



# VINEYARD WIND

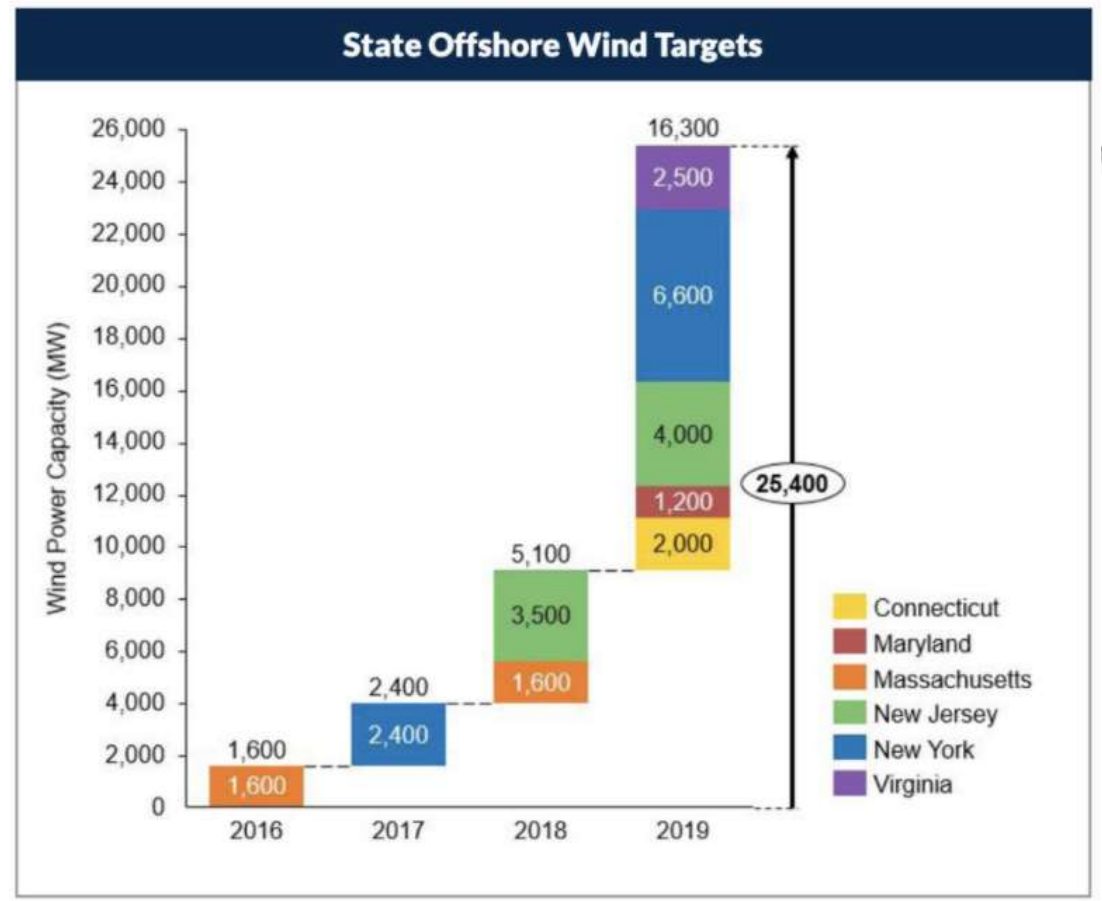
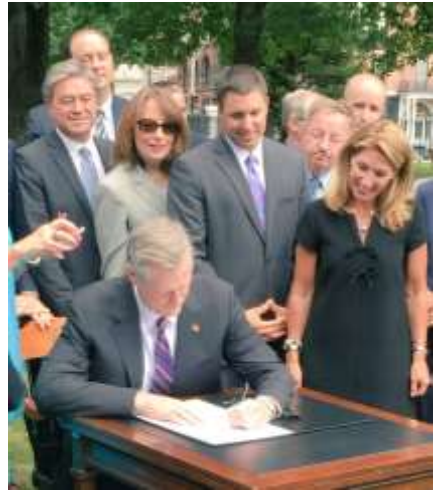
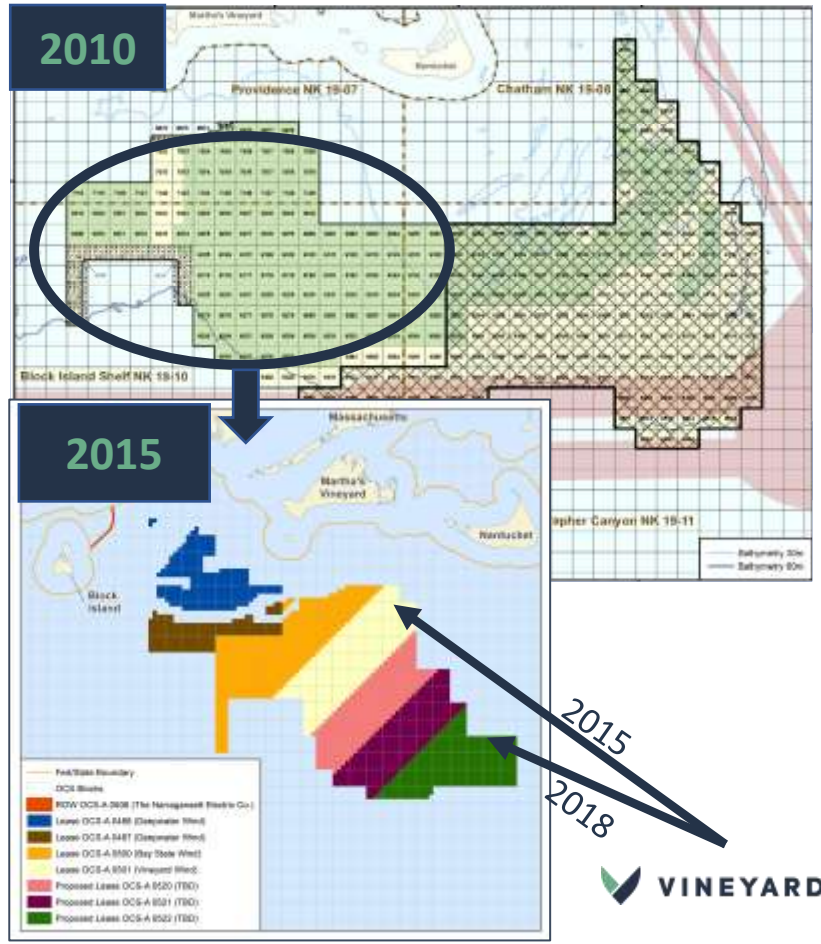
Offshore Wind Overview  
ACEC/MA Utilities and Energy Webinar

April 15, 2021

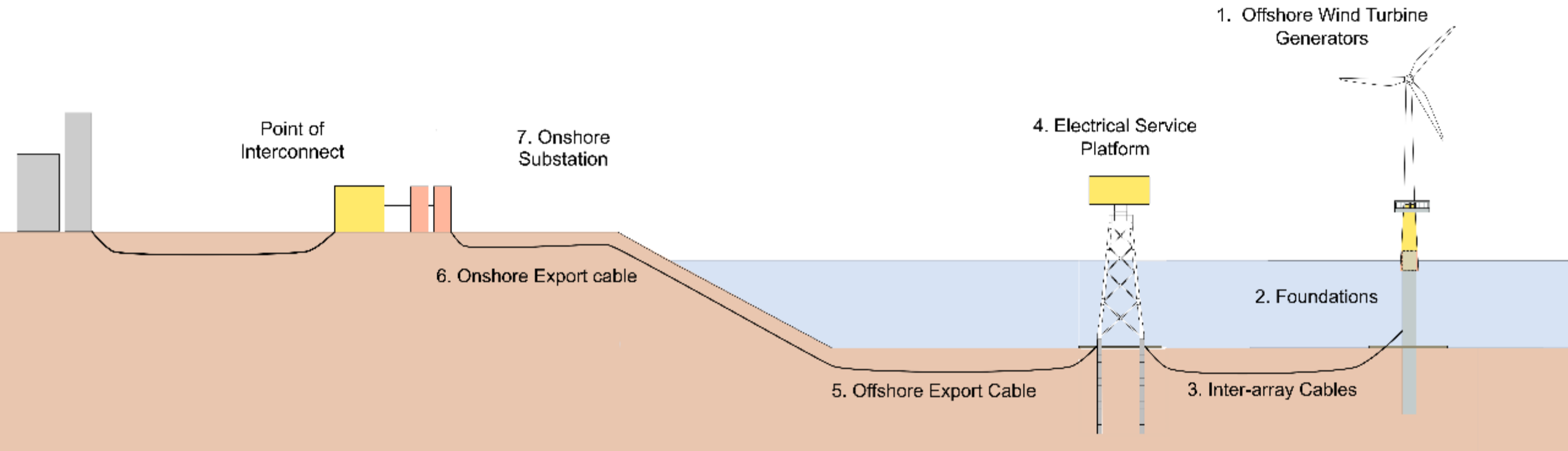
# OVERVIEW

1. Overview of State Policy and Federal Siting
2. Update of Vineyard Wind 1 Project
3. Update of Park City Wind Project
4. Selected Trends in Offshore Wind Development
5. Project Phase and Engineering Roles
6. Workforce Development & Supply Chain
7. Questions

# HOW DID WE GET HERE? STATE POLICY & FEDERAL SITING



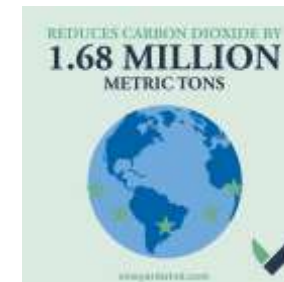
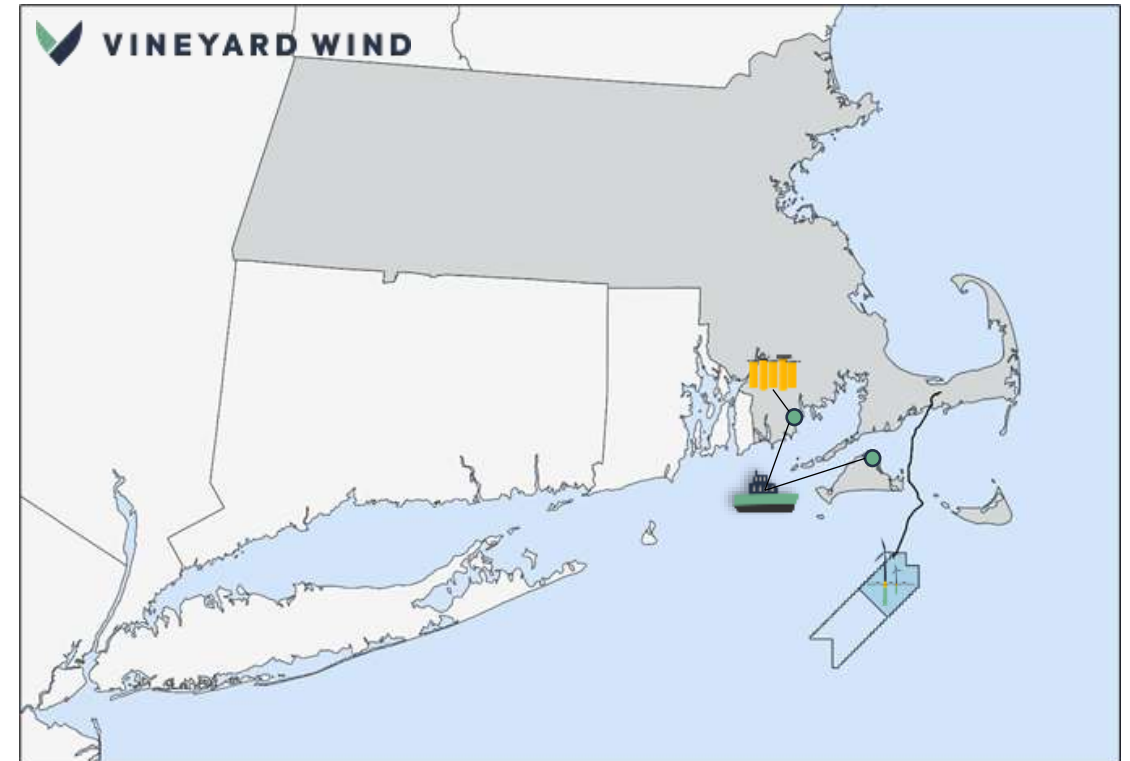
# OVERVIEW OF OFFSHORE WIND PROJECT COMPONENTS



# VINEYARD WIND 1

## Overview

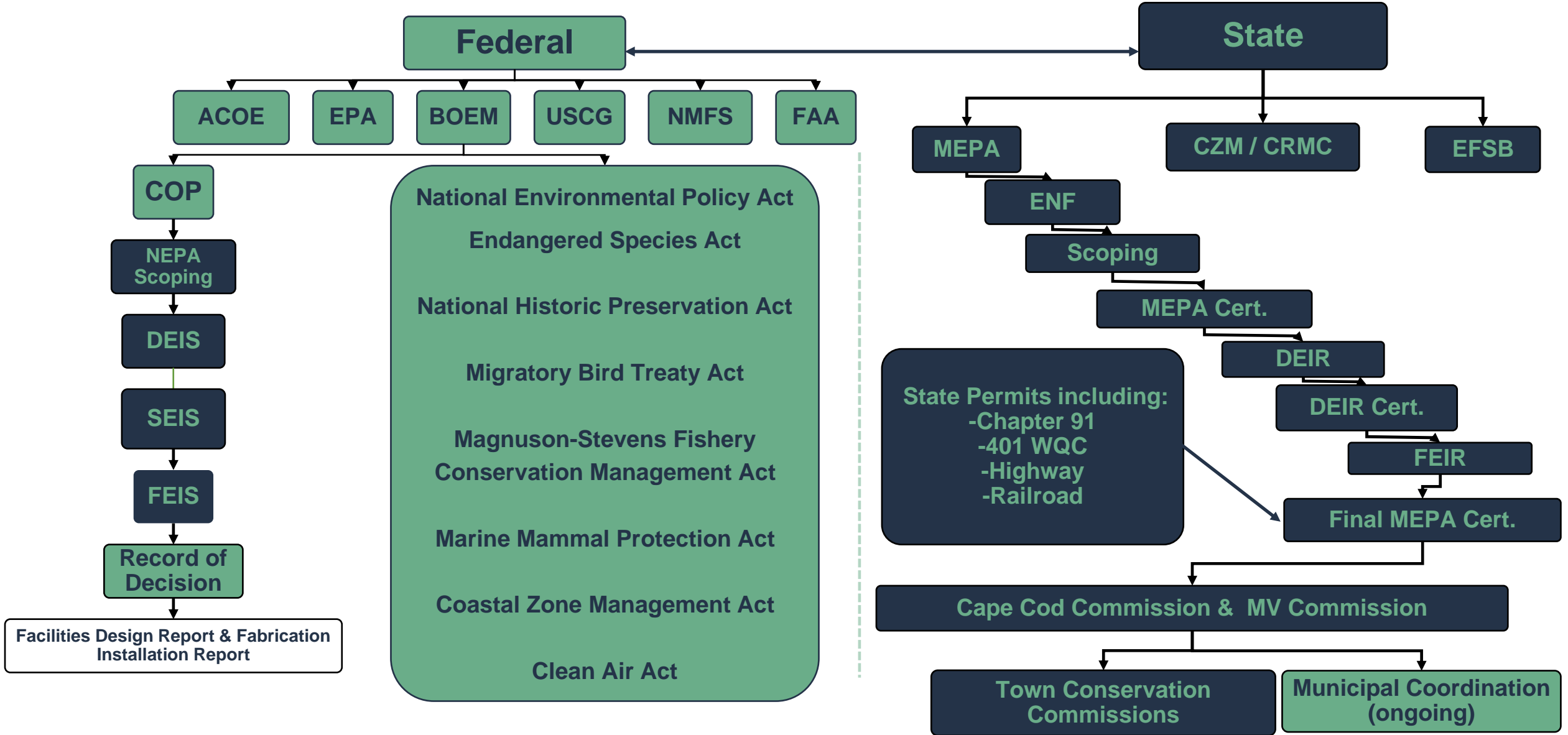
- **Capacity:** 800 MW
- **Turbine Model:** 13 MW GE Haliade-X
- **Location:** 15 miles south of the Islands; 35 miles south of Barnstable
- **Federal Permitting**
  - Began in 2017
  - FEIS released in 2021
  - Record of Decision expected
- **State Permitting:** Complete
- **Point of Interconnection:** Independence Park, Hyannis, MA
- **Timeline:** Onshore construction starting in 2021; offshore in 2022
- **Commercial Operation:** Anticipated in 2023



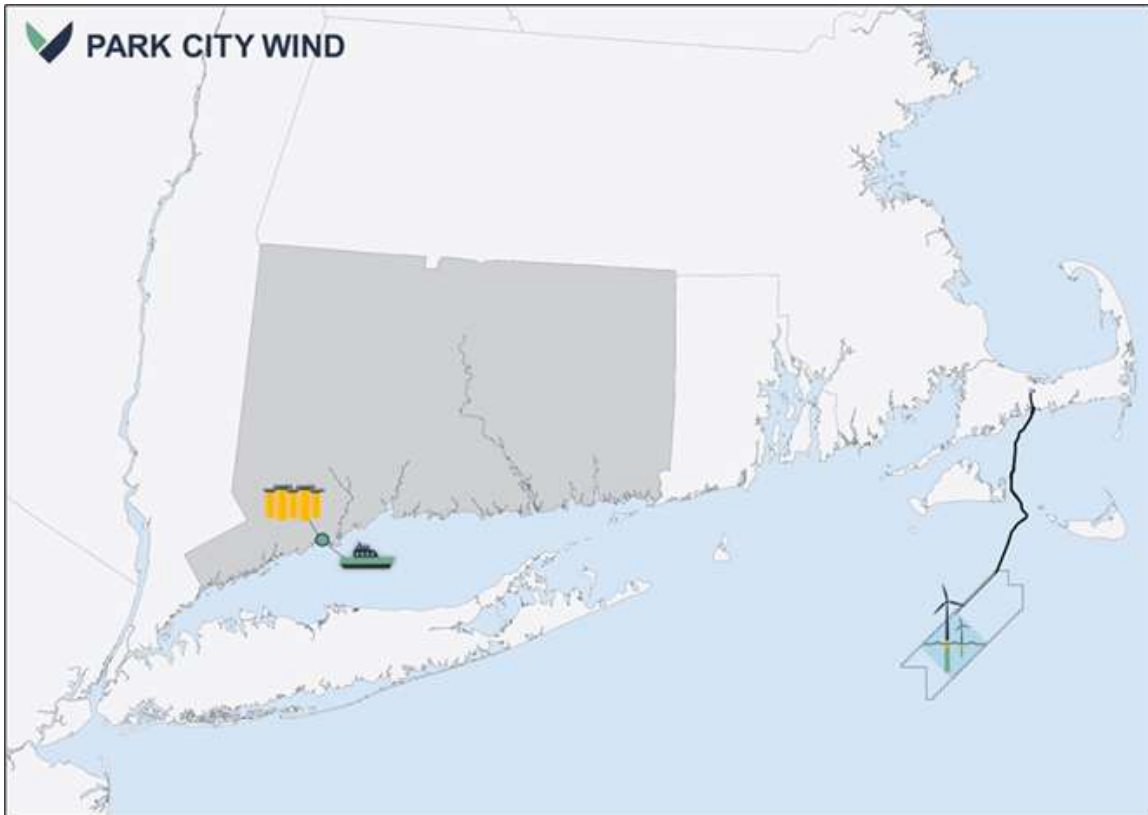
# STATUS OF VINEYARD WIND 1

Permitting Begun

Permitting Complete



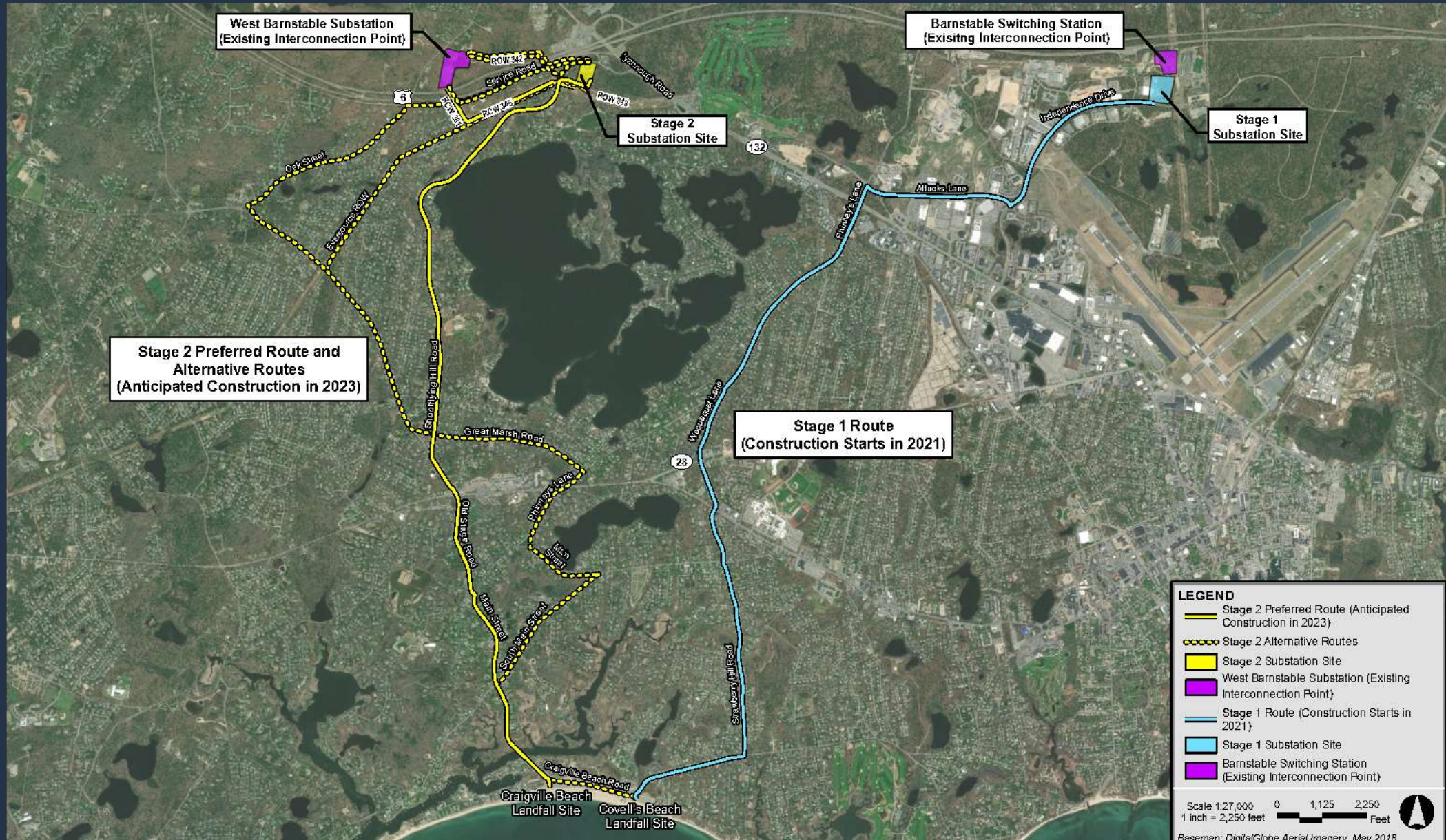
# PARK CITY WIND



## Overview

- **Capacity:** 804 MW
- **Location:** OCS-A 0501 (southwest of Vineyard Wind 1)
- **Federal Permitting:** Construction & Operations Plan (COP) commenced in 2020
- **State Permitting (MA):** Commenced in 2020
- **Point of Interconnection:** West Barnstable (MA)
- **Power Purchase Agreements:** 20-year PPAs with Connecticut utilities (approved)
- **Commercial Operation:** Anticipated in 2025

# TRANSMISSION & INTERCONNECTION IN BARNSTABLE





# SELECTED TRENDS IN OFFSHORE WIND ENERGY DEVELOPMENT

- New MA Offshore Wind Procurement (400 - 1,600MW) - MA 83C III
- Additional 2,400 MW of offshore wind target (2021 Climate law)
- Net-zero greenhouse gas emission limit by 2050 and interim targets
- New BOEM Lease Areas for additional offshore wind generation
- Significant transmission upgrades needed to integrate offshore wind into the electric grid
  - System planning and upgrades for changing mix of generation
- Emphasize local workforce & diversity
  - employment and procurement/contracting opportunities, for minority, women, veterans, LGBT and persons with disabilities
- Prioritize local economic development and supply chain benefits
- Encourage paired energy storage
- Avoid, minimize, mitigate environmental and socioeconomic impacts
- Larger procurements and projects
- HVDC transmission

# PROJECT PHASES & SELECTED CAREERS

PLANNING & DEVELOPMENT	CONSTRUCTION	OPERATIONS & MAINTAINENCE
Project Planning & Engineering	Project Engineers	Site & Facility Managers
Scientific Monitoring & Geological Surveys	Construction & Procurement Managers	Project Engineers
Permitting	Supply Vessels & Heavy Lift Expertise	Helicopter & Vessel Operators
Community & Educational Outreach	Port Logistics	Operations & Maintenance Technicians
Finance	Construction Trades	Project Monitoring
Legal	Environmental Health & Safety Monitoring	Environmental Health & Safety Monitoring
Operations & Logistics Planning	Installation Technicians & Commissioning Engineers	Protected Species Observers

# WORKFORCE DEVELOPMENT & SUPPLY CHAIN

## Vineyard Wind

- Local headquarters, local team
- Internship program

## Construction

- Project Labor Agreements
- Training programs/facilities
- Learning from Europe:
  - Adopt industry standards for safety and work conditions
  - On the job training

## Operations & Maintenance

- Hubs in Vineyard Haven and Bridgeport
- Training and education programs for local workforce

## Supply Chain

- Meet the Buyer events
- Importance of local connections and resources



# VINEYARD WIND 1 TIER 1 SUPPLIERS ANNOUNCED



Turbines



FOSS

Turbine Installation



Southwire®

Onshore Cables



A HITACHI ABB POWER GRIDS &  
SNC-LAVALIN COMPANY

Onshore Substation

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QUESTIONS?

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