity was installed, the largest. Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 – double the deployment of the previous five years (2019-2024). Data source: Energy Institute - Statistical Review of World Energy (2025) – Learn more about this data Figures are based on gross generation and do not account for cross-border electricity supply. Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.

How much solar power generation has increased

Annual percentage change in solar energy generation

Percentage change in solar energy generation relative to the previous year. Data source: Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data. Figures ...

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Solar Industry Research Data - SEIA

Solar's share of U.S. electricity generation has risen from less than 0.1% in 2010 to over 8% today. Solar has grown to play an increasing role in many states, now making up more than 20% of electricity ...

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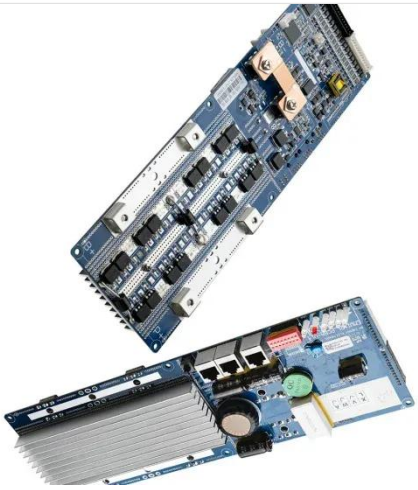

Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar thermal technologies use sunlight to heat water for ...

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How much watts of solar power generation has increased

Innovation in solar technology has been a driving factor behind the increase in wattage generated from solar installations. The progression from conventional crystalline silicon panels to ...

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Renewable electricity - Renewables 2025 - Analysis

Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed ...

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The remarkable rise of solar power

In 2022, the world added more new solar capacity than all other energy sources for electricity combined. Global energy generation from solar photovoltaic (PV) panels, which convert ...

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Record-Breaking Year for Solar Power Generation: New Report ...

Globally, 347 gigawatts (GW) of photovoltaic (PV) capacity were added to power generation in 2023, which has made it a record-breaking year for solar power generation, revealed a ...

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2023's record solar surge explained in six charts

Solar capacity additions surged 74% in 2023, reaching a record 346 GW annual additions. China was the key driver behind the acceleration but solar's phenomenal growth is ...

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Solar, battery storage to lead new U.S. generating capacity additions

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

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