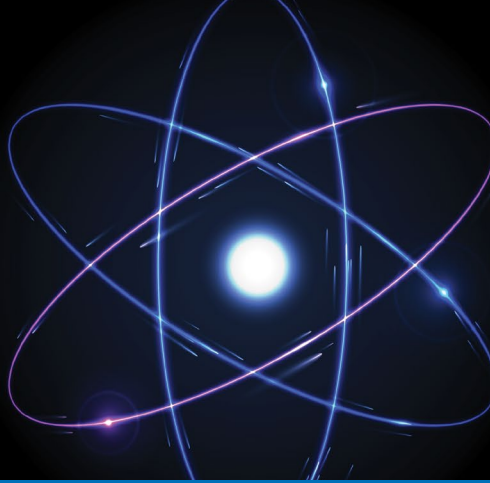


# SMRs: A Look Towards a Clean and Reliable Future



For over 50 years, nuclear power has been the most reliable workhorse of Dominion Energy Virginia's electric fleet, generating 40% of our power and with zero-carbon emissions. In recent years, Dominion Energy and other stakeholders have been exploring Small Modular Reactors (SMRs) as the next generation of carbon-free nuclear power in the U.S. and across the world.

As Virginia's need for power grows, SMRs could play a pivotal role in our clean energy future, along with offshore wind, solar, and battery storage. With the ability to operate every day, all day, and year-round, SMRs will help to ensure the reliable power our customers expect and deserve.

## What are Small Modular Reactors (SMRs)?

### SMALL

The physical size of an SMR is roughly one-third the size of a traditional nuclear power plant, which means they require much less land. Just as the size is smaller, the power generated by an SMR is also roughly one-third less than a traditional plant.

### MODULAR

SMR parts are factory-made, modular, and much quicker to assemble. Their design is also simple and compact. These factors help significantly reduce the cost of construction.

### REACTORS

Just like full-size nuclear units, nuclear fission is harnessed to generate heat and produce energy. This technology was first established in the 1950s and has been used across the U.S. and world since.

## Why Virginia?

Virginia is uniquely positioned to lead the deployment of SMRs because of its existing nuclear assets, expertise, and capability, all while driving regional growth and providing workforce opportunities. One of two private shipyards that builds all U.S. nuclear-powered ships is located in Virginia. An estimated 100,000 jobs across the Commonwealth are directly tied to the nuclear industry and numerous nuclear industry companies- including Dominion Energy- already call Virginia and the mid-Atlantic region home.

Dominion Energy anticipates its first SMR could be operational by the early-to-mid 2030s and potentially located on its North Anna Power Station property. Siting SMRs on an existing power station property, such as at North Anna, allows for interconnection to the grid and access to necessary and available workforce. Dominion Energy continues to consider sites across Virginia for additional SMRs.

## Key Benefits



**Supports a Clean  
and Reliable Grid**



**Creates  
Well-Paying Jobs**



**Supports the  
Local Community**



**Smaller in Size  
and Cost**