

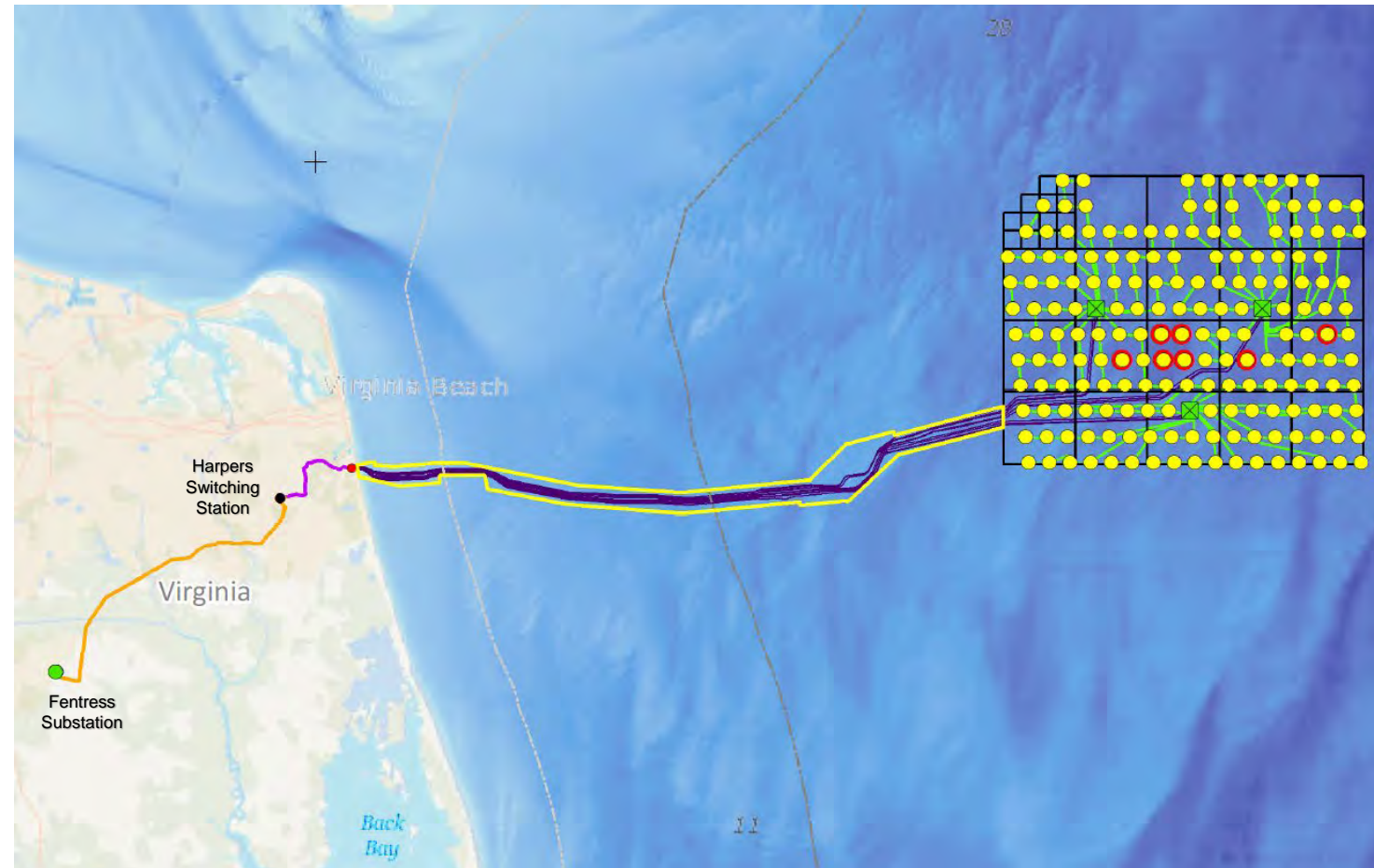


# CVOW Project Overview

July 2023

# Largest East Coast Utility Project Under Development

- Builds on success of the two-test turbine pilot project
- Largest offshore wind project under development in the United States
- Located just east of the pilot project
- 176 X 14.7 MW turbines
- 2.6 GW total capacity
- Power up to 660,000 homes
- Scheduled for 2026 completion



# Many Accomplishments, More Objectives Ahead



✓ Nov 2013	113,000-acre leasehold acquired via auction
✓ Sep 2019	2.6GW full-scale deployment announced
✓ Dec 2020	Construction & Operation Plan submitted to BOEM for 2.6GW
✓ May 2021	Foreign currency hedge strategy executed
✓ Jul 2021	Notice of Intent issued (BOEM)
✓ Nov 2021	Virginia OSW rider application submitted
✓ Dec 2021	Major contracts executed with SGRE, DEME, Bladt, Semco, EEW
✓ Aug/Dec 2022	Regulated cost-of-service rider approved by VA SCC
✓ Dec 2022	Draft Environmental Impact Statement issued (BOEM)
Oct 2023	Record of Decision issued (BOEM)
2023/2024	Commence onshore/offshore construction
End of 2026	Construction completion

# Constructing CVOW With Experienced Partners

Wind Turbine Generators

Monopiles

Transition Pieces

Offshore Substations

Transport & Install

**SIEMENS Gamesa**  
RENEWABLE ENERGY

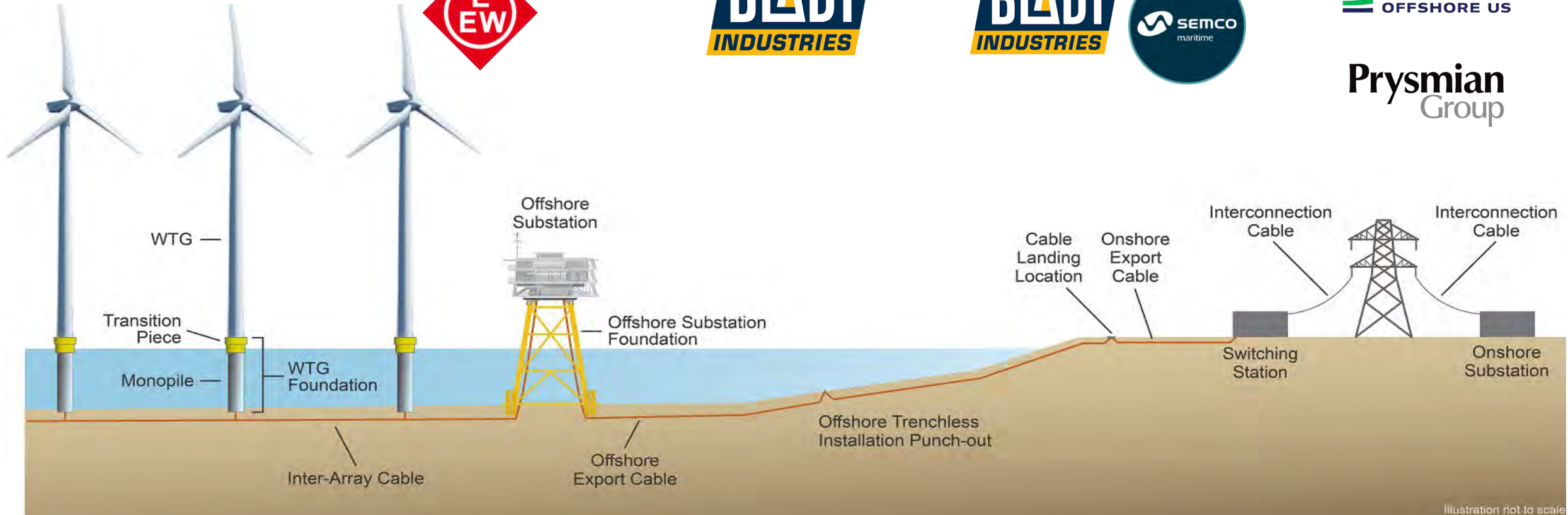


Illustration not to scale

# Large Turbines = Large Components



EEW SPC, Monopile load-out for Taiwanese Formosa 1 project in Rostock (GER)

- Length 270 ft
- Diameter 25 ft
- Weight 1900 tons



TP lift at Sandbank OWF (GER)



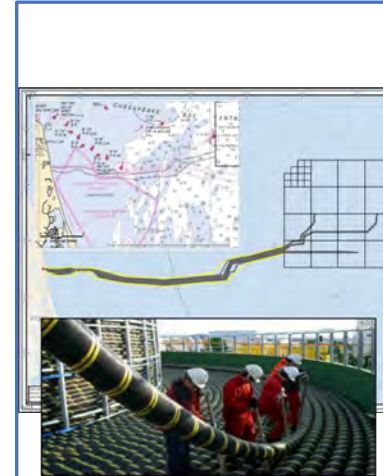
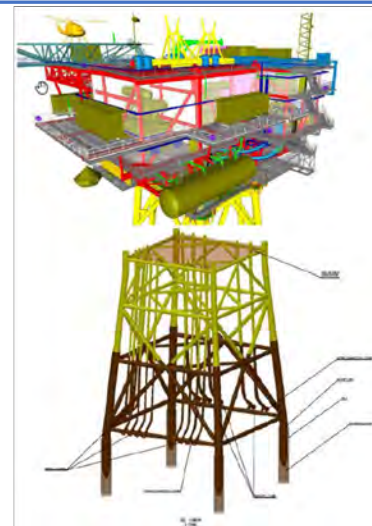
- 14.7 MW with power boost
- 836 ft turbine tip height from MSL
- 728 ft rotor diameter
- 472 ft hub height from MSL
- 358 ft blade length
- 60 ton blade weight
- 108 ft air gap
- 6.7 mph cut in wind speed
- 62.6 mph cut out wind speed

## Topside

- Length: 178 ft
- Width: 98 ft
- Height: 80 ft
- Target weight: 4,000 tons

## Jacket

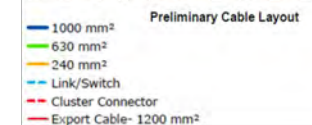
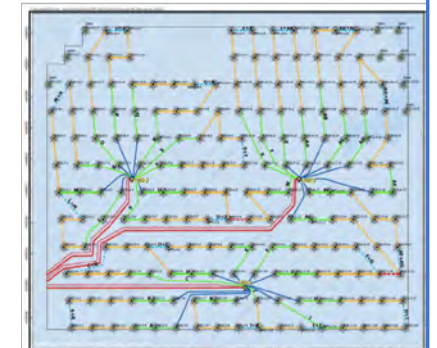
- Seabed level footprint: 98 X 98 ft
- Topside footprint: 85 X 85 ft
- Height: 174 ft
- Weight (without piles): ~3,300 tons
- Weight (with piles): ~4,400 tons
- 4-legged jacket with 4 piles



- Inter Array Cable
  - 66kV
  - 274 miles of cable
  - 7.1" diameter cable

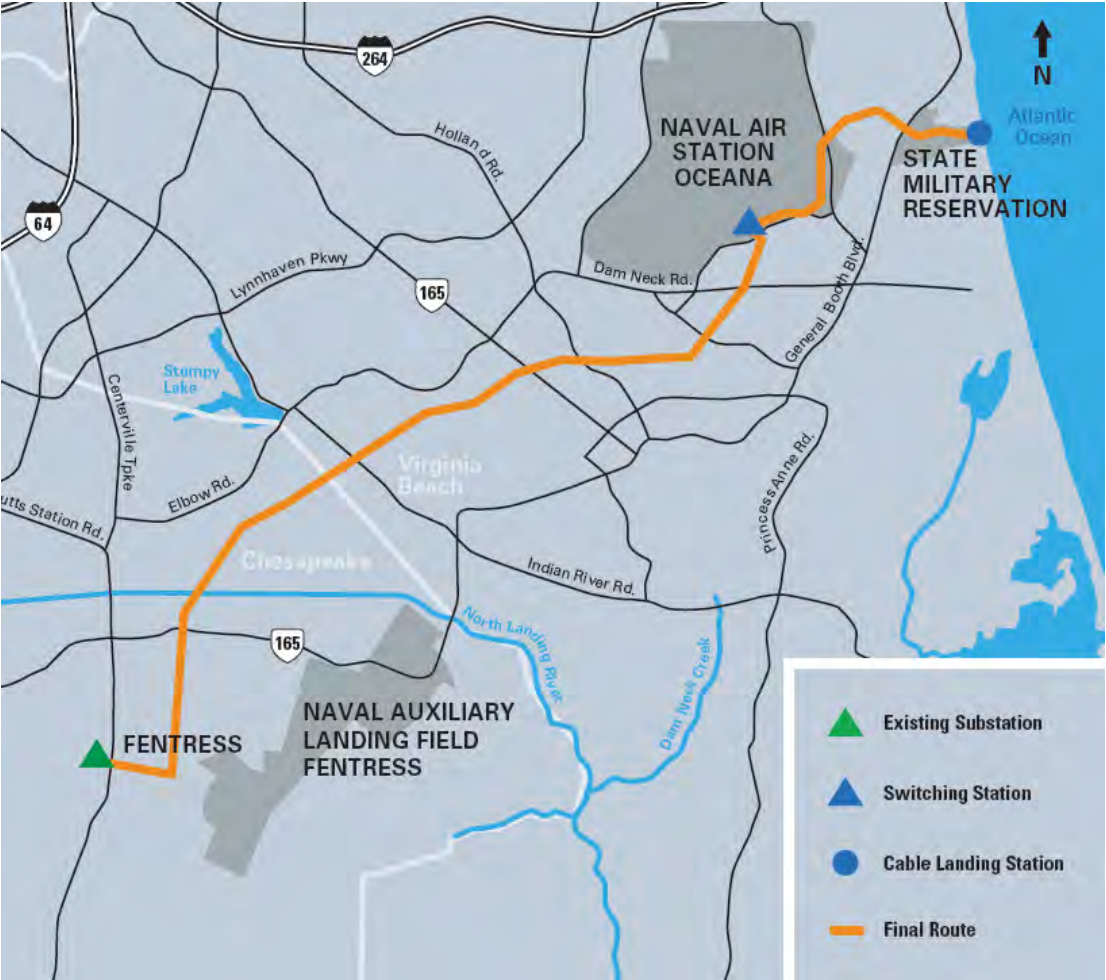
- Offshore Export Cable
  - Nine 230 kV export cables
  - 417 miles of cable
  - 11.2" diameter cable
  - 3 to 16 ft burial depth

- Offshore Sub-Station
  - 3 x 880 MW substations
  - 66-kV-230-kV step up

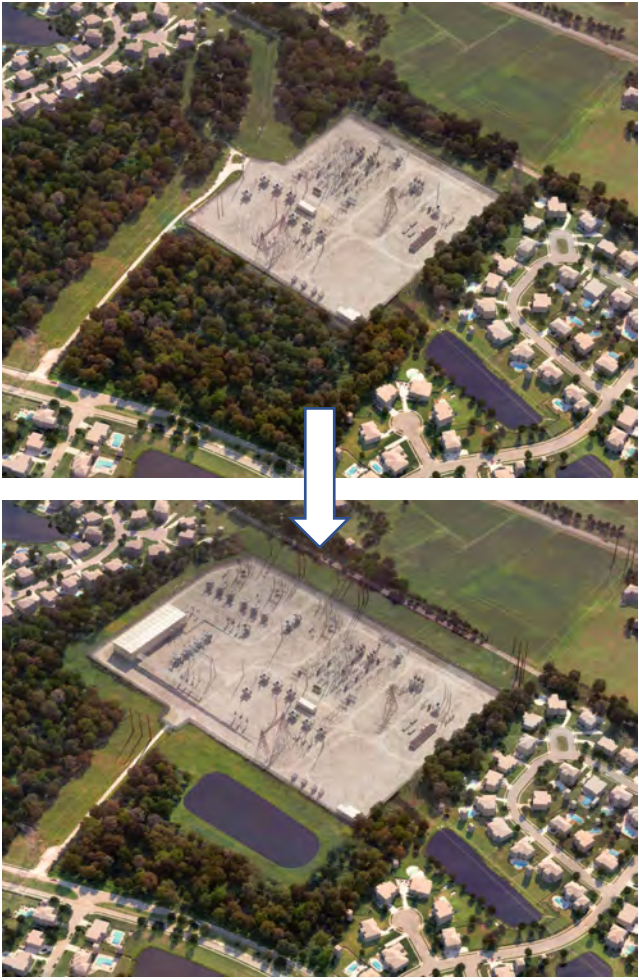


# Delivering CVOW's Clean Energy to Our Customers

## Final Transmission Route



## Fentress Substation



## Harper Switching Station



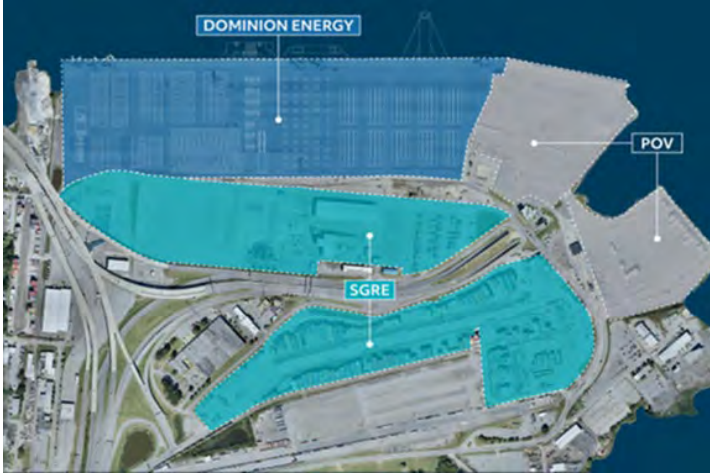
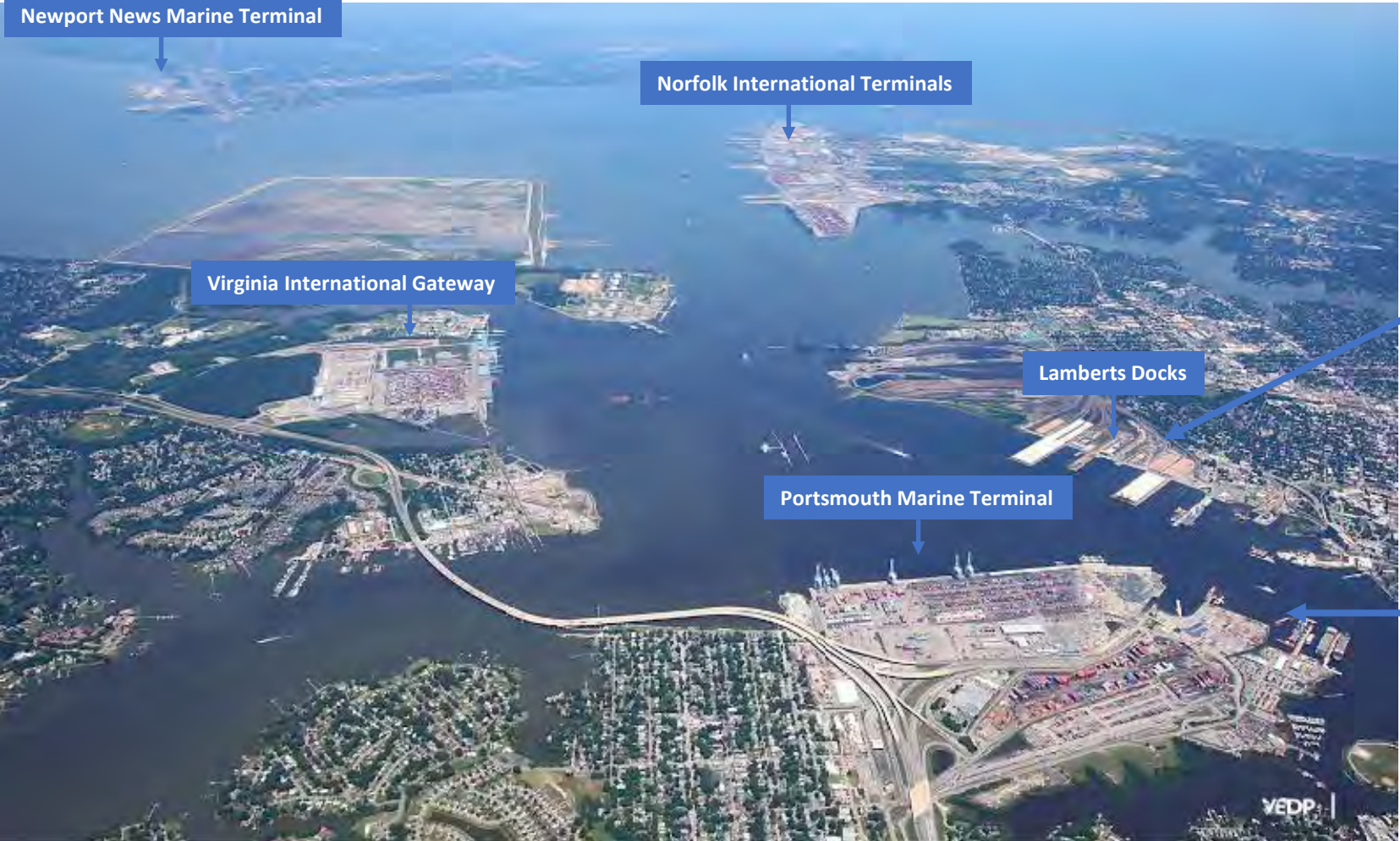
# Key Construction Milestones



## Selected Construction Highlights

UXO Identification	Balance of 2023
CVOW MCC Construction	June 2023
Monopile Delivery	October 2023
Onshore Mobilization	November 2023
First Monopile Installation	May 2024
2024 Installation Season Ends	October 2024
2025 Installation Season Starts	May 2025
2025 Installation Season Ends	October 2025
2026 Installation Season Starts	May 2026
2026 Installation Season Ends	October 2026
CVOW Construction Completed	December 2026

# The Vision: An Offshore Wind Industry Hub





# Expanding Beyond Our Prime Contractors



**CVOW Role:** *Charybdis* operation support



**CVOW Role:** Marshaling and Staging Port Services



Midland Communications Inc.

**CVOW Role:** CVOW Communications



**TIMMONS GROUP**

**CVOW Role:** Civil Engineering



**CVOW Role:** Owner's Engineer



**CVOW Role:** Upgrades to the Port of Virginia



**CVOW Role:** Lamberts Point developer



**CVOW Role:** Subsea cable health monitoring



**CVOW Role:** Environmental permitting



**CVOW Role:** Crew Transfer Support

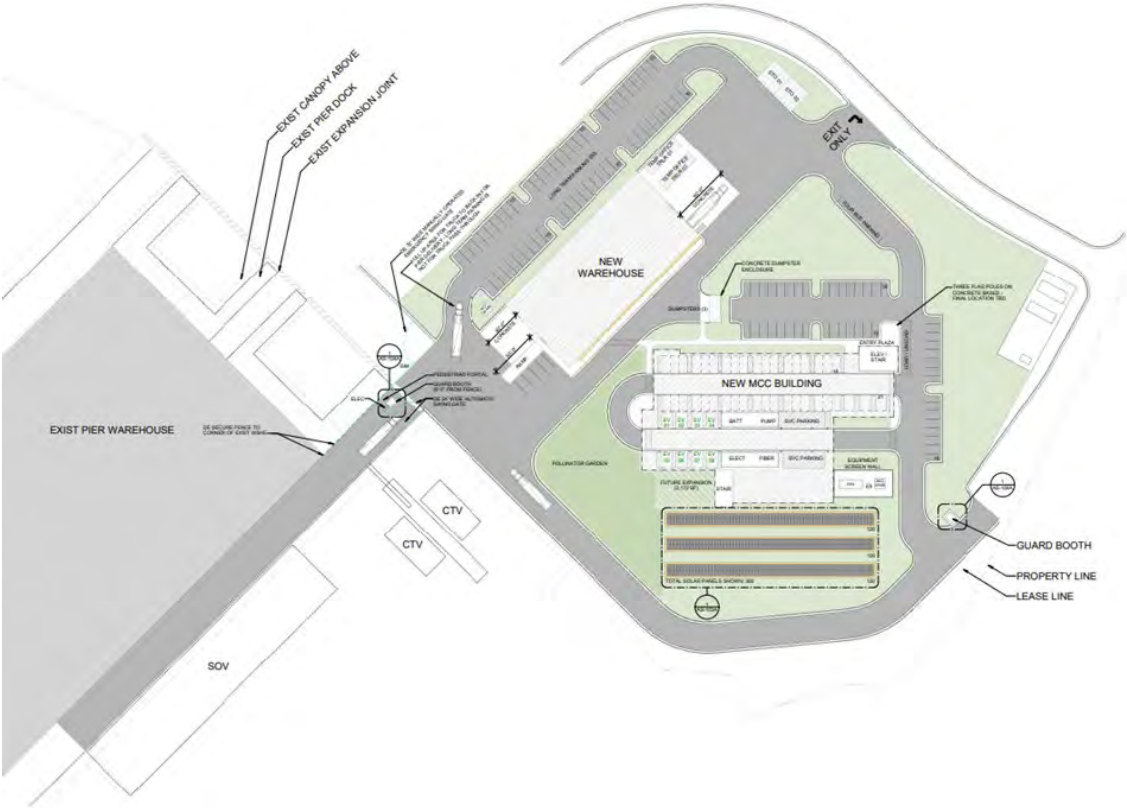


**CVOW Role:** Fairwinds - Ops Base General Contractor



**CVOW Role:** Ops Base design and construction oversight

# CVOW Monitoring and Coordination Center





## Endeavor, Dominion Energy's Crew Transfer Vessel

- 2 Crew Transfer Vessel
- Operating Crew (total): 8
- Resource shuttles



## "Walk to Work" concept for Service Operations Vessels

- 1 Service Operations Vessel
- Operating Crew: 25
- 2-week deployments



## "Charybdis" 1<sup>st</sup> Jones Act compliant offshore wind turbine installation vessel

- Constructed by Dominion Energy Inc.
- Supporting U.S wind industry
- Operating Crew: 70

# Current Spend and Staffing Levels

<b>\$155 Million US Spend</b>	<b>939 Current US Staffing Level</b>
<b>\$136 Million VA Spend</b>	<b>760 Current VA Staffing Level</b>
<b>527 Current Local Staffing Level</b>	



# Shared Insights

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