

Solar power generation standards by region



Overview

Find and download resource map images and data for North America, the contiguous United States, Canada, Mexico, and Central America. All data and visualizations on Our World in Data rely on data sourced from one or several original data providers. Preparing this original data involves several processing steps. Depending on the data, this can include standardizing country names and world region definitions, converting units. A renewable energy certificate (REC) is a market-based instrument that represents the property rights to the environmental, social, and other non-power attributes of renewable electricity generation. Solar RECs (SRECs) are created for each megawatt-hour of electricity generated from solar energy. Twenty-five states and the District of Columbia require electric utilities to deliver a certain amount of electricity from renewable or other clean electricity sources. Eleven states have requirements or goals that have expired, have not been re-upped, or have been repealed. We are excited to share a new report that closely examines the diversity of siting and. Explore solar resource data via our online geospatial tools and downloadable maps and data sets.

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 LFP 280Ah C&I

Global Solar Atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally.

Solar Supply Curves , Geospatial Data Science , NLR

This data has now been collected into one centralized, machine-readable database of solar siting ordinances throughout the United States at the state, county, township, and city levels.



U.S. State Electricity Portfolio Standards

Six states have voluntary electricity goals, which generally lack enforcement mechanisms, unlike states with legally binding standards. Some states have multiple, legally binding standards. For example, ...

Policies and Regulations , US EPA

There is a patchwork of federal, state, and local policies and regulations pertaining to renewable energy systems that impact your project development. It is important to understand the ...



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.

Siting Clean Energy: An Inventory of State Policies and Permitting

New report and interactive map provide a detailed look at the diversity of renewable energy siting and permitting regulations and processes across the United States, profiling all 50 ...

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Policies and Regulations , US EPA

State Solar Carve-Out Programs
Solar Interconnection Standards & Policies
Understanding Electricity Market Frameworks & Policies
Interconnection standards define how a distributed



generation system, such as solar photovoltaics (PVs), can connect to the grid. In some areas of the United States, the interconnection process lacks consistent parameters and procedures for connecting to the grid or is unnecessarily complex. This drives up costs and causes delays, which can be sign See more on epa.gov/c2es

U.S. State Electricity Portfolio Standards - Center for ...

Six states have voluntary electricity goals, which generally lack enforcement mechanisms, unlike states with legally binding standards. Some states have multiple, ...

Solar energy generation by region

About this data Electricity generation from solar power Figures are based on gross generation and do not account for cross-border electricity supply.



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

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Central America. Solar Supply Curves
View an ...

Codes and Standards

The safe and reliable installation of photovoltaic (PV) solar energy systems and their integration with the nation's electric grid requires timely development of the foundational codes and standards governing ...



U.S. Renewable Energy Portfolio Standards by State & Region

These mandates, often incorporating specific targets for various renewable technologies like solar, wind, hydro, and biomass, establish a framework for increasing renewable energy generation within ...

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