



# Solar energy database

The Renewable Energy Wildlife Institute (REWI) was awarded funding through the U.S. Department of Energy Solar Energy Technologies Office (DE-EE0010381) to design and construct the SolSource Database - a data-sharing infrastructure that will adapt to the emerging needs of solar energy and natural resource stakeholders.

Visit our Solar Energy Research Database. Learn more about SETO's solar energy research. Office of Energy Efficiency & Renewable Energy. Office of Energy Efficiency & Renewable Energy Forrestal Building 1000 Independence Avenue, SW Washington, DC 20585. [Facebook](#) [Twitter](#) [Linkedin](#).

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.

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.

For example, development of the Surface Meteorological and Solar Energy (SSE) climatological resource database needed by the photovoltaic and renewable energy industries, was especially targeted ...

The NSRDB (Sengupta et al., 2018) is a high temporal and spatial resolution dataset consisting of the three most widely used measurements of solar radiation--global horizontal, direct normal, ...

Solar Energy Research Database Learn more about active SETO-funded projects at national laboratories, state and local governments, universities, nonprofit organizations, and private companies. [VIEW MORE Blog Posts](#) [VIEW ALL](#). Why Over \$40 ...

Collaboration between Berkeley Lab and USGS produces the most detailed and comprehensive publicly available large-scale solar facility database to date. ... (USPVDB) today. The USPVDB is a detailed and comprehensive dataset of ground-mounted large-scale solar (LSS) photovoltaic energy facility locations and their attributes in the United States

consumption ~21.45 Crores No. of Electrified Households (under SAUBHAGYA scheme) Per Capita Electricity Consumption State (As on Mar'23) Highest: Dadra and Nagar Haveli and Daman and Diu 8,870 kWh Lowest: Bihar 348 kWh Maharashtra Top Electricity Consuming State (FY 23) Highest Electricity Consumption Share 41.2% Industry Sector (incl. captive) 24.5% ...

August 2018 Renewable Energy Planning Database published. 15 August 2018. July 2018 Renewable Energy Planning Database published. 7 August 2018. June 2018 Renewable Energy Planning Database published.



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Solar for All Visualizes U.S. rooftop solar technical potential by income, building type, and tenure occupancy in the residential sector. Tribal Energy Atlas Explore techno-economic renewable energy potential on tribal lands. International Data. National Solar Radiation Database: International Data

For the UK, the Renewable Energy Planning Database (REPD) is a key source of open data, including details such as capacity, installation date, and approximate location, though it only covers ...

NSRDB: National Solar Radiation Database. Meteorological, global horizontal, direct normal, and diffuse horizontal irradiance solar data. ... Models the flow of mass and energy in the PV industry. PV Module Soiling Map. Soiling parameters of fielded PV panels at 124 locations across the United States. PV TOMCAT.

National Solar Radiation Database The National Solar Radiation Database (NSRDB) can be accessed from NREL's high-performance computing system. The NSRDB provides time-series data at 30-minute resolution of resource averaged over surface cells of 0.038 degrees in both latitude and longitude, or nominally 4 kilometer (km) in size.

There are more than 7,290 major solar projects currently in the database, representing over 257 GWdc of capacity. There are over 1,040 major energy storage projects currently in the database, representing more than 43,650 MWh of capacity. The list shows that there are more than 140 GWdc of major solar projects currently operating. There remains an ...

consumption ~21.45 Crores No. of Electrified Households (under SAUBHAGYA scheme) Per Capita Electricity Consumption State (As on Mar'23) Highest: Dadra and Nagar Haveli and Daman and Diu 8,870 kWh Lowest: Bihar 348 kWh ...

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 ...

Access to Modern Energy Cooking Services: Players and Initiatives database. Renewable energy. SOLAR PV FORECASTING TOOL. Clean Cooking. Clean Cooking Planning Tool. Solar. Solar PV + Storage. Wind. Global Wind Atlas. Solar. Global Solar Atlas. Policies and plans. Regulatory Indicators for Sustainable Energy (RISE)

The National Solar Radiation Database (NSRDB) is an extensive collection of solar radiation data used by solar planners and designers, building architects and engineers, renewable energy analysts, and experts in many other disciplines and professions.

Features data on the highest confirmed efficiencies for PV modules of various technologies. Meteorological, global horizontal, direct normal, and diffuse horizontal irradiance solar data. Models time-series bifacial PV irradiance and electrical data. Models the flow of mass and energy in the PV industry.



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Renewable Energy Materials Properties Database: Identifies the type, quantity, source, and other properties of materials used by solar power technologies ... Techno-economic solar energy potential on U.S. Tribal lands Concentrating Solar Power, Photovoltaics, CSP, PV: WEST Associates Solar Monitoring Network: 1970s data for 52 U.S. stations in ...

Solar energy is the conversion of sunlight into usable energy forms. Solar photovoltaics (PV), solar thermal electricity and solar heating and cooling are well established solar technologies. ... ETP Clean Energy Technology Guide. Interactive database of nearly 600 individual technology designs and components across the whole energy system that ...

Easily calculate solar energy potential and visualize it with PVGIS mapping tool. Empower your solar projects with accurate data insights and precision. ... (USA), providing the NSRDB solar radiation database to PVGIS. Time range: 2005-2015. In addition, there is a worldwide reanalysis database: PVGIS-ERA5 (0.25° x 0.25°): The latest global ...

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.

See our active projects in the map and database table below. You can sort the projects by program area, funding opportunity, and state on the left. In the table, you can sort and filter the projects in additional ways. Click on the project title ...

The National Solar Radiation Database (NSRDB) is a serially complete collection of meteorological and solar irradiance data sets for the United States and a growing list of international locations for 1998-2017. The NSRDB provides foundational information to support U.S. Department of Energy programs, research, and the general public. The NSRDB provides ...

In this Perovskite Database Project, we have created an open-access database for perovskite solar cell device data and visualization tools for interactive data exploration, and we have populated ...

Solar Energy Research Database. Solar Energy Resources Solar Energy Resources. Solar Energy for Consumers ... (Q2) of 2024 (the Solar Energy Industries Association reported 21.4 GW dc)--a 55% increase from the record achieved in Q1/Q2 2023. The residential PV market shrank significantly in the first half of 2024, hurt by California's Net ...

A serially complete collection of hourly and half-hourly values of meteorological data and the three most common measurements of solar radiation: global horizontal, direct normal and diffuse horizontal irradiance. It covers the United States and a growing subset of international locations.



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Access to Modern Energy Cooking Services: Players and Initiatives database. Renewable energy. SOLAR PV FORECASTING TOOL. Clean Cooking. Clean Cooking Planning Tool. Solar. Solar PV + Storage. Wind. Global Wind Atlas. ...

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