

## European Solar Energy Storage

# Where does nc rank nationally for solar energy capacity



## Overview

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North Carolina rises from its Atlantic Ocean coastline to the highest peak east of the Mississippi River—Mount Mitchell, which stands more than a mile above sea level at 6,684 feet.<sup>1</sup> The state's terrain ranges from the barrier islands of the Outer Banks in the east, where North Carolina is brushed by the warm waters of the.

Natural gas and nuclear power provide about three-fourths of North Carolina's total net generation. Over the past decade, the contribution of natural gas-fired generation in the state has increased.

In 2022, renewable sources produced about 14% of the total electricity generated in North Carolina from both utility-scale (1 megawatt or larger) and small-scale (less than 1 megawatt) facilities.

North Carolina does not have any crude oil reserves or production.<sup>74,75</sup> More than 125 exploratory oil and natural gas wells have been drilled in the state since 1925, and, although traces of crude oil and natural gas were found in a few wells, none were sufficient for commercial development. Several unexplored areas of the state could have.

North Carolina does not have any economically recoverable natural gas reserves or production.<sup>95,96</sup> Although commercial quantities of natural gas have not been found in North Carolina, shales and coalbeds in the geologic basins located in the center of the state may contain natural gas resources.<sup>97</sup> Interstate pipelines supply the natural gas.

has been increasing rapidly in the U.S. state of , from less than 1 MW ( ) in 2007 to 6,152 MW in 2019, when it had the second-largest installed PV capacity of all states. The economic viability of solar energy is heavily influenced by political and technological factors. Political dynamics play a critical role in shaping renewab.

As of 2024, North Carolina ranks 4th nationally in total solar capacity, with nearly 10,000 megawatts (MW) installed—enough to power approximately 1.2 million homes. This places the state just behind California, Texas, and Florida in terms of installed solar capacity.

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In 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, and fifth in total solar power generation. North Carolina ranks among the bottom one-third of states with the lowest natural gas use per capita, even though natural gas use for electricity.

North Carolina ranked fourth in installed solar capacity nationwide at the end of the 3rd quarter of 2021, with over 7,000 MW. Over 7 percent of the state's electricity generation comes from solar, compared to just over 2 GW. The state's Renewable Energy and Energy Efficiency Portfolio Standard.

As of 2024, North Carolina ranks 4th nationally in total solar capacity, with nearly 10,000 megawatts (MW) installed—enough to power approximately 1.2 million homes. This places the state just behind California, Texas, and Florida in terms of installed solar capacity. The state's solar industry.

Solar power has been increasing rapidly in the U.S. state of North Carolina, from less than 1 MW (megawatts) in 2007 to 6,152 MW in 2019, when it had the second-largest installed PV capacity of all states. [1] The economic viability of solar energy is heavily influenced by political and.

Now a leader in utility-scale solar, the future is bright for solar in the Tar Heel state for many years to come. A 2017 law authorized solar leasing, giving a much-needed boost to residential solar companies and offering consumers more options to control their energy use. SEIA is engaged in Duke's.

CHARLOTTE, N.C. (QUEEN CITY NEWS) — A recent survey ranks North Carolina as a top state for solar power. According to Forbes Advisor, solar energy powers nearly a million North Carolina homes. “Year after year, we have seen quite literally 10x growth,” 365 Solar Energy owner William Clementi said. How much solar power does North Carolina generate?

In 2023, solar power provided about 10% of the state's total generation. 41 At the end of 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, and fifth in total solar power generation. 42, 43.

How much solar power does North Carolina have in 2023?

In 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, and fifth in total solar power generation.

Does North Carolina have a solar industry?

Data Current Through: Q1 2025 North Carolina's solar industry grew quickly thanks in part to the state's Renewable Energy and Energy Efficiency Portfolio Standard (REPS) and strong state policy and regulatory support. Now a leader in utility-scale solar, the future is bright for solar in the Tar Heel state for many years to come.

Does North Carolina have a solar and Agriculture report?

In the process of aggregating this data, NCSEA has also utilized the opportunity to track land use associated with the growth of solar in North Carolina, which led to the creation of the North Carolina Solar and Agriculture Report first produced in 2017.

How much land does solar PV use in North Carolina?

In total, the state of North Carolina is comprised of 31,537,616 acres of land, with 10,999,656 being attributed to agricultural purposes. Given these numbers, solar PV only occupies 0.12% of the total land area of the state and 0.28% of agricultural land.

What is North Carolina's largest energy source?

In 2023, nuclear energy was the state's second-largest fuel source for electricity and provided 33% of the state's net generation. The three largest power plants in North Carolina by generation were nuclear. 27, 28, 29 Natural gas-fired generation exceeded coal-fired generation for the first time in 2016.

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### Solar Energy Soars in U.S., North Carolina a Major Player

The U.S. solar industry is experiencing unprecedented growth, with installations exceeding 207 gigawatts in the first half of 2024. North Carolina is a key player, ranking fourth ...

### North Carolina - SEIA

Meta, Fifth Third Bank and Starbucks have all gone solar in North Carolina. Meta's 119 MW Gutenberg project in Garysburg is one of the largest solar projects in the state. At 134 MW, ...



### North Carolina Ranked Fourth in the Nation in Solar Generating Capacity

At the end of 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, and fifth in total solar power generation. (\*eia.gov)

### Countries Using the Most Solar Energy, Ranked

Italy has set ambitious targets of 79.9 GW solar

capacity by 2030, with progressive policies and simplified procedures under the EU's National Energy and Climate Plan driving the push for energy independence.



## Solar, battery storage to lead new U.S. generating capacity

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Solar. In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5

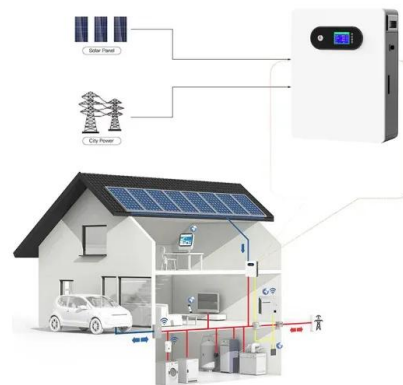
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## North Carolina Solar Land Use and Agriculture

As of March 2022, North Carolina ranks fourth in the country for total installed capacity according to the Solar Energy Industries Association.<sup>1</sup> While solar PV systems can be divided into a few

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## Solar Projects in North Carolina , Renewable Energy Leaders

Explore North Carolina's leading solar projects, including the largest installations and their impact on renewable energy. Learn about the state's solar power capacity and future ...



## Report: North Carolina ranks No. 3 in solar, emerging as ...

North Carolina lags in battery storage efforts, ranking 21st, However, Duke Energy is working with international power firm ABB in launching a pilot program for massive ...



## Wind Energy by State , August 2025 , Choose Energy

Where does your state rank for wind energy production? The Choose Energy Wind Generation Report analyzes the latest information from the EIA to show you how much ...

## [North Carolina State Energy Profile](#)

North Carolina State Energy Profile North Carolina Quick Facts In 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, ...





## How much wind and solar energy North Carolina produces

Zoom in: North Carolina ranks No. 4 in solar power capacity and No. 30 in wind power. North Carolina, which once had the second-highest amount of installed solar capacity in ...

## A Remarkable Transformation: Utility-Scale Solar Set ...

This policy has provided a strong impetus for the development of utility-scale solar projects, driving investments and innovation in the sector. The RPS serves as both a catalyst and a guiding framework, ensuring that North ...



## [South Carolina - SEIA](#)

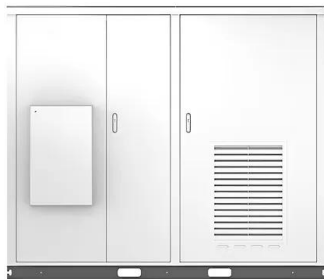
South Carolina is an interesting market, while NEM is a benefit available to energy customers in the state, expanding benefits and the ability to develop solar of all types are a high priority for ...

## N.C. ranks among top states for solar energy

In a recent survey by Forces Advisory, North Carolina ranked the sixth-best state for solar power. It used six metrics for this determination, including solar jobs, cost of ...



Solar



## [CARMA\\_50\\_States\\_10-22](#)

Making a Difference in North Carolina North Carolina's Research Triangle Park is home to some of the state's most energy efficient buildings, including the Environmental Protection Agency's ...

## [Solar power in North Carolina](#)

Overview Currently operating Duke Energy rebates EnergizeNC: North Carolina's Solar For All Program Duke Energy Solar Centers Pricing of solar energy Solar power distribution potential

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## [Solar power in North Carolina](#)

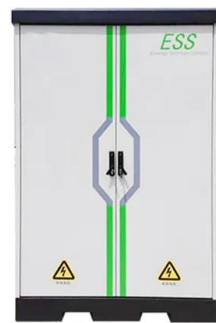
They have been playing a role in implementing solar in North Carolina, making it second in the nation for most solar energy usage. In 2017 they



helped develop laws that allowed the ...

## U.S Energy Atlas with total energy layers

In 2023, North Carolina ranked fourth in the nation in solar generating capacity, with nearly 6,600 megawatts, and fifth in total solar power generation. North Carolina ranks among the bottom ...



## Other states outpacing NC in solar power growth, ...

North Carolina ranks 4th in the country for total solar energy capacity, according to a new Solar Market Insight Report from the Solar Energy Industries Association, behind Florida, Texas, and

## U.S. News & World Report Names North Carolina a Top 10 State ...

North Carolina has been recognized for the #7 Best Economy and #5 Best Growth in the country by U.S. News & World Report. The Best States rankings evaluate all 50 ...



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RECHARGEABLE BATTERY  
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## Other states outpacing NC in solar power growth, report shows

North Carolina ranks fourth in the country for total solar energy capacity, according to a new Solar Market Insight Report from the Solar Energy Industries Association ...

## Energy Security in India

The National Solar Mission has propelled solar energy growth, with installed capacity rising from 9.01 GW in 2016 to 97.86 GW in 2025. Additionally, PM-KUSUM and PM Surya Ghar Muft Bijli Yojana are ...



## India's Solar Power Surge: State-wise Progress, Potential, and ...

Solar Power Surge: In a recent announcement, the Union Minister for New & Renewable Energy and Power disclosed a remarkable surge in India's solar power capacity.

## U.S. Installed and Potential Wind Power Capacity and Generation

U.S. Installed and Potential Wind Power Capacity and Generation More Maps and Data Installed Wind Data Potential Wind Data Embed Widget Installed Potential Download Data



## Why Does North Carolina Have So Much Solar Power

Solar power in North Carolina has surged from less than 1 MW in 2007 to 6, 152 MW by 2019, ranking it second nationally in installed photovoltaic capacity. The growth of solar ...

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