

Coastal Virginia Offshore Wind (CVOW)



Coastal Virginia
Offshore Wind

From offshore wind turbines to onshore transmission, Dominion Energy is building the next generation of carbon-free energy.



Scheduled to begin construction in 2024, CVOW is a 2.6-gigawatt offshore wind energy project that will consist of 176 wind turbines located 27 miles off the coast of Virginia Beach, three offshore substations, undersea cables and new onshore transmission infrastructure to deliver the power of the wind to homes and businesses.

Key Benefits of Offshore Wind Energy



Renewable Generation

Harness the power of the wind to generate enough clean, reliable energy to power up to 660,000 homes



Zero-Emissions

Avoids the carbon dioxide emissions equivalent of removing more than 1 million cars off the road each year



Energy Diversity

Diversifies our customer's energy supply, which is essential for energy security, reliability and lowering fuel costs



Economic Development

Attracts manufacturing and service companies seeking an east coast hub to support an emerging U.S. offshore wind industry



Job Creation

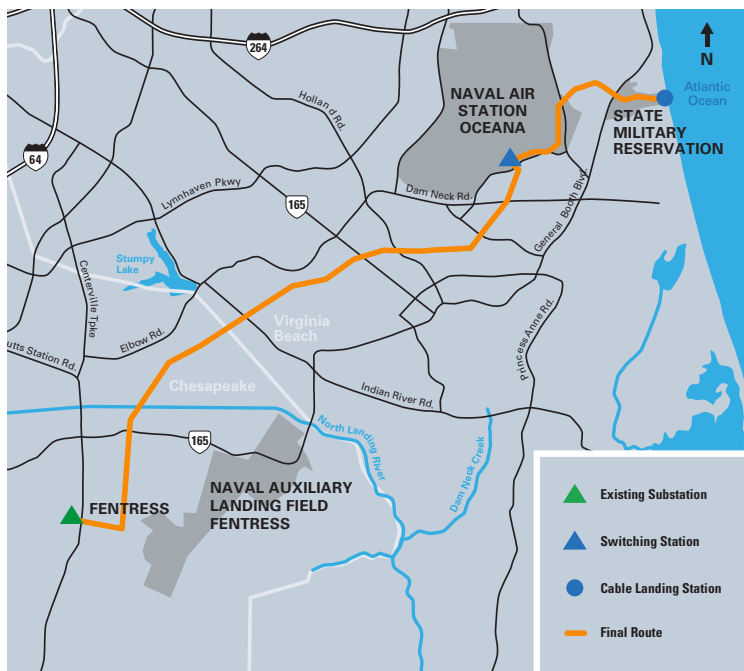
Creates hundreds of direct and indirect jobs and tens of millions of dollars in pay and benefits annually



Revenue Growth

Provides millions of dollars in local and state tax revenue annually as a result of hundreds of millions in economic output

Delivering Offshore Wind Energy



To deliver offshore wind energy to homes and businesses, Dominion Energy is building a new electric transmission line from where the energy comes onshore in Virginia Beach to our existing Fentress Substation in Chesapeake.

As part of our evaluation of transmission line route options, we held virtual and in-person public meetings and conducted numerous individual and small group meetings, topic-specific workshops and roundtables. We also consulted with a local historian and directly engaged historically underrepresented communities and Native American Tribes.

After careful consideration, we proposed several transmission route options to the Virginia State Corporation Commission, which then approved the final route to support CVOW. The approved route maximizes existing rights-of-way and publicly owned land and minimizes, to the greatest extent possible, impacts to private property, the community, environment, and historical and cultural resources.

Why is Dominion Energy pursuing offshore wind?

Offshore wind possesses an immense potential as a renewable energy resource that can decrease greenhouse gas emissions, diversify energy supply, generate affordable electricity for homes and businesses, and help revitalize key economic sectors. It will also serve as a critical resource for meeting the clean energy goals of the Commonwealth of Virginia and addressing the growing threat of climate change across our most vulnerable communities.

How much does CVOW cost?

CVOW represents a clean-energy investment of approximately \$9.8 billion. As a sustainable, renewable energy resource, offshore wind will also have long-term savings for our customers, including more than \$1 billion in applicable federal tax credits and more than \$3 billion in fuel savings during the project's first ten years of operation. When factoring in these savings, the net average cost to a typical residential customer over the life of the project is estimated at less than \$4 per month, although the cost will be lower in some years and higher in others.

How was the approved transmission route identified?

We performed a study in Hampton Roads and conducted extensive engagement with the community. With the study, we focused on better understanding the locations of neighborhoods, public use and gathering spots, schools, churches and parks as well as important natural and historic resources. We also evaluated existing rights-of-way and opportunities to co-locate with other infrastructure, such as existing transmission lines, roads, and railways.

To better understand the community's needs, we held virtual and in-person public meetings and conducted numerous individual and small group meetings, topic-specific workshops and roundtables. In addition, we consulted with a local historian and directly engaged historically underrepresented communities and Native American Tribes. We also deployed an online interactive tool called GeoVoice, which provided the community the opportunity to review the route options and share feedback.

How was the final electric transmission route selected?

As is required with any similar transmission project, we proposed several transmission route options to the Virginia State Corporation Commission. Through a regulatory proceeding, the Commission carefully reviewed the route options as well as public comment before determining the final transmission line route to support the CVOW project.

Does the approved transmission line route have any impacts?

As potential routes were assessed, minimizing impacts to private property, the community, environment, and historical and cultural resources was critical. While every transmission route option has the potential for impacts, the approved route provided for the greatest use of existing transmission and publicly owned rights-of-way, resulting in the fewest impacts overall.

What permits does Dominion Energy still need to construct CVOW?

While CVOW has received approval from the Virginia State Corporation Commission, Dominion Energy will still need to secure additional local, state and federal permits and approvals in support of the project, both offshore and onshore.

When is construction scheduled to begin?

Onshore and offshore construction is scheduled to begin in 2024 and end in 2026.

How will you notify the public of onshore construction work?

We plan to provide regular project updates on our project website, coastalvawind.com. We will also notify residents of any work that will occur in their neighborhood.

Learn More



Scan the QR code or visit
coastalvawind.com

View the Approved Transmission Routes



Scan the QR code or visit
coastalvawind.com/geovoice

Contact Us

If you have a question or concern,
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