

STATE ENERGY PROFILE

Sources of electricity in Virginia



2,000

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

82.7%

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

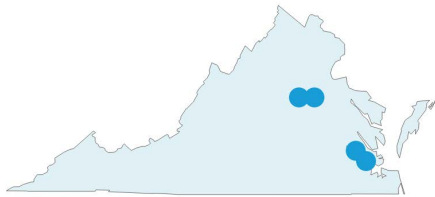
State Carbon Goals

100% carbon-free electricity by 2045 for Dominion Energy and by 2050 for Appalachian Power

Utility Carbon Goals

American Electric Power
Appalachian Power
Dominion Virginia Power
Old Dominion Elec. Co-Op
Tennessee Valley Authority

NUCLEAR PLANTS



92.2%

Capacity factor of nuclear plants in Virginia from 2021 to 2023

13.4 million

Metric tons of carbon emissions avoided by nuclear energy in Virginia

2.3 million

Number of homes powered by nuclear energy in Virginia

Nuclear News

In 2020, the Legislature defined nuclear as a clean and carbon-free and developed strategic plan for nuclear energy.

Surry 1 & 2 have received their Second License Renewal, and Dominion is pursuing the same for North Anna 1 & 2.

Two bills passed in 2024 to allow for advanced cost recovery for new nuclear energy projects.

Virginia created and funded a Nuclear Innovation Hub to support nuclear energy workforce development in 2023.

REACTOR DETAILS

| Reactor Name | County | Majority Owner(s) | Capacity (MW) | Capacity Factor (%) | License End Year |
|--------------|--------|-------------------|---------------|---------------------|------------------|
| North Anna 1 | Louisa | Dominion Energy | 948 | 91.6% | 2038 |
| North Anna 2 | Louisa | Dominion Energy | 944 | 91.3% | 2040 |
| Surry 1 | Surry | Dominion Energy | 838 | 93.2% | 2052 |
| Surry 2 | Surry | Dominion Energy | 838 | 92.8% | 2053 |

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%

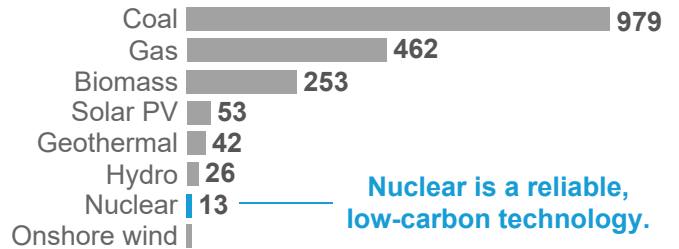
capacity factor of U.S. nuclear plants in 2023 as a reliable electricity source

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

