



**U.S. Energy Information
Administration**

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U.S. States

State Profiles and Energy Estimates

State Energy Data System (SEDS): 1960-2023 (complete)

Released: June 27, 2025 | **Next release:** June 26, 2026

Comprehensive state-level estimates of energy consumption, prices, expenditures, production, indicators, and CO2 emissions by source and sector.

Estimates for 2024 and revisions for previous years by energy source are released on the [SEDS updates](#) page starting in October 2025.

Key statistics and rankings

Consumption	2023	1960-2023
Total energy consumption, real GDP, and energy intensity	HTML PDF	XLSX
Total energy consumption by end-use sector	HTML PDF	XLSX
Primary energy consumption by source	HTML PDF	XLSX
Renewable energy consumption by source	HTML PDF	XLSX
Total energy consumption per capita by end-use sector	HTML PDF	XLSX
Petroleum consumption, total and per capita	HTML PDF	XLSX
Natural gas consumption, total and per capita	HTML PDF	XLSX
Electricity sales to ultimate customers, total and residential, total and per capita	HTML PDF	XLSX
Prices and expenditures	2023	1970-2023
Total energy prices and expenditures (total, per capita, and per GDP)	HTML PDF	XLSX
Total energy prices by end-use sector	HTML PDF	XLSX
Total energy expenditures by end-use sector	HTML PDF	XLSX
Petroleum and natural gas prices and expenditures	HTML PDF	XLSX
Coal and electricity sales to ultimate customers prices and expenditures	HTML PDF	XLSX
Motor gasoline prices and expenditures	HTML PDF	XLSX
Production	2023	1960-2023
Primary energy production in physical units – fossil fuels and nuclear	PDF XLSX	XLSX
Primary energy production in physical units – biofuels	PDF XLSX	XLSX
Primary energy production in Btu – fossil fuels and nuclear	PDF XLSX	XLSX

Key statistics and rankings

Primary energy production in Btu – renewable energy and total energy	PDF XLSX	XLSX
Energy indicators	2023	1960-2023
Population, GDP, and degree days	HTML PDF	XLSX
Carbon dioxide (CO2) emissions from energy consumption	2023	1960-2023
Total CO2 emissions, per capita CO2 emissions, and carbon intensity	HTML PDF	XLSX
Total CO2 emissions by source	HTML PDF	XLSX
Total CO2 emissions by sector	HTML PDF	XLSX
Consumption	All states	United States
Summary	2023	1960-2023
Consumption overview: primary energy source and end-use sectors	HTML PDF	
Consumption for selected energy sources in physical units	HTML PDF	HTML PDF
Primary energy consumption	HTML PDF	HTML PDF
Sector	2023	1960-2023
Total end-use	HTML PDF	HTML PDF
Residential	HTML PDF	HTML PDF
Commercial	HTML PDF	HTML PDF
Industrial	HTML PDF	HTML PDF
Transportation	HTML PDF	HTML PDF
Electric power sector	HTML PDF	HTML PDF
Ranked by state	2023	1960-2023
Total energy consumption, real GDP, and energy intensity	HTML PDF	XLSX
Total energy consumption by end-use sector	HTML PDF	XLSX
Primary energy consumption by source	HTML PDF	XLSX
Renewable energy consumption by source	HTML PDF	XLSX
Total energy consumption per capita by end-use sector	HTML PDF	XLSX
Petroleum consumption, total and per capita	HTML PDF	XLSX
Natural gas consumption, total and per capita	HTML PDF	XLSX
Electricity sales to ultimate customers, total and residential, total and per capita	HTML PDF	XLSX
Full reports & data files	1960-2023	1960-2023
All consumption estimates	PDF	PDF CSV
in physical units	XLSX CSV ZIP	
in Btu	XLSX CSV ZIP	
Thermal conversion factors	XLSX CSV	
Prices and expenditures	All states	United States

Key statistics and rankings

Prices	2023	1970-2023
Primary energy, electricity, and total energy	HTML PDF	HTML PDF
Total end-use	HTML PDF	HTML PDF
Residential	HTML PDF	HTML PDF
Commercial	HTML PDF	HTML PDF
Industrial	HTML PDF	HTML PDF
Transportation	HTML PDF	HTML PDF
Electric power sector	HTML PDF	HTML PDF
Expenditures	2023	1970-2023
Primary energy, electricity, and total energy	HTML PDF	HTML PDF
Total end-use	HTML PDF	HTML PDF
Residential	HTML PDF	HTML PDF
Commercial	HTML PDF	HTML PDF
Industrial	HTML PDF	HTML PDF
Transportation	HTML PDF	HTML PDF
Electric power sector	HTML PDF	HTML PDF
Ranked by state	2023	1970-2023
Total energy prices and expenditures (total, per capita, and per GDP)	HTML PDF	XLSX
Total energy prices by end-use sector	HTML PDF	XLSX
Total energy expenditures by end-use sector	HTML PDF	XLSX
Petroleum and natural gas prices and expenditures	HTML PDF	XLSX
Coal and electricity sales to ultimate customers prices and expenditures	HTML PDF	XLSX
Motor gasoline prices and expenditures	HTML PDF	XLSX
Full reports & data files	1970-2023	1970-2023
All price and expenditure estimates	PDF	PDF CSV
Prices	XLSX CSV ZIP	
Expenditures	XLSX CSV ZIP	
Adjusted consumption for expenditure calculations	XLSX CSV	
Production	All states	United States
Summary	2023	1960-2023
Primary energy production in physical units	PDF XLSX	PDF XLSX
Primary energy production in Btu	PDF XLSX	PDF XLSX
Primary energy production – total energy consumption comparison	PDF XLSX	
Ranked by state	2023	1960-2023

Key statistics and rankings

Primary energy production in physical units – fossil fuels and nuclear	PDF XLSX	XLSX
Primary energy production in physical units – biofuels	PDF XLSX	XLSX
Primary energy production in Btu – fossil fuels and nuclear	PDF XLSX	XLSX
Primary energy production in Btu – renewable energy and total energy	PDF XLSX	XLSX
Full report & data file	1960-2023	
All production estimates	PDF XLSX	

Energy indicators

	All states	United States
Ranked by state	2023	1960-2023
Population, GDP, and degree days	HTML PDF	XLSX
Summary	2023	2008-2023
Electric net summer capacity	HTML PDF	XLSX
Capacity factors and usage factors	HTML PDF	XLSX
Electric light-duty vehicles	HTML PDF	XLSX
Electric vehicle charging infrastructure	HTML PDF	XLSX
Electric vehicle electricity consumption (experimental)	HTML PDF	XLSX
Full report & data file	1960-2023	
All energy indicator estimates	PDF XLSX CSV ZIP	

Carbon dioxide (CO2) emissions from energy consumption

	All states	United States
Summary	2023	1960-2023
Total CO2 emissions by source	HTML PDF	HTML PDF
Sector	2023	1960-2023
Residential	HTML PDF	HTML PDF
Commercial	HTML PDF	HTML PDF
Industrial	HTML PDF	HTML PDF
Transportation	HTML PDF	HTML PDF
Electric power sector	HTML PDF	HTML PDF
Ranked by state	2023	1960-2023
Total CO2 emissions, per capita CO2 emissions, and carbon intensity	HTML PDF	XLSX
Total CO2 emissions by source	HTML PDF	XLSX
Total CO2 emissions by sector	HTML PDF	XLSX
Full report & data file	1960-2023	1960-2023
All CO2 emissions estimates	PDF XLSX CSV ZIP	PDF CSV

Data files

	All states	United States
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Key statistics and rankings

Consumption	1960-2023	1960-2023
All consumption estimates		CSV
in physical units	XLSX CSV ZIP	
in Btu	XLSX CSV ZIP	
Thermal conversion factors	XLSX CSV	
Prices and expenditures	1970-2023	1970-2023
All price and expenditure estimates		CSV
Prices	XLSX CSV ZIP	
Expenditures	XLSX CSV ZIP	
Adjusted consumption for expenditure calculations	XLSX CSV	
Production	1960-2023	
All production estimates	XLSX	
Energy indicators	1960-2023	
All energy indicators estimates	XLSX CSV	
Carbon dioxide (CO2) emissions from energy consumption	1960-2023	1960-2023
All CO2 emissions estimates	XLSX CSV ZIP	CSV
Consolidated data file <i>(in long format with over 2.3 million records)</i>	1960-2023	
Consumption, price, expenditure, production, indicators, and CO2 emissions estimates	CSV ZIP	

For additional information see:

- [Changes to 1960—2023 conversion factor for renewable energy](#)
- [About SEDS](#)
- [Notes and documentation](#)
- [Data and methodology changes](#)
- [Codes and descriptions](#)
- [Current and previous reports \(PDF\)](#)
- [SEDS API query browser](#)