OFFSHORE WIND OPPORTUNITIES in New York’s Capital Region

Home to New York’s northern-most, year round seaport with critical rail connections and located at the nexus of Interstates 87 and 90, the Capital Region provides accessibility to multi-state supply chains, and stands as a strategic location for offshore wind component manufacturing. Anchored by Albany, New York’s Capital Region has the manufacturing capability, R&D assets, port infrastructure, adaptable workforce and sites to support the emerging offshore wind industry.

We see the Capital Region as a critical element of our supply chain... the region has an excellent value proposition to the industry with incredible experiences in advanced manufacturing, research and development, and on top of that a very experienced and skilled workforce.

- Grant Van Wyngaarden, Sr. Supply Chain Development Manager, Ørsted/Eversource

PORTS & PROJECTS

1. Port of Albany
   - Facilities in Albany, Rensselaer & Bethlehem
   - 400 Acres of Land & Deep-Water Facilities
   - 4,200' Wharf (Albany)
   - 1,200' Wharf (Rensselaer)
   - 500' Wharf (in design, Bethlehem)
   - 30' Draft
   - Heavy Lift Capabilities 1,000 and 2,000 PSF and 6,000 PSF (in design)

2. Port of Coeymans
   - 450 Acre Marine Terminal
   - 300’ Inlet Channel
   - 30’ Draft
   - Dock Capability for Ships up to 750’
   - Heavy Lift Capabilities 4,000 PSF
   - 820 Metric Ton Marine Trave Lift

Projects Underway

- Nation’s first offshore wind tower manufacturing facility in partnership with Equinor and Marmen Welcon
- Production of transition pieces by Marmen Welcon and Smulders
- Assembly of advanced foundation components by Ørsted/Eversource with Riggs Distler

Hudson River
- Navigable Depth: 9.8 m (32 ft)
- Limiting Air Draft: 40.2 m (132 ft)
- Distance to NY WEA: 194 miles

Albany to Boston, MA: ~ 170 miles
Albany to New York, NY: ~ 150 miles
**RESEARCH & TALENT PIPELINE ASSETS**

With 24 higher education institutions, the region is a major talent generator.

**Center for Future Energy Systems, Rensselaer Polytechnic Institute - Troy**
- OSW R&D Projects with TenneT, NYSERDA, GE, National Offshore Wind Research and Development Consortium, Electric Reliability Council of Texas
  - HVDC transmission system for OSW
  - High-fidelity simulators of quad-rotor wind turbine dynamics, aerodynamics, acoustics and failure modes
  - Grid integration of large-scale wind

**Atmospheric Sciences Research Center, University of Albany - Albany**
- OSW-related R&D funded by NYSERDA and US DOE
  - Outage prediction modeling
  - Threshold wind speed and wind gust forecasting
  - Buoy based flux measurement system
  - Clisea breeze circulation studies

**GE Research/GE Renewable Energy - Niskayuna/Schenectady**
- $4M ARPA-E project for the design and development of advanced controls floating OSW turbines
- $20.3M US DOE project for R&D of a prototype high-efficiency ultra-light low temperature superconducting OSW generator

**WRI Energy - Glens Falls**
- Provides weather forecasting, weather downtime reports, ship routing and data analysis for OSW development and operations
  - Lightning detection and tropical alerts for offshore installation and O&M
  - Offshore historical data that can be evaluated for long term planning in pre-operational phases

**Hudson Valley Community College - Troy**
- Micro-credential, certificate and associates programs in construction technology, manufacturing, overhead electric line worker, welding, etc.

**Welding Programs**
- Modern School of Welding, Capital Region BOCES, Hudson Valley Community College, United Brotherhood of Carpenters and Joiners of America

**The Greater Capital Region Building and Construction Trades Council, Multi-Craft Apprenticeship Preparation Program (MAPP)**
- MAPP creates a roadmap to a career for underserved communities. It is a direct entry-gateway into a career-track opportunity in the construction industry.

**Workforce Development Institute**
- State non-profit that works to grow and keep good jobs in New York State

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**REGIONAL ASSETS**

**INFRASTRUCTURE**

- **RAIL SERVICE**
  - CSX Corp.
  - CP Rail Systems
  - Amtrak

- **GOVT ASSETS**
  - NYS Capital
  - NYISO
  - NYSERDA

- **RAW MATERIALS**
  - Cement
  - Aggregates
  - Concrete

**SUPPLY CHAIN**

With a robust manufacturing base and transportation infrastructure, the Capital Region has opportunities to establish and grow the offshore wind supply chain. The Center for Economic Growth has dedicated staff with deep expertise to provide one-on-one assistance and funding opportunities.

**SITES**

Numerous shovel ready sites and buildings to meet your specific needs within 30 miles of ports assets.

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The Center for Economic Growth (CEG) leads business attraction and expansion activities for New York’s Capital Region. Our team can provide assistance with site selection, incentive coordination, market research, access to workforce, supply chain connections, and more.

Visit ceg.org or contact Katie Newcombe, Chief Economic Development Officer at katien@ceg.org

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