

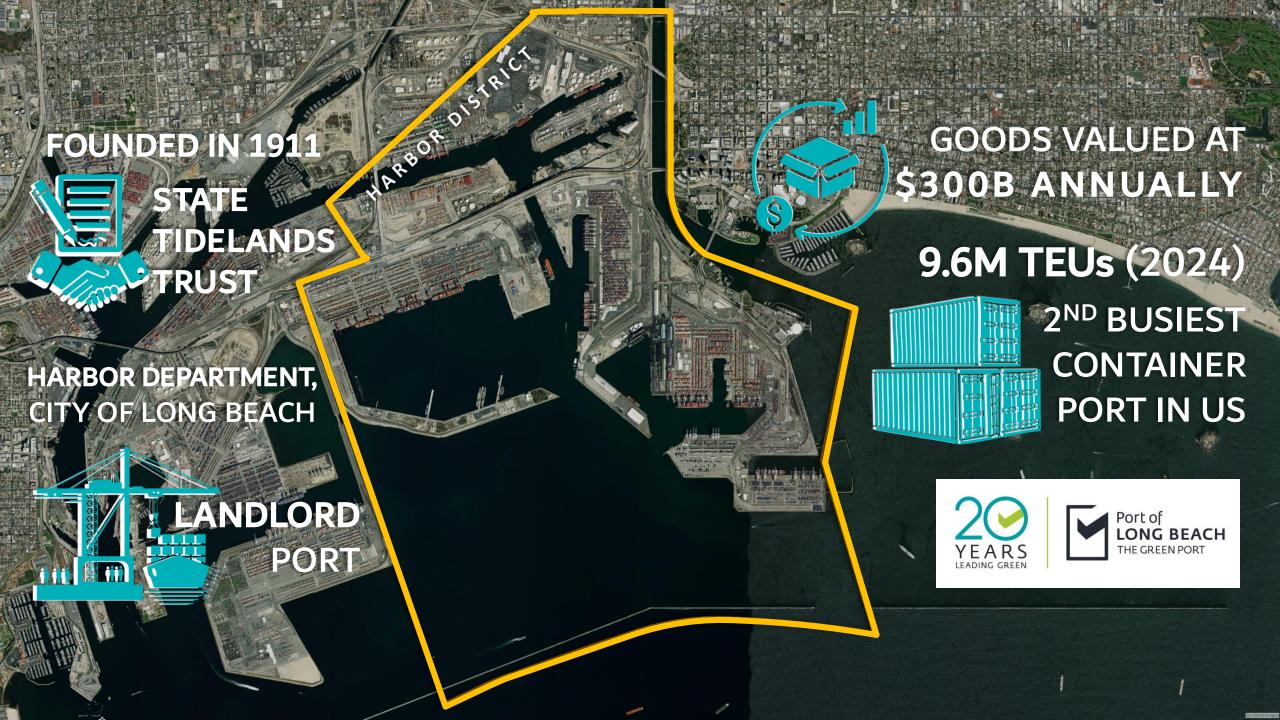


PIER Wind

Floating Offshore Wind Turbine Assembly Hub

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Senior Director / Chief Harbor Engineer

National Academy of Sciences April 23, 2025







PIER Wind Floating Offshore Wind Turbine Assembly Hub







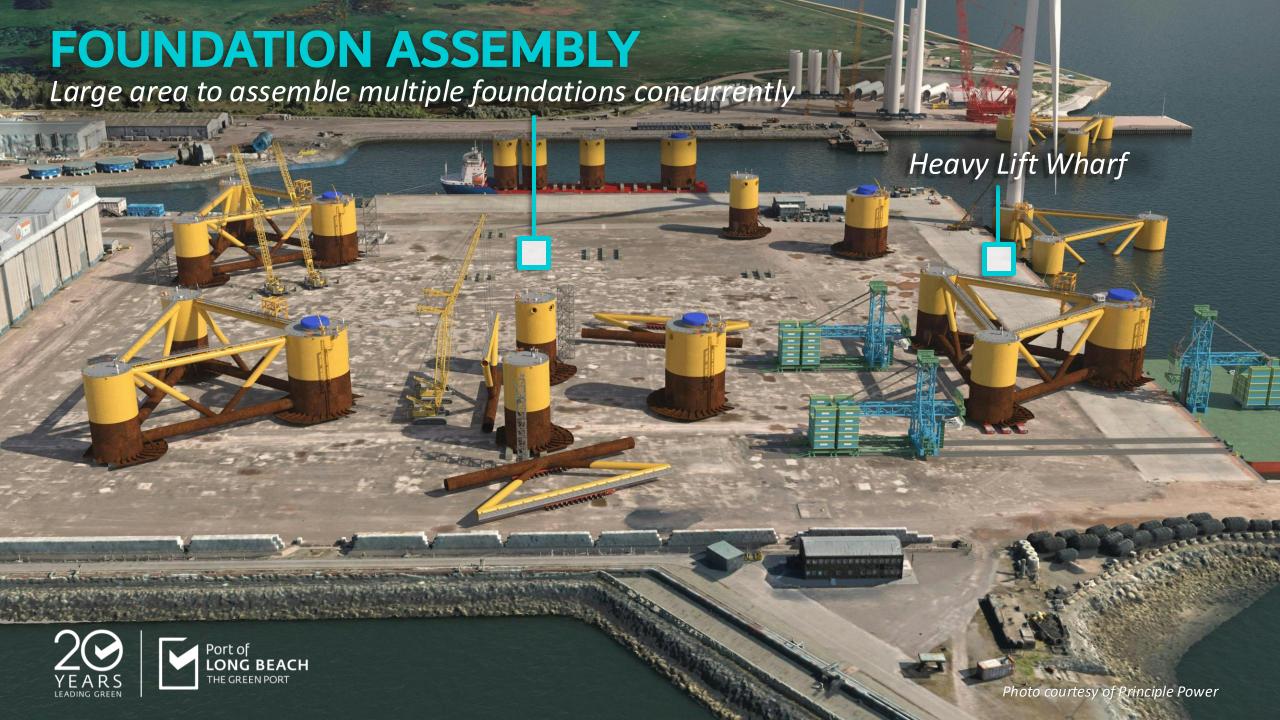
WIND LEASE HOLDERS RWE Offshore Wind Holdings, LLC California North Floating LLC CA Grid **Equinor Wind US LLC** Wind Golden State Wind, LLC Invenergy California Offshore LLC Lease Areas Source: BOEM California Activities Port of **LONG BEACH** (Wind Lease Areas are not part of POLB Pier Wind Project) Photo courtesy of Principle Power



STAGING AND ASSEMBLY PORT OPERATIONS





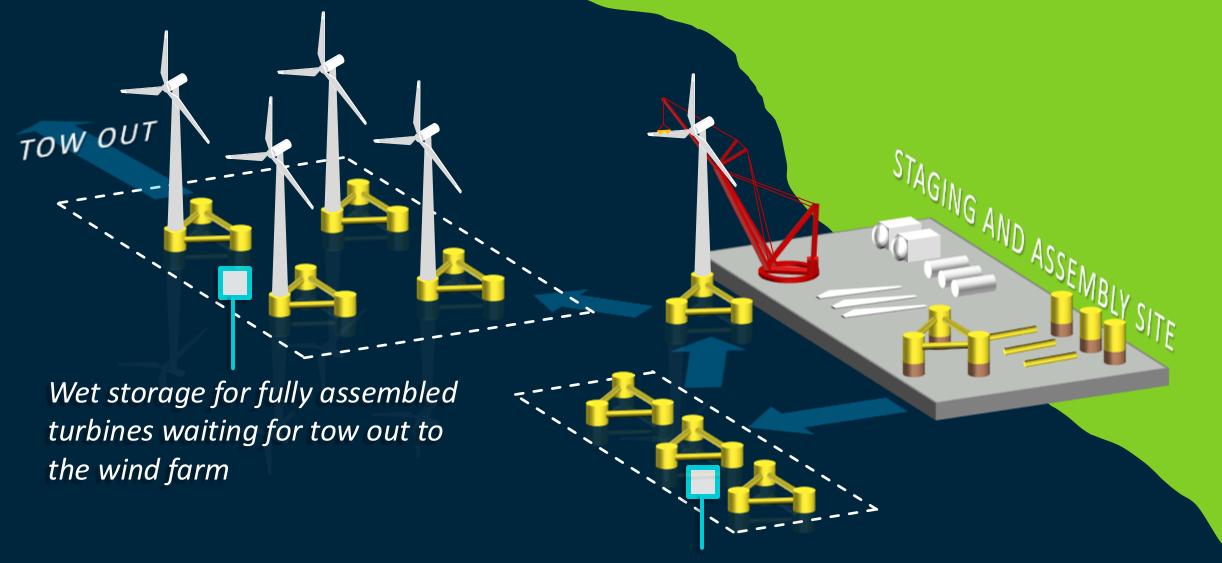












WET STORAGE



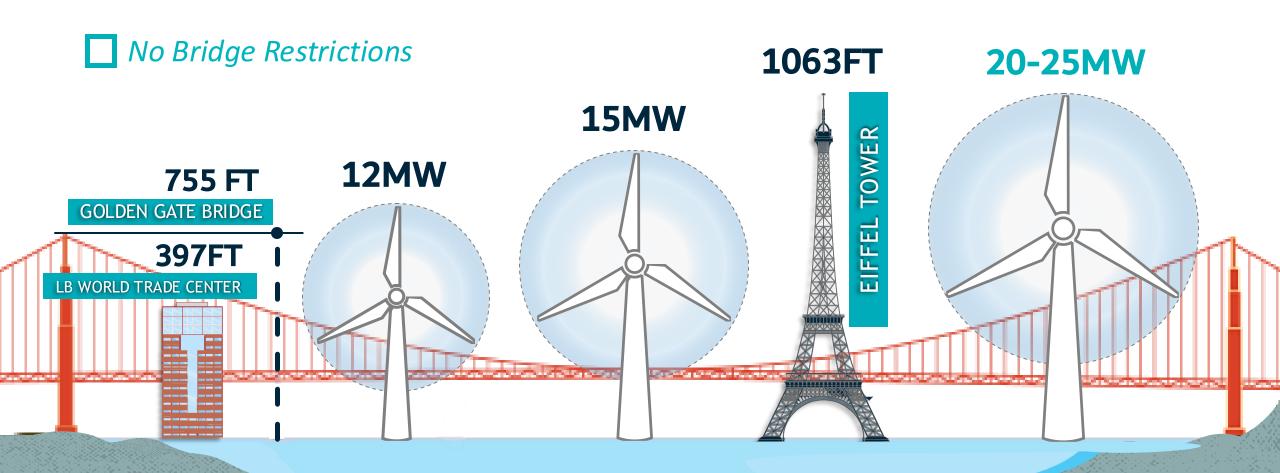
Wet storage for floating foundations waiting for integration



SCALE

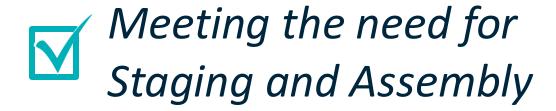








PIER Wind





PIER Wind Floating Offshore Wind Turbine Assembly Hub

DOCKS.

Supporting vessel logistics

WET STORAGES HE

For floating foundations waiting for integration

HEAVY LIFT WHARF

For component delivery, foundation loadout, and turbine integration activities

DOCKS

Supporting pre-commission activities and wet storage

WET STORAGE

For fully assembled turbines waiting for tow out

STAGING & INTEGRATION

Large area to stage turbine components and integrate onto floating foundations

FOUNDATION ASSEMBLY

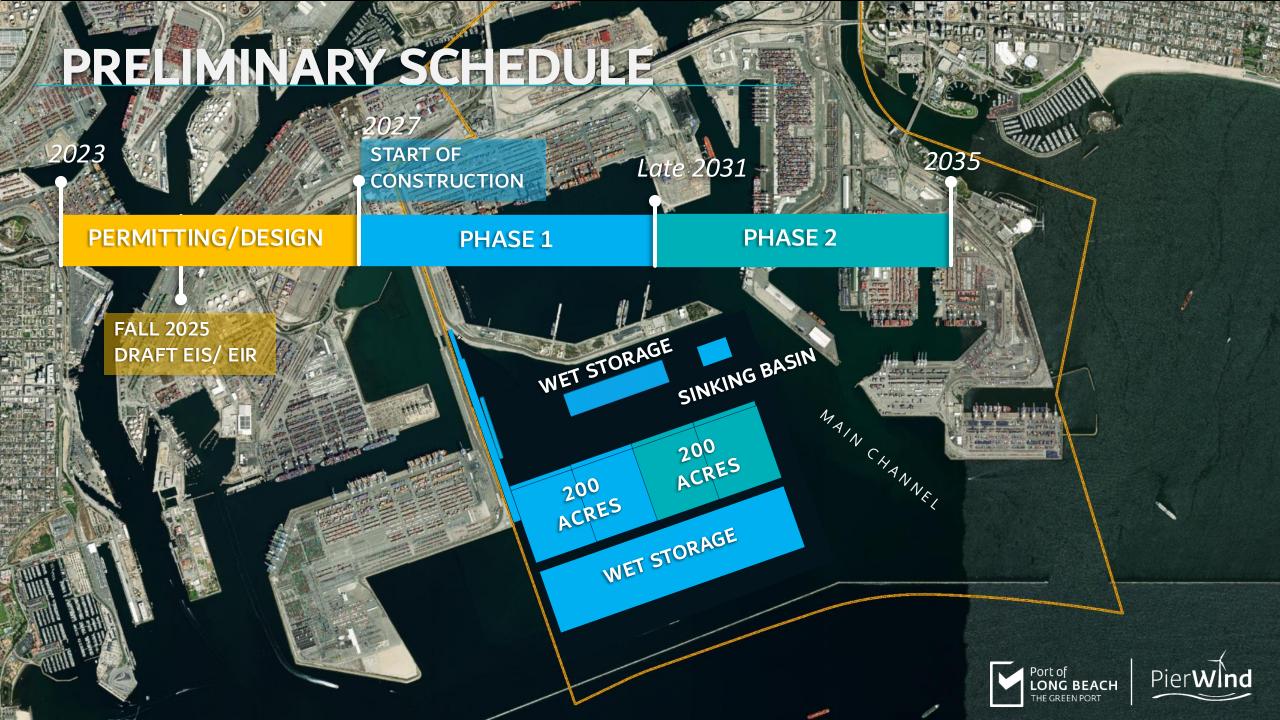
Large area to stage sub-assemblies and assemble multiple foundations concurrently



GREEN TERMINAL









PIER Wind



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







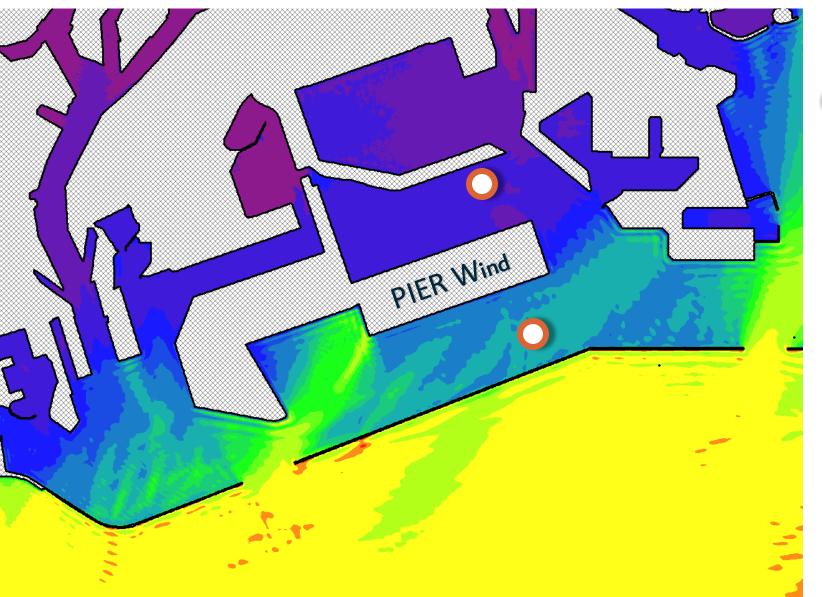
Collected 22 sediment samples. Information is used to inform:

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

WAVE INPUTS AND MODELING





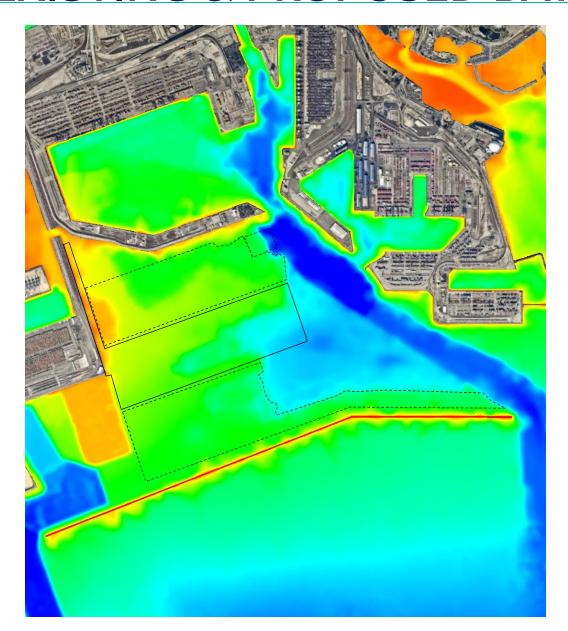


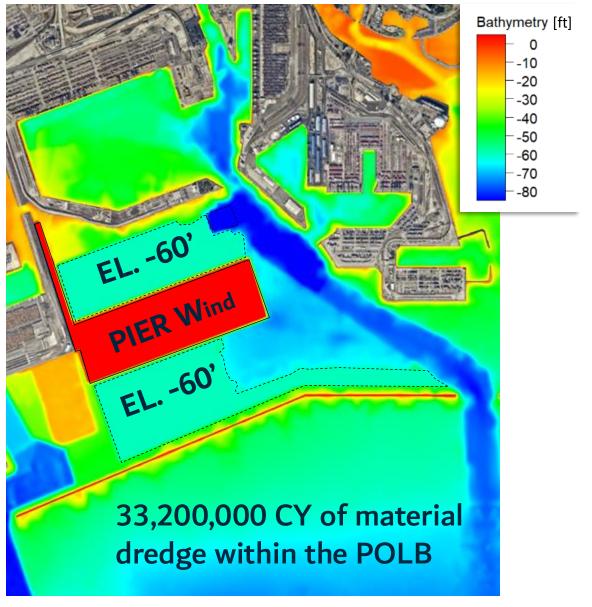
- O Deployed two instruments in Outer Harbor
 - Collected wave data for 12 months, supplementing existing wave database
 - Calibrated and validated model and analyzed multiple wave scenarios and sea level rise
 - Confirmed favorable conditions at Pier Wind quay for offshore wind operations
 - Confirmed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

EXISTING & PROPOSED BATHYMETRY















For more info

www.polb.com/pierwind