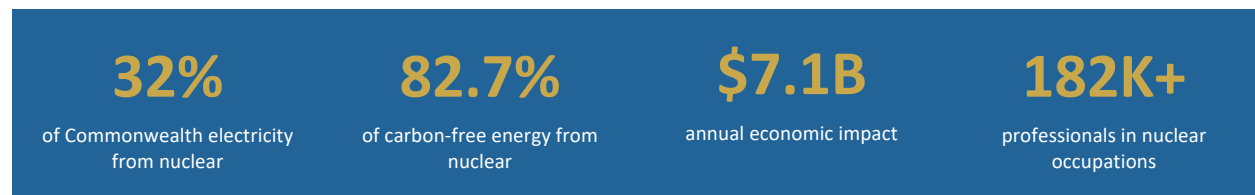


ABOUT VIRGINIA'S NUCLEAR LEGACY

Virginia Is Nuclear

Virginia's history with nuclear energy dates back to April 1957, when the nation's first nuclear generator went online at Fort Belvoir and began producing power for the electric grid. Today, a compelling array of regional assets bolsters Virginia's position as a national and industry leader in nuclear capability and expertise. These assets include world-class port infrastructure, established nuclear fuel fabrication and services firms, nuclear shipbuilding, nuclear power generation facilities with decades of safe and reliable operations, highly engaged educational institutions, tens of thousands of nuclear-capable workers, and proximity to the seat of the federal government.

Nuclear reactors generate roughly 95 percent of the Commonwealth's carbon-free energy and 32 percent of all its electricity. Advanced small modular reactors (SMRs) and other advanced reactor technologies are a fraction of the size of traditional reactors — much of an SMR can be manufactured at a factory and transported to the site for installation, dramatically accelerating deployment timelines.



GOVERNANCE

VNECA & VNEC

In 2013, the Governor and the General Assembly created two complementary bodies to lead Virginia's nuclear future:

Virginia Nuclear Energy Consortium Authority (VNECA)

- Making Virginia a national and global leader in nuclear energy, science, and technology
- Serving as an interdisciplinary study, research, and information resource for nuclear energy in Virginia
- Establishing the VNEC non-profit corporation responsible for conducting activities to achieve VNECA's goals

Virginia Nuclear Energy Consortium (VNEC) — Incorporated 2015

- Sustaining and enhancing Virginia as a national and global leader in nuclear energy
- Serving as an interdisciplinary business development, research, training, and information resource on nuclear energy issues
- Advocating for Virginia's nuclear industry at the state and federal level

L E G I S L A T I V E H I S T O R Y

Notable Activities & Legislation

2013	HB 1790 & SB 1138 — Created the Virginia Nuclear Energy Consortium Authority (VNECA) and Virginia Nuclear Energy Consortium (VNEC)
2019	HB 2008 & SB 1348 — Created the 17th Career Cluster for Energy at the Virginia Department of Education
2020	SB 828 — Created definitions of "carbon-free energy" and "clean energy"
2020	SB 817 — Declared nuclear energy to be a clean energy source
2020	SB 549 & HB 1303 — Directed the creation of a strategic plan for nuclear energy
2020	SJ 60 — Encouraged advancement of nuclear energy research and exploration of economic opportunities
2021	Budget language secured one-time planning grant for VNECA to develop a nuclear research and innovation hub
2022	HB 894 — Directed the Department of Energy to study advanced SMR development and convene a stakeholder work group
2023	HB 2386 & SB 1464 — Virginia Power Innovation Fund and Program
2023	HB 1779 — Nuclear Education Grant Fund and Program
2023	The 2022 Virginia Energy Plan calls for Virginia to become the nation's leader in SMR technology and develop the first commercial SMR
2024	SB 454 — Dominion Energy; recovery of development costs associated with small modular reactor
2024	HB 1491 — AEP; recovery of development costs associated with small modular nuclear facility

S T R A T E G I C D I R E C T I O N

Virginia Is Nuclear Strategic Plan

Developed by the industry and stakeholders, the Virginia Is Nuclear Strategic Plan serves as a blueprint for leveraging the power of the atom for the benefit of all residents of the Commonwealth. Virginia is the only state with a strategic plan dedicated to the nuclear industry. The plan outlines a number of strategic goals around which the industry has focused its future:

- Encourage and support the deployment of new nuclear reactors and fuel technologies, including advanced and small modular reactors, to meet growing energy demands
- Establish a research and education reactor facility in the Commonwealth to support advanced nuclear research and provide hands-on training opportunities for students

- Identify and secure funding for new nuclear projects, including grants and financing for advanced energy, manufacturing, fuel fabrication, nuclear materials, nuclear medicine, and other nuclear-related initiatives
- Create programs to support innovation in the nuclear industry and promote education in fields that meet future workforce demands
- Expand and deploy incentive programs to increase Virginia's nuclear supply chain programs for commercial nuclear technology, nuclear medicine, and other nuclear-related activities

RESEARCH & INNOVATION

Virginia's Innovative Nuclear Hub (VIN Hub)

The VIN Hub brings together Virginia's nuclear industry, universities, and government to define and deploy highly collaborative research and projects — advancing nuclear energy technologies across R&D, workforce development, education, supply chain, and advanced manufacturing.

Mission

- Bring together Virginia's nuclear resources to define and deploy highly collaborative research and projects
- Advance Virginia's nuclear energy technologies through the coordinated efforts of industry and academia in research, workforce development, education, supply chain, and advanced manufacturing

VIN Hub Will

- Facilitate applied research and technology deployment for solutions that support a carbon-free future
- Actively support the development of the nuclear workforce across the Commonwealth
- Promote public awareness and understanding of the benefits of nuclear energy
- Pursue funding for new initiatives spanning multiple disciplines and R&D performers — including universities, private industry, non-profits, and national laboratories
- Serve as a pathway to promote innovation and collaboration for students, researchers, and industry, creating a broad and deep Virginia workforce of the future
- Serve a clearly identified role in applied research for innovation and validation of key aspects of advanced nuclear technologies, focused on safety, reliability, and improved economics

VIRGINIA BY THE NUMBERS

Nuclear Facts

Virginia's Nuclear Energy Profile

- 32% of the Commonwealth's power comes from zero-emission nuclear power (vs. 18.2% nationally)
- 82.7% of the Commonwealth's carbon-free energy is generated by nuclear power (vs. 45.5% nationally)
- 2.3 million homes in the Commonwealth are powered by nuclear power
- 182,952 Virginia professionals in relevant occupations to the industry
- \$7.1 billion direct, indirect, and induced economic impact
- 8 Virginia universities and community colleges offer nuclear-related degrees

Virginia's nuclear capabilities are unparalleled, with experience built over more than half a century across:

- Commercial nuclear electrical generation
- Nuclear propulsion technologies, including development for space exploration
- Manufacturing of naval nuclear reactors for submarines and aircraft carriers
- Advanced nuclear education and research by Virginia's world-class universities
- Nuclear fuel fabrication and advanced manufacturing by companies with global reach
- Nuclear-related services performed by numerous firms throughout the state