

In 2023, renewable energy globally was on a path of recovery and progress, set against persistent challenges and disparities among technologies and regions.

The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (&lt;1 ...

In the coming decade, solar PV is expected to continue being the largest contributor to global renewable energy installations, reaching a cumulative capacity of more than seven terawatts by...

The world's energy demands in 2050 could be met by an interconnected global solar-wind energy system producing three times the amount of power needed at a lower cost than ...

Here, we demonstrate the potential of a globally interconnected solar-wind system to meet future electricity demands. We estimate that such a system could generate ~3.1 times the ...

Find out how a global solar and wind network could enhance energy security and meet future demand sustainably and economically.

The Global Solar Atlas provides a summary of solar power potential and solar resources globally.

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...

Solar generation reaches new high Global solar power generation rose by 30% in 2024, exceeding 2,000 terawatt-hours (TWh). In absolute terms, solar growth reached 475 TWh, which is ...

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