

# California renewable energy eia





## Overview

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California is second in the nation, after Texas, in total electricity generation from renewable resources. The state is the nation's top producer of electricity from solar energy and.

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Most of California's natural gas reserves and production are in fields in the northern portion of the state's Central Valley.<sup>109</sup> California's natural gas output has declined steadily since 19.

California does not have any coal reserves or production and has very little coal-fired electricity generation. All the generation is from one industrial facility in Trona, California.<sup>122,12.</sup>

California has the largest economy in the nation, with a nearly \$3.9 trillion GDP in 2023, and the fifth-largest in the world for the seventh year in a row.<sup>1,2</sup> About one in nine U.S. residents live in California, and it is the most populous state in the nation.<sup>3</sup> California also uses more energy than any other state except Texas.<sup>4.</sup>

In 2023, California was the nation's fourth-largest electricity producer and accounted for about 5% of all U.S. utility-scale (1-megawatt and larger) power generation.<sup>22</sup> Renewable resources, including hydropower and small-scale (less than 1-megawatt) customer-sited.

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Most of California's natural gas reserves and production are in fields in the northern portion of the state's Central Valley.<sup>109</sup> California's natural gas output has declined steadily since 1985, and the state now accounts for less than 1% of the nation's total natural gas.



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### California was the largest net electricity importer of any state in

The U.S. Energy Information Administration's (EIA) State Electricity Profiles provide data on interstate electricity trade and international imports and exports. EIA calculates net interstate electricity trade by subtracting total reported retail electricity sales, direct use, international exports, and estimated line losses from the total electricity supply.

### Alabama

Petroleum prices, supply and demand information from the Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Alabama is the nation's fifth-largest producer of electricity from nuclear power. 25 Alabama's two nuclear power plants, with a total of five reactors, produced 29% of the electricity generated in the state in 2022.



### As solar capacity grows, duck curves are getting deeper in California

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government As more solar capacity has come online in California, grid operators at the California Independent System Operator (CAISO) have observed a drop in net load (or the

### California's curtailments of solar electricity generation ...

Increases in renewable generation and



curtailments of solar and wind have followed an increase in new renewable capacity additions. To help meet California's target of 50% renewable generation by 2025, CAISO plans to ...

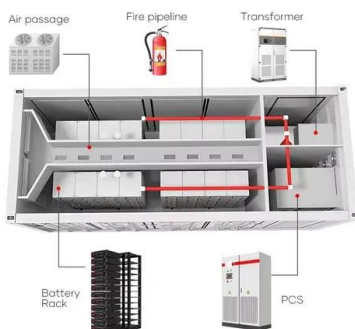


### California curtailing more solar than ever before

Curtailment of renewable energy, particularly solar generation, is currently on the rise in California, according to the Energy Information Administration (EIA). In 2022, the California

### Biogas-Renewable natural gas

Biogas from biomass Biogas, which may be called renewable natural gas (RNG) or biomethane, is an energy-rich gas produced by anaerobic decomposition or thermochemical conversion of biomass. Biogas is composed mostly of methane (CH<sub>4</sub>), the main compound in fossil natural gas, and carbon dioxide (CO<sub>2</sub>).



### Retail electricity prices closely tracked inflation over the last 10

California's Renewable Portfolio Standard (RPS) mandates that a high percentage of energy must come from renewable sources such as solar and wind. New England's real electricity price rose from a little more than 21 cents per kWh in 2013 to the highest U.S. regional price of almost 29 cents per kWh in 2023, an annual average increase of 2.6%.



### Renewable energy explained Incentives

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government  
Types of incentives for renewable energy production and use including renewable energy portfolio standards, net metering, tax credits, and feed-in-tariffs. Skip to sub



### 2022 Total System Electric Generation

In-state hydroelectric generation increased by 21 percent (3,045 GWh) to 17,612 GWh in 2022, accounting for 8.7 percent of in-state generation compared to 7.5 percent in 2021. Overall, all hydroelectric generation including imports ...



### **Renewables became the second-most prevalent U.S.**

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government  
Source: U.S. Energy Information Administration (EIA), Monthly Energy Review Note: This graph shows ...



### 2023 Total System Electric Generation

The Year in Review Total system electric generation is the sum of all utility-scale in-state generation plus net electricity imports. In 2023, total generation for California was 281,140 gigawatt-hours (GWh), down 2.1 percent (6,080 GWh) from 2022. California's non



## Florida

Renewable resources supply about 7% of Florida's total in-state electricity net generation, and about three-fourths of that renewable generation comes from solar energy. 43 In 2022, Florida was third in the nation, after California and Texas, in total solar power generating capacity, and solar energy accounted for more than 5% of Florida's total net generation. 44,45 ...



### [Renewable & Alternative Fuels](#)

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government  
Biofuels overview Release date: October 28, 2024 , Data from: Monthly Energy Review  
Interactive data from: Total Energy Data Browser  
Fuel ethanol overview Available

### Data Show Clean Power Increasing, Fossil Fuel Decreasing in ...

SACRAMENTO -- Data from the California Energy Commission (CEC) highlight California's continued progress toward building a more resilient grid, achieving 100 percent ...



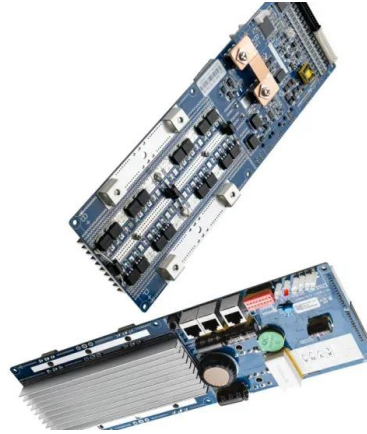
### More than half of new U.S. electric-generating capacity in 2023 ...

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government  
Developers plan to add 54.5 gigawatts (GW) of new utility-scale electric-generating capacity to the U.S. power grid in 2023, according to our ...



## Homepage

Data source: U.S. Energy Information Administration, Petroleum Supply Monthly; and the U.S. Census Bureau. Note: Ethylene derivatives include high-density polyethylene (HDPE), low-density polyethylene (LDPE), ethylene vinyl acetate, polyvinyl chloride (PVC), and other polymers of ethylene not elsewhere specified or included.

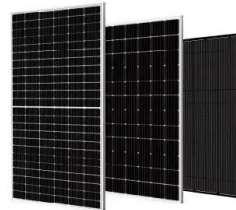


## Electricity explained Electricity generation, capacity, and sales in

Electricity generation In 2023, net generation of electricity from utility-scale generators in the United States was about 4,178 billion kilowatt-hours (kWh) (or about 4.18 trillion kWh). EIA estimates that an additional 73.62 billion kWh (or about 0.07 trillion kWh) were

## Regional comprehensive environmental impact assessment of ...

The results show that solar energy and biomass and waste-to-energy are the main contributors to the comprehensive life-cycle impacts of the renewable energy system in ...



## State Energy Profile Data

Changes to the State Energy Data System (SEDS) Notice: In October 2023, we updated 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.



Renewable energy explained

What role does renewable energy play in the United States? Until the mid-1800s, wood was the source of nearly all the nation's energy needs for heating, cooking, and lighting. From the late 1800s until today, fossil fuels--coal, petroleum, and natural gas--have



**Solar and wind power curtailments are rising in California**

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government The California Independent System Operator (CAISO), the grid operator for most of the state, is ...



**New Data Indicates California Remains Ahead of ...**

SACRAMENTO -- Data from the California Energy Commission (CEC) shows that 59 percent of the state's electricity came from renewable and zero-carbon sources in 2020. The CEC estimates that in 2020, 34.5 percent of ...



U.S. Energy Information Administration

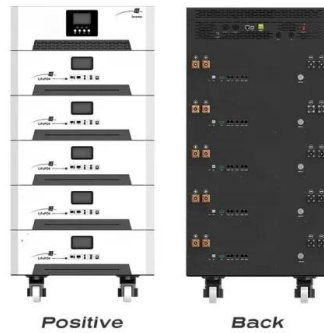
Arizona is known for its stunning landscapes and natural wonders from the Grand Canyon in the north to the Saguaro deserts in the south. 1 The state has few fossil fuel reserves, but it does have abundant renewable energy resources. 2,3,4,5 Although higher elevations receive greater amounts of precipitation, including significant snowfalls, most of Arizona is semiarid or arid, and ...





### Renewable diesel is increasingly used to meet ...

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Renewable diesel net supply to California's fuel market has increased since the state's Low Carbon Fuel Standard (LCFS) program went ...



### California Hits Milestones Toward 100% Clean Energy -- but Has ...

From January to mid-July of this year, zero-carbon, renewable energy exceeded demand in California for 945 hours during 146 days -- equivalent to a month-and-a-half of 100% fossil-fuel-free

### [Renewable energy explained Types & usages](#)

Types of renewable energy: biomass, geothermal energy, hydropower, solar energy, and wind energy. Skip to sub-navigation U.S. Energy Information Administration - EIA - Independent Statistics and Analysis

**LFP12V100**



### [U.S. Energy Information Administration](#)

Petroleum prices, supply and demand information from the Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Louisiana is among the top 10 states that receive the most foreign crude oil imports. 55 Crude oil arrives at several state ports, including the Louisiana Offshore Oil Port (LOOP).



## Solar and wind power curtailments are rising in California

Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government The California Independent System Operator (CAISO), the grid operator for most of the state, is increasingly curtailing solar- and wind-powered electricity generation as it balances supply and demand during the rapid growth of wind and solar power in California.



## California residents are increasingly pairing battery storage with

The increasing amount of battery storage comes after California residents installed a record amount of solar capacity eligible for compensation from electricity utilities in the third quarter of 2023. Data source: U.S. Energy Information Administration, Monthly Electric Power Industry Report, Form EIA-861M (formerly EIA-826)

## [U.S. Energy Information Administration](#)

Petroleum prices, supply and demand information from the Energy Information Administration - EIA - Official Energy Statistics from the U.S. Government Changes to the State Energy Data System (SEDS) Notice: In October 2023, we updated the way we calculate primary energy consumption of electricity generation from noncombustible renewable energy sources (solar, ...



## Solar curtailments in California rising, according to EIA

Solar curtailments in the US state of California have never been higher in 2023, as solar generation outpaces transmission capacity upgrades, according to a report from the ...



### Renewable energy in California

California produces more renewable energy than any other state in the United States except Texas. [1] In 2018, California ranked first in the nation as a producer of electricity from solar, ...



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