

The current efficiency of solar power generation



Overview

As of 2024, the world record for solar cell efficiency is 47.6%, set in May 2022 by Fraunhofer ISE, with a III-V four-junction concentrating photovoltaic (CPV) cell.

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[Efficiency and benchmarks for photovoltaic power generation amid](#)

This study analyzes the monthly electricity generation of 249 utility-scale PV power plants in Japan to evaluate their electricity generation efficiency. Applying the generic data envelopment

Solar Cell Efficiency Tables (Version 66)

Consolidated tables showing an extensive listing of the highest independently confirmed efficiencies for solar cells and modules are presented.



Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar

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Solar-cell efficiency

OverviewFactors affecting energy conversion efficiencyComparisonTechnical methods of improving efficiencySee also

Solar-cell efficiency is the portion of energy in

the form of sunlight that can be converted via photovoltaics into electricity by the solar cell. The efficiency of the solar cells used in a photovoltaic system, in combination with latitude and climate, determines the annual energy output of the system. For example, a solar panel with 20% efficiency and an area of 1 m produces 200 kWh/yr at Standa

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