

The Harbor District and Community Advisory Committee
Welcomes You

Offshore Heavy Lift Marine Terminal Community Meeting

June 24, 2026



LEARN MORE AT [HUMBOLDTBAY.ORG](https://www.humboldt.org)



Humboldt Bay Harbor, Recreation,
and Conservation District



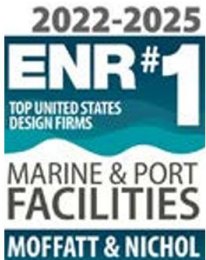
Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project

Public Meeting Project Overview

Shane Phillips, PE, CFM
Moffatt & Nichol

June 24, 2026

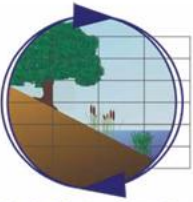
Harbor District Consultant Team – The Who



moffatt & nichol



H. T. HARVEY & ASSOCIATES
Ecological Consultants



FOSS



Roscoe & Associates
Cultural / Tribal Resources

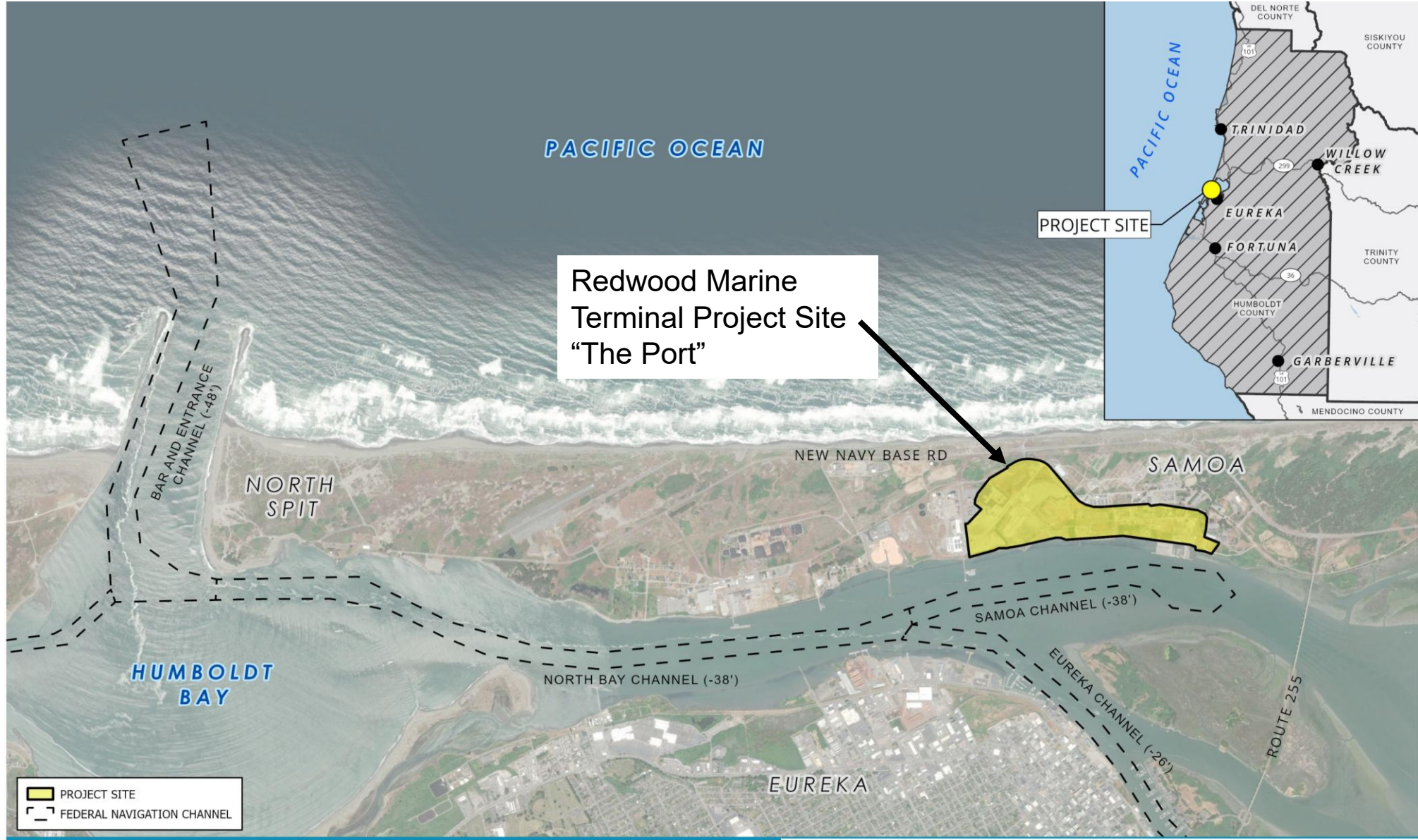
- M&N Lead Consultant
 - CA Based Firm
 - 80+ Years
 - #1 Ports & Marine Facility Firm

- Scope – Preliminary Engineering & Regulatory Permitting

- Team: 20 Firms covering a range of expertise
 - planning, engineering, regulatory, science, navigation, survey and right of way consulting.

- Local professional involvement
 - >7 firms with local staff and knowledge

Project Location – The Where?



Redwood Marine Terminal Project Site "The Port"

~168 acres Terminal Site Redevelopment

Brownfield Redevelopment of Industrial Waterfront Property

Port Facility & In Harbor Navigation is the project - Ocean Related activities not part of this project

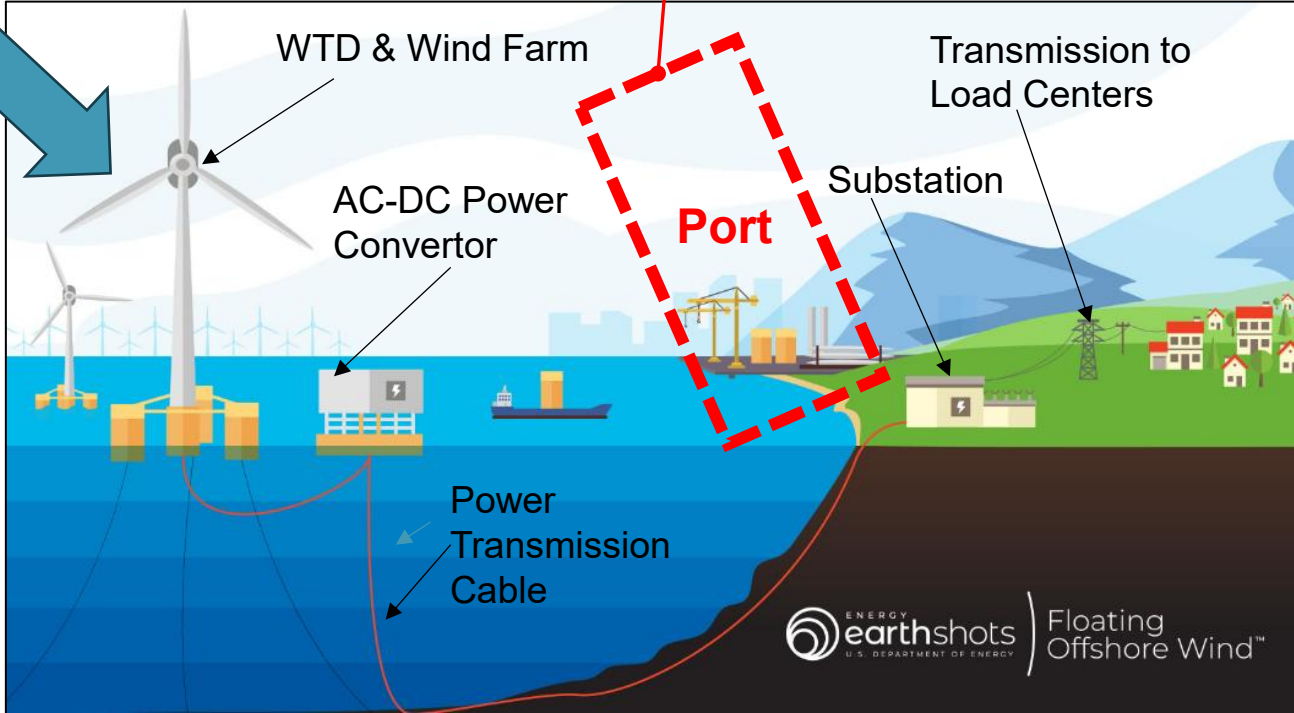
Offsite Mitigation, Utilities & Community Improvements also part of the project.

Offshore Wind Background – The Why



Floating Wind Farm Concept

Focus of Public Meeting & Harbor District Project is on **Port** Facility



Note: Elements not in Red are not part of the Redwood Terminal Project but listed for overall perspective

Port Type & Requirements

Port Type:

- Staging & Integration (S&I)
 - Sub Component delivery & storage
 - Wind Turbine Device Construction
 - Staging & Prep for tow out to ocean

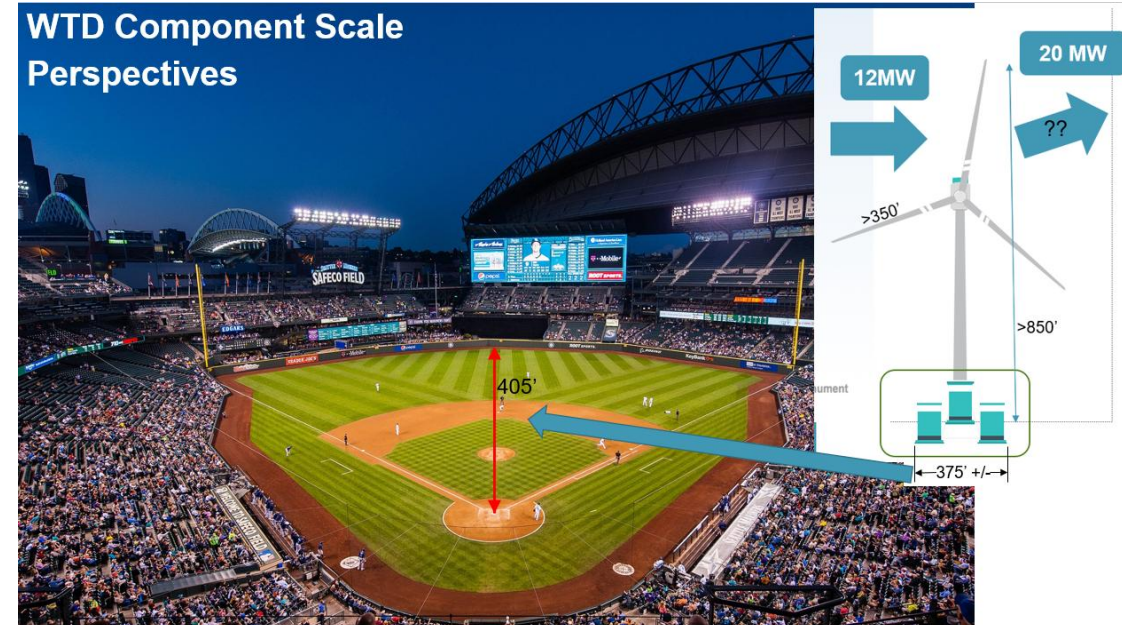


Example S&I Port Rendering (not Humboldt Redwood Terminal)

Requirements:

- Offshore Wind is Marine Port Dependent due to the size and scale
 - Think Big and Bigger
- Deep Draft Channel Access
 - >~32 ft Depth
- Heavy Lift Wharf & Yard for staging components
 - 50 to 100 acres
 - >6,000 psf wharf capacity, >3,000 psf yard

WTD Component Scale Perspectives



California OSW Deployment Targets

› Governor Newsom's Letter to CARB (July 2022):

- 20 GW by 2045

› CEC Updated AB 525 Report (August 2022):

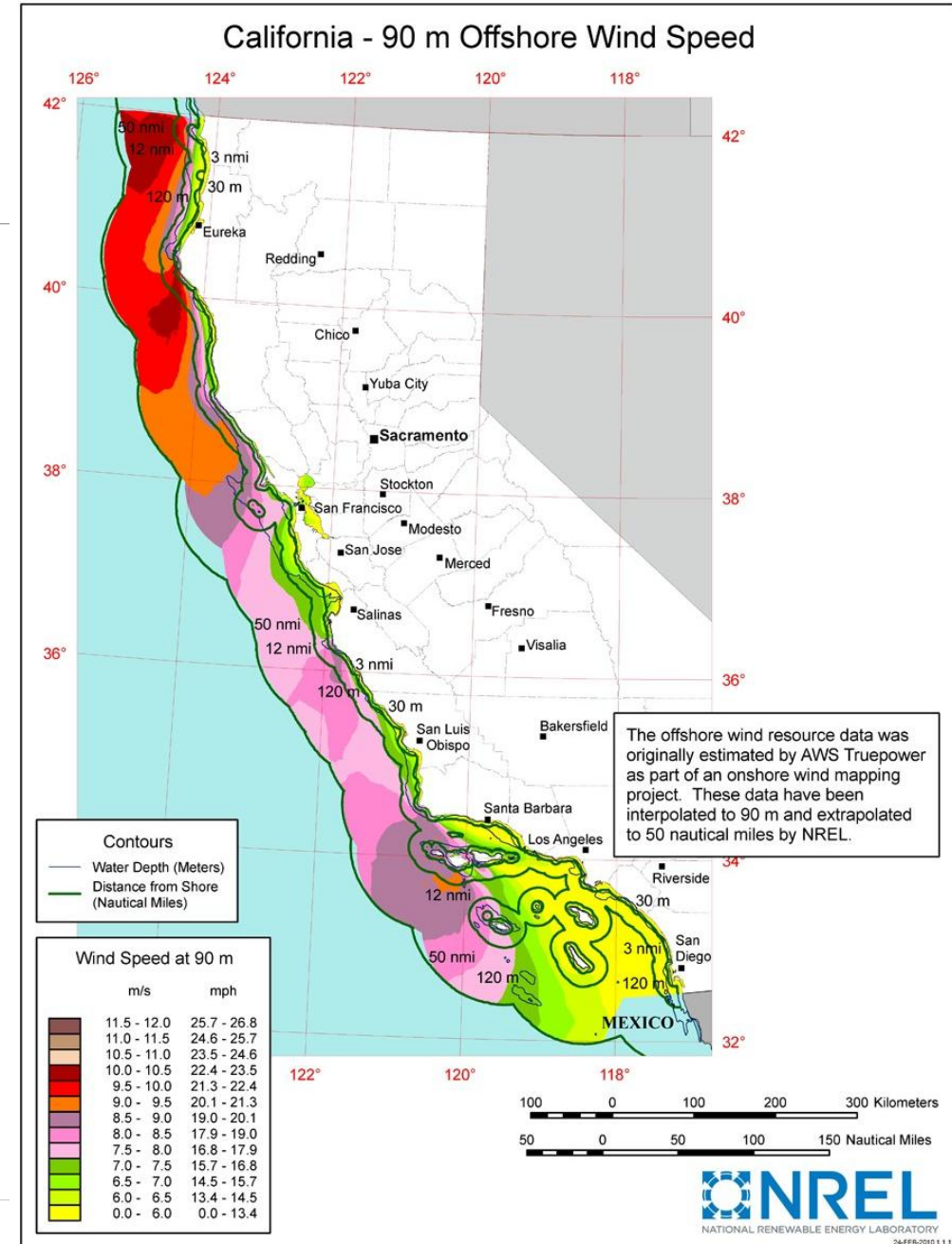
- 2–5 GW by 2030
- 25 GW by 2045



25 GW = ~1,250 x 20 MW WTGs
(wind turbine generators)



Principle Power



NREL

Multi-Port Strategy to Achieve State Offshore Wind Planning Goals

FINAL REPORT
July 7, 2023
AB 525 PORT READINESS PLAN
FINAL REPORT
CALIFORNIA STATE LANDS COMMISSION
mottatt & nichol

FINAL REPORT
January 31, 2023
ALTERNATIVE PORT ASSESSMENT TO SUPPORT OFFSHORE WIND
FINAL ASSESSMENT REPORT
CALIFORNIA STATE LANDS COMMISSION
mottatt & nichol

FINAL REPORT
June 16th, 2023
AB 525 WORKFORCE DEVELOPMENT READINESS PLAN
Produced For: CALIFORNIA STATE LANDS COMMISSION
mottatt & nichol

California Floating Offshore Wind Regional Ports Assessment
OCIS Study BOEM 2023-010
U.S. Department of the Interior
Bureau of Ocean Energy Management
Pacific OCS Region, Canfield, CA
BOEM

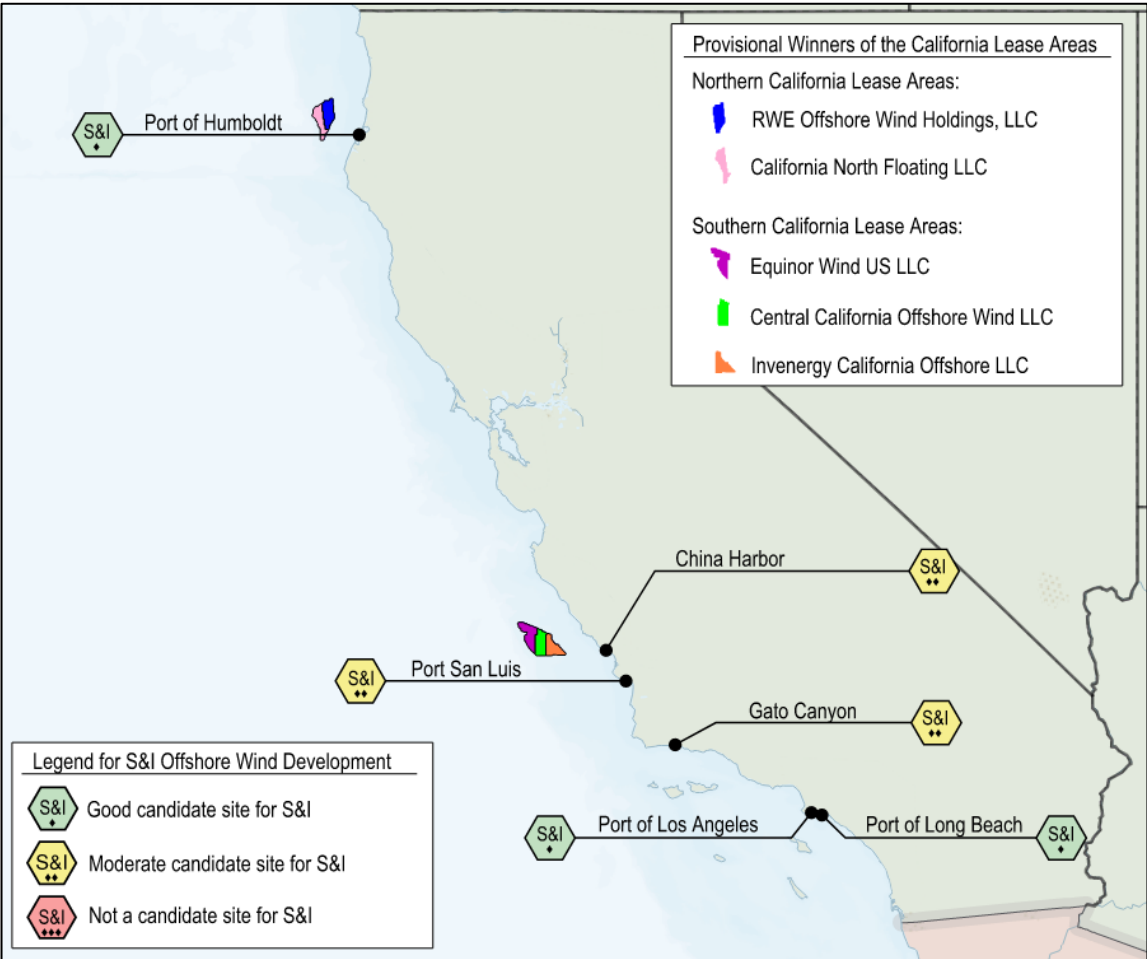
Port of Coos Bay Port Infrastructure Assessment for Offshore Wind Development
OCIS Study BOEM 2023-075

California Floating Offshore Wind Regional Ports Feasibility Analysis
OCIS Study BOEM 2023-038

West Coast Ports Strategy Study
NREL
Wind Research
West Coast Ports Strategy Study
NREL will lead a group to develop a roadmap for a strategy designed to U.S. West Coast ports network that can unlock the potential of commercial-scale floating offshore wind energy development.

- › BOEM, CA CEC, NREL Studies
- › Regional Multi-Port Network is critical for commercial scale buildout of 10 to 25 GW

Multi-Port Strategy to Achieve State Offshore Wind Planning Goals



- › BOEM, CA CEC, NREL Studies
- › Regional Multi-Port Network is critical for commercial scale buildout of 10 to 25 GW
- › Need approximately 10 large port sites (>80 acres) and 10 small port or harbor sites (2-10 acres) to meet CA targets by 2045.

Multi-Port Strategy to Achieve State Offshore Wind Planning Goals

Type of Site	Medium (25 GW)
S&I Sites	3
MF Site (Blade)	2
MF Site (Tower)	1
MF Site (Nacelle Assembly)	1
MF Site (Foundation Assembly)	2
SOV berths for O&M Activities	9 to 16
Mooring Line & Anchor Storage Sites	20 to 40 ac
Electrical Cable Laydown Sites	12 to 22 ac

- › BOEM, CA CEC, NREL Studies
 - › Regional Multi-Port Network is critical for commercial scale buildout of 10 to 25 GW

- › Need approximately 10 large port sites (>80 acres) and 10 small port or harbor sites (2-10 acres) to meet CA targets by 2045.

- › 3 S&I Sites (Humboldt is one of those)

Is Offshore Wind Still Moving Forward - CA CEC



The screenshot shows the California Energy Commission website. The header includes the CA.gov logo, social media links, and navigation menus for About, Careers, Contact, Events, Newsroom, Resources, Translate, and Settings. The main navigation bar features HOME, PROCEEDINGS, RULES AND REGULATIONS, PROGRAMS AND TOPICS (selected), FUNDING, and DATA AND REPORTS. A search bar is located on the right. The main content area has a breadcrumb trail: California Energy Commission > Programs and Topics > All Programs > Offshore Wind Waterfront Facility Improvement Program. Below this is a large image of an offshore wind construction site with yellow cranes and structures. A dark blue banner over the image contains the title "Offshore Wind Waterfront Facility Improvement Program" in white text. Below the banner, a light blue box contains the text: "The Offshore Wind Waterfront Facility Improvement Grant Program was established to implement the provisions of Assembly Bill 209 - The Energy and Climate Change budget bill (Chapter 251, Section 12, Chapter 7.6, Article 6, enacted in September 2022)." To the right of this text is a yellow box titled "PROCEEDING INFORMATION" with a link to "Docket Log (23-MISC-01)".

- › Prior Phase funded through USDOT Federal Grants & CA CEC
- › Federal Funding terminated in Sept 2025
- › CA Energy Commission Reallocated funds to fill gap created after federal funds lost
- › Commitment to planning for building port infrastructure to support offshore wind energy development.

Are there Examples of Wind Terminals?

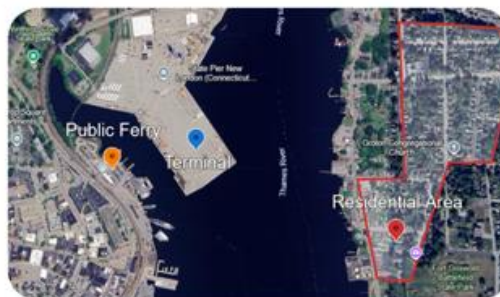
Yes

Many Examples on East Coast and Europe



Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project

Offshore Wind Terminals in Action and Affected Communities



State Pier – New London, CT

- Terminal is fully permitted and active
- Running 3rd commercial scale offshore wind project



Portsmouth Marine Terminal – Portsmouth, VA

- Terminal is fully permitted and active
- Running 2.6 GW Coastal Virginia offshore wind project



Port-la-Nouvelle – France

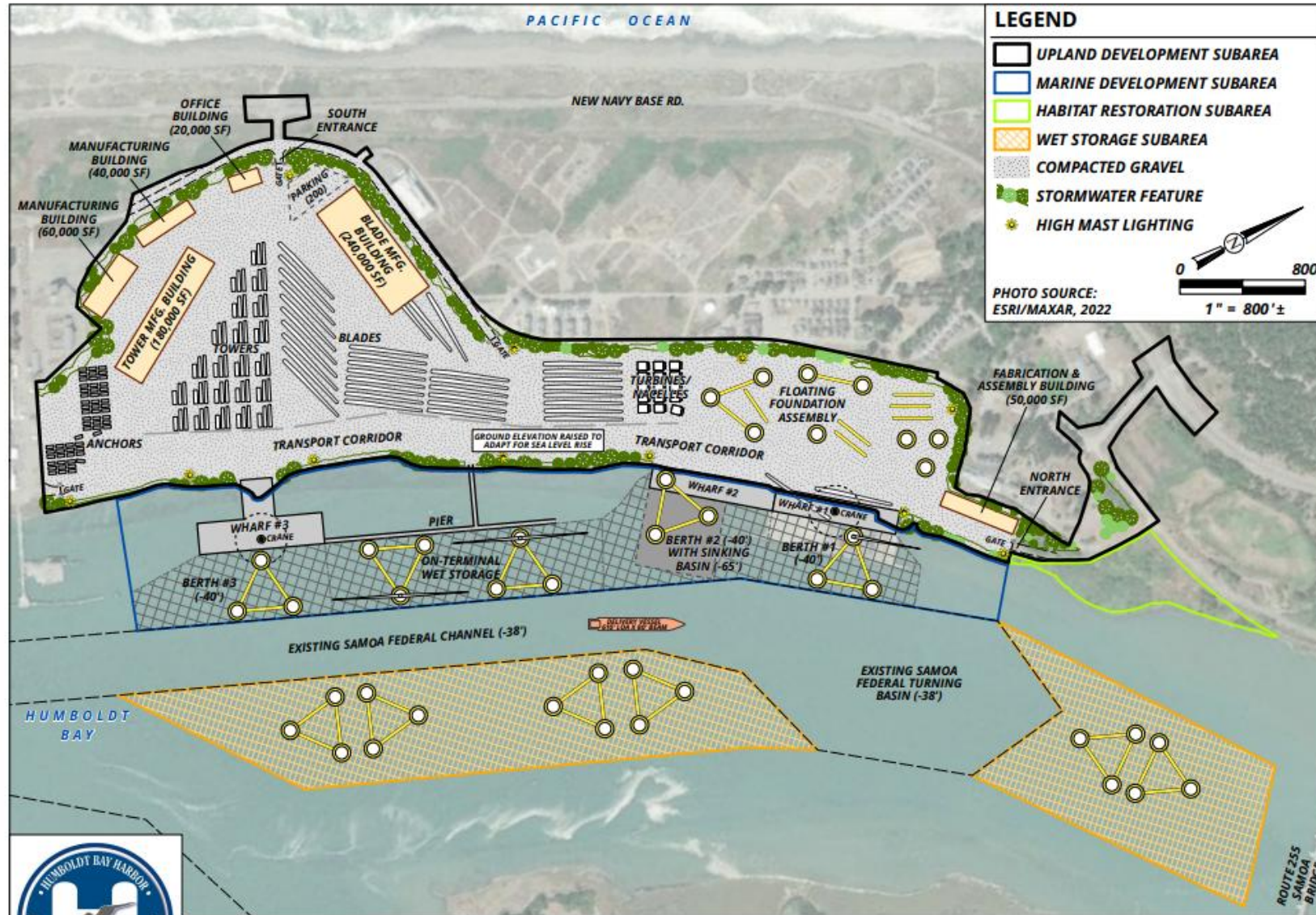
- Terminal is fully permitted and active
- Just finished installation of Les Eoliennes Flottantes du Golfe du Lion 30 MW demonstration project

Humboldt Harbor – 2023 Notice of Preparation (NOP)

Heavy Lift Terminal – S&I
Construction Support – CS

Phased Buildout

Estimated Port Cost w/out
buildings ~\$2 Billion



**Humboldt Bay Offshore Wind
Heavy Lift Marine Terminal**

Project Example #1
April 2023

**Figure
3.1**

Humboldt Harbor – 2026 Public Meeting



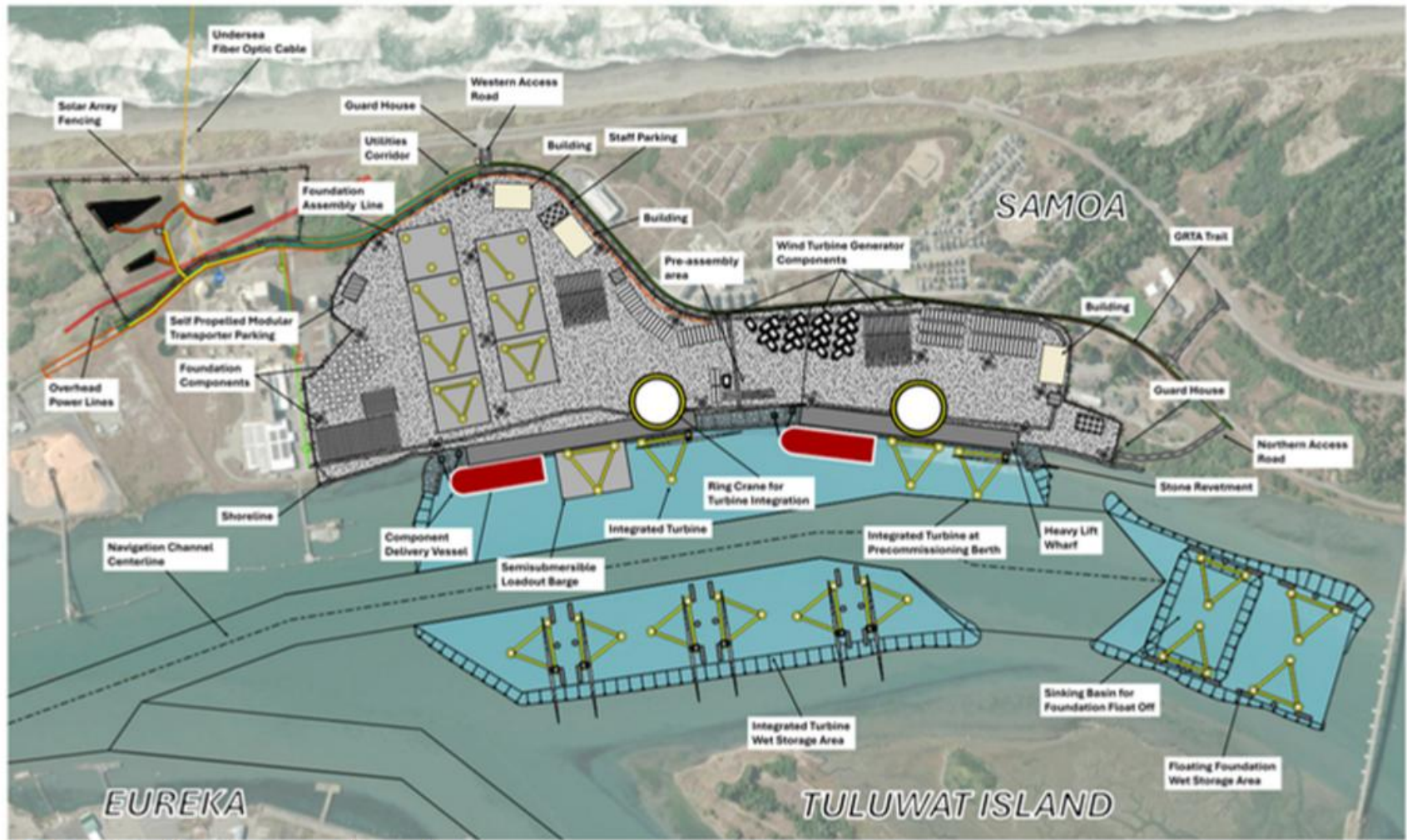
Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project

Site Layout

Similar Layout & Improvements

Design Refinements, New Data Collection, Studies, Assessments conducted since 2023

Offsite Utilities, Solar Array, Access Road Improvements



Preliminary Draft



Humboldt Harbor – 2026 Public Meeting

Rendering of Project
Concept



Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project

Preliminary Draft
Visual Rendering of Project*



*For information purposes only. Project rendering was last updated June 2026. Additional updates and changes are expected in the coming months. Final visual simulations and renderings will be released with the draft EIR (anticipated April/May 2027).

Where are we at?

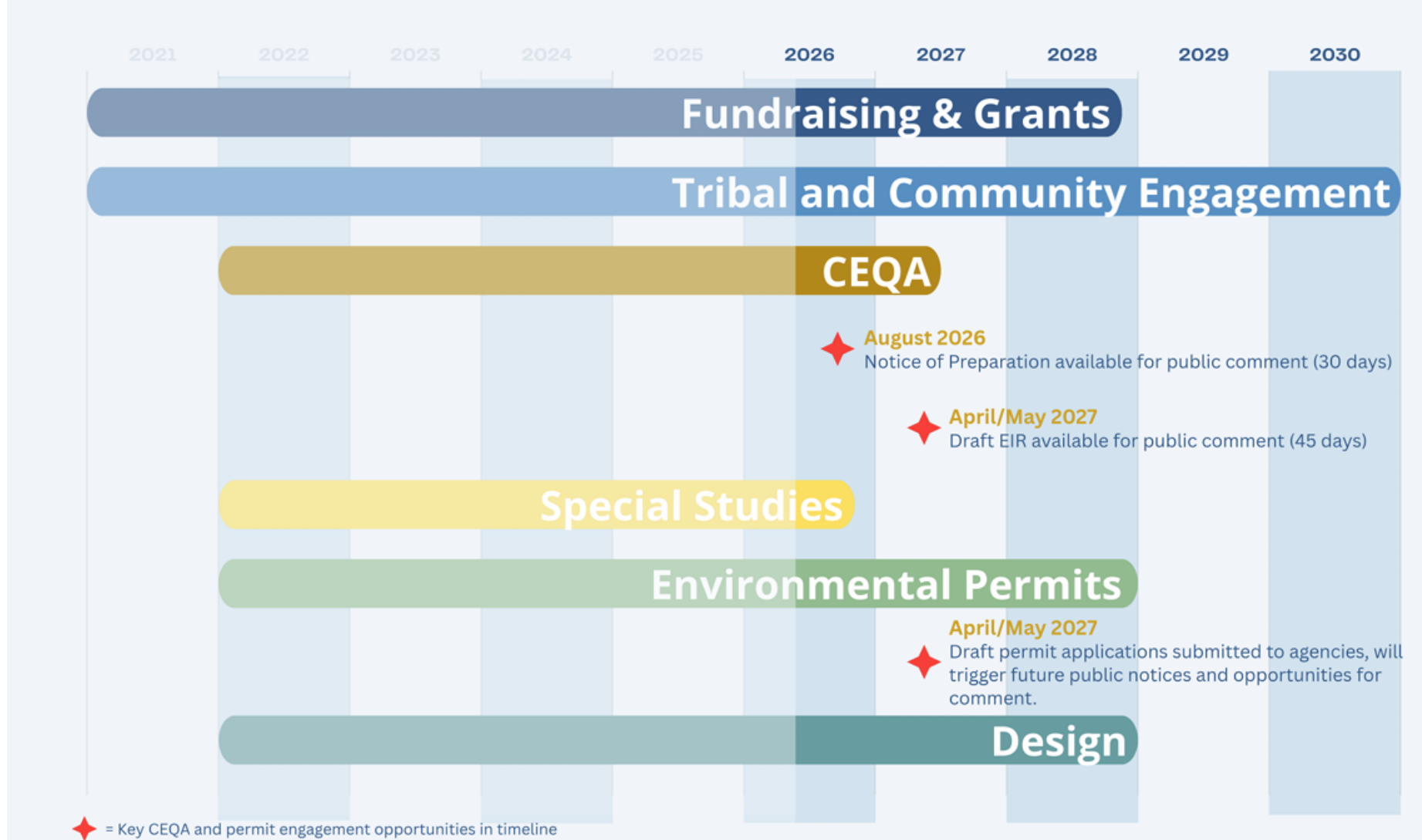


Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project Revised Tentative Timeline and Public Comment Opportunities for CEQA and Permitting

Finishing Preliminary Engineering Design, Special Studies

Working on progressing CEQA, Permitting, Tribal/Community Engagement

Ongoing Fundraising for Construction phase





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and Conservation District



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