

New York-Offshore Wind: Regulation & Engineering September 12, 2019 | NY Energy Forum, Citigroup NYC

BOEM The Federal Role

- "Landlord" of lease areas
- Oversees leasing process
- Oversees all federal permitting processes: Site Assessment Plans, Construction and Operations Plans, Environmental Assessments

New York

The State Role

- Buyer in long-term revenue contracts with projects
- State permitting processes
- Energy policy and strategy development
- Stakeholder engagement
- Supply chain and workforce development
- Research and data development
 - Regulatory activities related to offshore energy development

NYSERDA, DOS, DEC, DPS

Developers The Industry Role

- Design, finance, build, and operate projects
- Supply chain planning including ports development and top-tier procurement
- Fulfill federal and state permit requirements
- Stakeholder engagement throughout development



of offshore wind by 2035

10,000 JOBS ENOUGH TO POWER 6 MILLION HOMES BILLIONS IN INFRASTRUCTURE 30% OF NEW YORK'S ELECTRICITY LOAD

NEW YORK'S NATION-LEADING CLIMATE LAW Climate Leadership and Community Protection Act

100% Clean Electricity x 2040

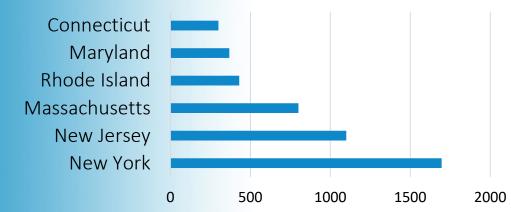
NEW YORK STATE OF OPPORTUNITY. THE LARGEST COMMITMENT TO OFFSHORE WIND BY A STATE IN U.S. HISTORY

1,696 MW of offshore wind capacity

Enough to power over 1 million New York homes



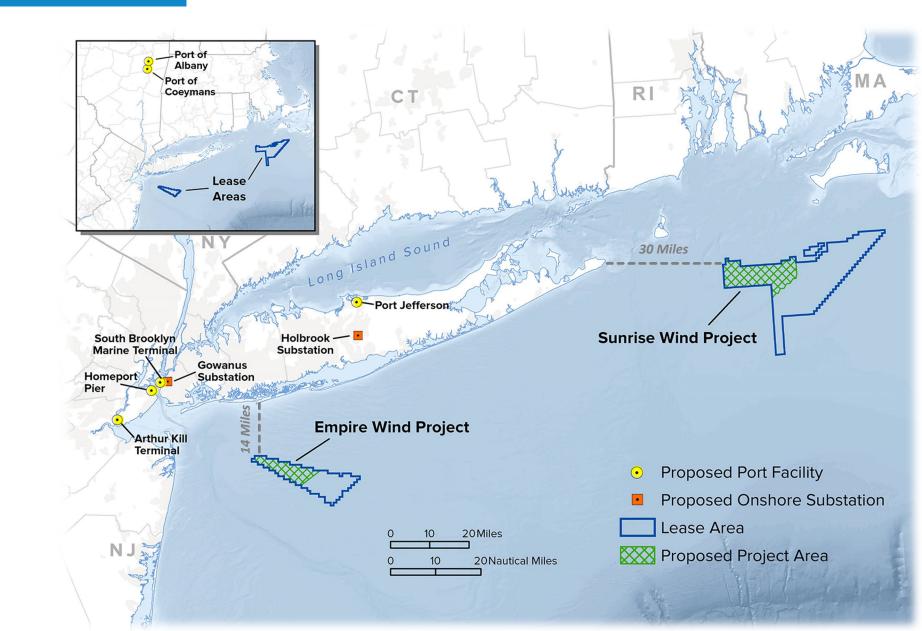




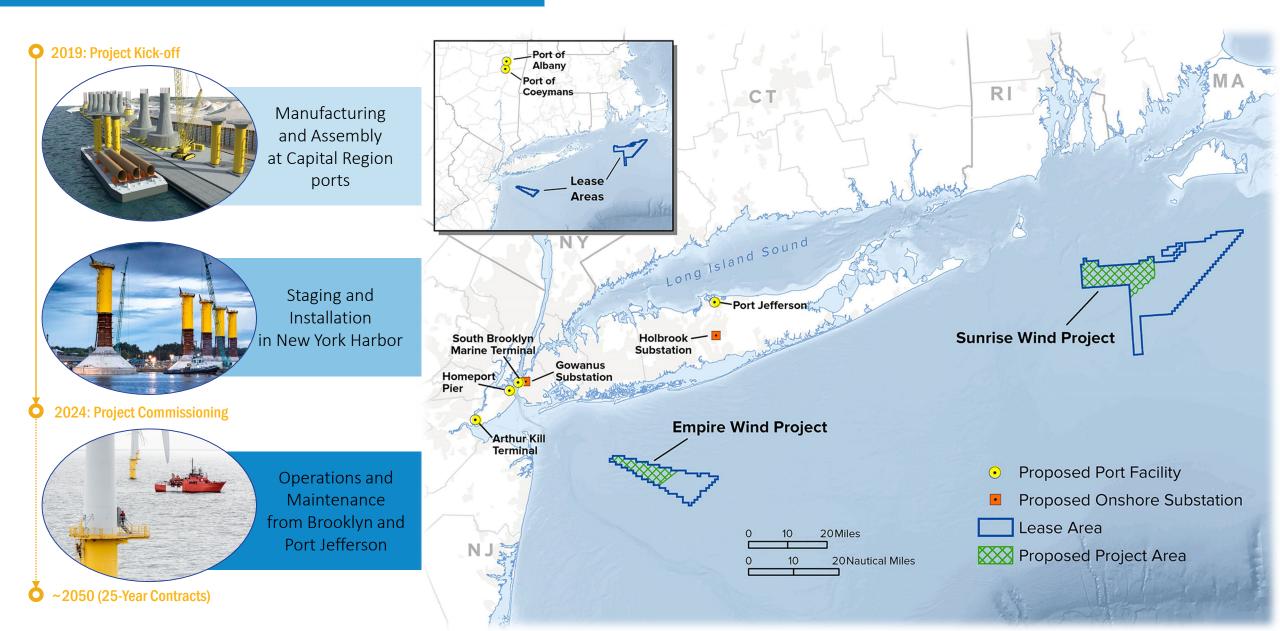
AWARD RESULTS: TWO PROJECTS

Empire Wind 816 MW

Sunrise Wind 880 MW



AWARD RESULTS: TWO PROJECTS



AWARD RESULTS: TWO PROJECTS

Timeline for 1st phase of projects (approximate dates)



Research and Stakeholder Engagement New York State Energy Research and Development Authority (NYSERDA) leads design of project guidelines

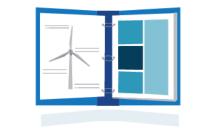
2017 - Ongoing

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2019

Proposal Review and Contract Awards

Developers submit proposals to NYSERDA, who reviews and awards contracts





Permitting and Approvals

Developers identify sites for turbines and substations, map cable routes, and obtain federal, state, and local permits and approvals

2020 - 2024

Manufacturing

2019 - 2023



Construction and Installation Developers install foundations, lay cables, build substations, and assemble wind turbines

2022 - 2024

Developers work with supply chain to

manufacture and transport components

2024



Operations

Offshore wind projects produce renewable electricity to power New York State (25+ years)

NEW YORK

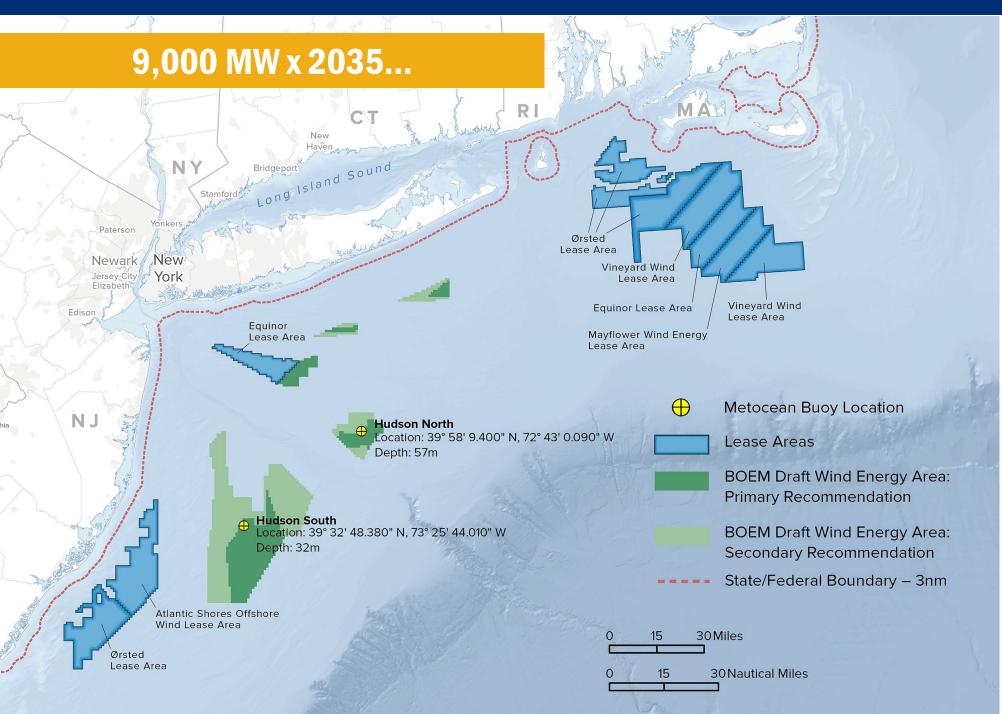
STATE OF OPPORTUNITY. NYSERDA

2024 - 2050+



Developers and grid operators conduct pre-operational testing













9,000 MW x 2035...



Thank You

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