

Offshore Wind Marshaling Ports

*Transforming marine ports and terminals
for the offshore wind industry*

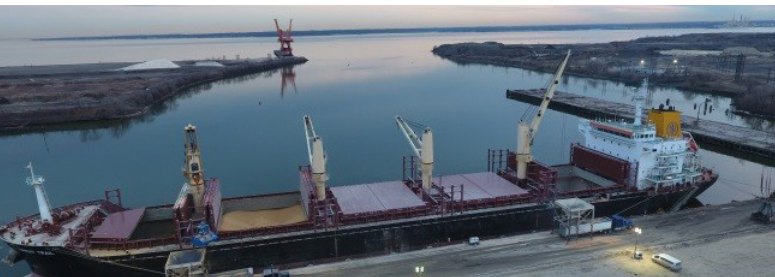
Offshore Wind

Marshaling ports provide the assembly areas critical to building and deploying offshore wind turbines. AECOM is helping our clients develop heavy-lift capable marine terminal facilities to accommodate a wide variety of cargoes, including offshore wind turbine generator staging and assembly.

Our experience spans the lifecycle of offshore wind facilities, from site evaluation, environmental studies and permitting to engineering design, construction management, commissioning and tie-in to distributed energy resources with transmission and distribution infrastructure. Our capabilities include local offices, experience and state regulatory knowledge in major coastal hubs.

Key Features

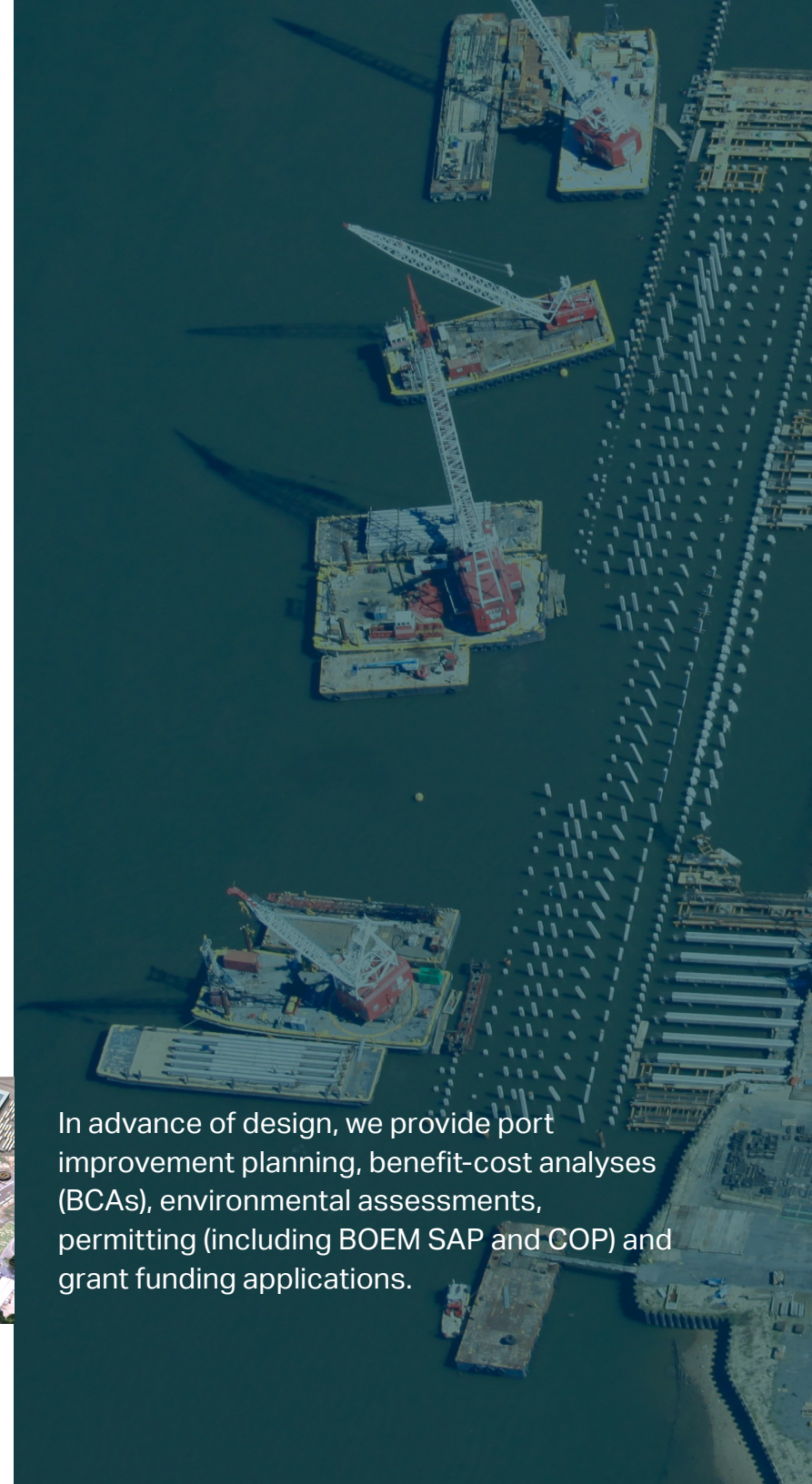
- Heavy-lift, pile-supported platforms and shore-to-ship utility services
- Large vessel (semi-submersible barge) requirements for loadout of offshore wind foundations
- Offshore wind foundations fabrication pile and bearing wall
- Retaining walls for increasing fabrication yard and dry storage areas
- Heavy duty crushed rock pavement design for moving offshore wind foundations
- Loadout wharf design for heavy lifting
- Barge landing pad for grounding semi-submersible on seabed
- Land reclamation using new king-pile systems
- Dredging of bulkheads for vessel berthing areas
- Reuse of dredge sediments and on-site fill material
- Seabed preparation, launching, offshore tow, positioning, set down and installation of offshore wind foundations



*TradePoint Atlantic Port
Improvements for Offshore Wind*



Port of Paulsboro



In advance of design, we provide port improvement planning, benefit-cost analyses (BCAs), environmental assessments, permitting (including BOEM SAP and COP) and grant funding applications.

Project experience

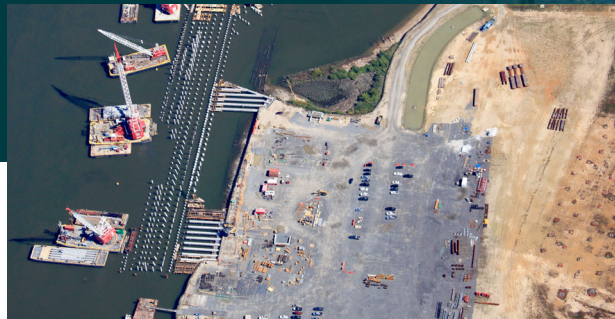
We are helping clients along the U.S. East Coast upgrade port infrastructure to accommodate the next generation of offshore wind energy systems and support vessels.

Our up-to-the-minute project experience includes strategic offshore wind investments across the region.



New Jersey Wind Port

AECOM Tishman is managing construction of the New Jersey Wind Port, the nation's first purpose-built offshore wind marshaling and manufacturing port, located in Lower Alloways Creek Township, on the eastern shore of the Delaware River. In addition to providing construction management at-risk services, we are providing preconstruction services, including design review of all enabling infrastructure, such as a heavy-lift platform for wind turbine staging and installation. A flagship economic development investment for the State of New Jersey through the New Jersey Economic Development Authority, the 200-acre greenfield infrastructure project will serve the unique staging, manufacturing and assembly needs of future offshore wind projects on the U.S. East Coast.



Port of Paulsboro

AECOM provided program/construction management services, including planning, permitting, conceptual design, NEPA compliance and site remediation compliance for terminal redevelopment for general cargo (steel plate and coil) and offshore wind on an existing brownfield site on the Delaware River. We developed conceptual plans and design characteristics to accommodate offshore wind components as well as recycled metal, forest products, steel, project cargo and RO-RO operations. Terminal infrastructure included a three-berth wharf, barge berth, backland infrastructure and rail and road access. Once complete, the state-of-the-art EEW wind turbine manufacturing facility at Paulsboro will supply the 1,100-megawatt Ocean Wind farm near Atlantic City, NJ. The monopile production mill will be the largest offshore wind manufacturing facility in the U.S. to date.



Empire Wind Offshore Foundations and Port of Coeymans Upgrade

AECOM provided pre-FEED/conceptual engineering services to convert existing port infrastructure at Port Coeymans near Albany, NY into a heavy-lift capable marine terminal facility for production of post-tensioned concrete offshore wind foundations that each weigh 7000 metric tons. This included planning, engineering, permitting and cost estimating for a concrete batch plant and laydown area and all terminal and port infrastructure upgrades needed to accommodate offshore wind turbines and loadings. The Empire Wind lease area at Port of Coeymans will serve as a major assembly point for the turbine structures that will ultimately go off the coast of Long Island over the next decade.

Project experience



Sustainable South Brooklyn Marine Terminal Offshore Wind Port

As program manager for the Sustainable South Brooklyn Marine Terminal (SSBMT), AECOM is overseeing the redevelopment and reactivation of a 73-acre maritime terminal that has been dormant and mostly inactive for 30 years. This multi-purpose offshore wind support facility will include a wind turbine generation component staging yard, multiple operation and maintenance bases and New York City's largest substation. AECOM is responsible for site investigation, environmental assessment, permitting, planning and design of the port facility for SSBMT while accommodating future users. The project involves reconstructing or repairing multiple bulkheads, constructing two heavy-duty crane platforms, constructing two new maritime vessel platforms, dredging five distinct berths and access to the federal channel, overall site work and site preparation related to the buildings to be constructed on-site.



Connecticut Port Authority State Pier Infrastructure Improvements

The Connecticut Port Authority is transforming its 30-acre State Pier in New London into a heavy-lift capable marine terminal that will accommodate a wide variety of cargoes, including offshore wind turbine generator staging and assembly. AECOM was responsible for planning, cost estimating, environmental impact assessment, permitting, design review and construction management of port improvements, including new wharf design for heavy lift and storage, increased dredging for deeper vessels and stone mattress for jack-up vessel, as well as the development and conversion of existing port infrastructures into a heavy-lift capable marine terminal for multi-purpose users and upgrade to rail and roads for future users. We also performed the BCA portion for two grant applications – BUILD (USDOT) and PIDIP (MARAD) for this project.



TradePoint Atlantic Port Improvements for Offshore Wind

As program manager to Tradepoint Atlantic, owner of a private logistics park in Baltimore, MD, AECOM has provided extension of staff services, site investigation and assessment, permit applications and grant funding applications for port improvements. Tradepoint has designated 300+ acres in three areas of the property for offshore wind loading and unloading, manufacturing, laydown and staging and is currently renovating or replacing the outdated legacy marine, rail and utility infrastructure: a 2,200-linear foot berth with an approximate 36-foot water depth; a 1,150-foot finger pier with approximate 41-foot water depth; a turning basin that protects vessels from the effects of wind and currents; extensive upland area available for cargo movement and storage; and direct access to interstate roadways and a national network of rail facilities.

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a *Fortune 500* firm and its Professional Services business had revenue of \$13.3 billion in fiscal year 2021. See how we are delivering sustainable legacies for generations to come at aecom.com and [@AECOM](https://www.instagram.com/AECOM).