

PIER WIND TERMINAL DEVELOPMENT

Status Update and California Energy Commission Grant Opportunity (HD-24-521)

Suzanne Plezia, P.E. Senior Director, Chief Harbor Engineer

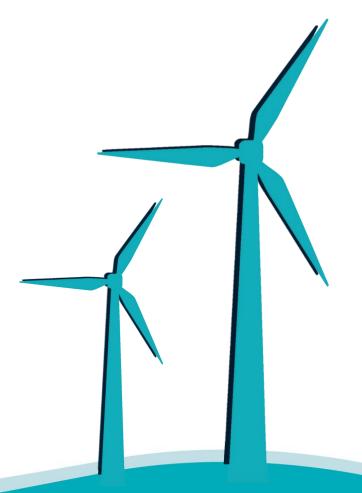
Board of Harbor Commissioners Meeting November 11, 2024

Today's Agenda





- Oesign Development
- *⊙* CEQA/NEPA/Permitting
- Business/Finance/Delivery
- **Outreach and Engagement**
- **CEC Grant Funding Opportunity**
- Preliminary Economic Impact Analysis
- Moving Forward







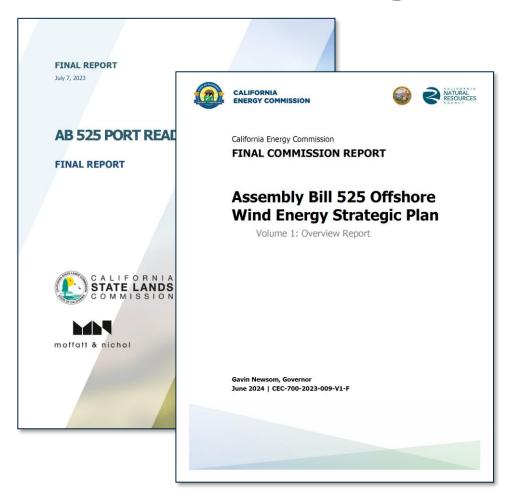
Background







AB 525 Strategic Plan Conclusions



- Need coordinated multi-port strategy
- Staging and integration sites are the most critical
 - > Essential for developing offshore wind
 - Require urgent funding and prioritization
- Only a few ports are suitable for staging and integration, including Port of Long Beach and Humboldt Bay

Sources: <u>CSLC AB 525 Port Readiness Plan July 7, 2023</u> <u>CEC AB 525 Strategic Plan Final Report June 2024</u>





POLB Pier Wind Concept Report

We heard the need and answered the call.

POLB investment to develop Concept Report - \$600K



Published May 2023

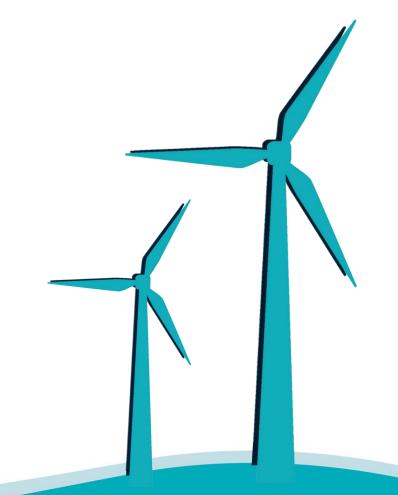
- ✓ Concept Design
- √ Schedule
- ✓ Cost Estimate

Source: PierWind Concept Report





Status Update







Design Development

Industry Feedback



across the supply chain

Offshore Wind Developers

Foundation Designers

Foundation Manufacturers

Original Equipment Manufacturers

Heavy Lift Operators | Vessel Operators

Contractors Fabricators Terminal Operators







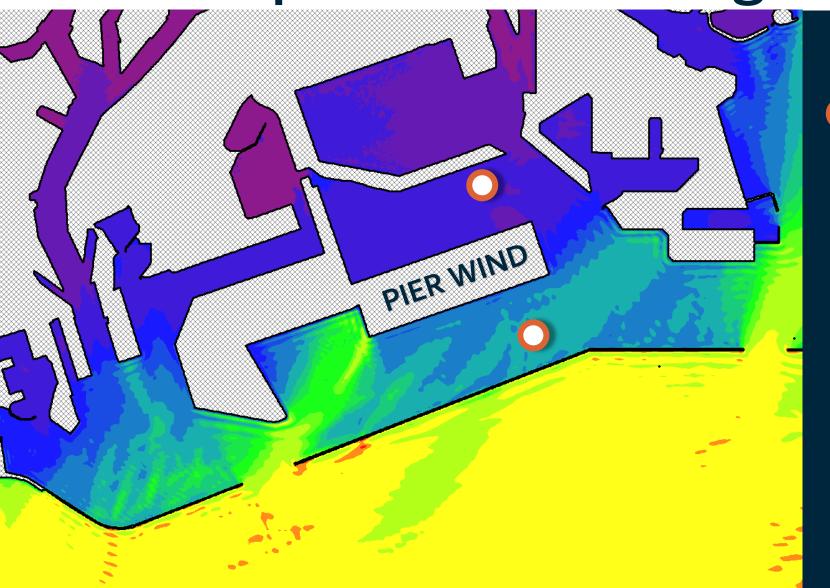




Wave Inputs and Modeling







O Deployed two instruments in Outer Harbor

- Collected wave data for 12 months, supplementing existing wave database
- Calibrated and validated model and analyzed multiple wave scenarios and sea level rise
- Confirmed favorable conditions at Pier
 Wind quay for offshore wind operations
- Confirmed no adverse impact to operations at existing terminals

Geotechnical Investigation







Performed 36 borings to get soil parameters. Information is used to inform:

- Rock dike design
- Pile design
- Fill design, surcharge & wick drain design



Sediment Investigation

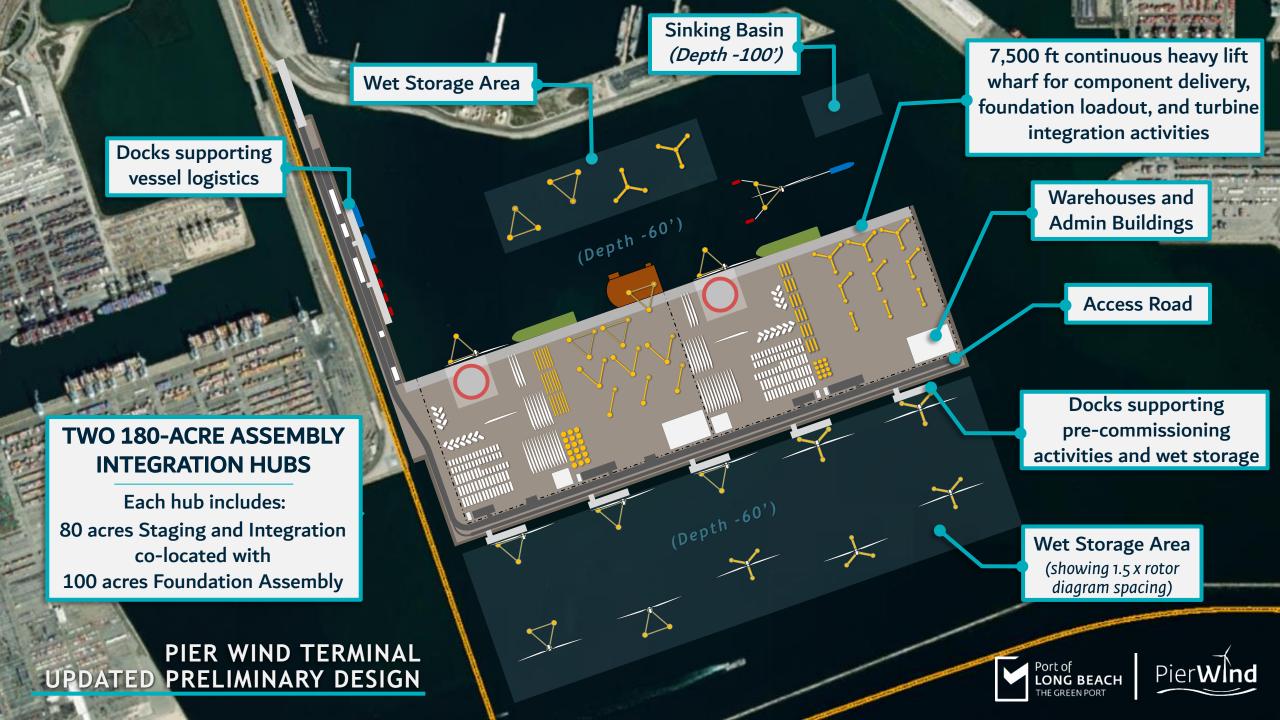






Collected 22 sediment samples. Information is used to inform:

- Sediment quality for fill planning
- Sediment quality to support environmental document and early agency discussions
- Sand exploration



CEQA/ NEPA/ Permitting

Team in Action









Preparing a joint Environmental Impact Statement / Environmental Impact (EIS/EIR) Report



Notice of Preparation / Notice of Intent and Initial Study published November 30, 2023



Two Public Scoping Meetings were held on December 13, 2023 and January 10, 2024



Preparing the draft EIS/EIR

Anticipate releasing draft for public review in mid-2025





Business/ Finance/ Delivery

Team in Action





Evaluated various business, finance, and delivery models, and recommended pursuing a Construction Manager / General Contractor model (CM/GC) for Pier Wind construction



Sponsored Legislation AB 2235 (Lowenthal), which was signed by the Governor in September

What's Ahead





Evaluate private investment structures and strategy as part of the overall public/private funding mix for offshore wind port development, including potential credit support and revenue backstop mechanisms



Develop Draft RFP for CM/GC and release for industry feedback





Outreach and Engagement









ZEERO Roundtable

Roundtable Meetings - July 23
September 18

ZEERO Collaborative

Collaborative Community Meeting - October 19

Speakers Bureau – FY2024-Q4

Wilmore City Heritage Association – July 17
Downtown Long Beach Alliance – August 21
Gateway Cities Council of Governments – October 2
Belmont Shore Residents Association – October 10
Downtown Residents Council – October 21

State and Federal Engagement

Extensive briefings of State and federal agencies, elected officials, and staff throughout FY2023 and FY2024

International Engagement

Norway Delegations – April 15 & October 27 United Kingdom Delegation - February 10 Port of Mokpo, South Korea - September 12

NGOs

EOPA and League of Cities – October 18
Renewables 100 Policy Institute - October 21
Energy Foundation – June 14 & July 25







Team in Action Panelist / Presenter **Industry Associations:**

2023

Pacific Offshore Wind Conference – May 9 Oceantic Supplier Day – June 7 Offshore Wind Transmission – June 14 Reuters Offshore Wind USA 2023 – July 11 **Association of Pacific Ports – August 15** Oceantic Ports & Vessel Summit – September 20 AGC Construct – October 11 BlueTech - November 15 Reuters Floating Offshore Wind – November 29

2024

AAPA Powers Summit – January 22 Oceantic Floating OSW Summit – February 22 Offshore Wind Transmission – March 13 International Partnership Forum — April 23 Pacific Offshore Wind Summit – May 13 Reuters Offshore Wind US 2024 – June 16 WEDA Dredging Summit – June 24 **ASCE COPRI – September 11** AFloat Summit 2024 – September 24







ZEERO Roundtable

ZEERO Roundtable Meeting - November 14

Speakers Bureau

Westside Promise Day of Action - November 16 Kiwanis Club - November 19

Non-Governmental Organizations

Capital Impact Partners – November 15

State

California Workforce Development Board – December 10

POLB & CEC Ports Symposium – February 21

Industry Associations

Propeller Club Storms Flooding and Sea Level Conference – November 12

Floating Wind Solutions
Conference – January 15



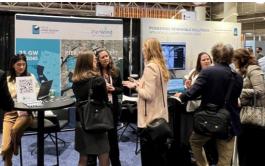






































Grant Funding Opportunity







Offshore Wind Energy Waterfront Facility Improvement Program (GFO-24-701)

- Total of up to \$42,750,000 available for grants
- Addendum issued November 8, 2024
 - ☐ Category I activities support developing individual or regional retrofit concepts and investment plans.
 - Min. award of \$750k and max award of \$3M, up to total of \$7.75M
 - □ Category II activities support final design, engineering, environmental studies and review, and construction of retrofits. Must demonstrate project builds on existing efforts at the proposed project for supporting staging and integration activities.
 - Min. award of \$7.5M and max award of \$20M, up to a total of \$35M
- Application deadline extended to December 20, 2024





Port Offshore Wind Equity and Readiness Project



The POWER project includes critical tasks to enable the full-scale construction of Pier Wind if approved, including: finalize design, finalize environmental review and permitting, and support extensive community, tribal, industry and agency engagement



Applying for the maximum \$20M grant funding amount under Category II





- Approval for matching fund commitment
- Approval of spending authorization to continue with efforts while the Port's application is being considered
 - Port has invested \$12M to date





Economic Benefits





Preliminary Economic Impact Analysis



4,200 average annual jobs supported during Pier Wind construction, and

1,800 average annual jobs for assembly and operations at Pier Wind

and **potentially thousands** of indirect jobs associated with supply-chain *



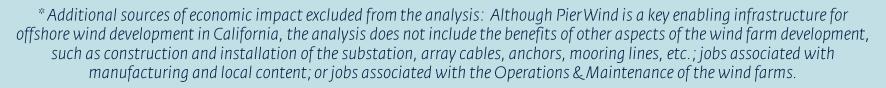
\$8 billion in cumulative labor income

\$14.5 billion in economic output

\$1.3 billion in State and local taxes

Total economic and tax impact (2024 – 2045)









Pier Wind is Enabling Infrastructure

S&I sites unlock the broader offshore wind market





Establishing the necessary S&I sites, along with a corresponding pipeline of offshore wind development projects, will attract investments in manufacturing and O&M facilities





Moving Forward







Strong partnerships and whole of government approach to achieving goals

Environment

Energy

Economic

Equity







