

STATE ENERGY PROFILE

Sources of electricity in South Carolina



3,000

High-paying, reliable jobs provided by South Carolina's nuclear plants

91.2%

Nuclear's share of South Carolina's carbon-free electricity, complementing wind and solar

State Carbon Goals

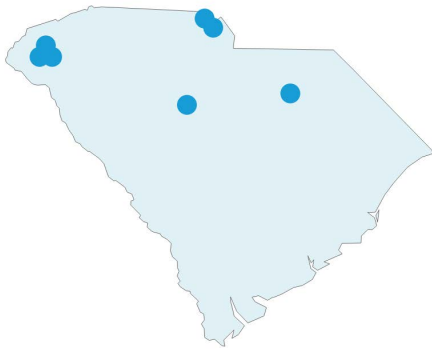
None

Utility Carbon Goals

Dominion Energy

Duke Energy

NUCLEAR PLANTS



94.4%

Capacity factor of nuclear plants in South Carolina from 2021 to 2023

36.2 million

Metric tons of carbon emissions avoided by nuclear energy in South Carolina

4.3 million

Number of homes powered by nuclear energy in South Carolina

Nuclear News

The subsequent license renewal applications for Oconee 1, 2 & 3 and V.C. Summer are under review by the U.S. Nuclear Regulatory Commission for 20 additional years of reliable, carbon-free electricity.

U.S. Congress supports nuclear & other clean energy in the 2021 Bipartisan Infrastructure Law and 2022 Inflation Reduction Act.

REACTOR DETAILS

Reactor Name	County	Majority Owner(s)	Capacity (MW)	Capacity Factor (%)	License End Year
Catawba 1	York	North Carolina EMC	1,160	94.6%	2043
Catawba 2	York	NCMPA No. 1	1,150	92.2%	2043
Oconee 1	Oconee	Duke Energy	847	99.5%	2033
Oconee 2	Oconee	Duke Energy	848	95.0%	2033
Oconee 3	Oconee	Duke Energy	859	98.5%	2034
Robinson 2	Darlington	Duke Energy	759	94.3%	2030
V.C. Summer 1	Fairfield	Dominion Energy	977	88.4%	2042

NUCLEAR POWER ACROSS THE U.S.



94
reactors

53
plants

28
states

45.5%

share of carbon-free electricity generated by nuclear energy

437M

metric tons of carbon emissions avoided in 2023

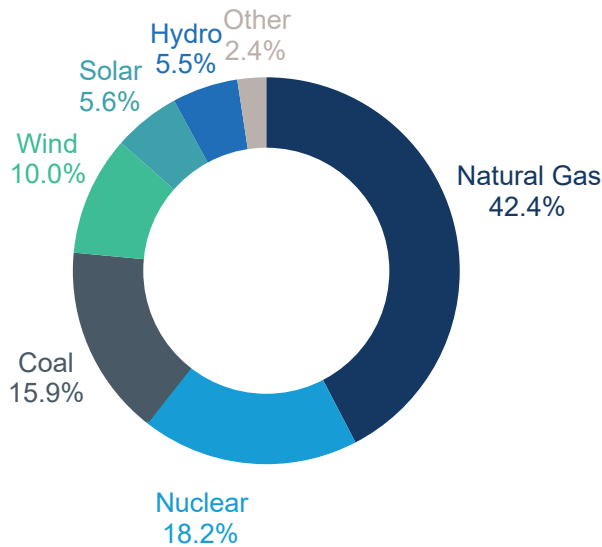
250,000

well-paying, sustainable direct and indirect jobs in the nuclear industry

93.0%

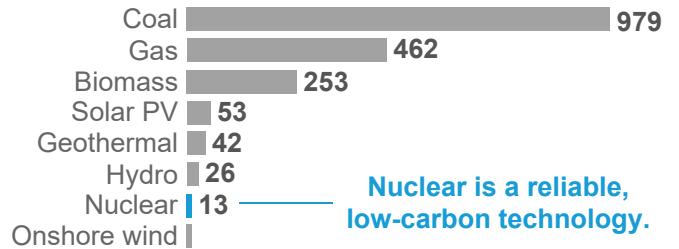
capacity factor of U.S. nuclear plants in 2023 as a reliable electricity source

U.S. GENERATION BY FUEL SOURCE 2023



COMPARISON OF LIFECYCLE EMISSIONS

Tons of Carbon Dioxide Equivalent per Gigawatt-Hour



Nuclear is a reliable, low-carbon technology.

5

uranium pellets generate a household's annual electricity, compared to 5 tons of coal

