



# Salem Wind Port

House of Seven Gables Community Conversations

June 29, 2023 1830

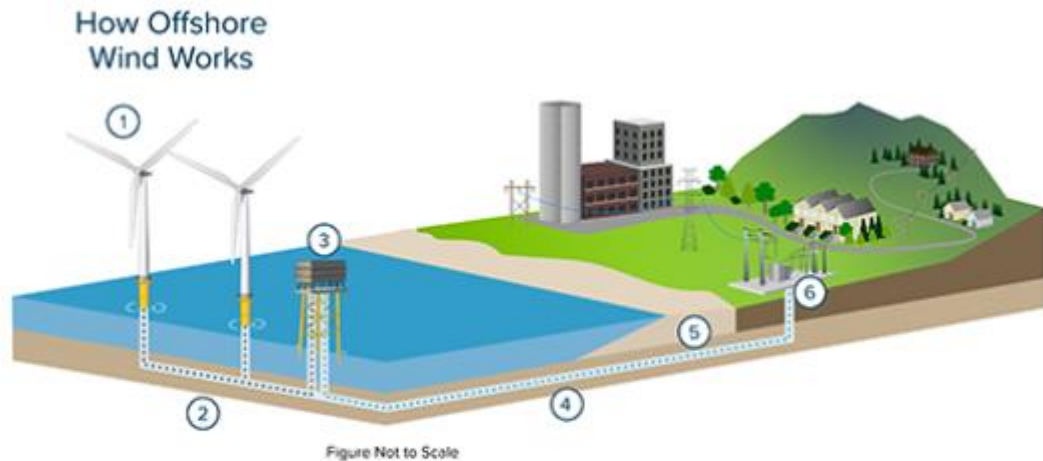
# Agenda

- **INTRO TO OFFSHORE WIND**
- **SWP OPERATIONS**
- **ENGINEERING UPDATE**
- **PERMITTING UPDATE**
- **COMMUNITY ENGAGEMENT**
- **NEXT STEPS**

# Introductions and Intro to Offshore Wind

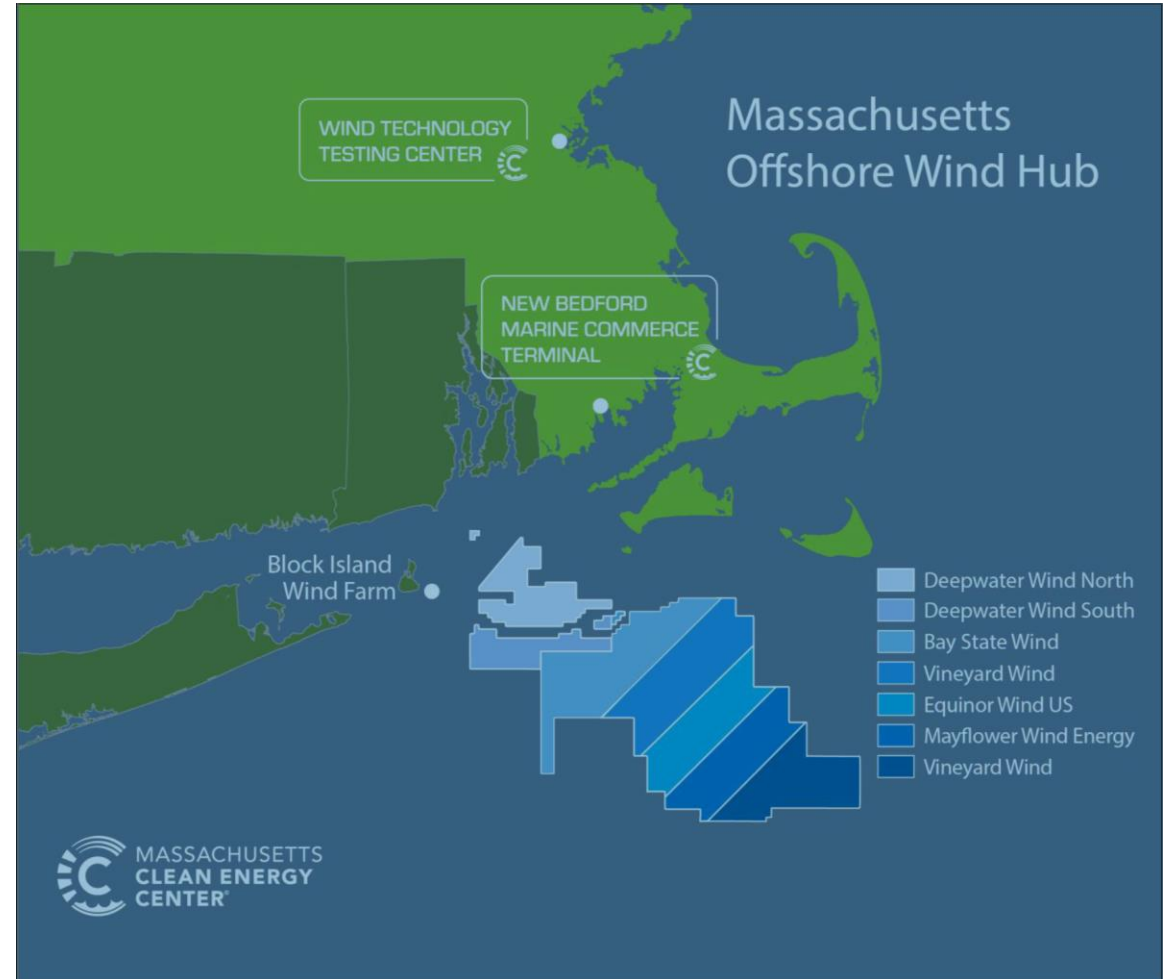
# What is Offshore Wind?

- Power Generation (Electricity)
- U.S. Department of Energy set a goal to deploy 30 Gigawatts by 2030
- Transition away from fossil fuel to generate electricity
- Developer Role – Power Purchase Agreement with Utility

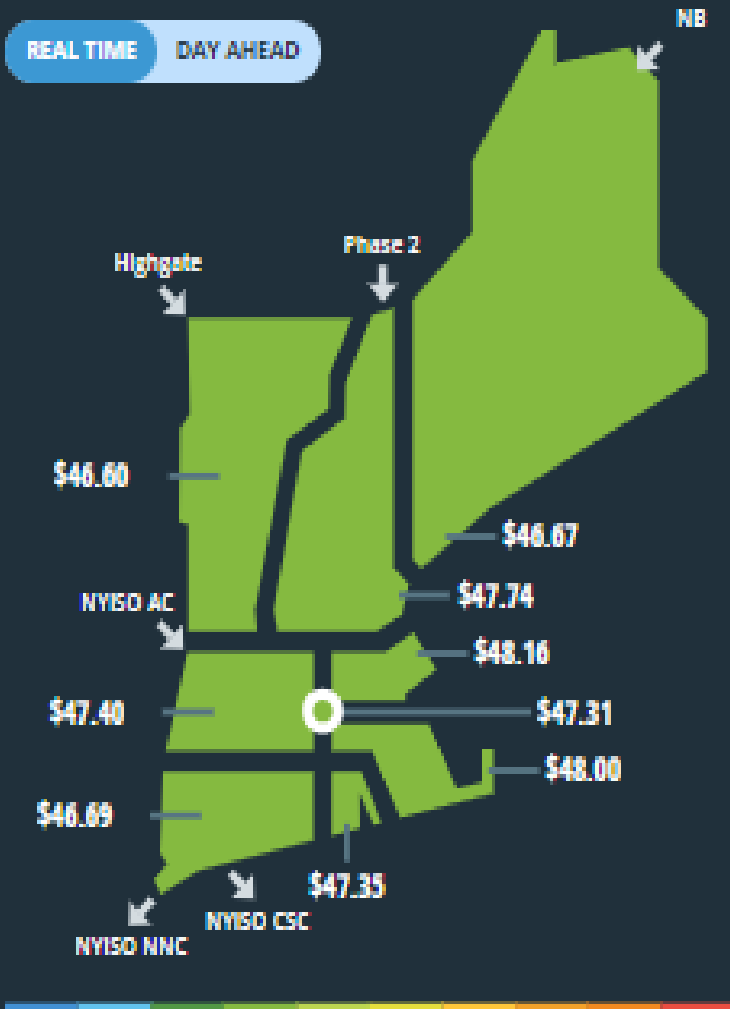


1. **Offshore Turbines** capture the wind's energy and generate electricity.
2. **Foundations** secure turbines to the ocean floor and cables transmit electricity to an offshore substation
3. **Electricity** flows through a buried cable to an onshore substation and is transferred to the existing transmission network.

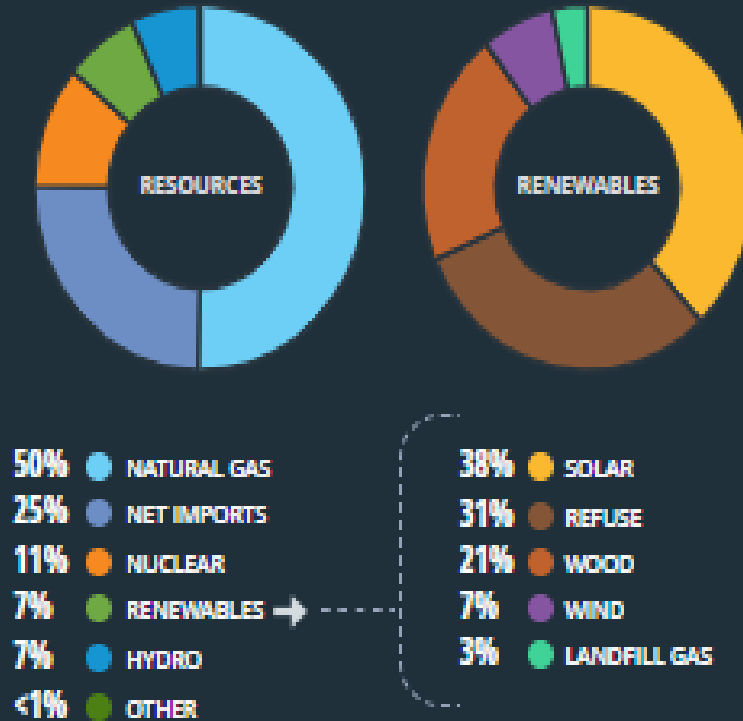
*\*NYSERDA Offshore Wind 101*



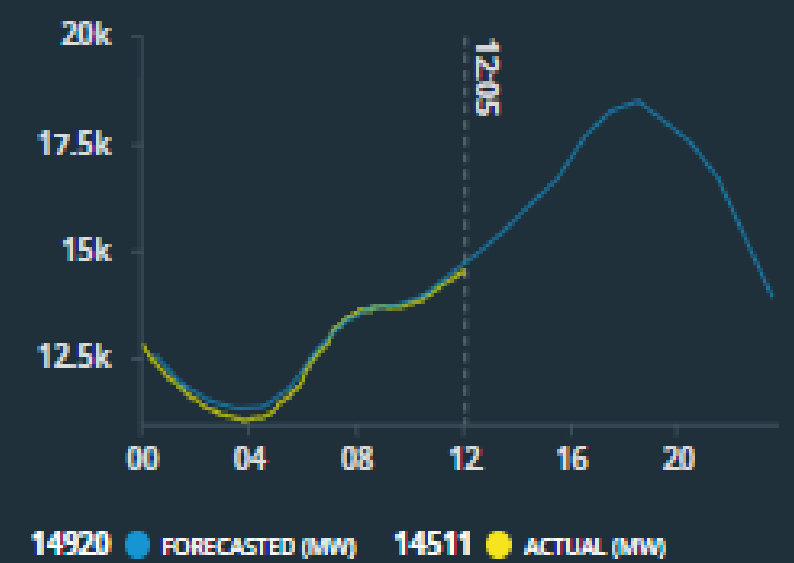
# Price Map



# Resource Mix



# System Demand

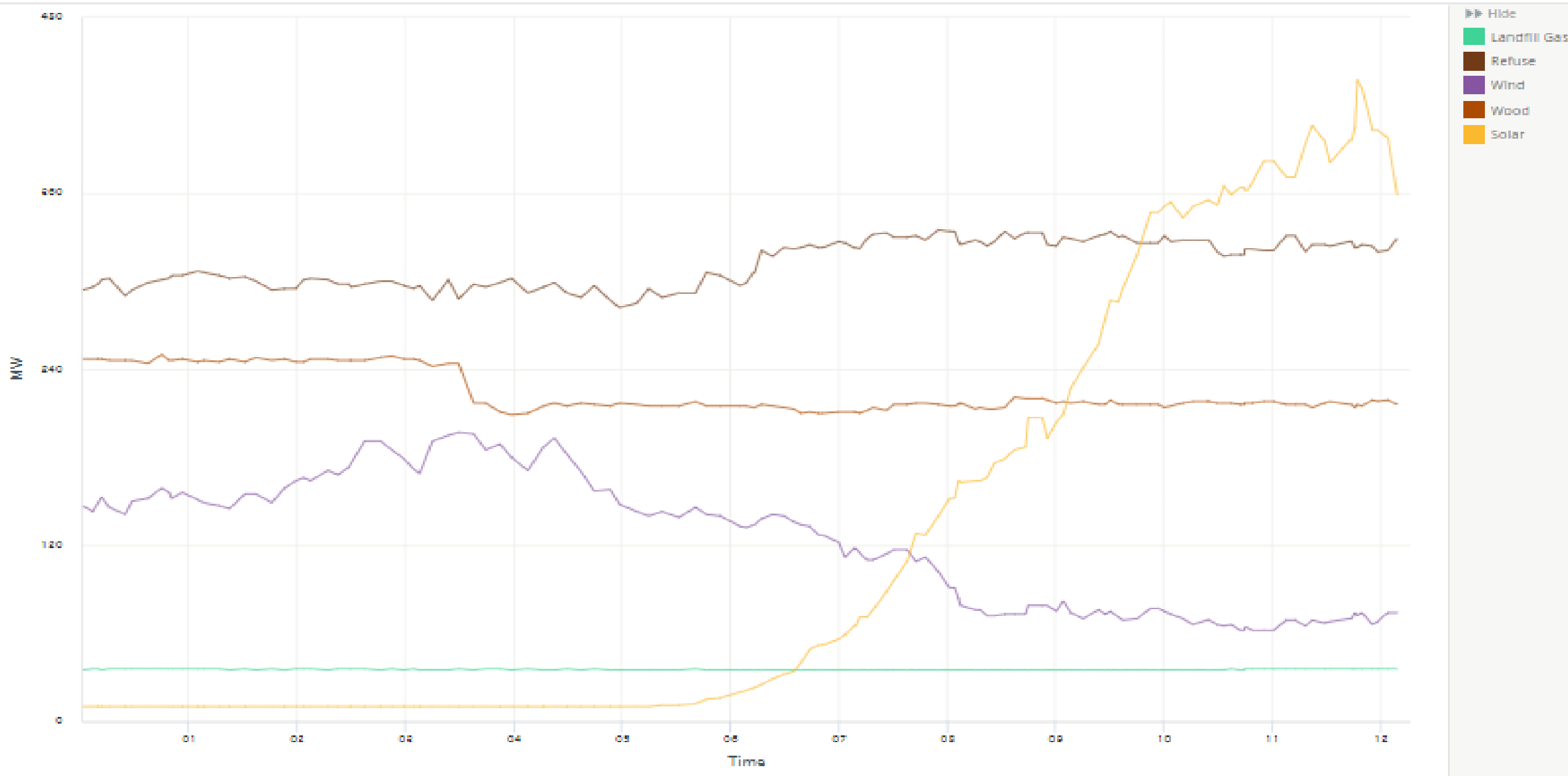


**System Status** ● NORMAL

## Today's Snapshot

AS OF 06/29/2023 08:34 AM

<b>22,199</b>	<b>18,500</b>	<b>1,201</b>	<b>17,493</b>
AVAILABLE CAPACITY (MW)	FORECASTED PEAK DEMAND (MW)	SURPLUS CAPACITY (MW)	YESTERDAY'S PEAK DEMAND (MW)



# Salem Wind Port Operations

# Salem Wind Port





# Components – Blades



# Components – Nacelle



# Salem Wind Port Operations



# Engineering Update

# Salem Wind Port Development



- Port Design/Construction
- Port Operations
- Vessel Operations and Management



- Public-private partnership to secure funding and develop site with Crowley
- Advocacy for Salem as one of the state's offshore wind marshaling ports



City of Salem

- Salem Harbor Port Authority
- Cruise Operations
- Community Benefits Agreement

\* All parties will share in workforce development, community engagement, grants/funding, etc.

# Phasing & Timeline

The Salem Offshore Wind Terminal will be developed over the course of 3+ years. We anticipate the following timeline that is subject to change.

## Design:

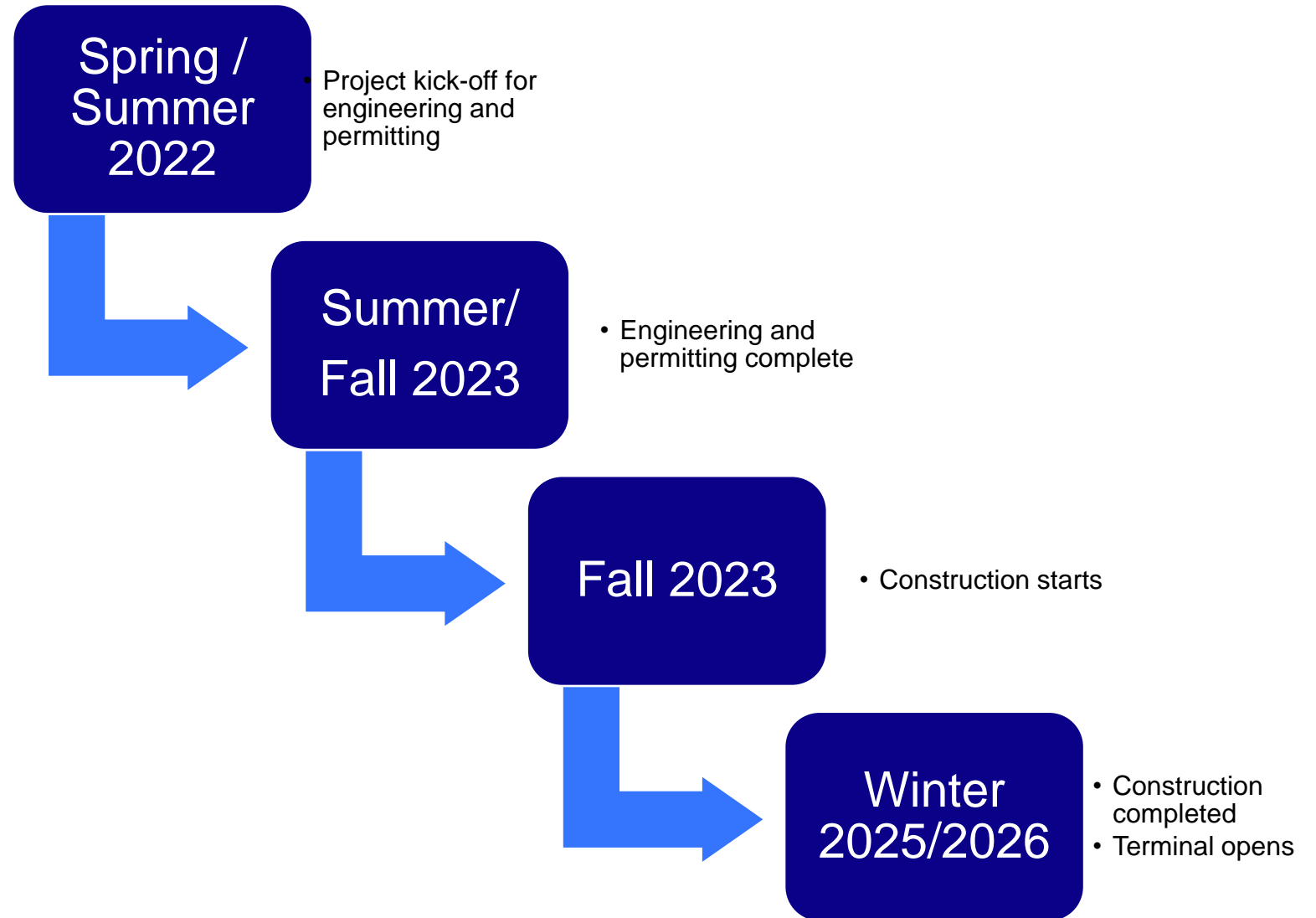
- 90% Package – Comments Received
- 100% Drawings – June/July 2023

## Permitting:

- Landside permits – Sept. 2023
- Pile Driving – Sept. 2023
- Dredging – June 2024

## Construction:

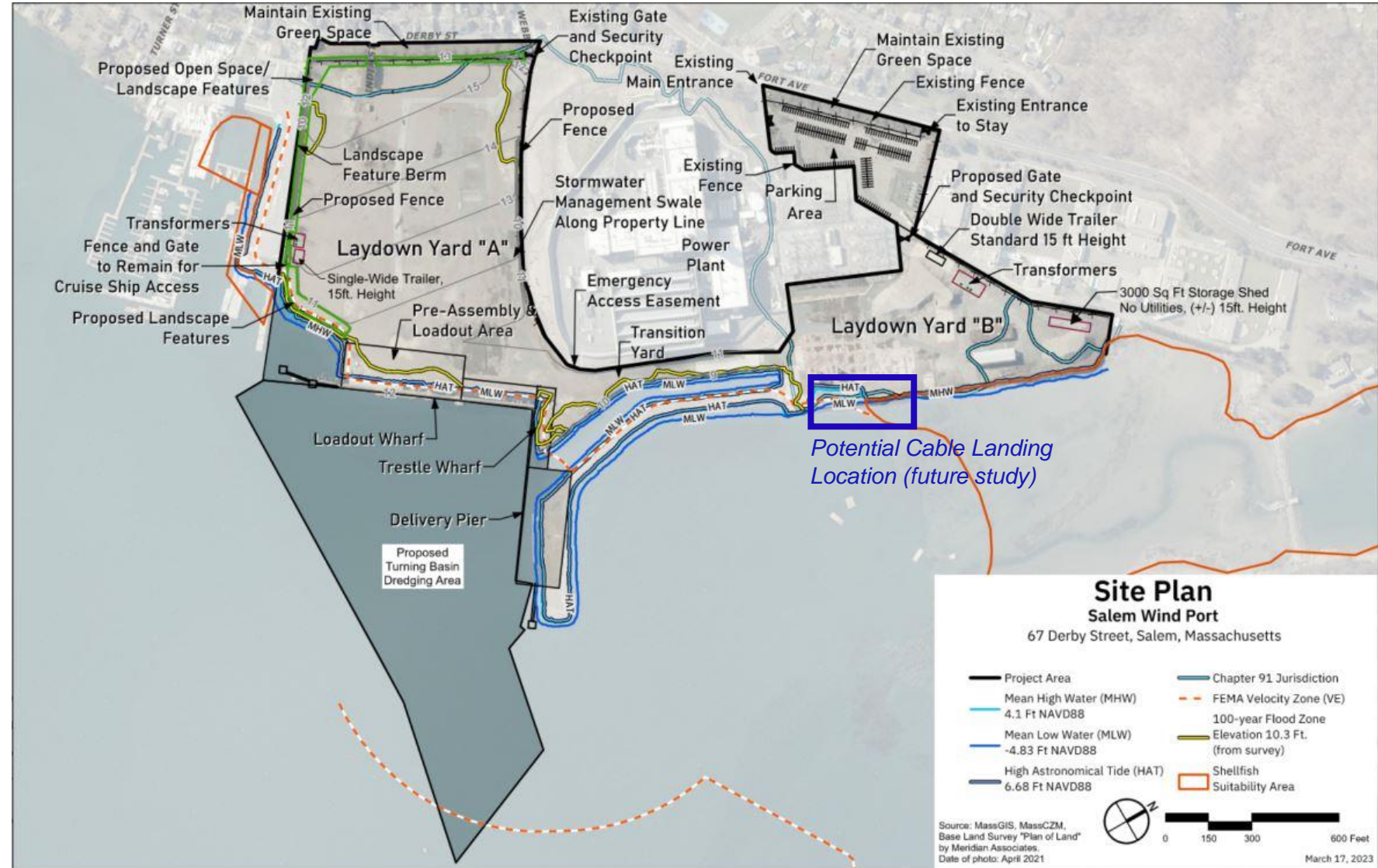
- GC Procurement – Fall 2023
- Timing in progress



# Site Plan

## • Design Updates:

- Electrical infrastructure to support possible future ring crane
- Cold Ironing/Shore Power
- Additional electrical capacity
- Lessons learned from New Bedford/New Jersey
- Cruise access and landscaping further developed



# Permitting Update



# Required Permits & Status

Agency	Scheduled Date
<b>Local</b>	
Salem Conservation Commission	NOI – February 2023 – Open – <b>In peer review</b>
Salem Planning Board	Submit <b>June 2023</b>
<b>State</b>	
Executive Office of Energy and Environmental Affairs	MEPA Certificate (EENF-Nov. 2022) on Single Environmental Impact Report – <b>SEIR – April 2023 – Submitted, and Certification 6/30/2023</b>
Massachusetts Department of Environmental Protection	Chapter 91 License and Dredge Permit – June 2023 401 Water Quality Certification – June 2023
Massachusetts Office of Coastal Zone Management	Coastal Zone Management Federal Consistency Review – <b>June 2023</b>
<b>Federal</b>	
U.S. Army Corps of Engineers	General Permit (USACE Section 10, 103, 404, and 408) – In progress – <b>September 2023</b>
Federal Aviation Administration	July 2023
U.S. Environmental Protection Agency	July 2023

# Community Outreach

# Community Outreach

- Salem High Career Technical Education advisory committee (Electrical and Construction)
- Salem High Car Show
- John Dudley LEAP for Education (Summer mentorship program)
- Rep. Manny Cruz legislative luncheon
- LEADS Cohort – Equitable workforce development in offshore wind
- Living Green Expo – Salem Chamber of Commerce
- MassHire Webinar surrounding workforce development



# Next Steps

# Next Steps

- 100% Design
- RFP for General Contractor and Construction
- Finalize permits
- Determine funding Sources
- Continue Community Outreach





Contact us:

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