



All sources of renewable energy

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Renewable energy comes from unlimited, naturally replenished resources, such as the sun, tides, and wind. Renewable energy can be used for electricity generation, space and water heating and cooling, and transportation.

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:

Learn more about the advantages of wind energy, solar energy, bioenergy, geothermal energy, hydropower, and marine energy, and how the U.S. Department of Energy is working to modernize the power grid and increase renewable energy production.

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 2022 among the types of renewable power:

The United States is a resource-rich country with enough renewable energy resources to generate more than 100 times the amount of electricity Americans use each year. Learn more about renewable energy potential in the United States.

The U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) has three core divisions: Renewable Energy, Sustainable Transportation and Fuels, and Buildings and Industry. The Renewable Energy pillar comprises four technology offices:

EERE offers funding for renewable energy research and development, as well as programs that support the siting of renewable energy, connection of renewable energy to the grid, and community-led energy projects. Find open funding opportunities and learn how to apply for funding.

Homeowners and renters can use clean energy at home by buying green power, installing renewable energy systems to generate electricity, or using renewable resources for water and space heating and cooling.

You may be eligible for federal and state tax credits if you install a renewable energy system in your home. Visit ENERGY STAR to learn about federal renewable energy tax credits for homeowners. For information on state incentives, visit the Database of State Incentives for Renewables and Efficiency.

EERE is dedicated to building a clean energy economy, which means millions of new jobs in construction, manufacturing, and many other industries. Learn more about job opportunities in renewable energy:

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