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KEYNOTE:

PETER KNORR
DIRECTOR OF PORT OPERATIONS
NJEDA AND THE NJ WIND PORT PROJECT

*AND Q&A WITH
JOHN KUEHNE, LEAD COUNSEL
FOR THE PORT PROJECT*



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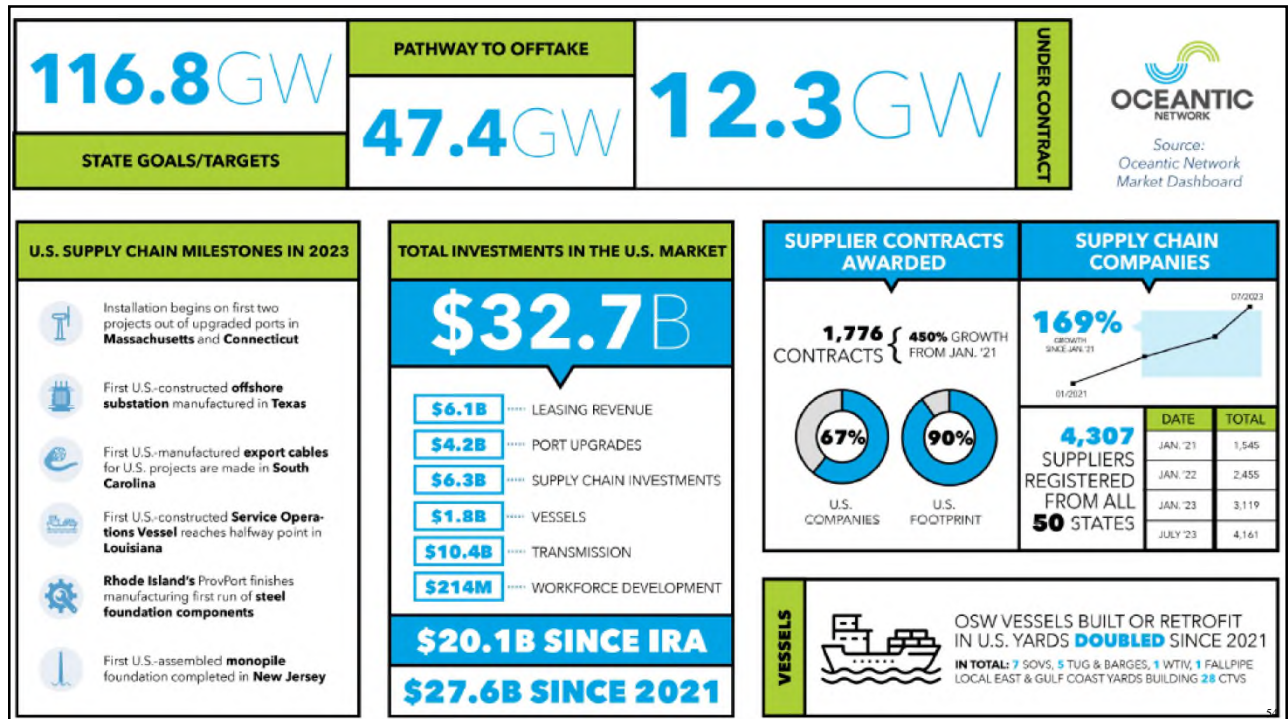


**New Jersey's
Offshore Wind
Economy and the
NJ Wind Port**








October 30, 2024

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New Jersey is an emerging hub for offshore wind



-  Strong **political commitment** and **central location**
-  **11,000 MW of procurement** over the next 15 years
-  **Port and supply chain investments** to support offshore wind
-  **Strong workforce, research & innovation infrastructure**


NJEDA
ECONOMIC DEVELOPMENT AUTHORITY

Strong Political Support




Everything Is Bigger In New Jersey, Including Offshore Wind Power

GOVERNOR MURPHY ANNOUNCES \$250 MILLION TOTAL INVESTMENT IN STATE-OF-THE-ART MANUFACTURING FACILITY TO BUILD WIND TURBINE COMPONENTS TO SERVE ENTIRE U.S. OFFSHORE WIND INDUSTRY



NJ hits reset on offshore wind, approves two massive projects

THE GOVERNOR HAS SET A TARGET OF BUILDING 11 GW OF OFFSHORE WIND BY 2040, MAKING THE INDUSTRY A KEY PART OF HIS PUSH TO ACHIEVE 100 PERCENT CARBON-FREE ELECTRICITY BY 2035.



Governor Murphy Directs New Jersey Board of Public Utilities to Accelerate New Offshore Wind Solicitation

New Jersey More Than Doubles Offshore Wind Target To 7.5 Gigawatts By 2035

northjersey.com

Phil Murphy says NJ will target 100% clean energy 15 years ahead of schedule

NJEDA
ECONOMIC DEVELOPMENT AUTHORITY

New Jersey has a clear procurement timeline for 11,000 MW

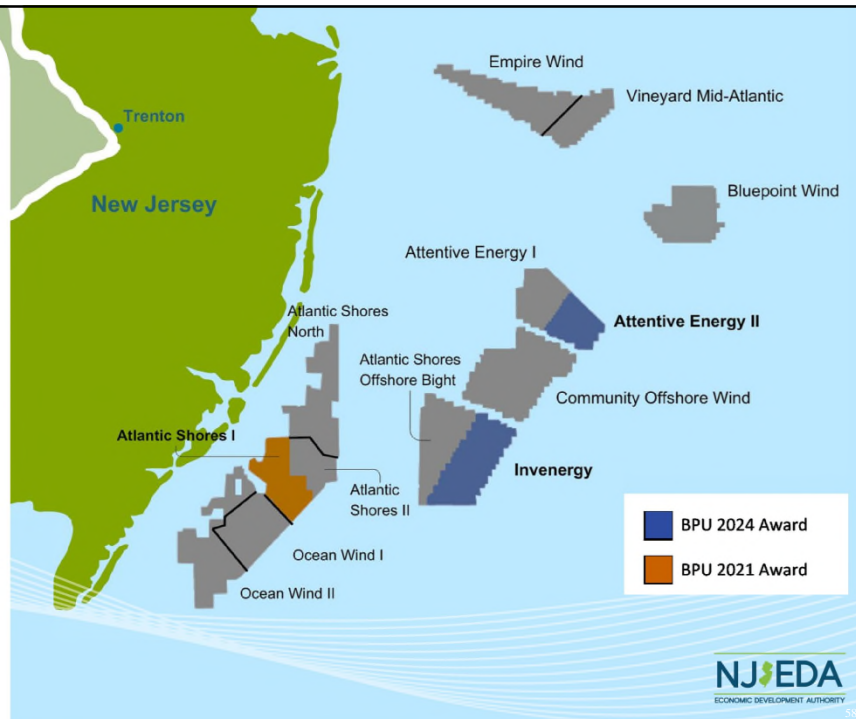
Project	Capacity Target/Award (MW)	Issue Date	Submittal Date	Award Date	Estimated COD
Atlantic Shores	1,510	Q3 2020	Q4 2020	Q2 2021	2028
Attentive 2	1,342	Q1 2023	Q3 2023	Q1 2024	2031
Leading Light Wind	2,400				2031-32
Solicitation 4	1,200 – 4,000	Q2 2024	Q3 2024	Q4 2024	2032
Solicitation 5	1,200 – 4,000	Q2 2025	Q3 2025	Q4 2025	2034
Solicitation 6	1,200 – 4,000	Q2 2027	Q3 2027	Q1 2028	2035
Solicitation 7	1,200 – 4,000	Q2 2029	Q3 2029	Q1 2030	2037



Newly Awarded Projects




Invenergy energyRe




NJ3 OREC solicitation awarded a combined 3,742MW of OSW

TWO PROJECTS AWARDED



Leading Light Wind

2,400 MW



attentive energy two

1,342 MW


\$6.8 billion
in economic benefits for NJ

1.8 million homes
powered through domestically-produced energy


\$164 million in funding
for EEW expansion at Port of Paulsboro

27,000
direct, indirect and induced full-time equivalent job years
created over the useful life of the projects

Marshalling at NJWP
and commitments for anchor orders from tower facility at NJWP




NJEDA Role in Advancing NJ's Offshore Wind Industry




OSW Sector Development

- Conduct industry outreach to attract new offshore wind businesses and expand local supply chain
- Offshore Wind Supply Chain Registry
- OSW Tax Credit to support large-scale manufacturing investments
- Free trainings on offshore wind industry for NJ businesses




Wind Institute for Innovation & Training

- Galvanize cross-stakeholder offshore wind workforce, education, research and innovation efforts
- 25 agreements with partner organizations to launch new programs
- Highlights include safety, turbine tech and welding training programs, Fellowship Program, and Wind Innovation Center



New Jersey Wind Port

- Purpose built 200-acre wind port in Salem County for marshalling and manufacturing
- Support up to 1,500 operations, assembly and manufacturing jobs
- Established diversity targets for MWVBES and workers on site
- Local Engagement and Diversity Committee



NJ is Growing the Offshore Wind Supply Chain Through its Ports

- Manufacturing**
EEW will manufacture **monopiles** at **Port of Paulsboro**. There are plans to assemble/manufacture **nacelles and towers** at **NJ Wind Port** with additional space for future facilities
- Marshalling**
Atlantic Shores, Attentive, and Leading Light plan to marshal their projects at **NJ Wind Port**
- Operations & Maintenance**
O&M hubs under development in **Atlantic City and Port Reading**

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Offshore Wind Component Manufacturing

One of the only operational domestic Tier 1 suppliers in the country

PAULSBORO, NJ

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NJ is Developing the First Purpose-Built Wind Port in the United States

- ✓ **OPEN ACCESS**
to the Atlantic Ocean
- ✓ **NO Bridge Restrictions**
and ample space
- ✓ **50% of Lease Areas**
are within a day's steaming distance
- ✓ WILL CREATE UP TO
1,500 Manufacturing & Operations Jobs



NEW JERSEY WIND PORT



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Project Status - Phase 1A (Parcel A and Main Subdivision)



Parcel A

- Construction of 30 acre marshaling yard 100% complete as of May 2024
- Live load capacity of 6,200 psf. (wharf) and 3,000 psf. (upland)



Main Substation

- Construction of 12.8-mile 69kV transmission line to be completed by end of 2024
- From the Substation, electricity is transformed down to 13.8kV and routed throughout Port



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Active Construction – Parcel B1

- B1 West Embankment construction to be completed in September 2024.
- Earthworks is first step in preparing for Terminal Construction
- Fill from Parcel C-1 and CDF2 utilized to construct embankment.
 - Estimated total of ~1 million Cubic Yards of Embankment Material
- Test Pile Program Completed in for Parcel B1
- Additional Wharf needed to support BPU NJ3 Awards



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Active Construction – CDF2 Borrow Area

- Borrow excavation site owned by USACE known as CDF2 (CDF = Confined Disposal Facility).
- Strong Partnering Efforts between NJEDA & USACE to make this effort possible.
- NJEDA has agreement with USACE to extract up to 600,000 CY of granular fill from CDF2.
- NJEDA creating capacity opens opportunities for future NJWP use
 - 217(b)
 - 204(f)



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ATTAINING ZERO EMISSION & ECONOMIC GOALS WILL REQUIRE FIT-FOR-PURPOSE PORT CAPACITY

	Marshalling	Manufacturing	O&M	Co-located Hub
Use period	Short-term/project based (<2 years)	Long-term (15+ years)	Long-term (25+ years)	Mix of short and long term
Air-draft	Unrestricted	Standard	Standard	Unrestricted
Dredge depth (ft)	40-45	35-45	<20	40-45
Optimal size (acres)	50-100	Facility dependent (25 nacelle – 80 blades)	5-10	>200
Minimum wharf length (ft)	1,300	650	Standard	>2,000 (assuming min of 3 berths)
Weight bearing (psf)	>6k (wharf) 3k (uplands)	3k	Standard	>6k (wharf) 3k (uplands)
Distance to wind farm (nm)	Somewhat distance sensitive <150	Not distance sensitive	Highly distance sensitive if CTV (<40) Less sensitive if SOV	Distance sensitive (see marshalling)
Improvement/capital cost (\$m)	>400	>250	<100	>750

- Marshalling requires **unrestricted air-draft** and **extreme weight bearing**
- Manufacturing ports require **larger acreages** and **heavy weight bearing**
- O&M ports are **highly distance sensitive**
- Co-located hubs have significant requirements including **large acreage** and **extensive wharf infrastructure**

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New Jersey Wind Port Construction Commitments



New Jersey Wind Port project setting a new standard for minority, veteran, and women-owned business inclusion

- ✓ Diversity set-aside goal in CM agreement:

15%
MWVBE

25%
SBE

3%
DVBE

- ✓ Advisory Committee to help fortify commitment to inclusion



AECOM-Tishman signed a PLA with South Jersey Building and Construction Trades Council

- ✓ Non-union businesses will need to sign letter of assent to participate
- ✓ Affirmative action goals for workers in construction:

18%
MINORITY WORKERS

25%
FEMALE WORKERS

NJEDA
ECONOMIC DEVELOPMENT AUTHORITY

Thank you!



**NEW JERSEY
OFFSHORE WIND**


- ✔ Visit our website:
njwindport.njeda.gov
- ✔ Get in touch directly:
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KEYNOTE: Q&A WITH

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