

# 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** 

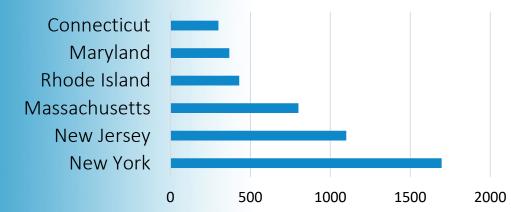
NEW YORK STATE OF OPPORTUNITY. THE LARGEST COMMITMENT TO OFFSHORE WIND BY A STATE IN U.S. HISTORY

# **1,696 MW** of offshore wind capacity

Enough to power over 1 million New York homes



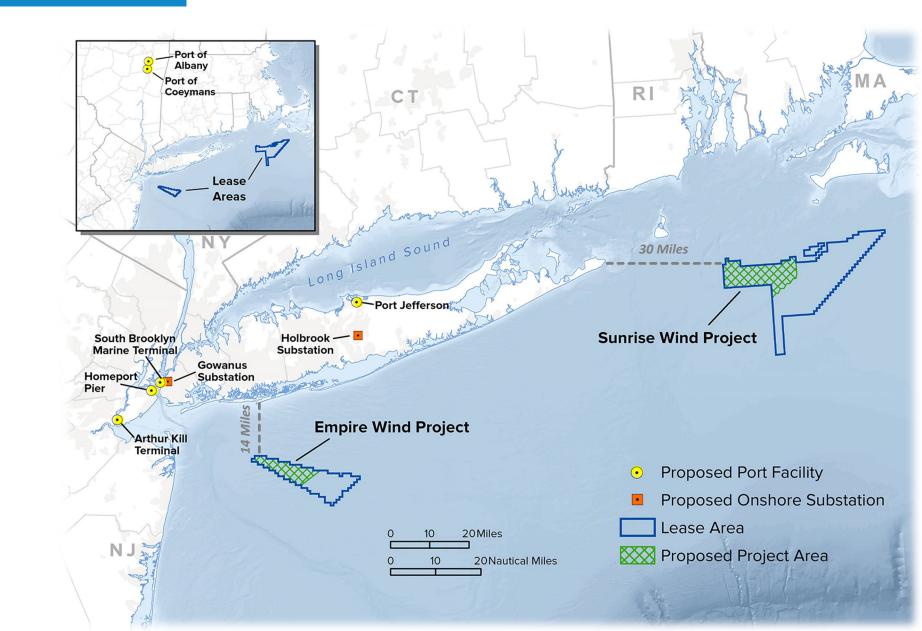




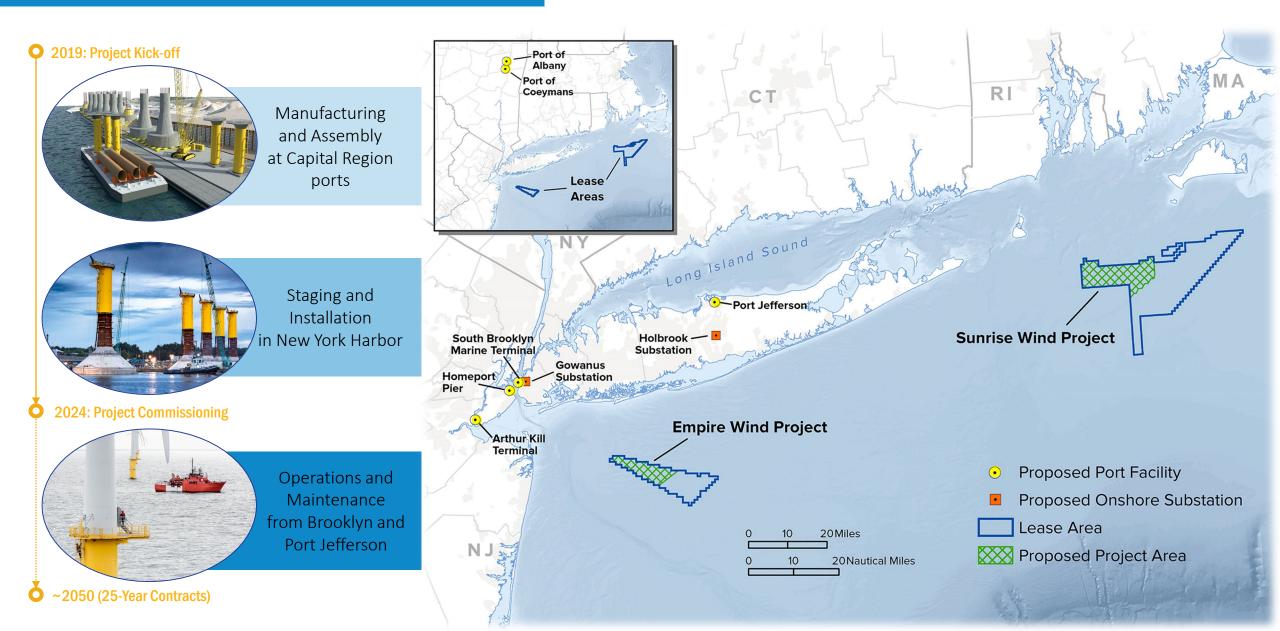
## **AWARD RESULTS: TWO PROJECTS**

Empire Wind 816 MW

Sunrise Wind 880 MW



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#### 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

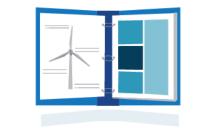
#### 2017 - Ongoing

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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

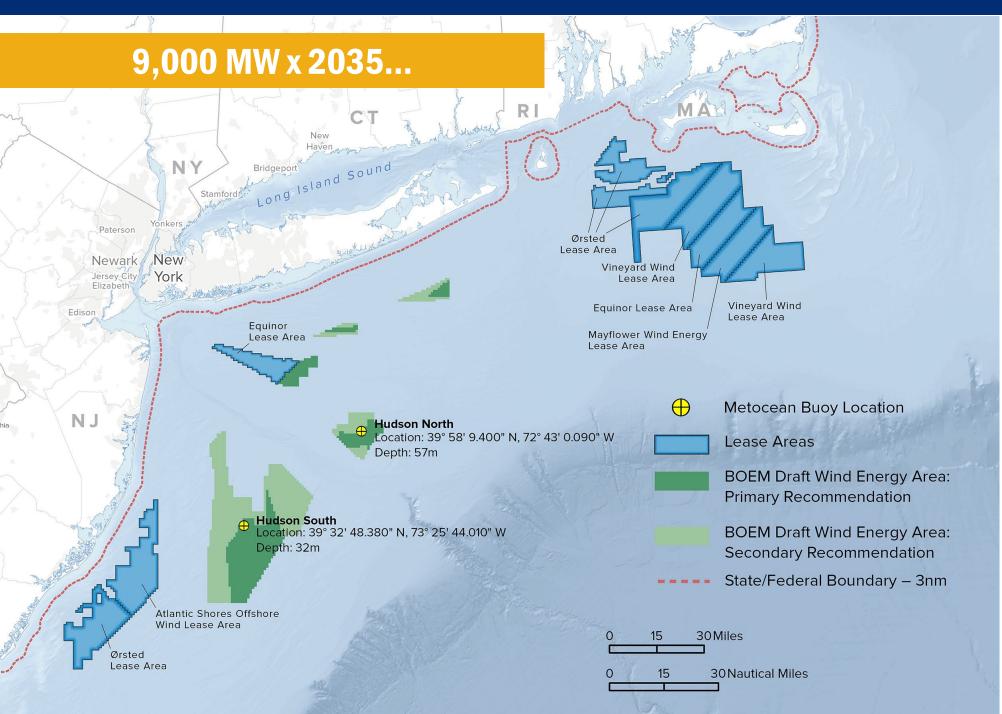
STATE OF OPPORTUNITY. NYSERDA

#### 2024 - 2050+



Developers and grid operators conduct pre-operational testing













## 9,000 MW x 2035...



# Thank You

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