

Brunswick-Greenville Storage Facility

Enhancing Reliability with LNG Storage



OVERVIEW

Dominion Energy Virginia customers rely on us to provide around-the-clock power for their homes and businesses.

To avoid fuel shortages during extreme weather or other supply disruptions or constraints, Dominion Energy is adding liquefied natural gas (LNG) fuel storage at Greenville County Power Station. The Brunswick-Greenville Storage Facility will provide backup fuel supply to keep Greenville County and Brunswick County power stations operating for up to four days each and the lights on for more than 700,000 customers.

The facility will include a LNG storage tank and other supporting equipment sited on 20 acres owned by Dominion Energy – directly adjacent to Greenville County Power Station along the Brunswick and Greenville County lines. Natural gas from the Transco pipeline that currently serves the station will be liquefied on site, stored in the facility and turned back into gas for use in the event of an emergency fuel shortage at Greenville County and Brunswick County power stations.

This storage facility is vitally important by providing a readily available, reliable fuel source for both power stations.

PROJECT SUMMARY

What: Brunswick-Greenville Storage Facility

Where: Greenville County Power Station (Greenville County, Va.)

ECONOMIC BENEFITS

Construction of the project will bring significant economic benefits to Greenville and Brunswick counties, including jobs, local and state tax revenue, and increased spending at local businesses:



300
construction jobs



\$1.5 million
increase in local and state tax revenue

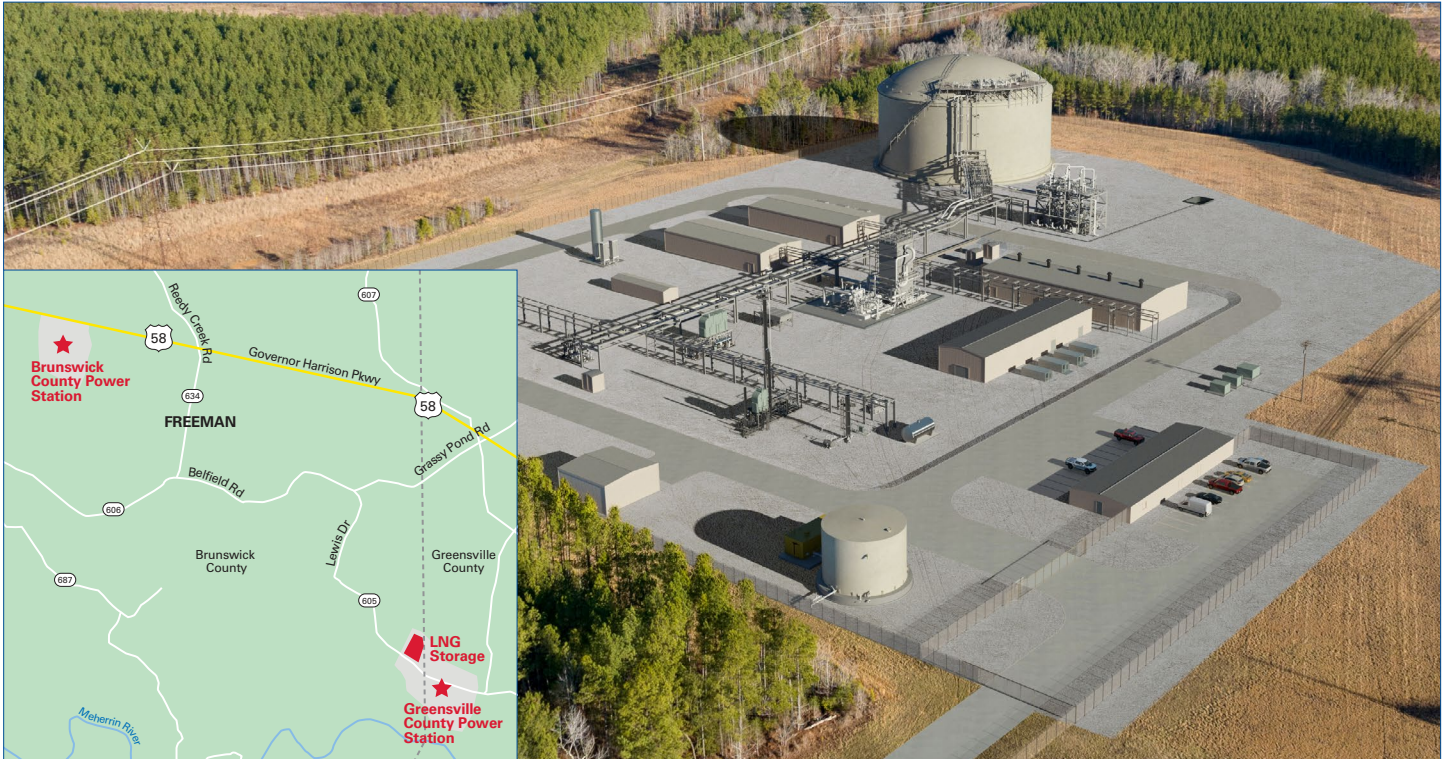


\$40.7 million
in local economic activity

Once in operation, the facility would support **6 full-time jobs** and **\$700,000** in economic output annually.

Source: Mangum Economics

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PROJECT TIMELINE

Planning & Development:

2022 – 2023

Design: 2023 – 2024

Key Permitting & Approvals: 2022 – 2024

- Federal Energy Regulatory Commission
- Virginia State Corporation Commission
- Virginia Department of Environmental Quality
 - Water Protection
 - Stormwater Management
 - Environmental Impact Review
 - Minor Source Air Permit Amendment
- Protected Species Reviews (VDCR, VDWR)
- Cultural and Archaeological Review (Advisory Council on Historic Preservation)
- Local Conditional Use Permit Amendments – Brunswick

Construction: 2025 – 2027

Completion: 2027

FAQS

What is LNG?

Liquefied Natural Gas (LNG) is a clear, colorless and non-toxic liquid which forms when natural gas is cooled to -260F. The cooling process shrinks the volume of the gas 600 times, making it easier and safer to store. The storage facility will be designed to receive natural gas and liquefy the gas for bulk storage on site.

What is the process to both liquify natural gas and return to its gaseous state?

The natural gas will be received, filtered and treated then cooled to convert the gas to its liquid state where it will be stored in a carbon steel, full containment tank.

When needed for use, the stored gas in liquid form will be warmed to its gaseous state. LNG will be pumped from the storage tank through a heat exchanger where the gas is warmed and converted into a vapor, ready to be used by Greenville County and Brunswick County power stations.

How will the stored LNG be used?

This storage facility will provide backup fuel supply to Greenville County and Brunswick County power stations – serving only in the event of a disruption or curtailment to the primary fuel supply. Brunswick County Power Station will receive natural gas from the storage facility through the existing Transco pipeline that currently serves both stations, while Greenville County Power Station will be connected directly to the new facility on site.

Why do you plan to construct this facility?

To maintain a readily available, reliable fuel source for Greenville County and Brunswick County power stations, in the event of a natural disaster, extreme weather, or other fuel supply disruptions or constraints.