



Power Regions Part III: Nuclear Energy Economy in the Southeast

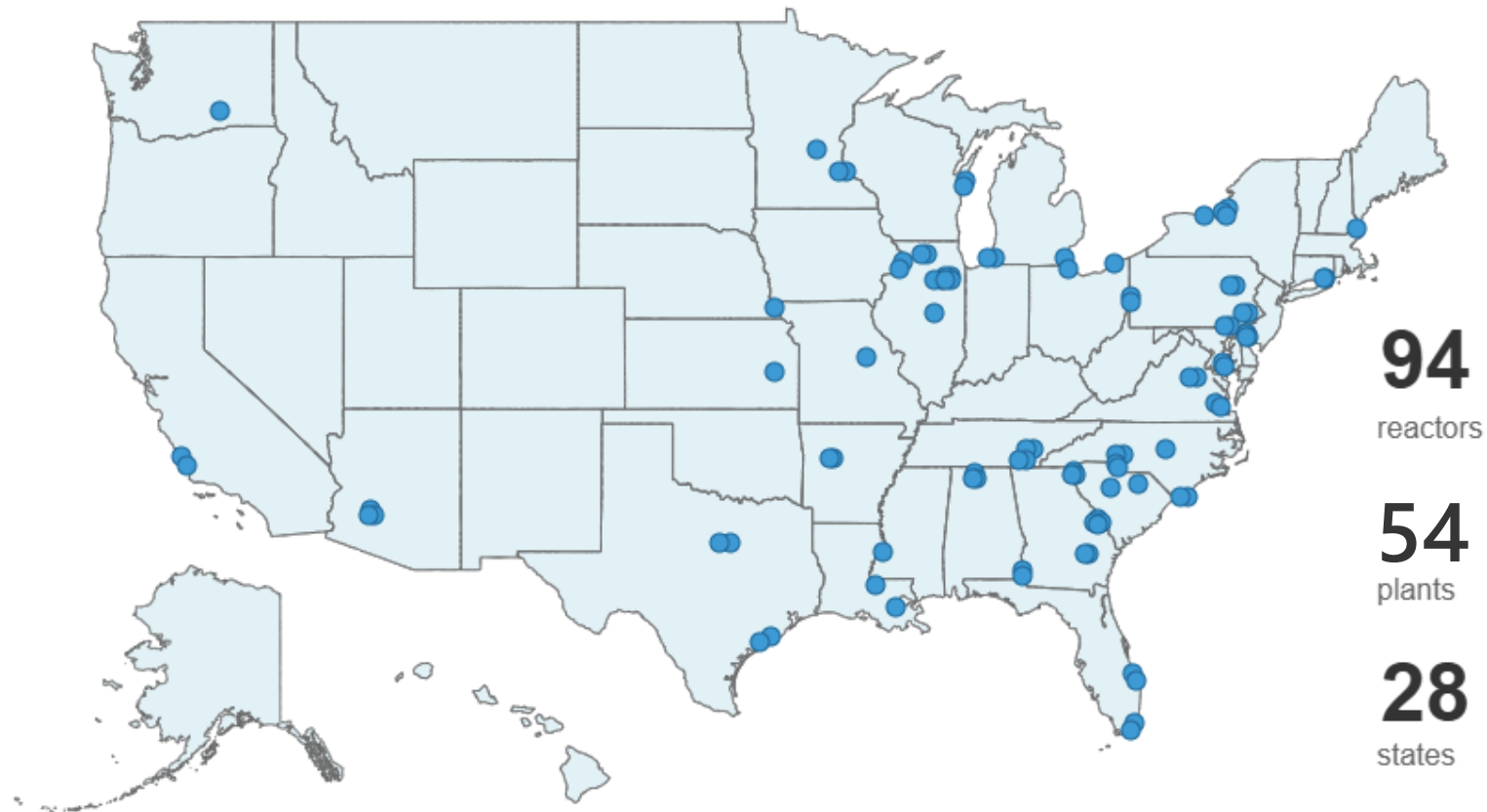
Matt Rasmussen, Senior Vice President and Chief
Nuclear Officer, TVA

July 23, 2026

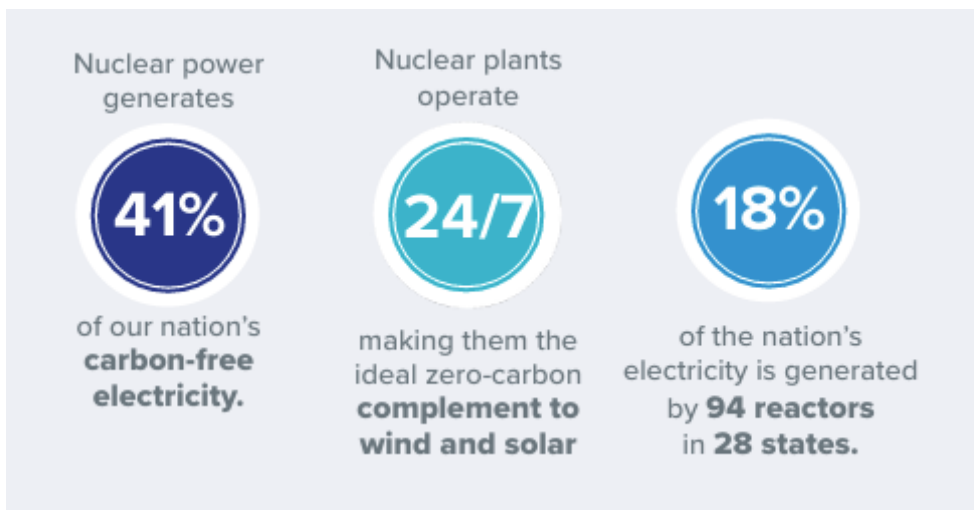


Nuclear in the United States

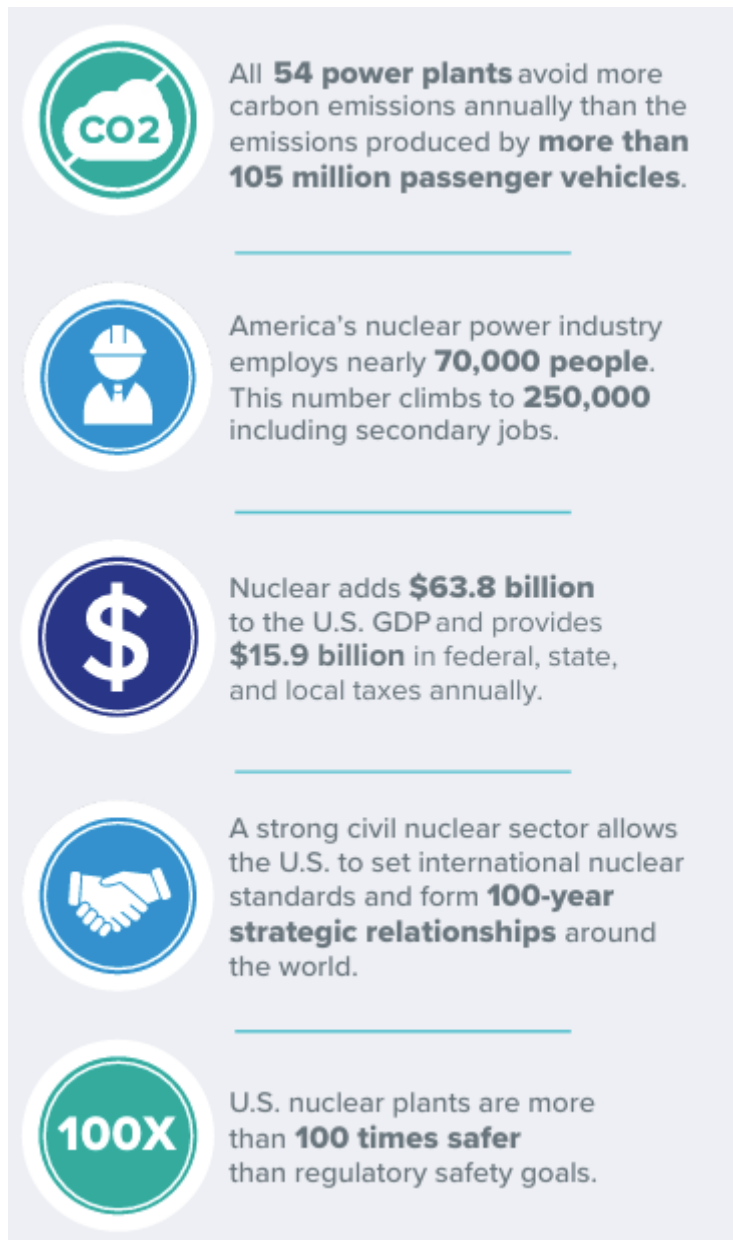
NUCLEAR POWER ACROSS THE U.S.



Nuclear Generation – Just the Facts



© Nuclear Energy Institute 2026



Nuclear's Unique Value

- Each nuclear power plant employs 500-800 workers and can operate 80 years or more
 - Jobs for multiple generations of workers
- Building a nuclear reactor employs up to 4,500 workers at peak construction
- The median hourly wage for jobs in the nuclear generation industry is more than 116% higher than the national median hourly wage across all industries
- Nuclear energy provides high-paying jobs for people from a wide range of fields and educational backgrounds – recruiting from universities, community colleges, the military and the trades
- Nuclear is the total package for Energy Infrastructure
 - Superior Reliability
 - Enormous Clean-Air Compliance Value
 - Large-Capacity Power Generation
 - Boost to Local Economies



Nuclear Energy Leaders

- **New nuclear:** Alaska, Connecticut, **Florida**, **Georgia**, Idaho, Indiana, **Kentucky**, Michigan, Montana, Nebraska, New Hampshire, **North Carolina**, North Dakota, South Dakota, **Tennessee**, Texas, Utah, **Virginia**, Washington, **West Virginia**, Wyoming
- **Nuclear defined as clean energy:** Idaho, Maryland, Minnesota, **North Carolina**, North Dakota, **Tennessee**, Utah, **Virginia**, Washington
- **Governor clean energy goals:** Connecticut, **Louisiana**, Massachusetts, New Jersey, **North Carolina**, Rhode Island, **Virginia**, Wisconsin
- **Reactivating plants:** Michigan, Pennsylvania, and Iowa
- **Preserving existing plants:** California, Illinois, New Jersey, New York

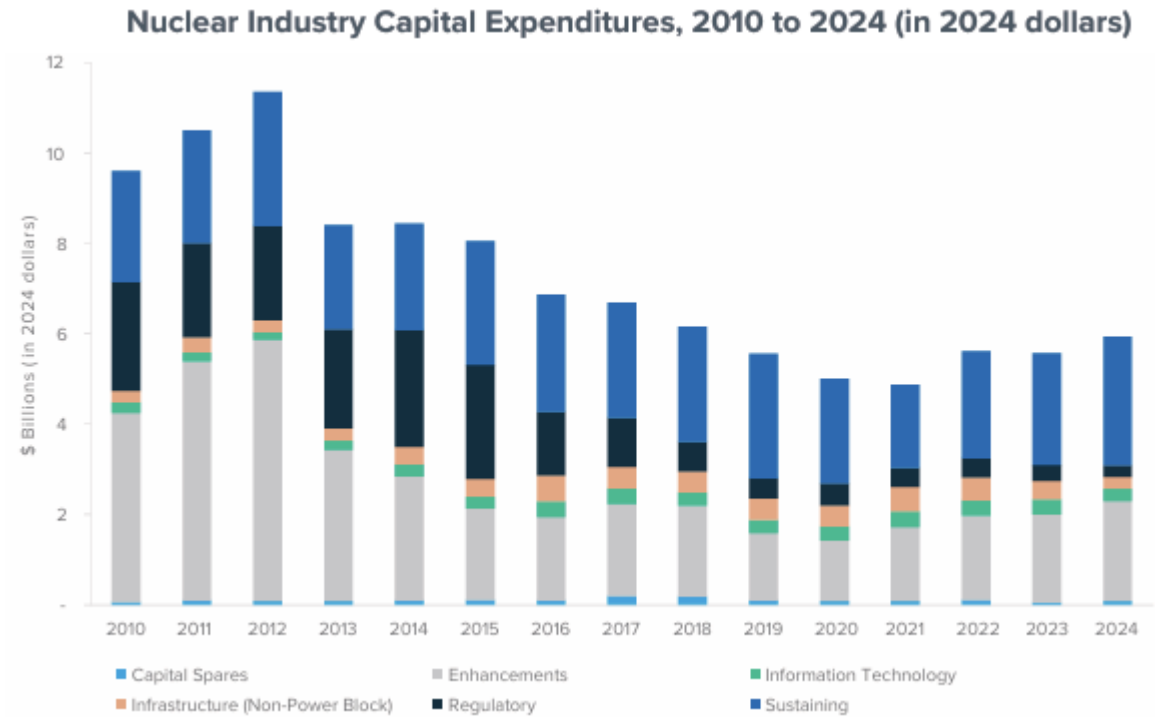
Recent Policy Trends

- A Shift to Action and Deployment
- Inclusion of Nuclear Energy as Clean and expanding Opportunities
- Significant Public Investment
- Focus on Workforce Development and Supply Chain
- National or Regional Associations supporting Nuclear Energy Development

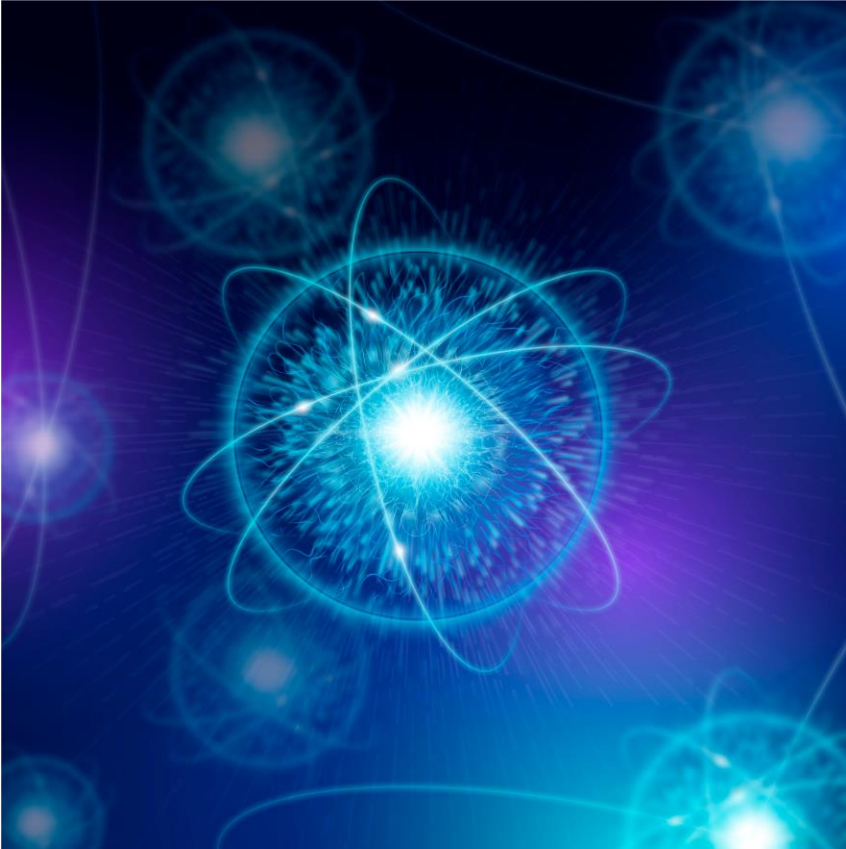


Optimize

- Extended Power Uprate (1977-2021)
 - 8029.4 MWe
- Cycle Extensions
 - Pressurized Water Reactors from 18 to 24 Months
- Capital Investment

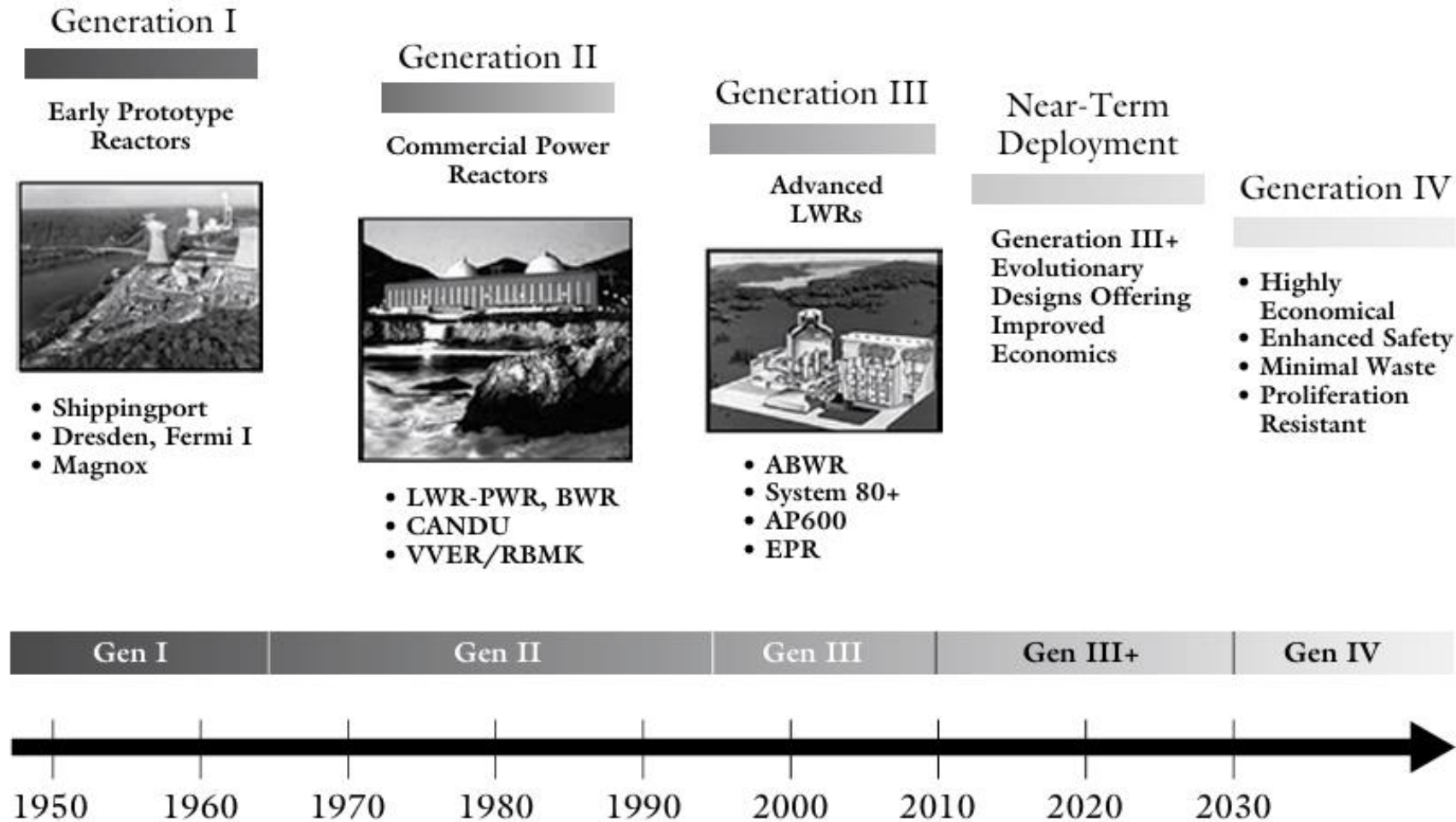


Extend



- Initial License Renewal – 40-60 Years
 - NRC has approved 94 reactors
 - Ten reactors have since ceased operations prematurely
- Second License Renewal – 60-80 Years
 - Approved Licenses – 9 Units
 - Licenses Under Review – 13 Units
 - Anticipated Renewal Applications – 26 Units
 - Publicly Announced Intentions for Renewal – 8 Units
- Unit Restarts
 - Duane Arnold
 - Palisades
 - Three Mile Island

The Evolution of Nuclear Power

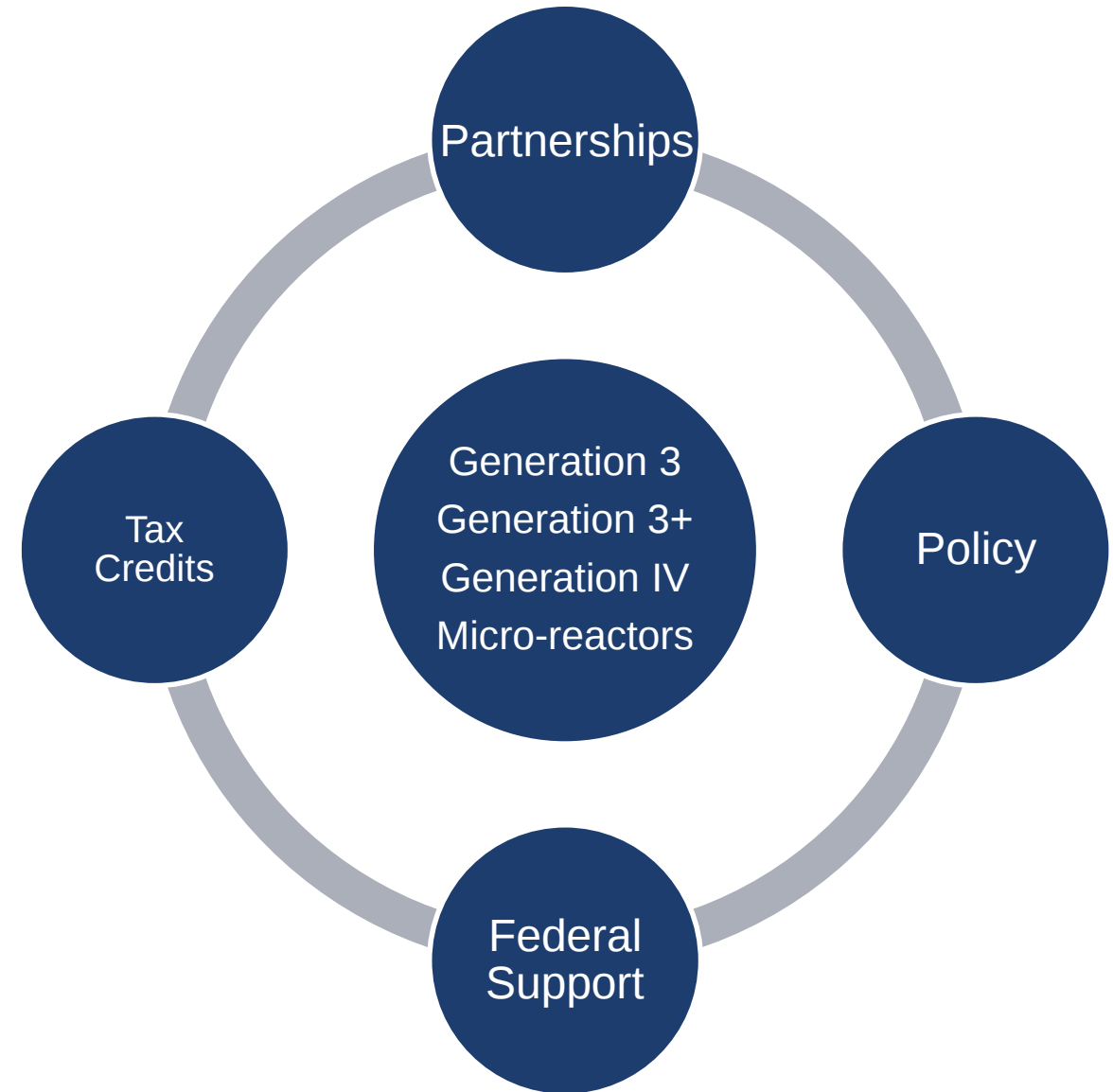


Reprinted from U.S. Department of Energy, Office of Nuclear Energy, "Generation IV Nuclear Energy Systems: Program Overview" (Department of Energy, n.d.), <http://nuclear.energy.gov/genIV/neGenIV1.html>

Explore



© Nuclear Energy Institute 2026



Looking Forward



© Nuclear Energy Institute 2026

Questions

