NUCLEAR ENERGY INSTITUTE

NUCLEAR ENERGY FACT SHEET 2024

Pennsylvania

STATE ENERGY PROFILE

Sources of electricity in Pennsylvania

3,300
High-paying, reliable jobs provided by Pennsylvania's nuclear plants

91.9%
Nuclear's share of Pennsylvania's carbon-free electricity, complementing wind and solar

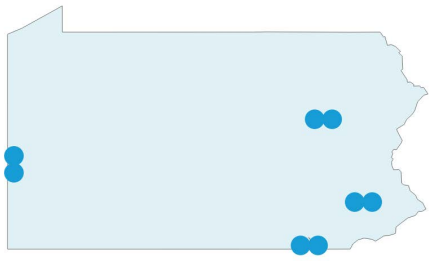
State Carbon Goals

None

Utility Carbon Goals

Constellation Energy
FirstEnergy
PPL Corporation
Talen Energy
UGI Corporation

NUCLEAR PLANTS



95.1%
Capacity factor of nuclear plants in Pennsylvania from 2021 to 2023

35.2 million
Metric tons of carbon emissions avoided by nuclear energy in Pennsylvania

7.3 million
Number of homes powered by nuclear energy in Pennsylvania

Nuclear News

Pennsylvania State University is exploring the deployment of the Westinghouse eVinci microreactor as a sustainable energy source for the campus.

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
Beaver Valley 1	Beaver	Vistra	907	92.7%	2036
Beaver Valley 2	Beaver	Vistra	901	93.1%	2047
Limerick 1	Montgomery	Constellation Energy	1,120	99.0%	2044
Limerick 2	Montgomery	Constellation Energy	1,122	96.5%	2049
Peach Bottom 2	York	Constellation & PSEG	1,265	101.0%	2053
Peach Bottom 3	York	Constellation & PSEG	1,285	97.9%	2054
Susquehanna 1	Luzerne	Talen Energy	1,247	91.3%	2042
Susquehanna 2	Luzerne	Talen Energy	1,247	88.8%	2044

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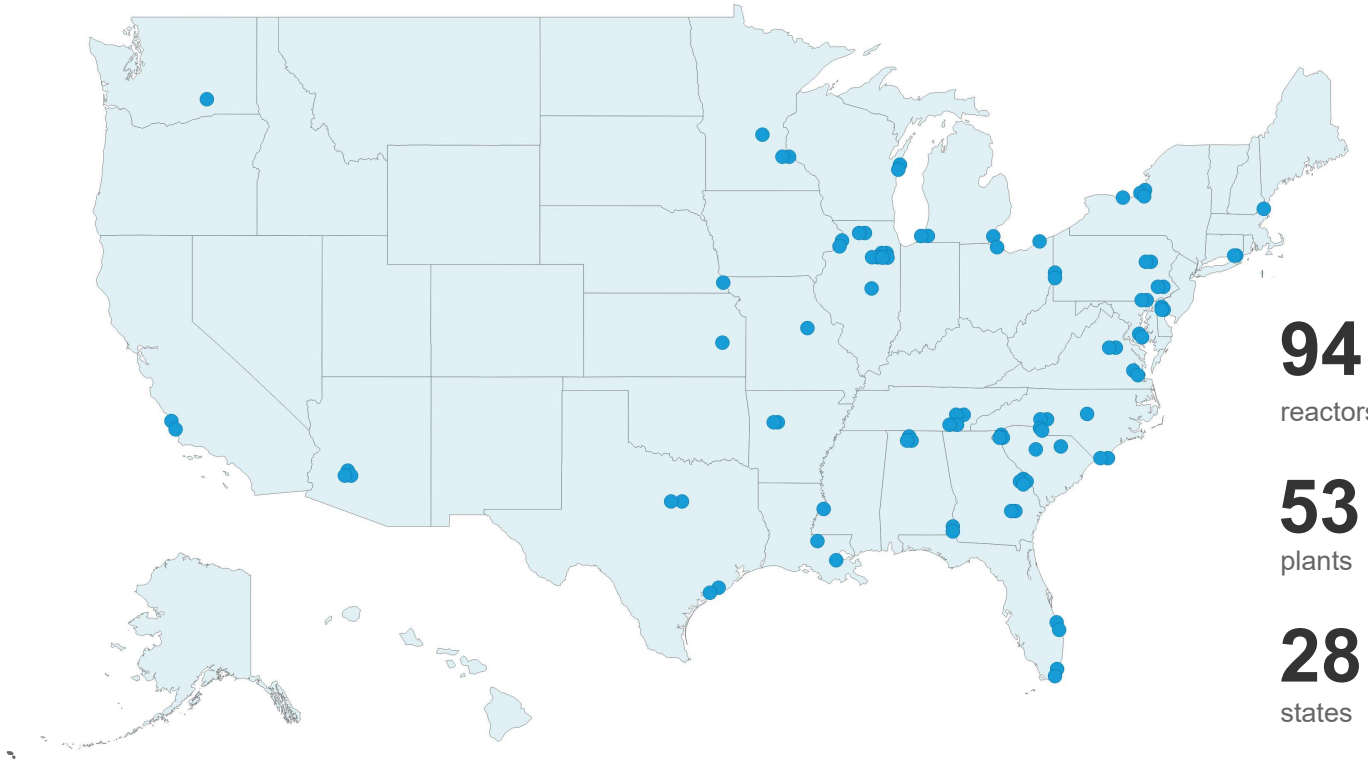
United States

NUCLEAR POWER ACROSS THE U.S.



94 reactors

53 plants

28 states

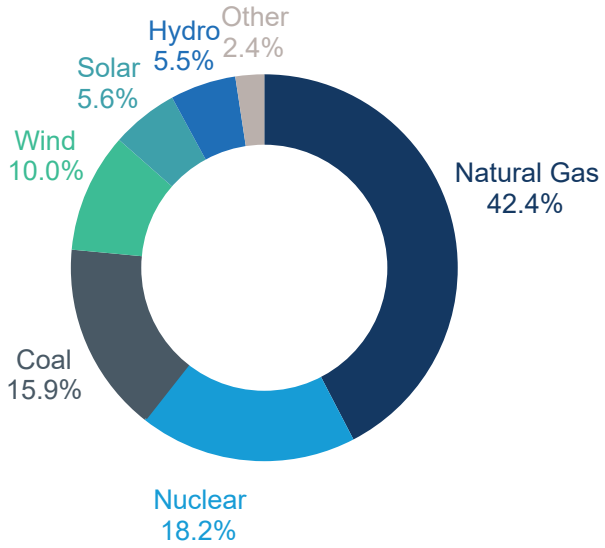
45.5%
share of carbon-free electricity generated by nuclear energy

437M
metric tons of carbon emissions avoided in 2023

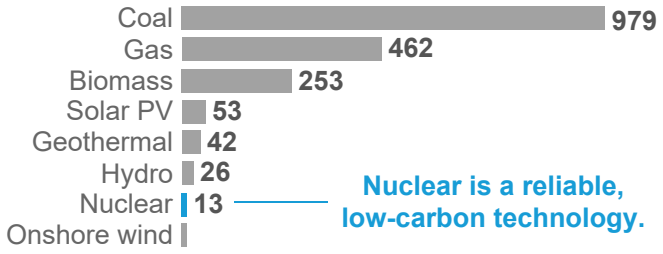
250,000
well-paying, sustainable direct and indirect jobs in the nuclear industry

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