

# **United States energy supply system**





## Overview

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The United States is the world's second-largest producer and consumer of electricity. It generates 15% of the world's electricity supply, about half as much as China. The United States produced 3,988 TWh in 2021. Total generation has been flat since 2010. Net electricity imports were 39 TWh, or about 1% of sales. Histori.



## United States energy supply system

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### U.S. Energy Supply and Use: Background and Policy Primer

The United States has access to a wide range of energy sources, including fossil fuels (e.g., coal, petroleum, and natural gas), nuclear, and renewables (e.g., wind, solar, hydropower, geothermal, biomass). In addition, increases in energy efficiency have allowed the United States to produce

### United States

Energy supply. Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country. Some of these energy ...



### Our Energy System -- The National Academies

Want to understand the basics of America's current energy situation? The National Academies, advisers to the nation on science, engineering, and medicine, provides objective information about the United States' current energy sources and uses, as well as a ...

### U.S. Energy in the 21st Century: A Primer

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petroleum, and natural gas), nuclear, and renewables (e.g., wind, solar, hydropower, geothermal, biomass). In addition, increases in energy efficiency have allowed the United States to consume less energy over time, extending existing supplies.



### U.S. Energy System Factsheet

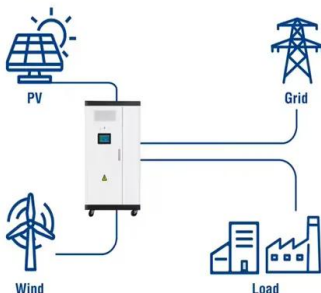
In 2022, U.S. consumers spent \$1.7T on energy, or 6.7% of GDP. 1 Annual energy costs were \$5,159 per person, a 30% increase from 2021. 1 Energy production and consumption contribute to global climate change, acid rain, hazardous air pollution, smog, radioactive waste, and habitat destruction. 2 Heavy reliance on fossil fuels poses a major

### Electricity generation, capacity, and sales in the United States

Energy storage facilities generally use more electricity than they generate and have negative net generation. At the end of 2023, the United States had 1,189,492 MW--or about 1.19 billion kW--of total utility-scale electricity-generation capacity.



#### Utility-Scale ESS solutions



### United States

Energy supply. Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country. Some of these energy sources are used directly while most are transformed into fuels or electricity for final consumption.



## United States

Energy system of United States The United States introduced major energy and climate policy reforms which put the country on a path towards a clean, secure and affordable energy system for a net zero economy.

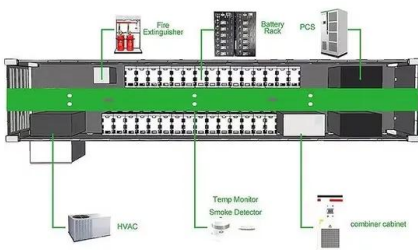


## Energy in the United States

Energy in the United States is obtained from a diverse portfolio of sources, although the majority came from fossil fuels in 2023, as 38% of the nation's energy originated from petroleum, 36% from natural gas, and 9% from coal.

## Electricity in the U.S.

The United States uses many different energy sources and technologies to generate electricity. The sources and technologies have changed over time, and some are used more than others. The three major categories of energy for electricity generation are fossil fuels (coal, natural gas, and petroleum), nuclear energy, and renewable energy.



## Energy in the United States

Overview Electricity History Primary energy production Final energy consumption See also External links

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