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## U.S. States

*State Profiles and Energy Estimates*

**Changes to the State Energy Data System (SEDS) Notice:** In October 2023, we are updating the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, wind, hydroelectric, and geothermal). Visit our [Changes to 1960—2022 conversion factor for renewable energy](#) page to learn more.

## State Energy Data System (SEDS): 1960-2021 (complete)

**Released:** June 23, 2023 | **Next release:** June 28, 2024

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

Estimates for 2022 and revisions for previous years by energy source will be released on the [SEDS updates](#) page starting in October 2023.

### Key statistics and indicators

| Consumption  | 2021                     | 1960-2021            |
|--|--------------------------|----------------------|
| Total energy consumption, real GDP, and energy intensity                             | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Total energy consumption by end-use sector   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Primary energy consumption by source   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Renewable energy consumption by source   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Total energy consumption per capita by end-use sector                                | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Petroleum consumption, total and per capita  | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Natural gas consumption, total and per capita  | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Electricity sales to ultimate customers, total and residential, total and per capita | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Prices and expenditures  | 2021                     | 1970-2021            |
| Total energy prices and expenditures (total, per capita, and per GDP)                | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Total energy prices by end-use sector  | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Total energy expenditures by end-use sector  | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Petroleum and natural gas prices and expenditures                                    | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Coal and electricity sales to ultimate customers prices and expenditures             | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Motor gasoline prices and expenditures   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a> |
| Production   | 2021                     | 1960-2021            |

**Key statistics and indicators**

|  |  |  |
|--|--|--|
| Primary energy production in physical units – fossil fuels and nuclear               | <a href="#">PDF</a> <a href="#">XLSX</a> | <a href="#">XLSX</a>                     |
| Primary energy production in physical units – biofuels                               | <a href="#">PDF</a> <a href="#">XLSX</a> | <a href="#">XLSX</a>                     |
| Primary energy production in Btu – fossil fuels and nuclear                          | <a href="#">PDF</a> <a href="#">XLSX</a> | <a href="#">XLSX</a>                     |
| Primary energy production in Btu – renewable energy and total energy                 | <a href="#">PDF</a> <a href="#">XLSX</a> | <a href="#">XLSX</a>                     |
| <b>Other</b>   | <b>2021</b>                              | <b>1960-2021</b>                         |
| Population, GDP, and degree days   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Electric net summer capacity   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| <b>Consumption</b>   | <b>All states</b>                        | <b>United States</b>                     |
| <b>Summary</b>   | <b>2021</b>                              | <b>1960-2021</b>                         |
| Consumption overview: primary energy source and end-use sectors                      | <a href="#">HTML</a> <a href="#">PDF</a> |  |
| Consumption for selected energy sources in physical units                            | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Primary energy consumption   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| <b>Sector</b>  | <b>2021</b>                              | <b>1960-2021</b>                         |
| Total end-use  | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Residential  | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Commercial   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Industrial   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Transportation   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| Electric power sector  | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">HTML</a> <a href="#">PDF</a> |
| <b>Ranked by state</b>   | <b>2021</b>                              | <b>1960-2021</b>                         |
| Total energy consumption, real GDP, and energy intensity                             | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Total energy consumption by end-use sector   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Primary energy consumption by source   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Renewable energy consumption by source   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Total energy consumption per capita by end-use sector                                | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Petroleum consumption, total and per capita  | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Natural gas consumption, total and per capita  | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Electricity sales to ultimate customers, total and residential, total and per capita | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| <b>Other</b>   | <b>2021</b>                              | <b>1960-2021</b>                         |
| Population, GDP, and degree days   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| Electric net summer capacity   | <a href="#">HTML</a> <a href="#">PDF</a> | <a href="#">XLSX</a>                     |
| <b>Full reports &amp; data files</b>   | <b>1960-2021</b>                         | <b>1960-2021</b>                         |
| All consumption estimates  | <a href="#">PDF</a>                      | <a href="#">PDF</a> <a href="#">CSV</a>  |
| in physical units  | <a href="#">CSV</a> <a href="#">ZIP</a>  |  |

**Key statistics and indicators**

|  |                          |                          |
|--|--------------------------|--------------------------|
| in Btu   | <a href="#">CSV ZIP</a>  |                          |
| Thermal conversion factors   | <a href="#">CSV</a>      |                          |
| <b>Prices and expenditures</b>   | <b>All states</b>        | <b>United States</b>     |
| <b>Prices</b>  | <b>2021</b>              | <b>1970-2021</b>         |
| Primary energy, electricity, and total energy                            | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Total end-use  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Residential  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Commercial   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Industrial   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Transportation   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Electric power sector  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| <b>Expenditures</b>  | <b>2021</b>              | <b>1970-2021</b>         |
| Primary energy, electricity, and total energy                            | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Total end-use  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Residential  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Commercial   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Industrial   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Transportation   | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| Electric power sector  | <a href="#">HTML PDF</a> | <a href="#">HTML PDF</a> |
| <b>Ranked by state</b>   | <b>2021</b>              | <b>1970-2021</b>         |
| Total energy prices and expenditures (total, per capita, and per GDP)    | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Total energy prices by end-use sector                                    | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Total energy expenditures by end-use sector                              | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Petroleum and natural gas prices and expenditures                        | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Coal and electricity sales to ultimate customers prices and expenditures | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Motor gasoline prices and expenditures                                   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| <b>Other</b>   | <b>2021</b>              | <b>1960-2021</b>         |
| Population, GDP, and degree days   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| Electric net summer capacity   | <a href="#">HTML PDF</a> | <a href="#">XLSX</a>     |
| <b>Full reports &amp; data files</b>                                     | <b>1970-2021</b>         | <b>1970-2021</b>         |
| All price and expenditure estimates                                      | <a href="#">PDF</a>      | <a href="#">PDF CSV</a>  |
| Prices   | <a href="#">CSV ZIP</a>  |                          |
| Expenditures   | <a href="#">CSV ZIP</a>  |                          |
| Adjusted consumption for expenditure calculations                        | <a href="#">CSV</a>      |                          |

## Key statistics and indicators

| <b>Production</b>   | <b>All states</b>        | <b>United States</b>     |
|---|--------------------------|--------------------------|
| <b>Summary</b>  | <b>2021</b>              | <b>1960-2021</b>         |
| Primary energy production in physical units   | <a href="#">PDF XLSX</a> | <a href="#">PDF XLSX</a> |
| Primary energy production in Btu  | <a href="#">PDF XLSX</a> | <a href="#">PDF XLSX</a> |
| Primary energy production – total energy consumption comparison                     | <a href="#">PDF XLSX</a> |                          |
| <b>Ranked by state</b>  | <b>2021</b>              | <b>1960-2021</b>         |
| Primary energy production in physical units – fossil fuels and nuclear              | <a href="#">PDF XLSX</a> | <a href="#">XLSX</a>     |
| Primary energy production in physical units – biofuels                              | <a href="#">PDF XLSX</a> | <a href="#">XLSX</a>     |
| Primary energy production in Btu – fossil fuels and nuclear                         | <a href="#">PDF XLSX</a> | <a href="#">XLSX</a>     |
| Primary energy production in Btu – renewable energy and total energy                | <a href="#">PDF XLSX</a> | <a href="#">XLSX</a>     |
| <b>Full report &amp; data file</b>  | <b>1960-2021</b>         |                          |
| All production estimates  | <a href="#">PDF XLSX</a> |                          |
| <b>Data files</b>   | <b>All states</b>        | <b>United States</b>     |
| <b>Consumption</b>  | <b>1960-2021</b>         | <b>1960-2021</b>         |
| All consumption estimates   |                          | <a href="#">CSV</a>      |
| in physical units   | <a href="#">CSV ZIP</a>  |                          |
| in Btu  | <a href="#">CSV ZIP</a>  |                          |
| Thermal conversion factors  | <a href="#">CSV</a>      |                          |
| <b>Prices and expenditures</b>  | <b>1970-2021</b>         | <b>1970-2021</b>         |
| All price and expenditure estimates   |                          | <a href="#">CSV</a>      |
| Prices  | <a href="#">CSV ZIP</a>  |                          |
| Expenditures  | <a href="#">CSV ZIP</a>  |                          |
| Adjusted consumption for expenditure calculations                                   | <a href="#">CSV</a>      |                          |
| <b>Production</b>   | <b>1960-2021</b>         |                          |
| All production estimates  | <a href="#">XLSX</a>     |                          |
| <b>Consolidated data file</b> <i>(in long format with over 2.0 million records)</i> | <b>1960-2021</b>         |                          |
| Consumption, price, expenditure, and production estimates                           | <a href="#">CSV ZIP</a>  |                          |

For additional information see:

- [Changes to 1960—2022 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](#)