

Macro Roundup Article

Headline: [Giant Batteries Are Transforming the Way the U.S. Uses Electricity](#)

Article Link: <https://www.nytimes.com/interactive/2024/05/07/climate/battery-electricity-solar-california-texas.html>

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Tweet: Grid-scale batteries can supply up to 20% of California's electrical demand, equivalent to the output of 7 large nuclear reactors. US battery storage has grown 10X in the past three years to 16,000 megawatts and is expected to double again this year.

Summary: Since 2020, California has installed more giant batteries than anywhere in the world apart from China. They can soak up excess solar power during the day and store it for use when it gets dark. Those batteries play a pivotal role in California's electric grid, partially replacing fossil fuels in the evening. Between 7 p.m. and 10 p.m. on April 30, for example, batteries supplied more than one-fifth of California's electricity and, for a few minutes, pumped out 7,046 megawatts of electricity, akin to the output from seven large nuclear reactors. Across the country, power companies are increasingly using giant batteries the size of shipping containers to address renewable energy's biggest weakness: the fact that the wind and sun aren't always available. Over the past three years, battery storage capacity on the nation's grids has grown tenfold, to 16,000 megawatts. This year, it is expected to nearly double again, with the biggest growth in Texas, California, and Arizona.

Related Articles: [U.S. Battery Storage Capacity Expected To Nearly Double In 2024 and Electricity 2024 and Electricity Grids and Secure Energy Transitions](#)

Primary Topic: Energy

Topics: Database, Energy, Investment, News article, Productivity

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