

The Renewables 2024 report, the IEA's flagship annual publication on the sector, finds that the world is set to add more than 5 500 gigawatts (GW) of new renewable energy ...

This can be confusing, and make comparisons difficult. So at Our World in Data we try to maintain consistency by converting all energy data to watt-hours. We do this to compare energy data across different metrics and sources. ... A few points to note about this data: Renewable energy here is the sum of hydropower, wind, solar, geothermal ...

More information on energy access and sources can be found at the Our World in Data topic page on Energy. ... This is measured as consumption of renewable energy - which includes solar, wind, geothermal, hydropower, bioenergy, and marine sources - as a share of final energy consumption. Final energy consumption is defined as the total ...

Renewable energy generation Line chart; Solar energy generation vs. capacity; Chart 1 of 4. Sources and processing. ... 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 ...

Annual change in renewable energy generation; Annual change in solar and wind energy generation; Annual change in solar energy generation; ... Licenses: All visualizations, data, and articles produced by Our World in Data are open access under the Creative Commons BY license. You have permission to use, distribute, and reproduce these in any ...

1 day ago; South Africa is certainly not a world leader when it comes to renewables, with sources such as wind, solar and hydropower comprising just 3.94% of its primary power in 2023 - ...

Energy Institute - Statistical Review of World Energy (2024) - with major processing by Our World in Data. "Primary energy consumption from renewables - Using the substitution method" [dataset]. Energy Institute, "Statistical Review of ...

Renewable electricity production is growing quickly, mostly thanks to the deployment of solar and wind. Ember has just published its latest Global Electricity Review, which includes final updates on electricity generation ...

Primary energy consumption from wind; Renewable and nuclear energy: direct vs. substituted energy; Renewable electricity-generating capacity per person; Renewable energy consumption; Renewable energy generation Line chart; ...

Renewable electricity production is growing quickly, mostly thanks to the deployment of solar and wind. Ember has just published its latest Global Electricity Review, which includes final updates on electricity generation worldwide in 2023. We have updated our Energy Data Explorer with all of this data.. As the chart shows, renewables produced just over 30% of ...

Renewable energy statistics 2024 provides datasets on power-generation capacity for 2014-2023, actual power generation for 2014-2022 and renewable energy balances for over 150 countries and areas for 2021-2022.

Share of electricity generated by renewables. Ember and Energy Institute. Measured as a percentage of total electricity. Source. Ember (2024); Energy Institute - Statistical Review of World Energy (2024) - with major ...

International Renewable Energy Agency (2023) - processed by Our World in Data. "Global installed renewable energy capacity by technology" [dataset]. International Renewable Energy Agency, "Renewable Electricity Capacity and Generation Statistics" [original data].

The world faces two energy problems: most of our energy still produces greenhouse gas emissions, and hundreds of millions lack access to energy. Our World in Data. ... On Our World in Data my colleague Hannah Ritchie has looked into a related question and also found that the highest emissions are concentrated among a relatively small share ...

Modern renewable energy generation by source; Chart 1 of 2. Sources and processing. This data is based on the following sources. ... 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 ...

As the world attempts to transition its energy systems away from fossil fuels towards low-carbon energy sources, we have a range of energy options: renewable energy technologies such as hydropower, wind, and solar, as well as nuclear power. Nuclear energy and renewable technologies typically emit very little CO₂ per unit of energy production and are also much ...

The chart below shows the percentage of global electricity production that comes from nuclear or renewable energy, such as solar, wind, hydropower, wind and tidal, and some biomass. ... All visualizations, data, and code produced by Our ...

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