



Renewable energy, usable energy derived from replenishable sources such as the Sun (solar energy), wind (wind power), rivers (hydroelectric power), hot springs (geothermal energy), tides (tidal power), and biomass (biofuels).



In this interactive chart, we see the share of primary energy consumption that came from renewable technologies ??? the combination of hydropower, solar, wind, geothermal, wave, tidal, and modern biofuels. Traditional biomass ??? which can be an important energy source in lower-income settings is not included.



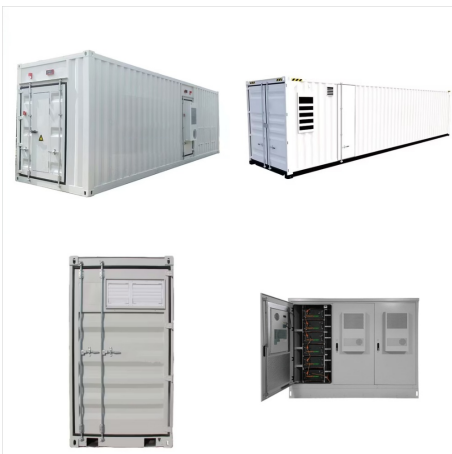
alternative energy, Any of various renewable power sources to use in place of fossil fuels and uranium. Fusion devices (see nuclear fusion) are believed by some to be the best long-term option, because their primary energy source would be deuterium, abundant in ordinary water.



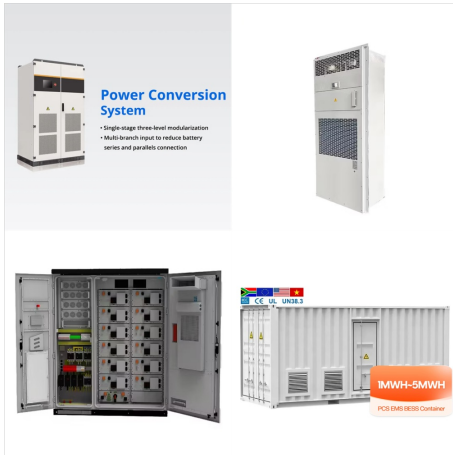
The best alternatives to fossil fuels are those that are also renewable. Solar power, wind power, hydroelectric power, tidal, and wave energy are all renewable and clean sources of energy. Biomass and biofuels can be good sources of alternative energy, but only if they're produced responsibly.



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 continue to ???



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 renewable energy resources until the 1990s. Since then, U.S. energy consumption from biofuels, geothermal energy, solar energy, and wind energy have increased.



Renewable energy sources, such as biomass, the heat in the earth's crust, sunlight, water, and wind, are natural resources that can be converted into several types of clean, usable energy: Bioenergy. Geothermal Energy. Hydrogen and Other Renewable Fuels. Hydropower.



In this interactive chart, we see the share of primary energy consumption that came from renewable technologies ??? the combination of hydropower, solar, wind, geothermal, wave, tidal, and modern biofuels. Traditional biomass ??? which can be an important energy source in lower-income settings is not included.



Renewable energy sources, such as biomass, the heat in the earth's crust, sunlight, water, and wind, are natural resources that can be converted into several types of clean, usable energy: Bioenergy. Geothermal Energy. ???