

Solar data





Overview

What is a solar resource database?

It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a simple electricity output calculation for any location covered by the solar resource database.

What is Solargis data?

Solargis data is available for past, present, and future periods and is updated in real time. We can meet your energy assessment needs from project conception to routine daily management. Our team has more than 20 years of experience in solar resource assessment and PV energy modeling.

Can on-site solar and wind generation data be used for forecasting?

Solar and wind generation data from on-site sources are beneficial for the development of data-driven forecasting models. In this paper, an open dataset consisting of data collected from on-site renewable energy stations, including six wind farms and eight solar stations in China, is provided.

Is Solargis a reliable solar database?

Multiple independent studies have confirmed Solargis to be the most reliable solar database. Quality of our data can be transparently verified at any location. Our methodologies are peer-reviewed and published. Solargis data and services are available for 99% of the world's population and cover a 30-year history.

What is high-resolution Solargis data?

High-resolution data (250 m spatial resolution and 1-min or 15-min temporal resolution) better represents typical and extreme weather and improve the accuracy of solar energy simulations. Solargis data has been validated at more than 1500 public and commercial locations globally, and the model



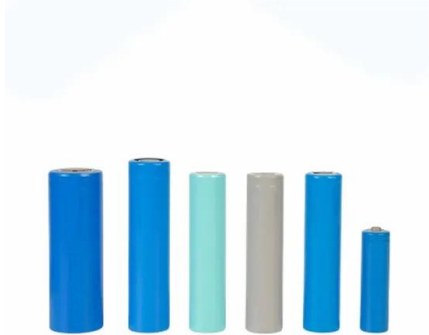
validation is systematically expanding.

Who needs a solar power plant software solution?

PV power plant developers, operators, and other solar industry stakeholders need accurate data, an industry-specific software solution, and consultancy support to achieve the best possible results throughout the entire PV plant's lifecycle. We cover all three.



Solar data



Global Solar Atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the ...

[Solar Data - The sun is power!](#)

Solar Data models for simulation of energy yield are based on recommendation from expert organizations including NREL, IRENA and others. Fast and up-to-date Immediate results based on the most recent satellite and on-site data, updated on a daily basis.



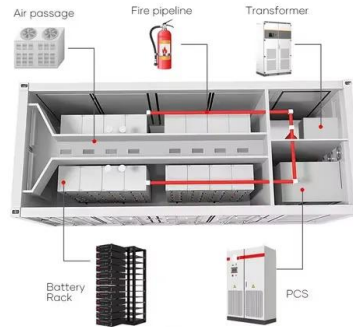
Homepage , NOAA / NWS Space Weather Prediction ...

Space Weather Conditions. HF Radio: Weak or minor degradation of HF radio communication on sunlit side, occasional loss of radio contact. Navigation: Low-frequency navigation signals degraded for brief ...



ISA

Welcome to ISA's Solar Data Portal - a comprehensive hub that brings together data and tools to support stakeholders across the solar energy ecosystem. With our intuitive interface and powerful tools, harness the full potential of solar energy and join ...



Solar resource maps & GIS data for 200+ countries , Solargis

The largest collection of free solar radiation maps. Download maps of GHI, DNI, and PV output power potential for various countries, continents and regions. The map and data products on this page are licensed under the Creative Commons Attribution license (CC BY-SA 4.0).

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[International Solar Alliance](#)

The Solar Data Portal provides quick access to solar data such as - Access to Electricity, Emissions Targets, Financing, Gender & Employment, Technology, and Infrastructure. It features user-friendly interactive maps, icons, charts along with search and download functionalities.





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

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



[Solar Data Services , NCEI](#)

Miscellaneous Solar Data We are interested in the sun because of the many influences it has on our lives and our environment. Aside from the many aspects of purely scientific research, there are numerous environmental influences caused by the sun. Beyond



Data sources

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a



Solargis apps

Solar data, weather data, maps and online software for solar energy systems. Site selection, planning, monitoring and performance assessment of solar power plants. Poster size solar radiation maps. Online access to: high-resolution solar data, other meteo data,





Solar Resource Data and Tools , Grid Modernization , NREL

Spectral Solar Radiation Data Base Provides spectral solar radiation data for several U.S. sites for 1986-1988. WEST Associates Solar Monitoring Network Provides solar resource data for 52 stations in six Western U.S. states for 1976-1980.



Solargis apps

Solar data, weather data, maps and online software for solar energy systems. Site selection, planning, monitoring and performance assessment of solar power plants. Poster size solar radiation maps. Home Purchase Support Legal info Contact Online access to:

[Hong Kong Observatory Open Data](#)

Provide regional weather in Hong Kong - the latest 1-minute global solar radiation and direct solar radiation and diffuse radiation (the data provided is provisional) Regional weather in Hong Kong - the latest 1-minute mean grass temperature from 5:00 ...



[Global Solar Power Tracker](#)

The Global Solar Power Tracker is a worldwide dataset of utility-scale solar photovoltaic (PV) and solar thermal facilities. It covers all operating solar farm phases with capacities of 1 megawatt (MW) or more and all announced, pre-construction, construction, and shelved projects with capacities greater than 20 MW. Some data are also included for plants that ... Continued



Solar and wind power data from the Chinese State Grid

Solar and wind generation data from on-site sources are beneficial for the development of data-driven forecasting models. In this paper, an open dataset consisting of ...



Solar-Data

Solar-Data-kommunales Energiemanagement
Herzlich willkommen auf unserer Internetseite zum kommunalen Energiemanagement! Das Programm E58 ist speziell für Kommunen und öffentliche Einrichtungen entwickelt worden, um eine effiziente und nachhaltige Verwaltung ihres Energieverbrauchs zu ermöglichen.

Solar power generation

"Data Page: Electricity generation from solar power", part of the following publication: Hannah Ritchie, Pablo Rosado and Max Roser (2023) - "Energy". Data adapted from Ember, Energy Institute.



Latest data

Science data Solar Orbiter Archive (Access) Solar Orbiter Archive (How To) SOOPs summary Data tutorials Coordination Coordination with External Parties Pro/Am Campaigns October 2022 campaign Science Nuggets Publications ...



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Home Page

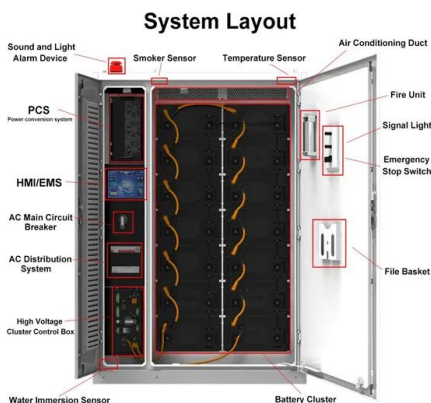
The National Solar Observatory is a data-driven research institution dedicated to providing scientists with critical information needed to drive new research. Learn More We Provide years of data NSO provides massive amounts of data to the world's top solar



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FLEXIBLE SETTING OF MULTIPLE WORKING MODES



NASA POWER , Prediction Of Worldwide Energy ...

Provides solar and meteorological data sets from NASA research for support of renewable energy, building energy efficiency and agricultural needs. About the POWER Project NASA's goal in Earth science is to observe, understand, and ...



The U.S. Large-Scale Solar Photovoltaic Database

The United States Large-Scale Solar Photovoltaic Database (USPVDB) provides the locations and array boundaries of U.S. ground-mounted photovoltaic (PV) facilities with capacity of 1 megawatt or more. It includes corresponding PV facility information The



Global Solar Atlas

Global data representing the solar resource and PV power potential has been calculated by Solargis, and released in the form of consistent high-resolution data layers. To set the scene, we characterize the long-term energy availability of solar resource at any .

[Live Solar Irradiance Data . Solcast\(TM\)](#)

Solcast solar irradiance data have been found to have a mean bias of +0.33%, ±2.47% Std Dev. and RMSE 15.99%! And similar results globally and across climate zones. The level of accuracy is achieved through the usage of high quality input data, processes



LPSB48V400H
48V or 51.2V



Photovoltaic Geographical Information System (PVGIS)

PVGIS is a free web application that allows the user to get data on solar radiation and photovoltaic system energy production, in most parts of the world. Skip to main content en Select your language Close bg ?????????? es español cs cestina da dansk de et el





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