

North Anna Power Station

Powering Virginia for over 40 years... and decades more to come



Overview

Located at Lake Anna — a man-made lake created to support the station — in Louisa County, North Anna Power Station has established itself as a vital part of Virginia’s energy makeup by producing over 15% of the Commonwealth’s energy and providing enough reliable, affordable, and carbon-free electricity to serve nearly 475,000 homes.

The long-term success of North Anna can be tied to the safety and reliability of nuclear fuel as well as the dedication of the employees who work there.

Key Facts

- North Anna is a nuclear power station comprised of two Westinghouse Pressurized Water Reactor (PWR) units.
- Both Unit 1 and Unit 2 produce approximately 945 MW each. Unit 1 began operations in 1978 and Unit 2 in 1980.
- The station was named after the North Anna River which was dammed to form the Lake Anna Reservoir (Public Side) and the Waste Heat Treatment Facility (WHTF, Private Side). North Anna uses the water from Lake Anna for cooling.

A Look Toward the Future

In August 2024, the Nuclear Regulatory Commission approved Dominion Energy’s subsequent license renewal applications allowing North Anna to continue to provide safe, reliable, and carbon-free electricity through 2058 (Unit 1) and 2060 (Unit 2). The renewal of the operating licenses for North Anna and Surry are critical to Dominion Energy meeting its mission to provide the reliable, affordable, and increasingly clean energy that powers our customers every day.

In 2024, Dominion Energy announced its next steps to move forward with the development of Small Modular Reactors (SMRs). Dominion Energy anticipates its first SMR in Virginia could be operational by the early-to-mid 2030s and potentially located on North Anna property.

Key Benefits



Supports a Clean and Reliable Grid

Using nuclear fuel, North Anna provides over 15% of Virginia electricity and over 43% of its carbon-free electricity



Creates Well-Paying Jobs

Approximately 600 full-time Dominion Energy employees and 200 contract employees work at North Anna. During refueling outages, an additional approximate 1,000 workers support the station



Supports the Local Community

Since beginning operations, North Anna has provided over \$457 million in tax revenue to Louisa County. In addition, hundreds of volunteer hours and thousands of dollars are donated to local community organizations annually



Provides Safe Power Generation

North Anna has safely provided power generation for over 40 years

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North Anna Power Station



North Anna Power Station Emergency Preparedness



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Powering Your Every Day.