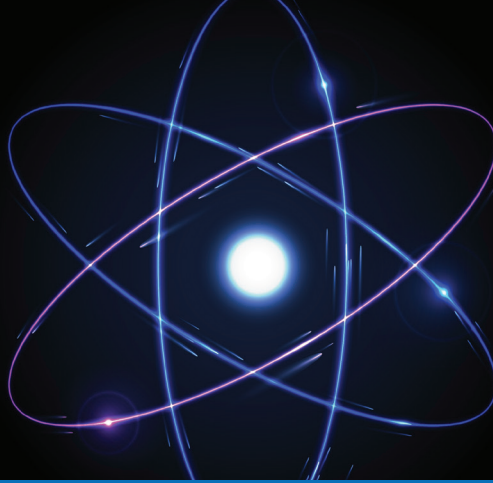


SMRs: A Look Toward a Clean and Reliable Future



For over 50 years, nuclear power has been the most reliable workhorse of Dominion Energy Virginia's electric fleet, generating 25% 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

SMRs use a simpler, more compact design that allows many components to be manufactured in factories and assembled on site. This modular approach can shorten construction schedules and reduce construction risk, with the potential to lower overall project costs over time.

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 infrastructure, expertise, and strong industry presence — supporting regional economic growth and long-term 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 broader mid-Atlantic region home.

Dominion Energy anticipates its first SMR could be operational by the early-to-mid 2030s, potentially located at its North Anna Power Station property. Locating advanced nuclear generation at an established power-generation site such as North Anna, offers advantages, such as an existing interconnection to the grid and access to a skilled nuclear workforce. Dominion Energy continues to evaluate additional locations across Virginia for the potential deployment of future SMRs.

Key Benefits



Supports a Clean and Reliable Grid



Creates Well-Paying Jobs



Supports the Local Community



Smaller in Size and Cost