



**CB7 - Economic
Development-Waterfront
Committee meeting**

8 Feb at 6:30pm



Agenda

- Introducing Equinor
- Empire Wind Project Overview
- SBMT Overview
- O&M Base Design Updates
- Long Term Operations
- Looking Ahead

Bringing renewable energy—and so much more

The Empire Wind and Beacon Wind projects will deliver:

- **3.3 GW** of renewable energy
- power for **~2 m homes**
- **\$2.5 bn** in economic development commitments to NY*
- **\$52 m** for community benefits
- **\$25 m** for environmental research
- **73-acre OSW port facility** at South Brooklyn Marine Terminal
- **500** long-term jobs**
- **1,500** short-term jobs**

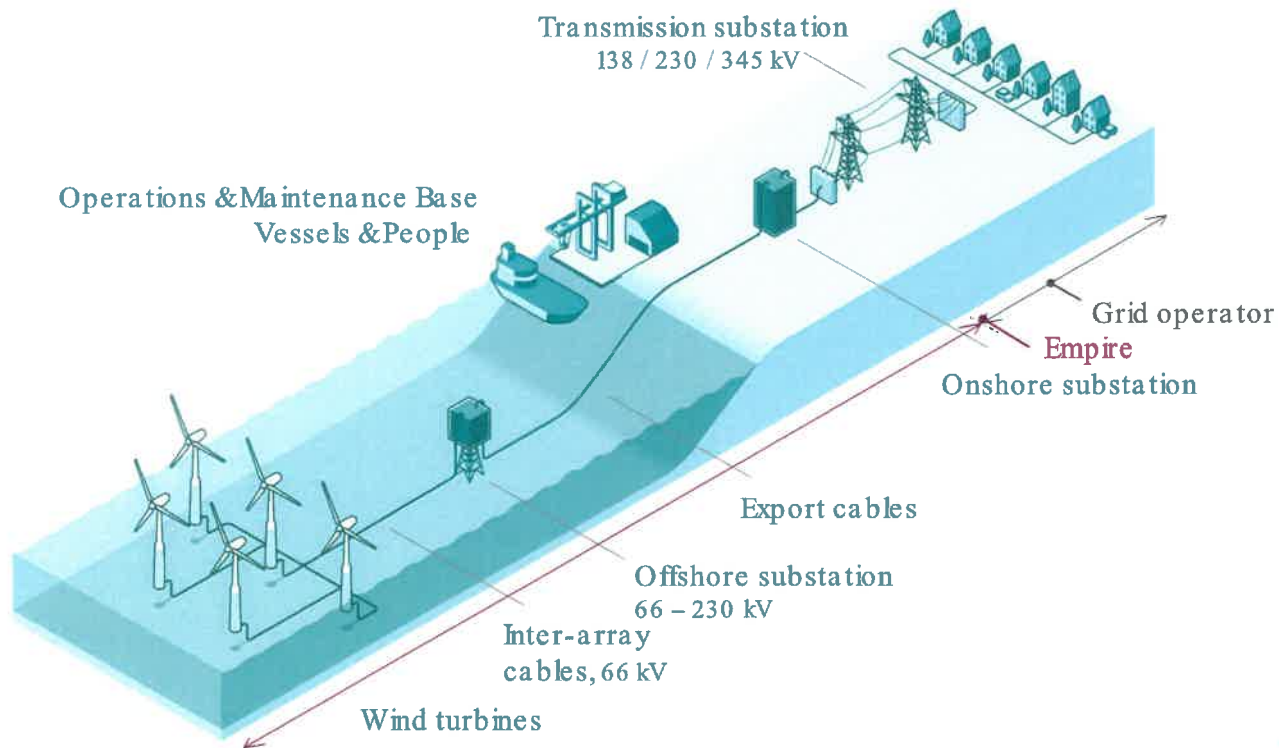
*EW2 & BW1 only (2022 PSA)

**estimated job creation impact at Port of Albany and South Brooklyn Marine Terminal

Open



Offshore Wind: How it Works



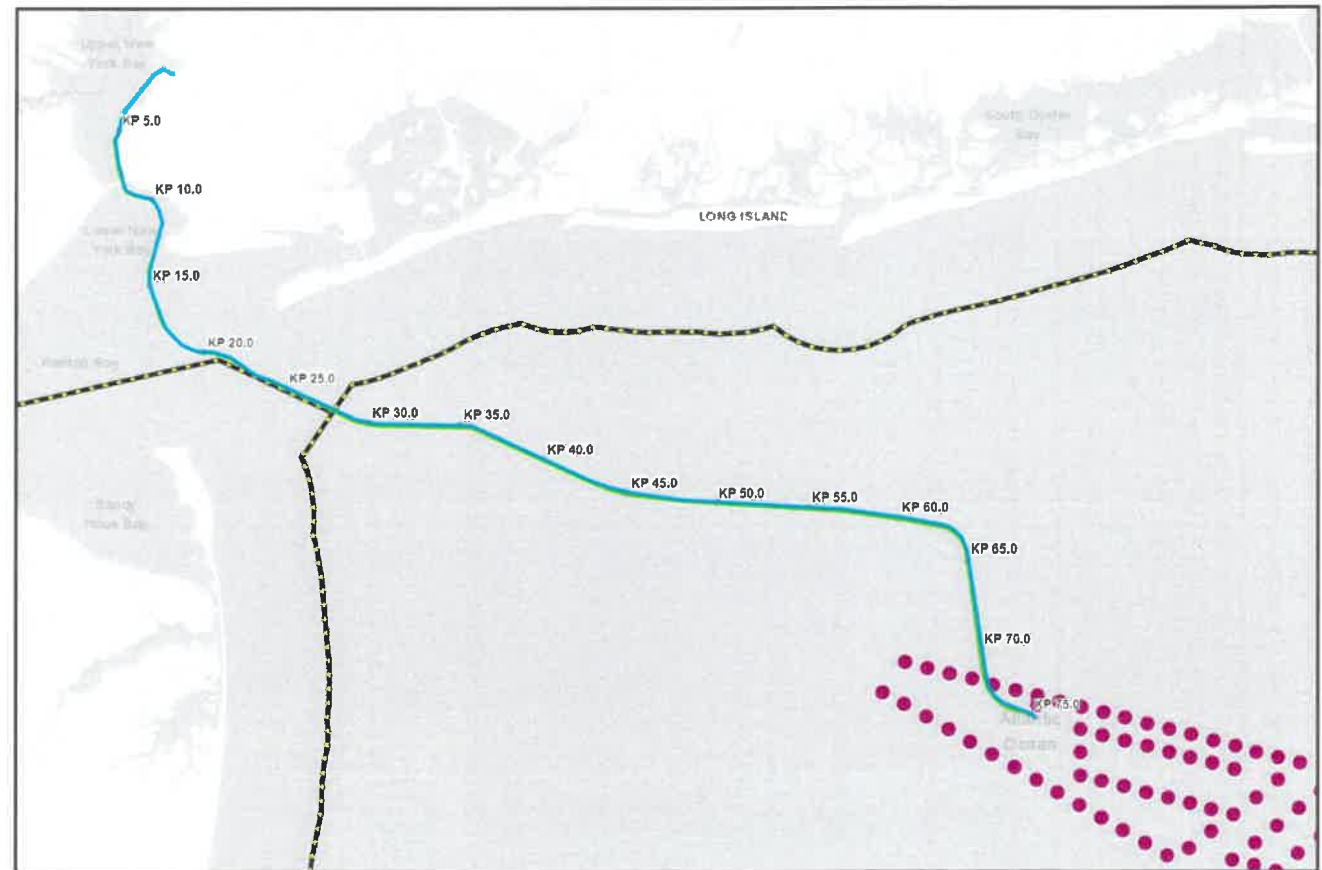
Wind blows **stronger** and **more consistently** offshore

Wind blows stronger during **peak energy use**—in the morning and in the evening

Wind is an excellent source of renewable energy for **large coastal population centers** like New York

Empire Wind 1 & 2 Lease Areas

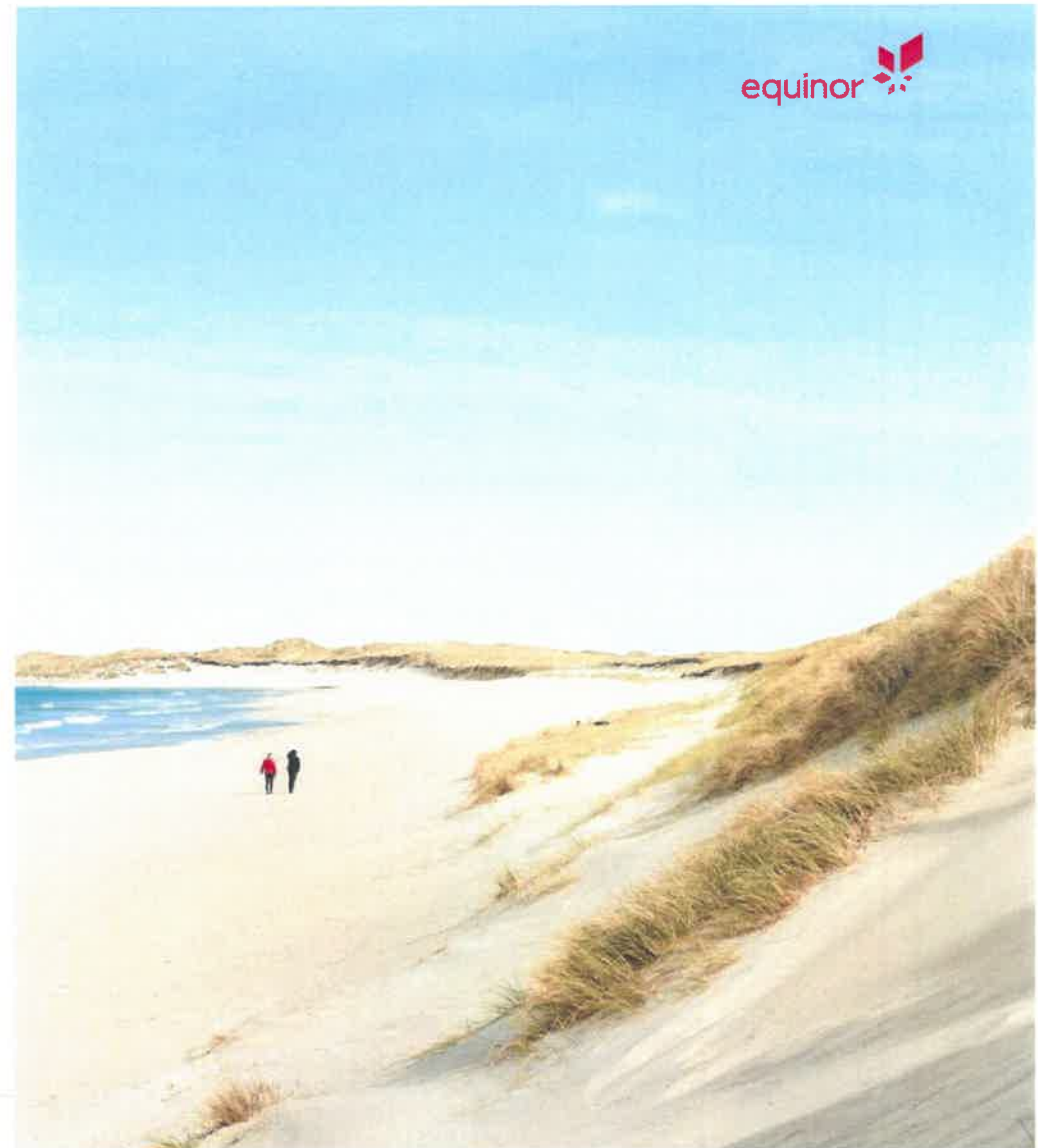
- 147 turbines
- Two offshore substations
- Upper blade tip height 951 ft
- Turbine Wattage: 15 Mega watt
- Each rotation of the blades power a typical NY home for 1 ½ days



Equinor's commitments to communities

A COMMUNITY - BASED DEVELOPMENT MODEL:

- Respect for the environment
- Engage and communicate actively with stakeholders
- Create local jobs
- Invest in local communities
- Source in New York/U.S. whenever possible
- Collaborate with fisheries, environmental justice, front-line and tribal communities
- Be transparent





Community Engagement

- Offshore Wind Learning Center
- Offshore Wind Ecosystem Fund
- Offshore Wind Innovation Hub
- SBMT MWBE Procurement
 - Equinor committed to a 30% MWBE procurement goal for SBMT activities
- Supporting NYCEDC's NYC OSW Waterfront Pathways Training & Capacity Building Program

Learning Center

- Educational Outreach Center for
 - K-12 students from local NYC public schools
 - Participants in OSW educational programming
 - Anyone interested in entering the industry!
- Highlights include
 - Info Videos about Offshore Wind
 - Interactive Exhibits on Port Activities
 - Workforce Development Awareness



South Brooklyn Marine Terminal: Planned Transformation



Artist Impression
Not Final Design

Open

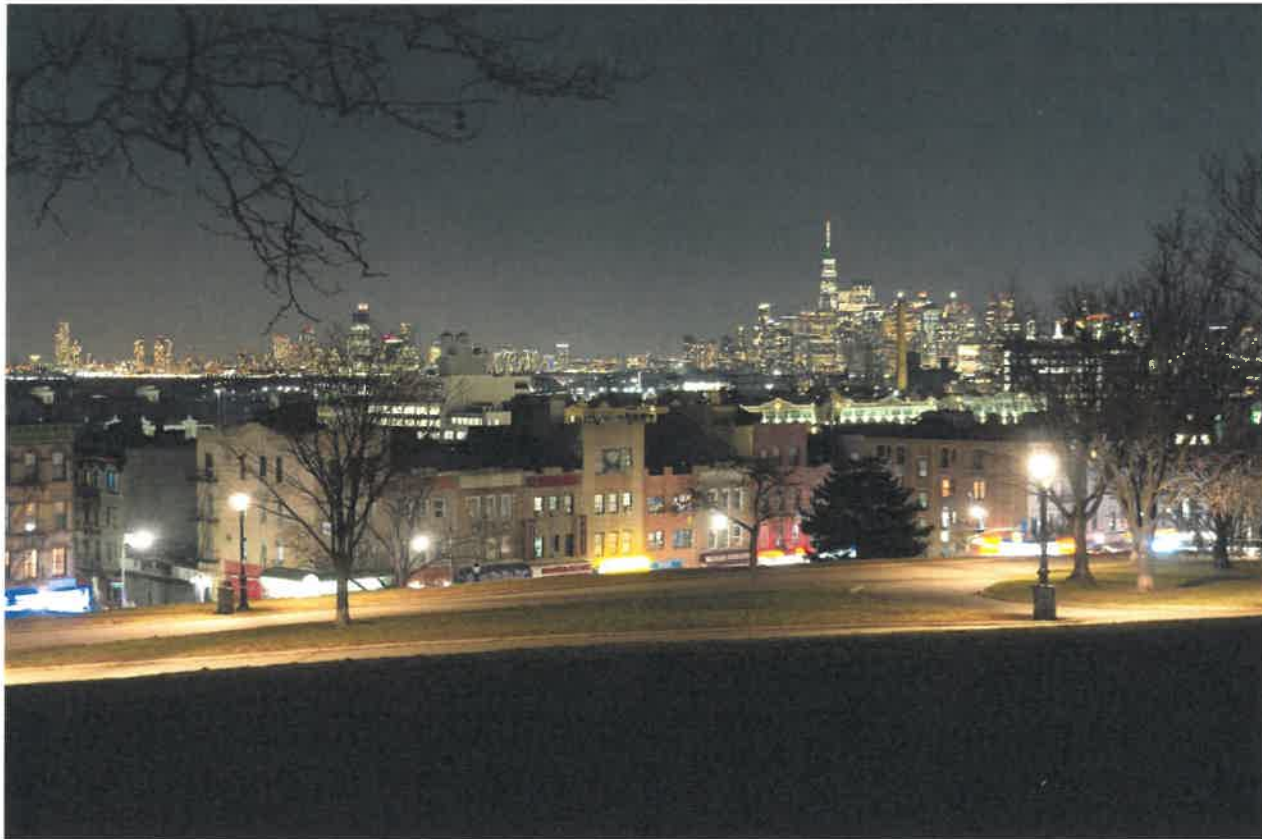
Sunset Park



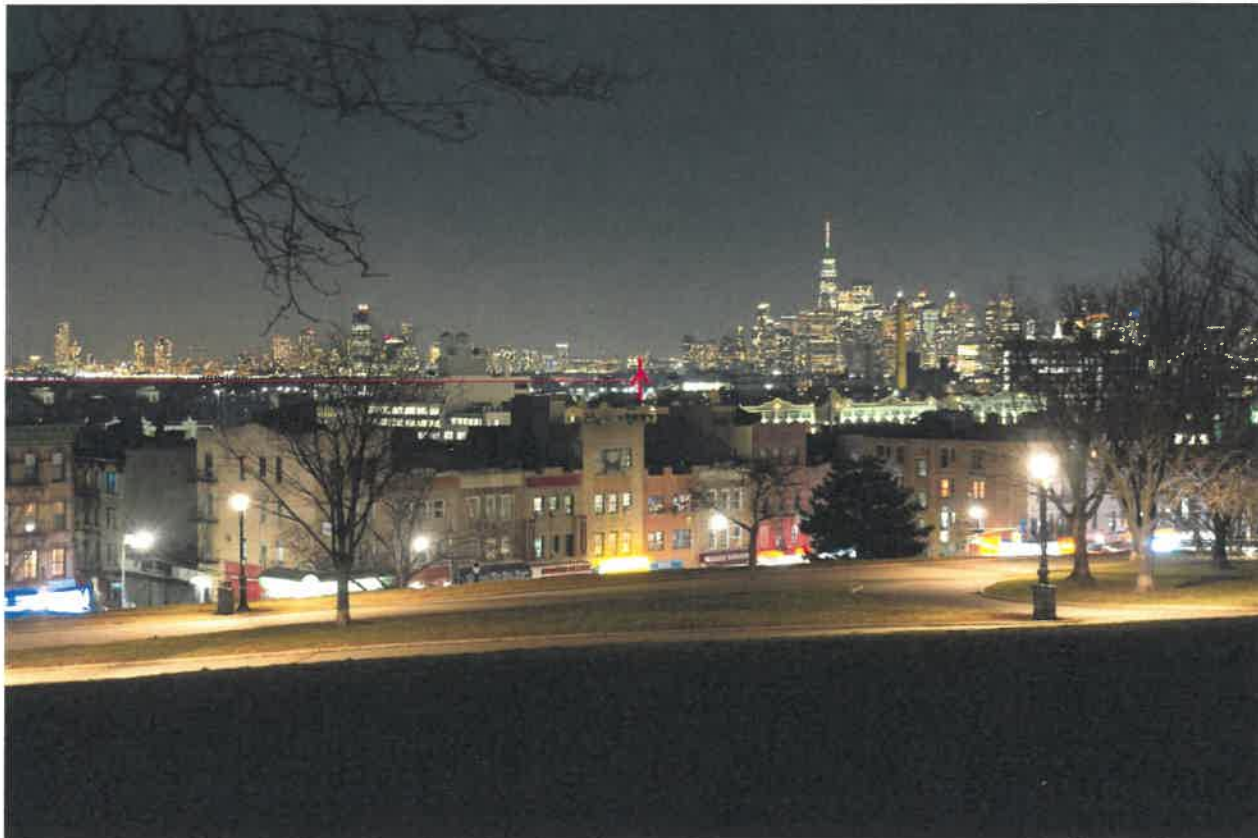
Sunset Park



Sunset Park views at night



Sunset Park views at night



O&M Base: Design Facts

- High efficiency building maximizing natural light and utilizing electric heating system
- Docking facilities utilize **shore power** for Hybrid Vessel to prevent idling at port
- Office Space and **Operations Control Room** with capacity for future wind projects
- Facilities to support offshore maintenance
- Warehouse for operational spares utilizing **electric forklifts**
- Green Roof on O&M Building
 - Exploring **Community Led Solar** Panels
- **Electric vehicle charging** onsite
- Designed for future sea level rise and flood protection
- LEED Certified Building & WEDG Certified Port Site
- Access/Easements – Evaluating several options



O&M Building: Exterior Aesthetics



A B C D E F G H I J K L M



1 BUILDING ELEVATION - EAST
1/18' = 1" = 0'

*Campus Fence still in design & removed from rendering

O&M Campus: Reviewing Fence Options



O&M Campus: Lighting Updates

- Anti-glare, area focused LED lights
- 3 total light poles within O&M Base
- Reduced light pole height within the O&M Campus (40 ft)



Site Traffic

- Performed a Level 1 Traffic Screening Assessment per the City Environmental Quality Review (CEQR) Technical Manual.

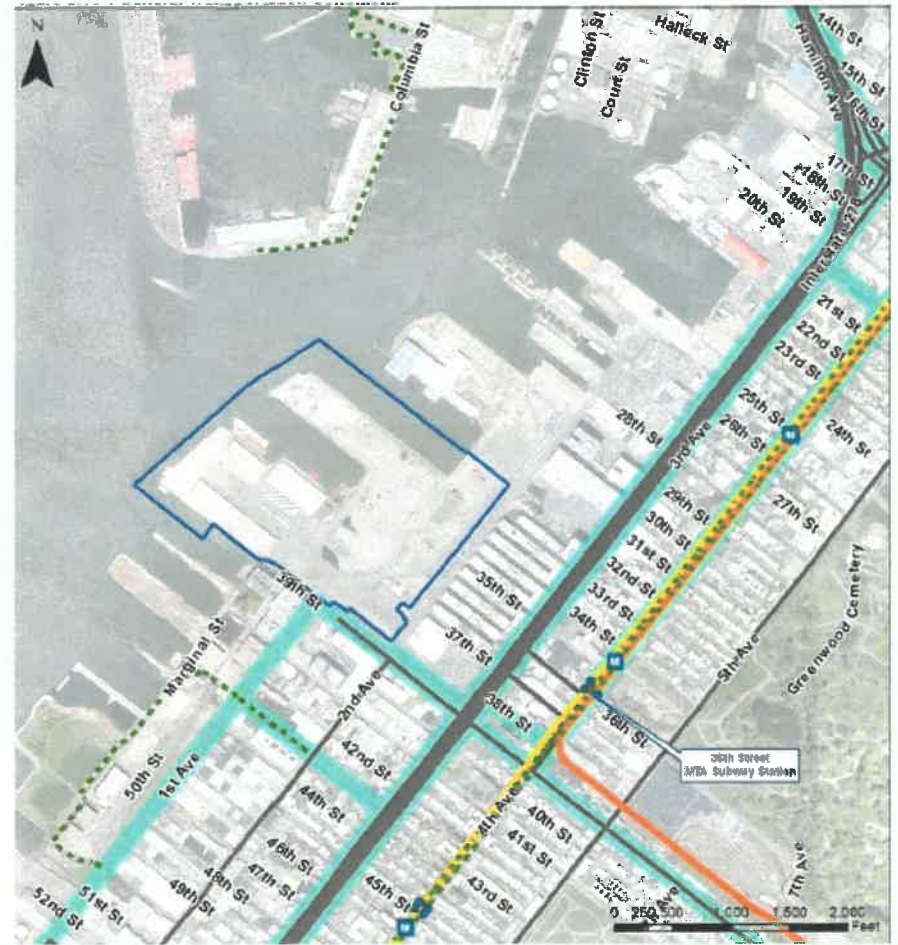
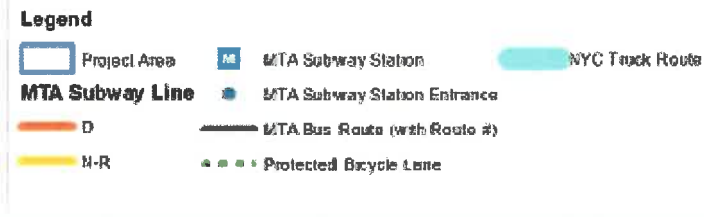


Figure 3.14-1

After Construction: Operations Base Daily Use

Onshore and Offshore Operation & Maintenance Hub

- Electrical substation operation and maintenance
- Management of health, safety and environment
- Mobilisation port for offshore workers
- Storage and management of parts, tools & equipment
- Wind farm control
- Maintenance and logistics planning and co-ordinating
- Engineering and technical support
- Other business-related/administrative services



Offshore Wind Operations – Typical Jobs

Offshore Jobs

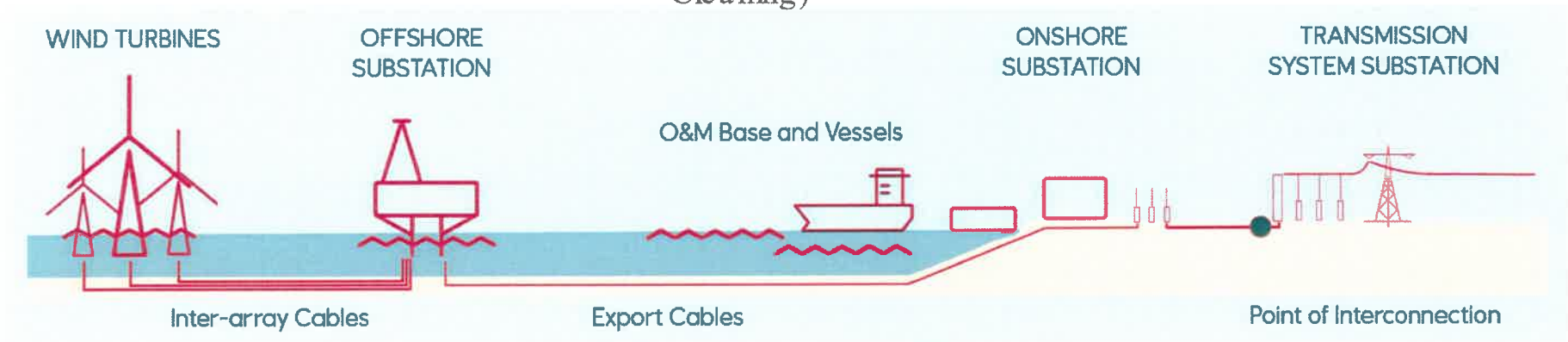
- Maintenance Technicians
- Planning Teams
- Marine/vessel Crew
- Field Medics

Onshore Jobs

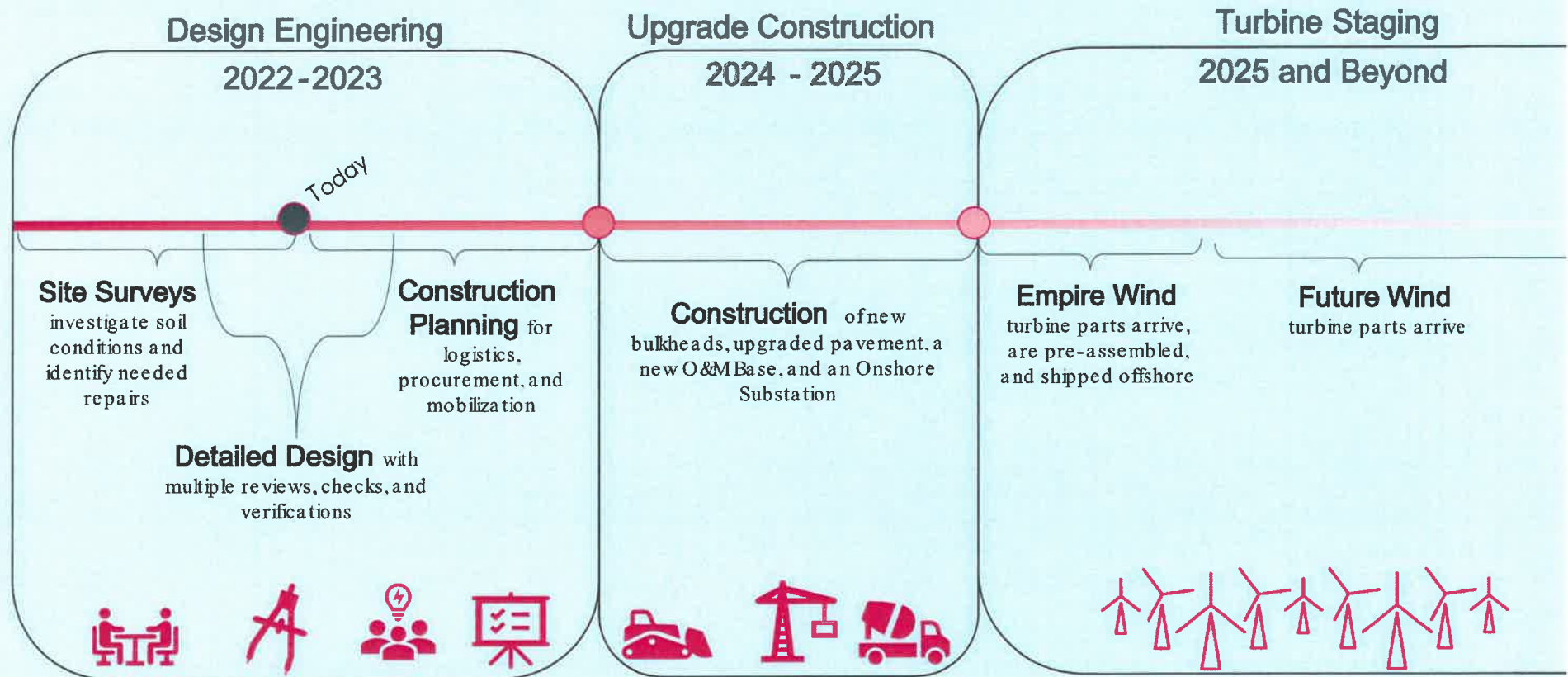
- Engineering
- Maintenance Technicians
- Planning and Coordinating
- Warehouse and Logistics
- Health and Safety Advisors
- Control Room Operators
- Facility Operations & Maintenance (i.e. Security, Cleaning)

Off-Site Jobs

- Finance and Control
- Power Trading
- IT System Support
- Procurement
- Technical Specialists



Port Transformation Time line

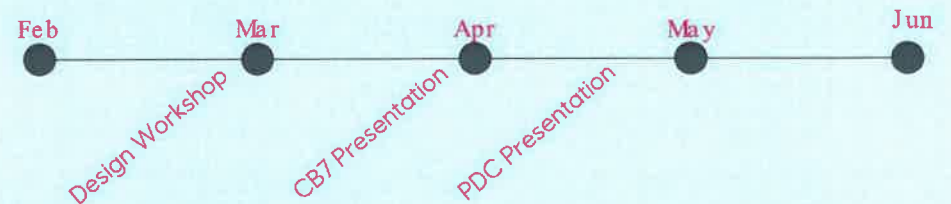
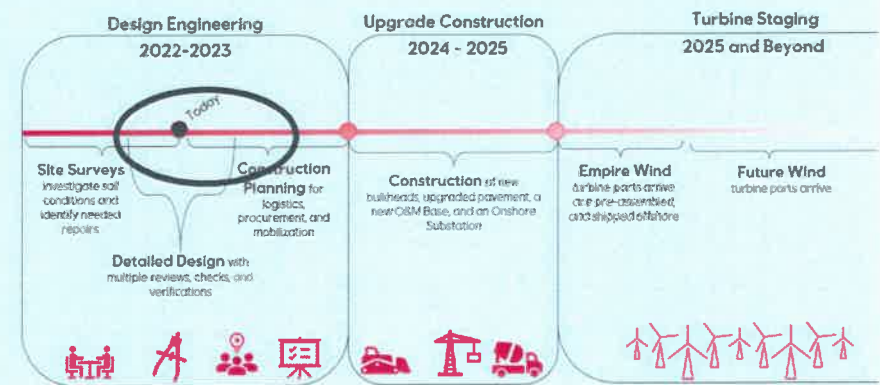


Upcoming Engagements

- Design Engagement Feb 28th
 - **What:** Forum to interact with the design team
 - **Who:** All members of the community!
 - CB7 Presentation – Late March
 - PDC Presentation – Target 24th April
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- Questions or Comments in the meantime?

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THANK YOU