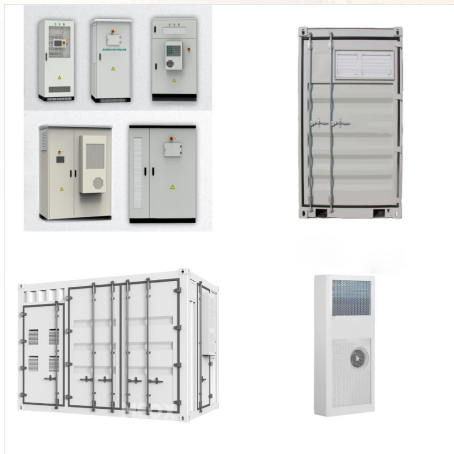




Measured as a percentage of total electricity.  
Source. Ember (2024); Energy Institute June 2025.  
Date range. 1985???2023. Unit % Related research  
and writing. Renewable Energy. Hannah Ritchie,  
Max Roser and Pablo Rosado. Electricity Mix.  
Hannah Ritchie and Pablo Rosado. Global  
renewables are growing, but have been partly offset  
by a decline



Nebraska's renewable energy production. Nebraska  
produced 12,252 thousand megawatt hours of  
electricity using renewable energy sources. That  
made up 31.2% of its total electricity, which ranked  
13th.



What role does renewable energy play in the United  
States? Until the mid-1800s, wood was the source  
of nearly all the nation's energy needs for heating,  
cooking, and lighting. From the late 1800s until  
today, fossil fuels???coal, petroleum, and natural  
gas???have been the primary sources of energy.  
Hydropower and wood were the most used

# PERCENTAGE OF RENEWABLE ENERGY IN US



Wind energy was the source of about 10% of total U.S. utility-scale electricity generation and accounted for 48% of the electricity generation from renewable sources in 2023. Wind turbines convert wind energy into electricity. Hydropower (conventional) plants produced about 6% of total U.S. utility-scale electricity generation and accounted for about 27% of utility ???



Hydropower is energy in moving water. People have a long history of using the force of water flowing in streams and rivers to produce mechanical energy. Hydropower was one of the first sources of energy used for electricity generation, and until 2019, hydropower was the leading source of total annual U.S. renewable electricity generation.

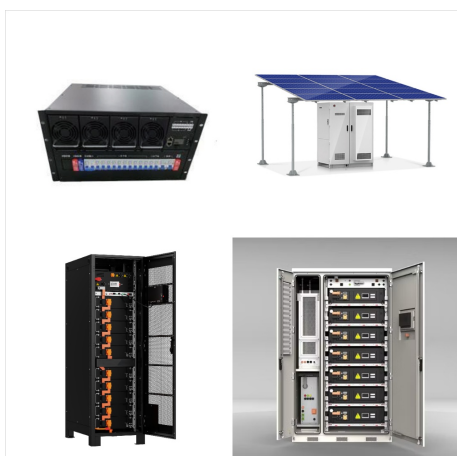


In 2020, renewable energy sources (including wind, hydroelectric, solar, biomass, and geothermal energy) generated a record 834 billion kilowatthours (kWh) of electricity, or about 21% of all the electricity generated ???

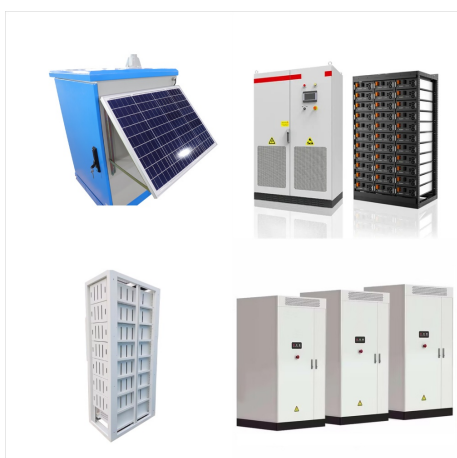
# PERCENTAGE OF RENEWABLE ENERGY IN US



Renewable energy use increased 3% in 2020 as demand for all other fuels declined. The primary driver was an almost 7% growth in electricity generation from renewable sources. China alone should account for almost half of the global increase in renewable electricity in 2021, followed by the United States, the European Union and India



How much of U.S. energy production and consumption comes from renewable energy sources? Total energy 102.83 Quads 93.59 Quads Renewables 8.43 Quads 8.24 Quads Percent of total 8% 9%: Data source: U.S. Electricity Generation, Capacity, and Sales in the United States Historical data on U.S. primary energy production and



Wind and solar output are up 18 percent through Nov. 20 compared to the same time last year and have grown 58 percent compared to 2019, according to the U.S. Energy Information Administration.

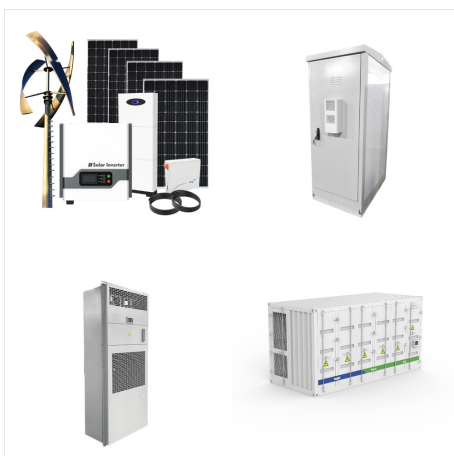
# PERCENTAGE OF RENEWABLE ENERGY IN US



In 2020, consumption of renewable energy in the United States grew for the fifth year in a row, reaching a record high of 11.6 quadrillion British thermal units (Btu), or 12% of total U.S. energy consumption.



In our Annual Energy Outlook 2022 (AEO2022) Reference case, which reflects current laws and regulations, we project that the share of U.S. power generation from renewables will increase from 21% in 2021 to 44% in 2050. This increase in renewable energy mainly consists of new wind and solar power. The contribution of hydropower remains largely unchanged ???



Renewable energy from solar panels and wind turbines is increasingly important in the United States, (as a percentage), we compared electricity capacity/generation for utility-scale solar and



# PERCENTAGE OF RENEWABLE ENERGY IN US



In 2023, about 60% of U.S. utility-scale electricity generation was produced from fossil fuels (coal, natural gas, and petroleum), about 19% was from nuclear energy, and about 21% was from renewable energy sources. The percentage shares of utility-scale net electricity generation by major energy sources in 2023 were: 1; Natural gas 43.1%



to 2024, renewables would rise from 24 percent to 26 percent of U.S. electricity generation; coal's share would drop from 18 percent to 17 percent; gas would remain the leader but drop



In 2019, consumption of renewable energy in the United States grew for the fourth year in a row, reaching a record 11.5 quadrillion British thermal units (Btu), or 11% of total U.S. energy consumption. accounted for about 9% of U.S. renewable energy consumption in 2019 and had the largest percentage growth among renewable sources in 2019

# PERCENTAGE OF RENEWABLE ENERGY IN US



Renewable energy is a collective term used to capture several different energy sources. "Renewables" typically include hydropower, solar, wind, geothermal, biomass, and wave and tidal energy. This interactive map shows the share of primary energy that comes from renewables (the sum of all renewable energy technologies) across the world.



In 2019, natural gas had the largest share (38 percent) in U.S. electricity generation, coal had the second-largest share (23 percent), and nuclear had the third largest (20 percent). Renewable energy sources contribute to about 17 percent of U.S. electricity production at utility-scale facilities.



Renewable energy generation as a percentage of total U.S. electricity generation remained unchanged???17.6% (741 TWh) in 2018. This latest edition includes a new section on the voluntary procurement of renewable energy in the United States; in total, some 966,000 customers procured 9.6 million megawatt-hours of renewable electricity through

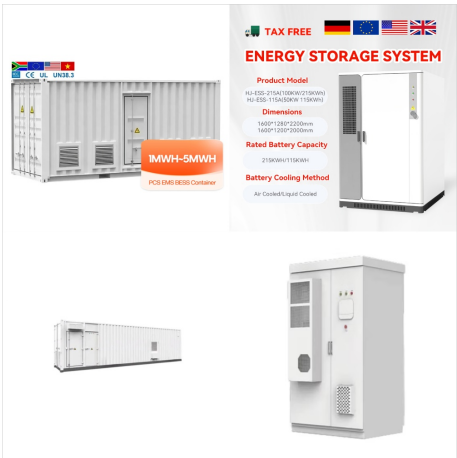
# PERCENTAGE OF RENEWABLE ENERGY IN US



OverviewPolicyRationale for renewablesRenewable energy and carbon dioxide emissionsCurrent trendsFuture projectionsRenewable electricity sourcesSolar water heating



United States: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. The line chart shows the percentage of total energy supplied by each source. Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and



Renewable energy provided 10 percent, or 425 billion kilowatthours (kWh) of electricity in 2010, out of a U.S. total of 4,120 billion kWh (Table 3). 3 U.S. total net generation increased by 4 percent, while renewable generation increased just 2 percent between 2009 and 2010. Renewable generation would have been higher, but for a net decrease of

# PERCENTAGE OF RENEWABLE ENERGY IN US



Renewable energy generates over 20% of all U.S. electricity, and that percentage continues to grow. The following graphic breaks down the shares of total electricity production in 2023 among the types of renewable power: In 2022, ???



This is a list of U.S. states by total electricity generation, percent of generation that is renewable, total renewable generation, percent of total domestic renewable generation, [1] and carbon ???



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. The investment data is presented in millions of United States dollars (USD million) at 2021 prices.



# PERCENTAGE OF RENEWABLE ENERGY IN US



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. The ???



This is a list of U.S. states by total electricity generation, percent of generation that is renewable, total renewable generation, percent of total domestic renewable generation, [1] and carbon intensity in 2022. [2] The largest renewable electricity source was wind, which has exceeded hydro since 2019. [3]



82% of U.S. energy comes from fossil fuels, 8.7% from nuclear, and 8.8% from renewable sources. In 2023, renewables surpassed coal in energy generation. 1. Wind and solar are the fastest growing renewable sources, but contribute less ???

# PERCENTAGE OF RENEWABLE ENERGY IN US



Renewable energy sources are growing quickly and will play a vital role in tackling climate change. The first chart shows this as a stacked area chart, which allows us to more readily see the breakdown of the renewable mix and the relative contribution of each. The second chart is shown as a line chart, allowing us to see more clearly how



The United States uses a lot of energy ??? trailing only China, solar power has experienced the largest percentage growth of any U.S. energy source. Solar generated just over 2 billion kilowatt-hours of electricity in 2008. solar accounted for only 1% of the nation's total energy production in 2018. The biggest renewable energy source