

Virginia Nuclear Energy Consortium Authority

2024 ANNUAL REPORT

VIRGINIA DEPARTMENT OF ENERGY

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Richmond, VA 23219



This report was developed by the Virginia Nuclear Energy Consortium Authority and does not represent the official position of any government agency or the Governor.

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2024 GOALS AND ACTIVITIES

The Authority identified several specific goals as priorities for their 2024 activities:

- 1) Continue to enhance strategic priorities to serve as a roadmap for future activity that has culminated in the drafting of the 'Virginia is Nuclear' 2020-2024 Strategic Plan as directed in § 67-1700 of the Virginia Code.
- 2) Continue to stress the importance to the Commonwealth of nuclear energy as a major source of zero carbon generation.
- 3) Continue to expand existing coordination and identify new opportunities for collaboration and support between VNECA and VNEC.
- 4) Support efforts to retain existing nuclear assets and investments in Virginia.
 - a) Support positive regulatory climate to preserve existing assets
 - b) Support public policy initiatives to enable investments needed to preserve existing and new nuclear assets, for both electricity and process heat.
- 5) Provide technical expertise and promote greater awareness amongst policymakers of the role nuclear energy can play in the Commonwealth's environmental and energy initiatives.
 - a) Utilize the Authority platform to bring increased information sharing opportunities about the state of the nuclear industry.
- 6) Provide advice and guidance to pursue specific aspects of the Virginia is Nuclear Strategic Plan.

Key Activities Conducted in 2024

Asset Inventory

To better understand and communicate the significant impact of the nuclear industry on Virginia's economy and workforce, the Authority maintains an inventory of nuclear assets in Virginia including private industry, utilities, educational institutions, and federal research laboratories. The Authority reviews the inventory quarterly.

The key findings from the asset survey are highlighted by the following summary. The full database of nuclear energy assets, including company employment and annual revenue figures, can be found in Appendix A.

2024 Authority Meeting Activities

The Authority held four meetings in the past calendar year (March 04, May 06, August 05 and October 07). Over the course of the year, the group considered several activities on which to focus their work efforts, including:

- Completion/submission of the 2024 Virginia Nuclear Energy Consortium Authority Annual Report to the Governor and members of the General Assembly.
- The Authority is working closely with the Administration to champion Virginia as a nuclear innovation leader
- The continued promotion of nuclear energy as a vital component in zero emissions electricity generation in the combat against global climate change.
- Communicating the importance of having a diverse energy portfolio that is flexible and resilient is key to sustainable energy and a strong economy
- Expanding the coordination and information exchange with other key Virginia stakeholder groups, including regular briefing opportunities with the Energy Delta Lab leadership.
- Continued efforts on educating members via technical and informational presentations, or engaging in advocacy work to focus on nuclear as a vital component of Virginia's energy mix; and
- Updates on nuclear energy policy in other States that may serve as an example for or have an impact on nuclear energy activity in Virginia.
 - The Authority in coordination with the Consortium has also served as an example for other States looking to build nuclear energy advisory activities, including Kentucky, West Virginia, and Idaho.

Presentations

In March 2024, Lukas Brun, E4 Carolinas, Managing Directors of Research and Economic Development, presented on their "The Economic Impact of the Nuclear Industry in the Southeast United States" study. The study presents a comprehensive analysis of the

economic impacts of the nuclear energy sector in the five-state region consisting of Georgia, North Carolina, South Carolina, Tennessee, and Virginia.

In May 2024, Glenn Davis, Director of the Virginia Department of Energy, spoke about the Clean Energy Innovation Bank. The bank would be used to draw down federal funds to provide loans to projects.

In August 2024, Peter Hastings, Vice President of Regulatory Affairs & Quality for Kairos Power, presented on Kairos power and the Hermes I and II reactors. The presentation provided an update on Kairos's standing and engagement in the NRC approval process and the roadmap for the Hermes reactors.

In October 2024, VNECA reviewed the 2024 Annual Report and the Update to the Strategic Plan.

AUTHORITY ADMINISTRATION

Virginia Nuclear Energy Consortium Authority Administration

The Virginia Nuclear Energy Consortium Authority Board elected the following slate of officers to lead the Board for 2024:

Chairman – Tom DePonty

Vice Chairman – Gary Tepper

Treasurer – Eugene Grecheck

Secretary – Virginia Energy

The full list of Authority Board Members is included in Appendix C.

Additionally, the Authority maintains a webpage on the Secretary of Commerce and Trade's website that serves as an information resource for nuclear energy in Virginia and the activities of the Authority. Authority Website -








<https://commerce.virginia.gov/initiatives/va-nuclear>

APPENDIX A:

VIRGINIA NUCLEAR ENERGY ASSET INVENTORY



Nuclear in Virginia: Educational Institutions

Updated 02/20/2024

Entity	Logo	Nature of Activity	Applicable Program(s)	Leadership	Virginia Presence	Founded	Revenue/ Funding, \$1M	Employees	Website
Christopher Newport University (CNP)		Public Liberal Arts University	Applied Physics (B.S.), Computational and Applied Mathematics (B.S)	Paul S. Triple Jr, President	Christopher Newport University, 1 Avenue of the Arts, Newport News, VA 23606	1961	166.5 (total revenue FY12)	~400 faculty	www.cnu.edu
George Mason University (GMU)		Public University	Systems Engineering (B.S.), Applied and Engineering Physics (M.S.)	Ángel Cabrera, President	4400 University Dr, Fairfax, VA 22030	1957	911 budget (FY14)	1,801 (includes part-time FTE)	www.gmu.edu
George Washington University		Private University	Physics (B.S., M.S., Ph.D.); Aerospace, Electrical, Mechanical, and Systems Engineering (B.S., M.Eng., M.S., Ph.D.)	Ellen M. Granberg, President	45155 Research Place, Ashburn, VA 20147	1821		11,500 faculty and staff	www.gwu.edu
Liberty		Private University	Mechanical Engineering (B.S., M.S., Ph.D.)	Jerry Prevo	1971 University Blvd, Lynchburg, VA, 24515	1971		~2,500 faculty	www.liberty.edu
University of Virginia (UVA)		Public Research University, Health System	Physics (B.S., M.S., Ph.D.); Aerospace, Electrical, Materials Science, Mechanical, and Systems Engineering (B.S., M.Eng., M.S., Ph.D.)	James E. Ryan, President	Thorton Hall, 351 McCormick Rd., Charlottesville, VA 22904-4203	1819	1,910 (academic division, FY19-20)	30,000 (incl. Health Systems)	www.virginia.edu
Virginia Commonwealth University (VCU)		Public Research University, Health System	Nuclear Engineering Concentration (B.S), Nuclear Engineering (M.S., Ph.D.), Department of Radiation Sciences	Michael Rao, President	821 West Franklin St, Richmond, VA, 23284	1838	967.4 budget (FY13-14)	20,241 (incl. medical center)	www.vcu.edu
Virginia Community College System (VCCS)		Community College Network	Engineering (AS), Engineering Technology (AAS), Nuclear Technology (AAR)	Dr. David Doré, Chancellor	300 Arboretum, Suite 200 Richmond, VA 23236	1966	1,276 (total revenue FY13)	11,000+ total faculty	www.vccs.edu
Virginia Tech (Virginia Polytechnic Institute and State University)		Public University, Research Institution	Nuclear Engineering Program (Ph.D., MS,ME)	Dr. Timothy D. Sands, President	925 Prices Fork Road, Blacksburg, VA, 24061-0002	1872	1,284.3 budget (FY13)	7,263	www.vt.edu




Nuclear in Virginia: Federal Research Laboratories

Updated 02/20/2024

Entity	Logo	Nature of Activity	Leadership	Virginia Presence	Founded	Revenue/ Funding, \$1M	Employees	Website
Thomas Jefferson National Accelerator Facility		Nuclear Physics Research	Kim Sawyer, Director	12000 Jefferson Ave, Newport News, VA 23606	1984	\$216M (FY24)	886	www.ilab.org/
US Navy (Norfolk Naval Shipyard)		Manufacturing, R&D, and support for US Navy	Captain Dianna Wolfson, USN	Norfolk Naval Shipyard, Portsmouth, VA, 23709	1767	1,016 (FY11-12)		www.navsea.navy.mil/shipyards/norfolk/











Nuclear in Virginia: Utilities

Updated 02/20/2024

Entity	Logo	Nature of Activity	Leadership	Virginia Presence	Founded	Revenue/ Funding, \$1M	Employees	Website
Dominion Resources		Power Generation, Transmission, Distribution	Robert M. Blue	600 E Canal St, Richmond, VA 23219	1983	13,120 (FY13)	14,500 (total)	www.dom.com
Old Dominion Electric Cooperative		Electricity Provider	Jackson Reasor, President and CEO	4201 Dominion Blvd, Glen Allen, VA, 23060	1948	842.1 (FY13)	~100	www.odec.com/
AEP/ Appalachian Power		Power Generation, Transmission, Distribution		1051 E Cary St # 1100, Richmond, VA 23219	1911		3,200 Employees	https://www.appalachianpower.com/









Nuclear in Virginia: Private Industry

Updated 10/07/2024

Entity	Logo	Nature of Activity	Leadership	Virginia Presence	Founded	Revenue/ Funding, \$1M	Employees	Website
Abbitz Measurement, Inc.		Pressure Systems Instrumentation	Tammy Nicoll, President	1619D Diamond Springs Rd, Virginia Beach, VA, 23455	2009		~10-20	www.abbitz.com
ABZ, Inc.		Fluid Flow Consulting	Ed Abbott, President	4451 Brookfield Corporate Drive, Suite 101, Chantilly, VA, 20151	1986		~10	www.abzinc.com
Action Technology, Inc.		Staffing, Consulting, Training	Bonnie Lonon, President and CEO	3121 E. Boundary Ct., Midlothian, VA, 23112	1982	24	~250	www.action-tech.com
Advex Corporation		Machining and Fabrication	George Hill Jr, President	121 Floyd Thompson Drive, Hampton, VA, 23666	1969		180	
Aerofin		Heat transfer applications supplier	David Corell, President	4621 Murry Place, P.O. Box 10819, Lynchburg, VA, 24502	1923			www.aerofin.com
Affordable Fastener Supply Company		Hardware Supply	Carl Grunthaler, President and CEO	312-G Old York Hampton Highway, Yorktown, Virginia, 23692	2005			www.affordablefast.com
Air Systems, Inc.		Filtration, Air Systems	David Angelico, President	821 Juniper Crescent, Chesapeake, VA, 23320			42	www.airsystems.cc
AMEC		Engineering, Project Management, Consulting	Samir Brikho, CEO	14424 Albemarle Point Place, Suite 115, Chantilly, VA, 20151; 1070 West Main St, Suite 5, Abingdon, VA, 24210; 2028 Dabney Rd, Suite E-18, Richmond, VA, 23230; One Colubums Center, Suite 600, Virginia Beach, VA, 23642	1982	6,735 (FY13)	~27,000	www.amec.com
American Operations Corp.		Analysis, Consultancy, Specialist Services	L. Frank 'Smokey' Field, Chairman and CEO	14030 Thunderbolt Place, Suite 700, Chantilly, VA, 20151	1983		~200	www.aocwins.com
Applied Technical Services		Nondestructive Testing	Jim Hills, President	2312 Commerce Center Drive, Suite A, Rockville, VA 23146; 5566 General Washington Drive, Alexandria, VA, 22312; 1325-B Cavalier Blvd, Chesapeake, VA	1967		~600	www.atslab.com









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Ares Security Corporation		Security Consulting and Applications	Ben Eazzetta, President	8045 Leesburg Pike, Suite 400, Tysons Corner VA 22182	2012		850+ (incl. ARES Holding)	www.aressecuritycorp.com
Axiom Quality Assurance		Consulting and Analysis		P.O. Box 328, McLean, VA, 22101				www.axiomqa.com
Bauer Compressors, Inc.		Compressors and High Pressure Systems	Tony Bayat, President	1328 Azalea Garden Rd, Norfolk, VA 23502	1946			www.bauercomp.com
Bechtel		Engineering, Construction	Brendan Bechtel, Chairman & CEO	12011 Sunset Hills Rd, Reston, VA, 20190	1898	37,900 (FY12)	53,000+ (total)	www.bechtel.com/
Beta Analytics International, Inc.		Access Control, Security, Fire Protection	Darden Hood, President	2677 Prosperity Avenue, Suite 400, Fairfax, VA, 22031	1979		~300	www.radiocarbon.com
Boh Environmental, LLC		Container Systems	Eric Hediger, President	14520 Avion Pkwy, Chantilly, VA 20151	1998		~15	www.bohfupsystems.com
BWX Technologies, Inc.		Nuclear design, engineering, manufacturing and services	Rex D. Geveden, President and CEO	800 Main Street, Lynchburg 2016 Mt. Athos, Lynchburg 1570 Mt. Athos, Lynchburg 109 Ramsey Place, Lynchburg 110 Ramsey Place, Lynchburg 107 Vista Centre Drive, Forest	Company history dates back to 1856	\$2.5B (CY2023)	7,800	www.bwxt.com
Caliper Inc.		Staffing and Recruitment	Robert Y. Green, Jr, President and CEO	512 Central Drive, Virginia Beach, VA, 23454; 4907 Fitzhugh Ave, Suite 201, Richmond, VA, 23230; 11325 Random Hills Rd, Suite 360, Fairfax, VA, 22030	1984			www.caliper.net
CBG, LLC		Metal Disintegration & Stud Removal	Ken Guthrie, Owner	4013 Seaboard Court, Suite A-3, Portsmouth, VA, 23701	2002			www.cbgmaintenance.com










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Chemetrics, Inc.		Water Testing	Bruce H. Rampy, President	4295 Catlett Rd, Midland, VA, 22728	1969		55+	www.chemetrics.com
CMC Technical		Staffing and Recruitment		502 Viking Drive, #102, Virginia Beach, VA, 23452	1978			www.cmc-jobs.com
Coastal Network of Virginia, LLC		Radiation Safety		600 Plantation Ct, Charlottesville, VA, 22903	1987		5	www.nuclearsupply.com
Communications-Applied Technology		Communication Systems Design and Manufacturing	Seth Leyman, President and Founder	11250-14 Roger Bacon Drive, Reston, VA, 20190	1982		~15	www.c-at.com
CraneTech Solutions CTS		Cranes & Lifting Equipment	Frank Hegan, President	2030 Ponderosa St, Portsmouth, VA, 23701	1958			www.ct-sol.com
Dominion Engineering, Inc.		Technical Consulting Services	Robert D. Varrin, JR, Ph.D, Principle Officer	12100 Sunrise Valley Drive, Suite 220, Reston, VA, 20191	1980		<50	www.domeng.com
Donley Technology		Environmental Health and Safety Information	Elizabeth M. Donley, Founder and Executive Director	P.O. Box 152, Colonial Beach, VA, 22443	1988			www.donleytech.com
DynCorp International		Security Training and Consulting	Steven F. Gaffney, Chairman and CEO	1700 Old Meadow Road, McLean, VA 22102	1946	~3,000 (FY10)	16,800 (2009)	www.intellpros.com
Eddy Current Technology, Inc.	Eddy Current Technology Incorporated	Eddy Current Testing		201A Horace Ave, Virginia Beach, VA, 23462				www.eddy-current.com
Electric Motor and Contracting Company, Inc.		Motor repair, decontamination, refurbishment	James L. King, President CEO	3703 Cook Blvd, Chesapeake, VA, 23323	1960	~30	~200	www.emc-co.com











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F.N. Anderson & Associates		Engineering Analysis and Services	Floyd N. Anderson, President	87 Braxton Lane, Forest, VA, 24551	1993		~4	www.fnaai.com
Finite Matters, Ltd.		Management Solutions, Consulting, Software	Anthony Luca, Owner	3064 River Road West, Suite B, Goochland, VA, 23063	1991		<10	www.fml.com
Flowserve		Pumps, Valves, Tubing	Mark A. Blinn, President and CEO	5114 Woodall Rd, Lynchburg, VA 24502	1997	4,954 (FY13)	15,000+	www.flowserve.com
Framatome Inc.		Engineering, Design, Manufacturing, Nuclear Services and Support	Anthony Robinson, President and CEO	Corporate Headquarters 3315 Old Forest Road Lynchburg, VA 24501 Solutions Complex 1724 Mt. Athos Road	1958	~\$1 billion	2,300	www.Framatome.com
Fuji Electric America		Power Electronics Technology	Michihiro Kitazawa, President and Chairman (Fuji Global)	5115 Bernard Drive, Suite 102, Roanoke, VA, 24018 (Drives and Inverters Dept.)	1923	7,315 (consolidated sales FY12)	~25,000	www.fujielectric.com
Honeywell (Uvex Safety Frames)		Safety Products, Eye + Face Protection	David M. Cote, Chairman and CEO	690 HP Way, Chester, VA, 23836	1906	37,665 (FY12)	~132,000 (worldwide)	www.honeywellsafety.com
Huntington Ingalls		Shipbuilding, Nuclear Operations, Engineering Services	Mike Petters, President and CEO	4101 Washington Ave., Newport News, VA, 23607	2008	6,800 (FY13)	39,000+ (total)	www.huntingtoningalls.com
ICF International, Inc.		IT Services, Research, and Consulting	Sudhakar Kesavan, Chairman and CEO	9300 Lee Hwy, Fairfax, VA, 22031	1969	949 (FY13)	4,500+	www.ifci.com
Innerspec Technologies		Engineering Consultant	Borja Lopez, CEO	2940 Perrowville Rd, Forest, VA 24551	1989		58	https://www.innerspec.com
Interdevelopment, Inc.		Management Consulting and Business Research	Margareta Luddemann, President and CEO	P.O. Box 15249, Arlington, VA, 22215	1967	<1	~10	www.interdevelopment.com











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Invensys Eurotherm		I&C sales, support, repair	Mike Caliel, President and CEO (Invensys)	44621 Guilford Drive, Ashburn, Virginia, 20147	1952			www.eurotherm.com
ITC Learning		Industrial Skills Training	Gloria MacCorkindale, Vice President	13515 Dulles Technology Drive, Herndon, VA, 22171		~3	~40	www.itclearning.com
JGW Group		Business Development, Training, Consulting	Andrew Wilson, President	1801 Robert Fulton Drive, Suite 400, Reston, VA, 20191	1980		10 (+int'l associates)	www.jgwgroup.com
KSB, Inc.		Pumps, valves, and systems supplier	Ed Harvie, President (KSB USA)	4415 Sarellen Rd, Henrico, VA, 23231		~3,125	16,500+ (global)	www.ksb.com
Lightbridge		Fuel Cycle Consulting and Design	Seth Grae, President and CEO	1600 Tysons Blvd, Suite 550, Tysons Corner, VA, 22102	1992			www.ltbridge.com
Limitorque Corp. (subsidiary of Flowserve)		Actuators	Mark A. Blinn, President and CEO (Flowserve)	5114 Woodall Rd, Lynchburg, VA 24502	1929 (Limitorque)	4,954 (FY13) (Flowserve)	15,000+ (Flowserve)	www.flowserve.com/Limitorque
Mega-Tech Services, LLC		Tooling, Engineering Consulting	Deanna R. Bowen, President	11118 Manor View Drive, Mechanicsville, VA, 23116				www.mecha-techservices.biz
MELD Manufacturing		Manufacturing and Design		200 Technology Drive, Christiansburg, VA 24073	2018			http://meldmanufacturing.com/
Mitsubishi Nuclear Energy Systems		Vendor, Nuclear Services	Makoto Toyama, President and CEO	1001 19th St N #2000, Arlington, VA	2006		200+ (site-specific)	www.mnes-us.com/
MPR Associates, Inc.		Engineering and Management Services	Bob Coward, Principle Officer	320 King St, Alexandria, VA, 22314	1964		~200	www.mpr.com






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Novatech USA		Engineering and Manufacturing Services	Mr. Richard Fl. Rochow, President	220 Jefferson Ridge Parkway Lynchburg, VA 24501	1994		35	http://novatechusa.com/industries/nuclear/
Nuclear Energy Support International, LLC		Staffing and Recruitment	Mary Ann Snyder, Owner	Lynchburg, VA 24501	1983			www.nesillc.com
OFI Custom Metal Fabrication		Safety Related Fabrication	Jim Clifford, President	10412 Design Road, Ashland, VA, 23005	1982			www.osfi.com
Proxtronic, Dosimetry LLC		Dosimetry Services	W. Guy Davis, President and CEO	85 S. Bragg St, Suite 400, Alexandria, VA, 22312	1990			www.proxtronicdosimetry.com
Radiological Training Services, LLC		Radiological Training	John Duley, Producer	6538 Koziara Drive Burke, VA, 22015	1999		<5	www.radiationvideos.com/about.html
Radium, Inc.		Steam Generator Services, Products	Cam Abernethy, President and Owner	463 Dinwiddie Ave, Waynesboro, VA, 22980	2004		~10	www.radiuminc.com
River Technologies, LLC		Radiological Decontamination	Robert Kozma, COO	2107 Graves Mill Rd, Suite A, Forest, VA, 24551	2003		~10	www.rivertechnologies.biz
Robatel Technologies, LLC		Engineering Services	Teo Grochowski, CEO	5115 Bernard Drive, Suite 304, Roanoke, VA, 24018	2009 (US subsidiary)		115 (Robatel Industries)	www.robateltech.com
SC&A, Inc.		Environmental and Energy Consulting	Gregory P. Beronja, President and CEO	1608 Spring Hill Road, Vienna, VA, 22182	1981			www.scainc.com
Seaward Marine Services		Cleaning and Inspection	Edward A. Wardwell, Founder	5409 Beamon Road Norfolk, VA 23513 United States	1972			www.seaward-marine.com








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TalentHunter		Recruitment and Staffing	Al Visco, Vice President	PO Box 275, Ashburn, VA, 20146	1982			www.talenthunter.com
TeamBest		Radiation Protection, Cancer Treatment	Krishnan Suthanthiran, President and Founder	7643 Fullerton Rd, Springfield, VA 22153	1977			www.teambest.com
Thermal Spray Solutions, Inc.		Thermal Spray Coatings		1105 International Plaza, Suite B Chesapeake, VA 23323				http://www.thermalsprayusa.com/
Urenco		Urenco USA (UUSA), operated by Louisiana Energy Services LLC, is the only operating commercial uranium enrichment facility on U.S. soil and is located in Eunice, New Mexico.	John Kirkpatrick Managing Director and Head of Enrichment of Urenco USA (UUSA)	1560 Wilson Blvd STE 300, Arlington, VA 22209	UUSA National Enrichment Facility, 1992			https://urencousa.com/
Weidmuller Inc.		IT Products and Services	Brian Schofner, President	821 Southlake Blvd., Richmond, VA, 23235	1850	~40	~100	www.weidmuller.com

Nuclear in Virginia: Other

Updated 02/20/2024

Entity	Logo	Nature of Activity	Leadership	Virginia Presence	Founded	Revenue/ Funding, \$1M	Employees	Website
ANS		Not-for-profit, International, Scientific and Educational Organization	Kenneth Peterson, President	5200 Thatcher Rd, Suite 142, Downers Grove, IL, 60515 Virginia Local Section and VCU Student Section	1954		11,000 members	www.ans.org
Virginia Department of Energy		Governmental research and regulatory body	Glenn Davis, Director	Washington Building, 8th Floor, 1100 Bank St, Richmond, VA, 23219	1985	15.6 State General Fund, 17.3 Federal Funds, 2.6 Fees	182	http://www.energy.virginia.gov/
Virginia Economic Development Partnership		State Authority for business advocacy, development, and support	Dan M. Pleasant, Chairman of the Board	901 East Cary Street Richmond, VA 23219	1995	17.8 (State General fund, FY2014)	~100	https://www.vedp.org/
Virginia Nuclear Energy Consortium		VNEC advocates for the nuclear industry and our member companies.	April Wade, Executive Director	State Wide	2013		1	https://virginianuclear.org
Dominion Energy Innovation Hub		The Dominion Energy Innovation Center supports high-tech entrepreneurs and small business owners who are driving the innovations needed to achieve a net-zero carbon economy.	Adam Sledd, Executive Director	State Wide	2009			https://dominnovation.com/
DELTA Lab		Energy DELTA (Discovery, Education, Learning & Technology Accelerator) Lab, or Energy DELTA Lab, is a 501(c)(3) nonprofit organization managing access to more than 65,000 acres of energy ready sites on previously mined properties throughout Virginia's coalfield region.	Mike Quillen – Chairman of Energy DELTA Lab	State Wide				https://www.energydeltalab.org/
Virginia Energy Workforce Consortium		Virginia Energy Workforce Consortium (VEWC) members, partners, and alliances work together to build and strengthen collaborative efforts to significantly impact career awareness, education pathways, and approach tomorrow's workforce needs.		State Wide				https://virginia.getintoenergy.com/ L

APPENDIX B:

VIRGINIA NUCLEAR ENERGY CONSORTIUM UPDATE

The Virginia Nuclear Energy Consortium (the Consortium) was formally launched in 2015 and now has been in operation for over eight years in accordance with § 45.2-2105 of the laws of the Commonwealth. The full 2024 Consortium activity report and membership roster are included as Appendix B.



VIRGINIA NUCLEAR ENERGY CONSORTIUM

2024 Report

Overview

The Virginia Nuclear Energy Consortium (VNEC) has been in operation for over nine years in accordance with Section 67-1404 of the laws of the Commonwealth. This report provides an overview of VNEC's activities and mission. VNEC continues to see tremendous success with membership recruitment, engagement, and support. In addition, this year, we have also seen continued advancement with the Virginia Innovative Nuclear Hub as it moves from concept to an established organization with a Board and an acting executive director and project announcements coming.

We have seen positive outcomes in every aspect of our mission, from legislative advocacy to public education and workforce development.

We continue to make great strides in advancing the industry and helping ensure its future. We continue to follow the key guiding principles outlined in the Virginia is Nuclear 2020 Strategic Plan:

- Ensuring nuclear energy's continued contribution to Virginia's carbon-free future
- Prioritizing nuclear innovation
- Leveraging existing in-state infrastructure and identifying capability gaps
- Growing related educational opportunities for the future nuclear workforce

To that end, VNEC has worked with the Youngkin administration and provided recommendations from the strategic plan for the Governor's energy plan. His energy plan included pursuing an SMR in the Commonwealth, encouraged developing the research hub, and made nuclear a significant piece of Virginia's energy future.

VNEC will continue to pursue advanced demonstration projects that will promote Virginia's leadership in nuclear energy solutions for the world's pressing energy, economic, environmental, and national security needs. We are currently in the process of revising our strategic plan for the state, with a continued focus on promoting electrical generation, advanced manufacturing and service capabilities; encouraging development of advanced reactor technologies; supporting defense applications of nuclear technology; encouraging research & development; and growing the industry workforce.

Current membership includes (2023 & 2024 membership has grown):

- Appalachian Power
- Dominion Energy Services
- Framatome Inc.
- GE Hitachi Nuclear Energy
- Holtec International
- Liberty University
- Lightbridge Corporation
- Newport News Shipbuilding
- NuScale Power
- University of Virginia
- Virginia Commonwealth University
- Virginia Tech University
- X-Energy Reactor Company, LLC.

Officers for 2024:

- Chairman - John Harrell, Dominion Energy Services
- Vice-Chair - Alireza Haghighat, Virginia Tech
- Treasurer - Supathorn Phongikaroon, Virginia Commonwealth University

Activities and Mission

VNEC advocates for the nuclear industry, and our member companies, on a number of fronts. Our work includes:

- **Industry promotion** - raising awareness of Virginia’s nuclear assets, and education/public awareness efforts regarding nuclear’s role as a carbon-free energy source capable of meeting our clean energy needs
- **Workforce development**
- **Promoting industry research and development** - identifying new opportunities for public-private partnerships and working to establish a research and development hub as a partnership between industry and VA academic institutions
- Legislative and regulatory advocacy

Promotion of Virginia’s nuclear assets and capabilities

- Provided education and information regarding the nuclear industry’s position as a carbon-free energy source and contribution to clean air, new technology and innovation opportunities, and general topics related to nuclear in Virginia.
- Briefed policymakers and a variety of state agencies on industry issues.
- Supported the Governor’s 2022 Virginia Energy Plan.
- Made introductions between advanced reactor companies and state agencies.
- Provided briefing materials and presented subject matter experts to government officials.
- Co-hosted the Canada-Virginia Nuclear Energy Roundtable in Washington, DC.
- Hosted a Nuclear 101 event with the Nuclear Innovation Alliance (NIA) for elected officials, policymakers, and economic development stakeholders.
- Started planning Nuclear 101 events around the Commonwealth with NIA for 2025.
- Participated in the following events:

- March 2024 - Appalachian Carbon Forum, Lexington, KY
- March 2024 - Hydrogen Policy Leaders Convention, Tysons Corner, VA
- April 2024 – Atlantic Council, Atoms for Appalachia workshop, Knoxville, TN
- May 2024 - Energy Communities Alliance (ECA) Forum: Building Nuclear Partnerships and Projects, Kennewick, WA
- May 2024 - Low Carbon SMR Peer Group, Online
- September 2024 - ARPA-E Fission Annual Meeting, Arlington, VA
- September 2024 – VA American Nuclear Society Council (ANS) chapter, Online
- October 2024 – US Nuclear Industry Council (USNIC), New York City, NY
- October 2024 – SE Nuclear Advisory Council Workforce event, Online
- November 2024 – Virginia Clean Economy Act (VCEA) Summit, Richmond, VA
- Participated in the SE Nuclear Council Economic Development Report.
- Participated in events in SW Virginia supporting nuclear energy.
- Attended and provided updates to the SWVA Research and Development Authority.
- Held a Virginia Nuclear Summit to discuss the [Virginia's Nuclear Strategic Plan](#) and [discuss updating the plan](#). The plan was first developed following the 2020 Virginia General Assembly's passage of [HB 1303](#) and [SB 549](#) and is a blueprint for leveraging the power of the atom for the benefit of all residents of the Commonwealth of Virginia.
- Drafted and submitted an updated Virginia Nuclear Strategic Plan for 2025 -2028.
- VNEC was featured in an article in the *Virginia Economic Review* highlights the nuclear industry in the Commonwealth.

Workforce Development

- Active participation with the Virginia Energy Workforce Consortium (VEWC).
- Organized a VNEC Workforce Working group to collaborate, identify opportunities, and identify needs for the nuclear industry.
- Organized meetings with industry leaders and community colleges.
- Worked with Virginia Innovative Nuclear Hub (VIN Hub) on workforce planning.
- Supported university training of nuclear engineers and scientists.
- Ongoing support to address industry workforce needs.
- Discussed opportunities with the Virginia Department of Education Work-Based Learning Specialist Team.
- Part of a consortium developing a grant application for a Department of Energy (DOE) workforce funding opportunity.

Research and Development

- Launched the Virginia Nuclear Innovative Hub (VIN Hub).
- Board member of VIN Hub.
- Worked to develop VIN Hub governing documents and organization structure.

- Participated in Governor Youngkin’s bill signing event supporting energy legislation.
- Promoted advanced technologies and research.
- Worked with Virginia state officials and business community to develop awareness and recognition of the research assets and capabilities of Virginia nuclear engineering programs.
- Coordinated with the Virginia research and nuclear business communities.
- Worked to identify public-private investment opportunities.
- Supported member company efforts to create new business opportunities and to advocate for nuclear issues.
- Supported the development of new technology & innovation opportunities, including advanced manufacturing.
- Supported nuclear research opportunities for Virginia universities.

Legislative and Regulatory Advocacy

- Supported public policies that advance the nuclear industry.\
 - **2024 State Legislation**
 - **2024 - [SB 454](#) - Electric utilities (Dominion); recovery of development costs associated with small modular reactor.**
 - Permits Dominion Energy Virginia to petition the State Corporation Commission at any time for the approval of a rate adjustment clause for the recovery of small modular reactor project development costs for up to one small modular reactor facility. The bill also permits the utility to petition the Commission for project development cost recovery along separate development phases. The bill has an expiration date of December 31, 2029
 - **2024 - [HB 1491](#) - Phase I Utility (AEP); recovery of development costs associated with small modular nuclear facility.**
 - Permits American Electric Power, prior to the filing of an application for a certificate to construct a small modular nuclear facility, to request the State Corporation Commission to review such utility's decision to incur project development costs, as defined in the bill. The bill has an expiration date of July 1, 2034.
- Supported federal legislation supporting nuclear energy and advanced technologies.
- Proactive coordination with state and federal officials advocating for more federal research investment and manufacturing dollars in Virginia.
- Reached out to stakeholders to attend MIT Nuclear Energy Course.

APPENDIX C:

VIRGINIA NUCLEAR ENERGY CONSORTIUM AUTHORITY BOARD MEMBERS

Role	First Name	Last Name	Organization
Chairman	Tom	DePonty	Framatome Inc.
Vice Chairman	Gary	Tepper	Virginia Commonwealth University (VCU)
Member	Jeffrey	Fox	University of Virginia (UVA)
Member	Ken	Ball	George Washington University (GWU)
Member	John	Capps	Central Virginia Community College
Member	Calvin	Lowe	Hampton University
Member	Scott	Kopple	BWX Technologies
Member	Eric	Carr	Dominion Energy
Member	Glenn	Davis	Virginia Department of Energy
Member	Rhonnie	Smith	Retired, BWX Technologies
Member	Rich	Diddams	Center of Energy Research and Education (CERE)
Member	Eugene	Grecheck	American Nuclear Society
Member	Mary	Neumayr	Urenco USA
Member	Andrew	Hutton	Jefferson Lab
Member	Brian	Vella	Haynes Boone
Member	Randy	Heflin	Virginia Tech (VT)
Member	Tim	Stuller	Virginia Economic Development Partnership