



PROGRAMS

ADMINISTRATION
GAS AND OIL
GEOLOGY AND MINERAL RESOURCES
MINED LAND REPURPOSING
MINERAL MINING
COAL MINE SAFETY
OFFSHORE WIND
STATE ENERGY OFFICE

COMMONWEALTH OF VIRGINIA

Virginia Department of Energy

Washington Building / 8th Floor
1100 Bank Street
Richmond, Virginia 23219-3638
(804) 692-3200 FAX (804) 692-3237
www.energy.virginia.gov

March 28, 2024

Cover Letter for EPA's Climate Pollution Reduction Grants Program: Implementation Grants General Competition

EPA-R-OAR-CPRGI-23-07

Applicant:

Virginia Department of Energy

Primary Contact Information:

Vince Maiden
Director, State Energy Office
804-692-3224
Vince.maiden@energy.virginia.gov

Individual Applicant

\$140,756,495

Small Modular Reactor (SMR) Site Development – Virginia Energy

• Brief Description of GHG Measures:

Virginia Energy in partnership with Virginia Electric and Power Company d/b/a Dominion Energy Virginia (DEV) is seeking funding as part of the implementation phase of Virginia (VA or the Commonwealth)'s Climate Pollution Reduction Grant for activities related to site development and regulatory site permitting for a small modular reactor (SMR) on DEV-owned property adjacent to the existing North Anna Power Station (North Anna or NAPS) in Louisa County, VA (the Project).

• Sector: electric power

• Expected Total Cumulative GHG Emission Reductions:

The EPA Greenhouse Gas Equivalencies Calculator online tool was used to calculate the avoided emissions from an SMR that is assumed to be online by the end of 2034. Using the assumed amount of generation the SMR would produce through the year 2050, 24.3 million Metric Tons of CO₂ equivalent

would be avoided. Details of the calculation are provided in the GHG calculation attachment (GHGcalcs_VirginiaEnergy). The goal of the Project is to significantly progress the development of an SMR at the North Anna site. Following development activities, an SMR could be online as early as 2034, therefore, there would be no calculated GHG reductions through 2030.

- Location(s): Louisa County, Virginia
- Applicable PCAP Reference(s):

The Project goal to significantly progress development of an SMR at the North Anna site directly aligns with Measure 6 of the Commonwealth of Virginia's Priority Climate Action Plan (PCAP)¹ to reduce GHG emissions from the electric power sector and improve grid reliability and security, as well as with the Framework for Virginia's Energy Future identified in VA's 2022 Energy Plan² to promote and support the implementation of new baseload electricity generation within the Commonwealth.

¹ deq.virginia.gov/home/showpublisheddocument/22732

² energy.virginia.gov/energy-efficiency/documents/2022_Virginia_Energy_Plan.pdf