VDB Solar Solutions

Eia solar energy data

Overview

Where is the US EIA headquarters?

The US EIA headquarters in Washington, DC. Image: Library of Congress The US Energy Information Administration (EIA) has published its latest Short-Term Energy Outlook, with the US government body now expecting the contribution of solar power to the US' energy mix to exceed that of hydropower by 2025.

Does EIA 63B disclose company data?

Data collected on both the monthly and annual Form EIA-63B are protected from disclosure of individual company data. As a result of this protection, monthly data are not published in some tables. The tables in this report are: Table 1. U.S. photovoltaic industry status Table 2. Value and average value of photovoltaic module shipments.

How much solar power did the US install in Q1/Q2 2024?

U.S. PV Deployment The International Energy Agency (IEA) reported that the United States installed 15.6 GW ac of solar capacity in in the first quarter (Q1)/second quarter (Q2) of 2024 (the Solar Energy Industries Association reported 21.4 GW dc)—a 55% increase from the record achieved in Q1/Q2 2023.

Where can I find solar resource data?

Explore solar resource data via our online geospatial tools and downloadable maps and data sets. Access our tools to explore solar geospatial data for the contiguous United States and several international regions and countries.

What percentage of electricity is generated by solar?

Nationally, 5.3% of electricity was generated from solar—up from 4.8% during 2022. The roles of utility and distributed solar vary by state. Southern and Western states rely more on utility-scale solar, while northern states and Hawaii rely more on distributed solar. Note: EIA monthly data for 2023 are not

final.

How much solar capacity did the United States add in 2021?

The United States added 13.2 gigawatts (GW) of utility-scale solar capacity in 2021, an annual record and 25% more than the 10.6 GW added in 2020, according to our Annual Electric Generator Report. Additions of utility-scale solar capacity reached a record high, despite project delays, supply chain constraints, and volatile pricing.

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Quarterly Solar Industry Update , Department of Energy

The International Energy Agency (IEA) reported that the United States installed 15.6 GW ac of solar capacity in in the first quarter (Q1)/second quarter (Q2) of 2024 (the Solar ...

[Global overview - Renewables 2024 - Analysis]

Renewables 2024 - Analysis and key findings. A report by the International Energy Agency. In 2030, variable renewables account for two-thirds of global renewable electricity generation, rising from less than 45% today. Over the forecast period, the share of solar PV

[Integrating Solar and Wind - Analysis]

This report calls for strategic government action, enhanced infrastructure, and regulatory reforms to ensure the successful large-scale integration of solar PV and wind in order to meet global energy transition targets. Robust data, stakeholder collaboration and

Solar Energy Data

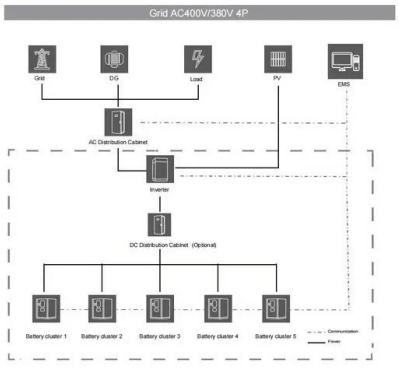
International Energy Agency Sites Other International Solar Sites Country Solar Sites Solar Energy Data Solar Heat Worldwide Solar Thermal Water Collectors - Bar Chart Race Solar thermal capacity installed - Bar Chart Race M2 to KWth Calculation Method

Renewable Energy Progress Tracker - Data Tools

Renewables 2024 includes this dynamic data dashboard which enables users to explore historical data and forecasts for all sectors and technologies. The associated Renewables 2024 dataset gives full access to all of the data available in this dashboard for the Renewables 2024 forecast, plus additional premium data for all sectors and technologies, including ...

Total Energy Monthly Data

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Beginning with the September 2023 Monthly Energy Review (MER), we updated the way we calculate primary energy consumption of electricity generation from

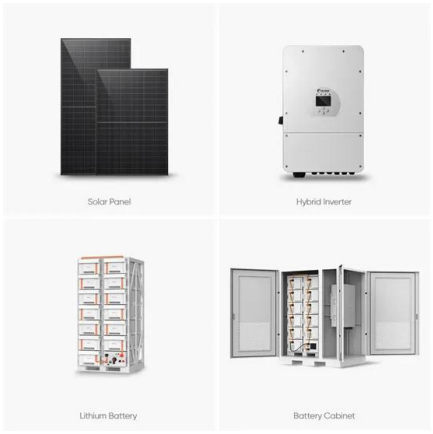


India

Energy demand is set to grow rapidly in India, with major impacts on the global energy sector. Investments in generation and grid are required to provide universal electricity supply. The role of renewables within the country's energy mix is growing, alon

[U.S. Energy Information Administration]

EIA expects two years of significant growth in solar electric generation in the United States The U.S. Energy Information Administration (EIA) expects solar electric generation will account for 7% of total U.S. electricity generation in 2025, up from 4% in 2023

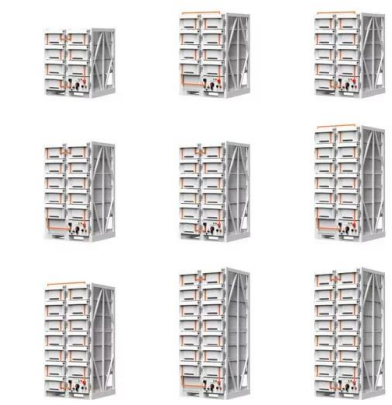


Final 2023 EIA and FERC reports underscore solar's ...

A review by the SUN DAY Campaign of four reports released in December by the Federal Energy Regulatory Commission (FERC) and the US Energy Information Administration (EIA) reveals that solar has grown faster in ...

Executive summary - Renewables 2024 - Analysis

In our main case, renewables will account for almost half of global electricity generation by 2030, with the share of wind and solar PV doubling to 30%. At the end of this decade, solar PV is set to become the largest renewable source, surpassing both wind and hydropower, which is currently the largest renewable generation source by far.



Energy Technology Perspectives 2024 - Analysis

The global market value for the key six mass-manufactured clean energy technologies - solar PV, wind, electric vehicles (EVs), batteries, electrolysers and heat pumps - grew nearly fourfold between 2015 and 2023, when it surpassed USD 700 billion, or around

[Solar Energy Perspectives - Analysis]

In 90 minutes, enough sunlight strikes the earth to provide the entire planet's energy needs for one year. While solar energy is abundant, it represents a tiny fraction of the world's current energy mix. But this is changing rapidly and is being driven by global action to

Record numbers of solar panels were shipped in the United ...

U.S. shipments of solar photovoltaic (PV) modules (solar panels) rose to a record electricity-generating capacity of 28.8 million peak kilowatts (kW) in 2021, from 21.8 million peak kW in 2020, based on data from our Annual Photovoltaic Module Shipments Report..

Global installed solar PV capacity by scenario, 2010-2030

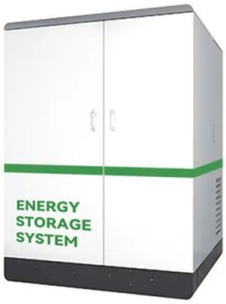
Global installed solar PV capacity by scenario, 2010-2030 - Chart and data by the International Energy Agency. About News Events Programmes Help centre Skip navigation Energy system Explore the energy system by fuel, technology or sector Fossil Fuels

U.S. Energy Atlas

Discover, analyze and download data from U.S. Energy Atlas. Download in CSV, KML, Zip, GeoJSON, GeoTIFF or PNG. Find API links for GeoServices, WMS, and WFS. Analyze with charts and thematic maps. Take the next step and create StoryMaps and Web

Renewable Energy Progress Tracker - Data Tools

Renewable Energy Progress Tracker - Data tools. A data tool by the International Energy Agency. Renewables 2024 includes this dynamic data dashboard which enables users to explore historical data and forecasts for all sectors and technologies.



Opendata

The U.S. Energy Information Administration is committed to its free and open data by making it available through an Application Programming Interface (API) and its open data tools. EIA's API is multi-facetted and contains the following time-series data sets

Energy Statistics Data Browser - Data Tools

Energy End-uses and Efficiency Indicators Annual data from 2000 covering end-use energy consumption, now featuring end-use carbon emissions for the IEA member countries and beyond. The data is updated twice a year, at the end of each semesters.

Snapshot 2024

The global PV cumulative capacity grew to 1.6 TW in 2023, up from 1.2 TW in 2022, with from 407.3 GW to 446 GW of new PV systems commissioned - and in the order of an estimated 150 GW of modules in inventories across the world. ...

Solar and battery storage to make up 81% of new U.S. electric

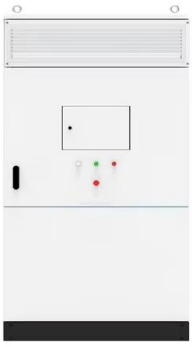
Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Developers and power plant owners plan to add 62.8 gigawatts (GW) of new utility-scale electric-generating capacity in 2024, according to our latest Preliminary Monthly Electric Generator Inventory..

Solar explained

Solar thermal (heat) energy A solar oven (a box for collecting and absorbing sunlight) is an example of a simple solar energy collection device. In the 1830s, British astronomer John Herschel used a solar oven to cook food during an expedition to Africa. People now

[Electricity - Renewables 2023 - Analysis]

Renewable electricity capacity additions reached an estimated 507 GW in 2023, almost 50% higher than in 2022, with continuous policy support in more than 130 countries spurring a significant change in the global growth trend. This worldwide acceleration in 2023



Renewables

Renewables, including solar, wind, hydropower, biofuels and others, are at the centre of the transition to less carbon-intensive and more sustainable energy systems. Generation capacity has grown rapidly in recent years, driven by ...

Solar and wind to lead growth of U.S. power generation for

In our latest Short-Term Energy Outlook, we forecast that wind and solar energy will lead growth in U.S. power generation for the next two years. As a result of new solar projects coming on line this year, we forecast that U.S. solar power generation will grow 75% from 163 billion kilowatthours (kWh) in 2023 to 286 billion kWh in 2025.

Solar

Solar energy is the conversion of sunlight into usable energy forms. Solar photovoltaics (PV), Explore and compare real-time data on electricity demand, generation and spot prices, trade, and CO2 emissions from more than 50 sources Data explorer

Solar Resource Data, Tools, and Maps , Geospatial Data Science ...

View an interactive map or download geospatial data on solar photovoltaic supply curves. These solar maps provide average daily total solar resource information on grid cells.

U.S. Energy Information Administration

The U.S. Energy Information Administration (EIA) expects solar electric generation will account for 7% of total U.S. electricity generation in 2025, up from 4% in 2023, ...

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Data and statistics

The IEA collects, assesses and disseminates energy statistics on supply and demand, compiled into energy balances. In addition, the Energy Data Centre has developed a number of other key energy-related indicators, including energy prices, public RD& D and

US EIA expects solar to account for 5.6% of energy ...

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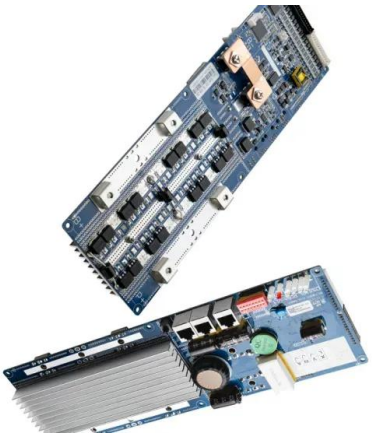

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