NUCLEAR ENERGY INSTITUTE

NUCLEAR ENERGY FACT SHEET 2024

West Virginia

STATE ENERGY PROFILE

Sources of electricity in West Virginia

300
High-paying, permanent jobs created at a new small modular reactor plant

394
Operating and retired coal plant sites that could be converted to nuclear plants

State Carbon Goals

None

Utility Carbon Goals

American Electric Power

FirstEnergy

NUCLEAR PLANTS

25%
Share of nuclear workers that are veterans

5
Multiple unit small modular reactor plants planned for operation by 2035

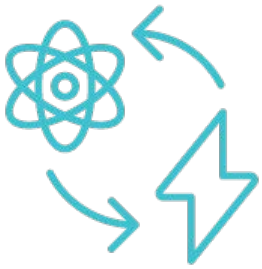
250
Number of additional U.S. jobs created by 100 nuclear jobs

Nuclear News

In 2022, the West Virginia legislature repealed the nuclear moratorium in the state, paving the way to building clean nuclear energy. In 2023 they passed a measure to support nuclear energy workforce in the state.

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

WHY NUCLEAR?



Nuclear powers America's cities and towns with reliable, 24/7 clean energy.

Nuclear energy creates jobs and supports local communities, with each of today's large operating reactors providing 500 to 800 jobs.

Nuclear energy is the largest source of emissions-free energy in the United States.

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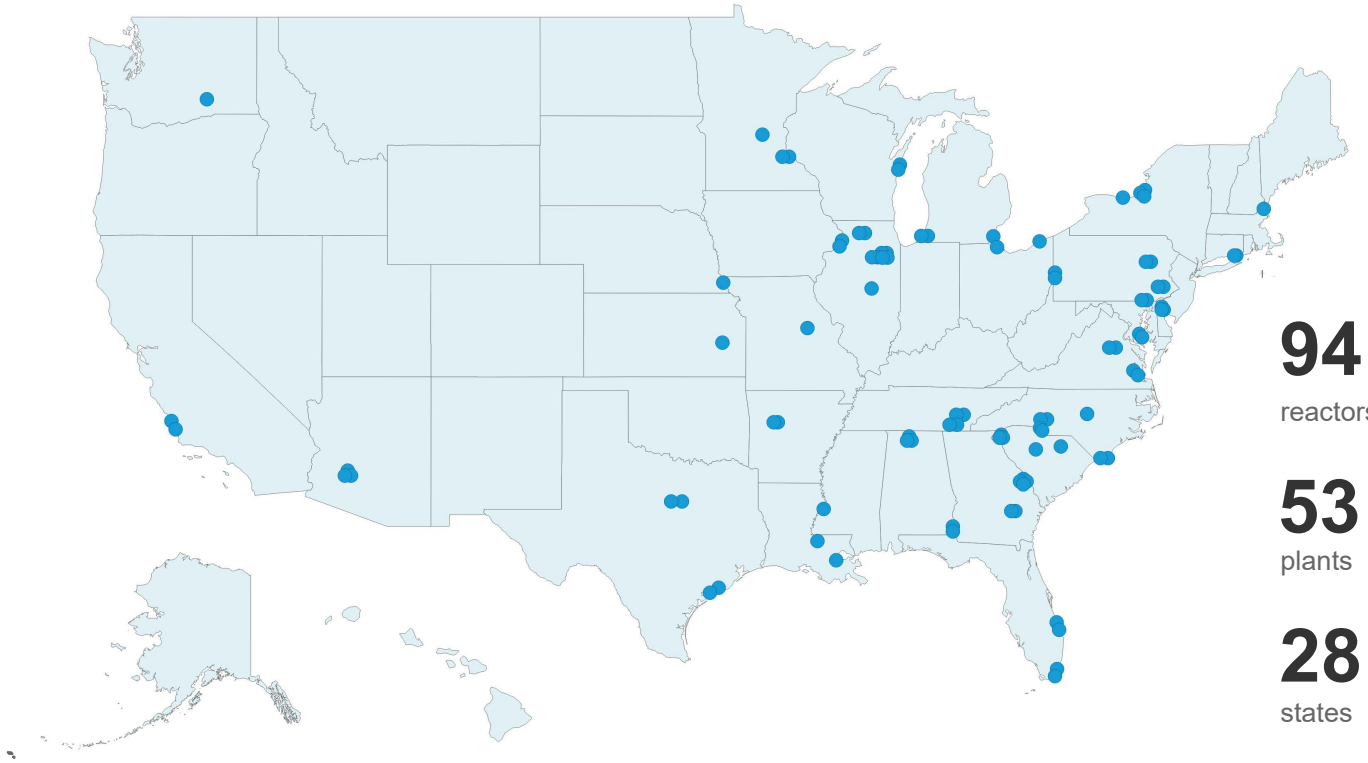
United States

NUCLEAR POWER ACROSS THE U.S.



94 reactors

53 plants

28 states

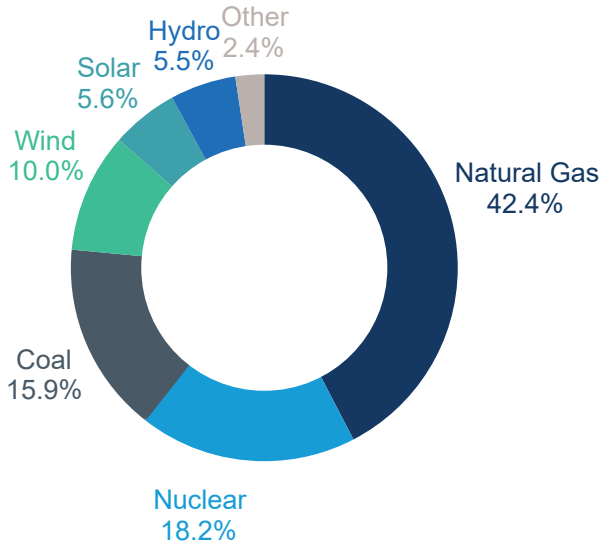
45.5%
share of carbon-free electricity generated by nuclear energy

437M
metric tons of carbon emissions avoided in 2023

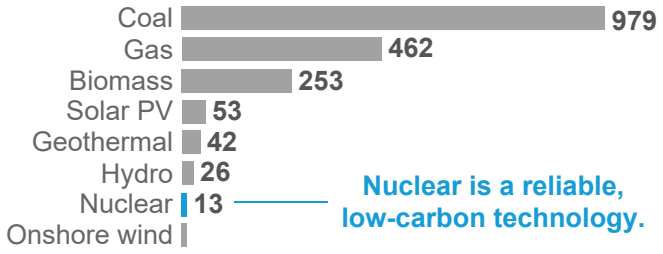
250,000
well-paying, sustainable direct and indirect jobs in the nuclear industry

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



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