

NREL develops data sets, maps, models, tools, and software for the analysis and development of renewable energy and energy efficiency technologies. Many of these resources are offered publicly to support the transition to a clean energy future. Explore the collections below to find data and tools for your own use.

o Data: renewable energy resource data and related GIS data o Analysis: analytical methods and models. Although the topics are interrelated, the guide is generally organized by the type of renewable energy decisions the reader might be trying ...

The Prediction Of Worldwide Energy Resources (POWER) project was initiated to improve upon the current renewable energy data set and to create new data sets from new satellite systems. The POWER project targets three user communities: (1) Renewable Energy, (2) Sustainable Buildings, and (3) Agroclimatology.

Electricity production from renewable sources, excluding hydroelectric (kWh) Electricity production from nuclear sources (% of total) Access to electricity, urban (% of urban population)

Renewable energy (or green energy) is energy from renewable natural resources that are replenished on a human timescale. ... (no data is available for 2000-2003). [183] As of 2022, an estimated 28% of the world's electricity was generated ...

Primary energy consumption from wind; Renewable and nuclear energy: direct vs. substituted energy; Renewable electricity generation Stacked area chart; Renewable electricity-generating capacity per person; Renewable energy consumption; Renewable energy generation Line chart; Renewable energy investment; Share of electricity production from ...

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 ...

A few points to note about this data: Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal energy. Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important energy source in lower-income settings.

The data in these Fast Facts do not reflect two important renewable energy resources: traditional biomass, which is widespread but difficult to measure; and energy efficiency, a critical strategy for reducing energy consumption while maintaining the same energy services and quality of life.

Renewable energy consumption (% of total final energy consumption) - Indonesia from The World Bank: Data. Free and open access to global development data. Data. This page in: English; Espa#241;ol; Fran#231;ais;

Renewables on the rise For the 760 million people in the world who lack access to electricity, the introduction of modern clean energy solutions can enable vital services such as improved healthcare, better education, and internet access, thus creating new jobs, improving livelihoods, and reducing poverty. Driven by the global energy crisis and policy momentum, renewable ...

In 2022, renewable energy supply from solar, wind, hydro, geothermal and ocean rose by close to 8%, meaning that the share of these technologies in total global energy supply increased by close to 0.4 percentage points, reaching 5.5%. ... Explore electricity, heat and renewable fuels data from Renewables 2024 and renewables ambitions by 2030 ...

At least 29 U.S. states have set renewable portfolio standards--policies that mandate a certain percentage of energy from renewable sources, More than 100 cities worldwide now boast at least 70 ...

Renewable energy is defined as the contribution of renewables to total primary energy supply (TPES). ... Interact with policy simulators and indexes for data analysis. OECD Data explorer. Find, understand, and use the data you need. Featured data Climate action dashboard.

Use, download and buy global energy data. Data explorers. Understand and manipulate data with easy to use explorers and trackers. Data sets ... Renewable energy consumption in the power, heat and transport sectors increases near 60% over 2024-2030 in our main-case forecast. This increase boosts the share of renewables in final energy ...

U.S. total energy statistics. Data for 2023, except where noted. 1 Note: sum of share of totals below may not equal 100% because of ... Natural gas: 38%; Petroleum (crude oil and natural gas plant liquids) 34%; Coal: 11%; Renewable energy: 8%; Nuclear electric power: 8%; Total primary energy consumption 93.59 quadrillion Btu; By fuel/energy ...

In addition, a ground-breaking study by the US Department of Energy's National Renewable Energy Laboratory (NREL) explored the feasibility of generating 80 percent of the country's electricity from renewable sources by 2050. They found that renewable energy could help reduce the electricity sector's emissions by approximately 81 percent .

In 2020, renewable energy sources (including wind, hydroelectric, solar, biomass, and geothermal energy) generated a record 834 billion kilowatthours (kWh) of electricity, or about 21% of all the electricity generated in the United States. Only natural gas (1,617 billion kWh) produced more electricity than renewables in the United States in 2020. . Renewables ...

The investment data is presented in millions of United States dollars (USD million) at 2020 prices. Data on renewable power capacity represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity ...

6 days ago; In 2023, renewable energy consumption reached roughly 8.2 quadrillion British thermal units. The United States is expected to continue increasing its renewable energy consumption in the following ...

Renewable energy can play an important role in U.S. energy security and in reducing greenhouse gas emissions. Using renewable energy can help to reduce energy imports and fossil fuel use, the largest source of U.S. carbon dioxide emissions. According to projections in the Annual Energy Outlook 2023 Reference case, U.S. renewable energy consumption will ...

The first Renewable Energy Directive (RED) was the most important legislation influencing the growth of renewable energy in the European Union (EU) and Ireland for the decade ending in 2020. From 2021, RED was replaced by the second Renewable Energy Directive (REDII), which continues to promote the growth of renewable energy out to 2030.

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