# Global renewable energy statistics

Global renewable energy auction results by region, 2019-2023 Open. Renewables overtake coal in early 2025 to become the largest energy source for electricity generation globally. By 2028, potential renewable electricity generation is expected to reach 14 430 TWh, an increase of almost 70% from 2022. Over the next five years, several renewable ...

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 ...

Highlighting the continued progress achieved in the global energy transition, this latest edition of IRENA"s Renewable capacity statistics illustrates the growth of renewables in new installed power generation capacity in 2023. By the end of 2023, renewables accounted for 4 3% of global installed power capacity. Yet, as we draw

Renewable energy (or green energy) is energy from renewable natural resources that are replenished on a human timescale. The most widely used renewable energy types are solar energy, wind power, and hydropower. ... and comprised 54% of global renewable energy investment in 2019. [195]

We rely on Ember as the primary source of electricity data. While the Energy Institute (EI) provides primary energy (not just electricity) consumption data and it provides a longer time-series (dating back to 1965) than Ember (which only dates back to 1990), EI does not provide data for all countries or for all sources of electricity (for example, only Ember provides ...

The International Renewable Energy Agency (IRENA) produces comprehensive statistics on a range of topics related to renewable energy. This publication presents renewable power generation capacity statistics for the past decade (2013-2023) in trilingual tables. See the latest Renewable Capacity Highlights.

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 consumption to nearly 20% by 2030, up from 13% in 2023. ... Global renewable heat consumption is expected to grow more than 50% (15 EJ) during 2024-2030 ...

Global aviation demand, energy efficiency and CO? emissions; Global direct primary energy consumption; Global fossil fuel consumption; Global hydropower consumption; Global installed renewable energy capacity by technology; Global primary energy consumption by source Line chart; Hydropower generation; Hydropower generation by region

Renewable Energy Statistics 2020 provides data sets on power-generation capacity for 2010-2019, actual

power generation for 2010-2018 and renewable energy balances for over 130 countries and areas for 2017-2018. Data was obtained from a variety of sources, including an IRENA questionnaire, official national statistics, industry association ...

Renewables Information. Annual time series on renewables and waste production, supply and consumption for OECD and non-OECD countries. The service is updated twice a year: in April with complete data for OECD and selected countries up to year-2 and in July/August with data for the World through year-2 and additional provisional data for OECD and selected ...

Global annual renewable capacity additions increased by almost 50% to nearly 510 gigawatts (GW) in 2023, the fastest growth rate in the past two decades. This is the 22nd year in a row that renewable capacity additions set a new record.

Since these fuels remain more expensive than their fossil counterparts, their share in global energy is set to remain below 6% in 2030. The report also looks at the state of manufacturing for renewable technologies. Global solar manufacturing capacity is expected to surpass 1 100 GW by the end of 2024, more than double projected demand.

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. Globally, more than a third of our electricity comes from low-carbon sources.

Use, download and buy global energy data. Data explorers. Understand and manipulate data with easy to use explorers and trackers. Data sets ... This edition of the IEA"s annual Renewables market report provides forecasts for the deployment of renewable energy technologies in electricity, transport and heat to 2030, while also exploring key ...

The Renewables 2021 Global Status Report is the worldwide reference document for the market, policy, and technology trends in renewable energy for 2020. Crowdsourced from hundreds of contributors from industry, NGOs, governments, and academia across the world, this year"s report raises a fundamental question: what is holding the world back from using the COVID-19 crisis ...

3 Key Facts to Know About Renewable Energy . Iceland is the world leader, with 87% of its energy generated from renewable sources; followed by Norway and Sweden. Nearly 75% of global greenhouse gas emissions come from burning fossil fuels for energy. Renewable energy is increasing but still only makes up about 4% of total global energy ...

As the global energy transition enters a new phase, our Global Energy Perspective 2024 presents a data-driven view of the possible road ahead. (41 pages) While significant progress has been made in the nine years since the landmark Paris Agreement, the global energy transition is entering a new phase, marked by rising costs, complexity, and ...

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Use, download and buy global energy data. Data explorers. Understand and manipulate data with easy to use explorers and trackers. Data sets ... Renewables 2022 also examines key developments and trends for the sector, including the more ambitious renewable energy targets recently proposed by the European Union; the issue of windfall profits ...

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Renewable Supply and Demand. Renewable energy is the fastest-growing energy source globally and in the United States. Globally: About 11.2 percent of the energy consumed globally for heating, power, and transportation came from modern renewables in 2019 (i.e., biomass, geothermal, solar, hydro, wind, and biofuels), up from 8.7 percent a decade prior (see figure ...

The International Renewable Energy Agency (IRENA) is an intergovernmental organisation supporting countries in their transition to a sustainable energy future. ENERGY TRANSITION. ... Constructing a ranking of critical materials for the global energy transition. This report, produced in conjunction with the Norwegian Institute of International ...

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 ...

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Furthermore, 85% of global renewable energy investment benefitted less than 50% of the world"s population and Africa accounted for only 1% of additional capacity in 2022 (IRENA, 2023a; IRENA and CPI, 2023). Investments in off-grid renewable energy solutions in 2021 amounted to USD 0.5 billion (IRENA and CPI, 2023) - far below the USD 15 ...

The COP28 climate talks called for a tripling of renewable energy capacity and doubling energy efficiency improvements by 2030. The World Economic Forum"s Better Community Engagement for a Just Energy Transition: A C-Suite Guide, highlights the need to ensure a people-positive approach to deploying renewable energy.

Renewable energy has so far been the energy source most resilient to Covid-19 lockdown measures. Renewable electricity has been largely unaffected while demand has fallen for other uses of renewable energy. In Q1 2020, global use of renewable energy in all sectors increased by about 1.5% relative to Q1 2019.

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Global renewables growth set to outpace current government goals for 2030. Global renewable capacity is expected to grow by 2.7 times by 2030, surpassing countries" current ambitions by ...

In Energy 62, 341-348. IRENA 2020 for all data on renewable sources; Lazard for the price of electricity from nuclear and coal - IAEA for nuclear capacity and the Global Energy Monitor for coal capacity.

Renewables are on track to set new records in 2021. Renewable electricity generation in 2021 is set to expand by more than 8% to reach 8 300 TWh, the fastest year-on-year growth since the ...

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