

STATE ENERGY PROFILE

Sources of electricity in Michigan



2,650

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

73.1%

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

State Carbon Goals

100% clean electricity by 2040

Utility Carbon Goals

American Electric Power
Consumers Energy
DTE Energy
Lansing Water & Light
WEC Energy Group
Xcel Energy

NUCLEAR PLANTS



90.1%

Capacity factor of nuclear plants in Michigan from 2021 to 2023

16.0 million

Metric tons of carbon emissions avoided by nuclear energy in Michigan

3.6 million

Number of homes powered by nuclear energy in Michigan

Nuclear News

AEP is pursuing second license renewal for D.C. Cook for 20 additional years of reliable, carbon-free electricity.

In 2023, Michigan passed a 100% clean energy standard that includes nuclear energy.

In March 2024, the Michigan Public Service Commission published a nuclear feasibility study required by the legislature.

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
Cook 1	Berrien	AEP	1,009	94.0%	2034
Cook 2	Berrien	AEP	1,168	92.2%	2037
Fermi 2	Monroe	DTE Energy	1,141	84.7%	2045

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%

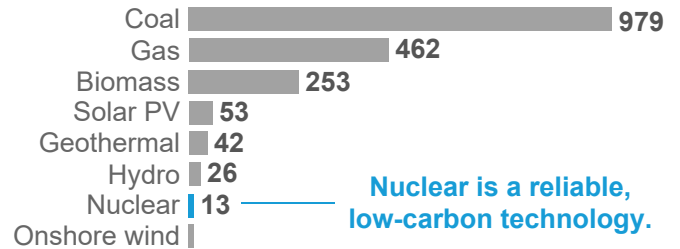
capacity factor of U.S. nuclear plants in 2023 as a reliable electricity source

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

