Solar power generation peak record query

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 is the global power generation dataset?

The dataset includes daily and hourly power generation data from fossil fuels (coal, natural gas, and oil), nuclear, hydro, wind, solar, geothermal, biomass, and other renewables for 37 countries, which covers around 70% of the global power production and 68% of global power-related CO_2 emissions.

Which geospatial data is best for field-scale solar PV and wind installations?

Two final datasets were produced that represent the best publicly available global,harmonizedgeospatial data for field-scale solar PV and wind installations (Fig. 5). We provide vector data (point and polygon) for grouped installations (more than two features; Methods),in Eckert IV equal area projection.

How has solar energy generating capacity changed since 2009?

Photovoltaic (PV) solar energy generating capacity has grown by 41 per cent per yearsince 2009 [1]. Energy system projections that mitigate climate change and aid universal energy access show a nearly ten-fold increase in PV solar energy generating capacity by 2040 [2,3].

What is a solar forecasting dataset?

The dataset contains the following two levels of data which distinguishes it from most of the existing open-sourced solar forecasting datasets and makes it especially suitable for deep-learning-based solar forecasting research:

What is the difference between solar energy generation and installed solar capacity?

Solar energy generation,measured in gigawatt-hours (GWh) versus installed solar capacity,measured in gigawatts (GW).

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