

Renewable Energy Market Trends & Research Insights by 2030

Renewable Energy Market is projected to grow at a CAGR of 8.4% from 2021 to 2030.

OREGON, PORTLAND, UNITED STATES,
May 12, 2023 /EINPresswire.com/ --

The global [renewable energy market](#) size was valued at \$881.7 billion in 2020, and is projected to reach \$1,977.6 billion by 2030, growing at a CAGR of 8.4% from 2021 to 2030.

Renewable energy refers to any energy source that is replenished by natural processes and can be used repeatedly without depleting its supply. Unlike non-renewable sources of energy such as fossil fuels, renewable energy sources are sustainable and have a lower impact on the environment.

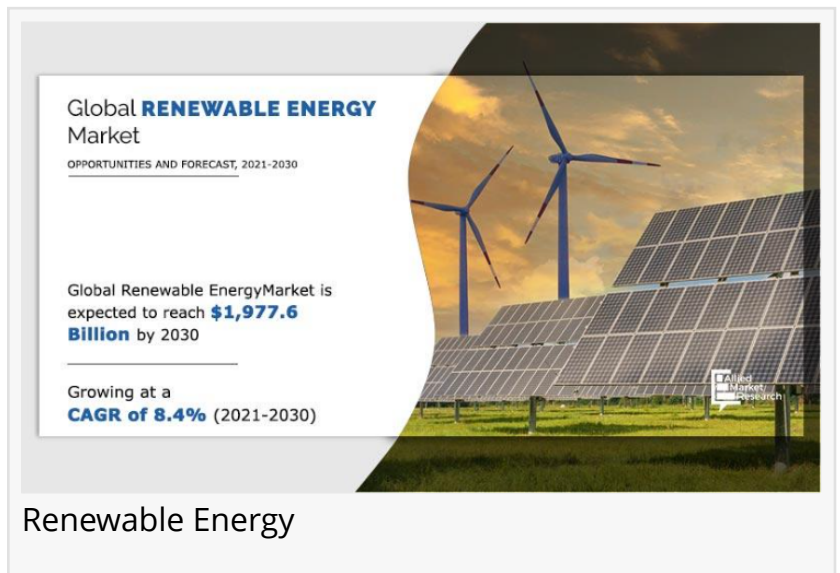
There are several types of renewable energy sources, including:

Solar Energy: This refers to the energy that is generated by capturing sunlight and converting it into electricity using solar panels. Solar energy is clean, abundant, and can be used to power homes, businesses, and even entire cities.

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Wind Energy: This refers to the energy that is generated by harnessing the power of wind turbines. Wind energy is clean and abundant, and can be used to generate electricity for homes and businesses.

Hydro Energy: This refers to the energy that is generated by harnessing the power of water through hydroelectric power plants. Hydro energy is a clean and renewable source of energy that can be used to generate electricity for homes and businesses.



Geothermal Energy: This refers to the energy that is generated by harnessing the heat from the earth's core. Geothermal energy is a clean and renewable source of energy that can be used to generate electricity and heat homes and buildings.

Biomass Energy: This refers to the energy that is generated by burning organic materials such as wood, crops, and waste. Biomass energy is a renewable source of energy that can be used to generate electricity and heat homes and businesses.

Europe accounted for 35.5% of renewable energy market share in 2020, in terms of revenue, growing at a CAGR of 8.4%.

Key players operating in the global renewable energy market include ABB, Acciona, EDF, Enel Spa, General Electric, Innergex, Invenergy, National Grid Renewables, The Tata Power Company Limited (Tata Power), and Xcel Energy Inc.

The renewable energy market has grown considerably in countries such as China and India. China is one of the key players in hydropower, onshore, wind power and solar photovoltaic, and became the world's largest producer of bioelectricity in 2017.

The solar energy segment is estimated to display the highest growth rate, in terms of revenue, registering a CAGR of 13.3% from 2021 to 2030.

The industrial end use is anticipated to register the highest CAGR of 8.9% during the forecast period.

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Renewable energy is derived from natural resources such as wind, solar, biomass, and geothermal that are constantly replenished.

The Asia-Pacific renewable energy market growth is projected to grow at the highest CAGR during the forecast period, owing to rise in industrialization as well as increase in population.

Wind energy, a type of renewable energy, is used to generate electric energy from kinetic energy source. Wind turbine converts the wind energy into mechanical energy, which is further converted into electrical energy through generator.

Wind energy can be generated at offshore and onshore. Onshore wind energy is associated with onshore turbines that are located on land, whereas offshore wind turbines are found in ocean or sea.

The concern about the reduction of greenhouse gases emissions, increase in search for energy

security along with the aversion to the traditional nuclear power, and the lack of progression in the application of the nuclear power are expected to drive the demand for geothermal power sector which further escalates the demand for renewable energy market during the forecast period.

According to the International Energy Agency, the share of renewable energy to meet the global energy demand is predicted to grow in the next five years to reach 12.4% in 2023. Renewable energy is derived from natural processes such as wind and sunlight.

Renewable energy is utilized in heating, electricity, cooling, and transport sectors. Renewable energy collectively provides around 7% of the world's energy demands.

Several factors are responsible to drive the usage of renewable energies, the most crucial being the attribution of global warming due to carbon dioxide (CO₂) emission from the combustion of fossil fuels.

However, developing new resources requires large initial investments to build infrastructure. These investments increase the cost of providing electricity, especially during early years.

COVID-19 analysis

The novel coronavirus is an incomparable global pandemic that has spread to over 180 countries and caused huge losses of lives and the economy around the globe.

The COVID-19 pandemic severely impacted the wind turbine manufacturing in countries such as China and Germany. For instance, in 2020, Germany's Nordex SE reported negative EBITDA of \$86.5 million down from positive EBITDA of \$21 million in previous financial year (2019).

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