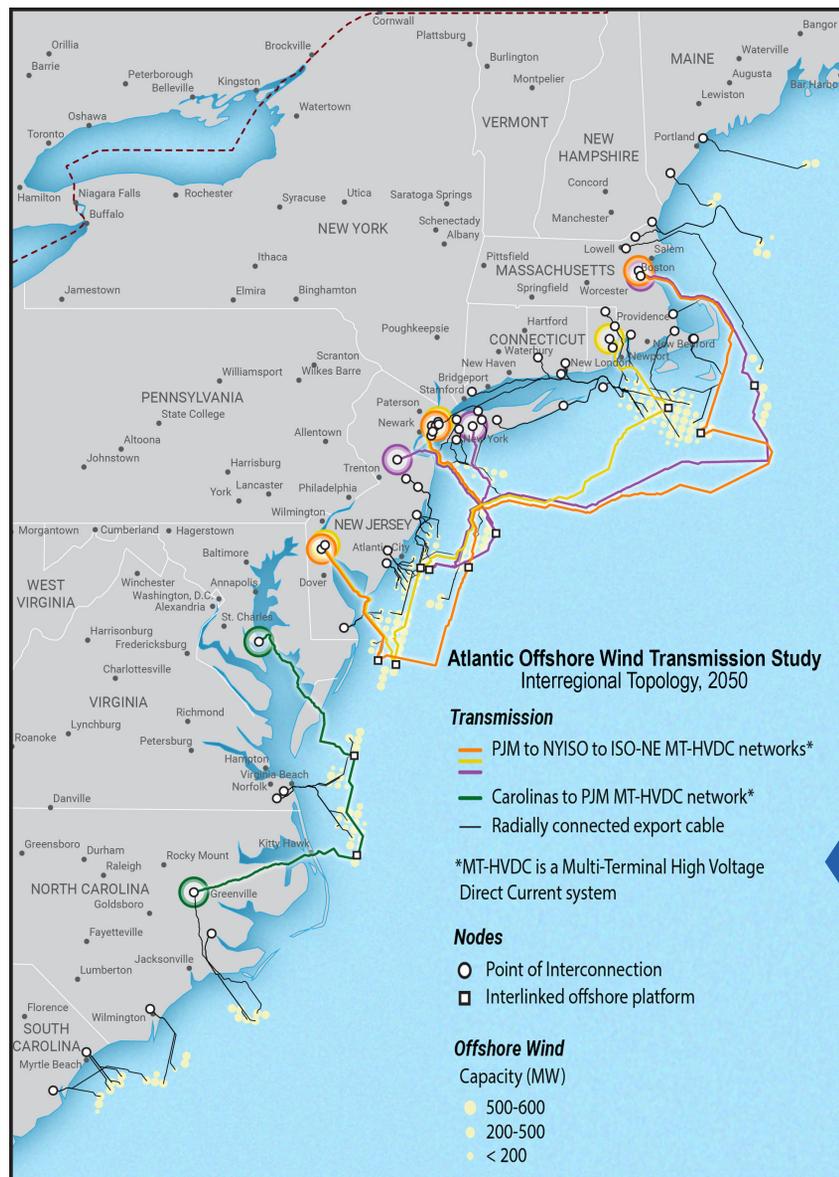




ATLANTIC OFFSHORE WIND TRANSMISSION ACTION PLAN

In March 2024, the U.S. Department of Energy (DOE)’s Grid Deployment Office (GDO) and U.S. Department of the Interior’s (DOI) Bureau of Ocean Energy Management (BOEM) released the final publication of An Action Plan for Offshore Wind Transmission Development in the U.S. Atlantic Region (Action Plan) that identifies immediate actions needed to connect the first generation of Atlantic offshore wind projects to the electric grid, as well as longer-term efforts to increase transmission over the next several decades as offshore wind expands.

The Action Plan details how clean, reliable power from wind resources could efficiently be captured off the Atlantic Coast of the United States and delivered to communities. It also provides recommendations to federal, state, and local governments, as well as industry, to address offshore wind transmission development challenges to help meet the Biden-Harris Administration’s goal to deploy 30 gigawatts of offshore wind by 2030.



Analysis from the DOE’s **Atlantic Offshore Wind Transmission Study**, published in March 2024, identified that proactive and coordinated interregional transmission planning is urgently needed to connect to the grid large volumes of offshore wind along the Atlantic Coast over the next several decades. There is a unique opportunity to use interregional transmission links to reduce electricity production costs and bolster reliability and resilience onshore. The study also found that networked transmission configurations have benefits outweighing costs, often by a ratio of 2 to 1 or more.

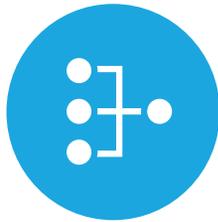
Potential offshore wind transmission development by 2050

Summary of Recommended Actions

The recommendations are organized within five categories that each address a specific transmission development need.



Partnerships and
Collaboration



Planning and
Operations



Technologies and
Standardization



Economics and
Support Initiatives



Siting and
Permitting

Recommended Action Timeline

Before 2025:

Establish collaborative bodies that span the Atlantic Coast region; clarify some of the building blocks of transmission planning, including updating reliability standards and identifying where offshore transmission may interconnect with the onshore grid; and address costs through voluntary cost assignments.

2025–2030:

Simultaneously convene and coordinate with states to plan for an offshore transmission network; with industry to standardize requirements for HVDC technology; and with federal agencies, tribal nations, state agencies, and stakeholders to identify and prioritize transmission paths on the outer continental shelf.

2030–2040:

Establish a national HVDC testing and certification center to ensure compatibility when interconnecting multiple HVDC substations to form an offshore grid network and codify updates to transmission planning through regulated interregional joint planning, transfer capacity minimums, and market monitoring.

Sustaining actions:

Improve environmental review and permitting frameworks, support strong state leadership, empower permitting agencies, develop thoughtful cost allocation practices, and consider the utilization of national corridors actions.

The Action Plan was informed by the Atlantic Offshore Wind Transmission Study, as well as a series of convening workshops with subject matter experts and decision makers, including Tribal Nations, state governments, and regional transmission operators held from April 2022 to March 2023.



Learn more about DOE's offshore wind transmission [activities](#).

Contact OSWtransmission@hq.doe.gov for more information about the Action Plan.

March 2024