

DOCKETED

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PIER Wind

Floating Offshore Wind Turbine Assembly Hub

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Managing Director, Engineering Services

CEC AB3 Workshop
November 13, 2025

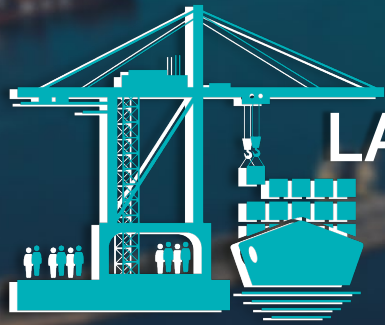


FOUNDED IN 1911



STATE
TIDELANDS
TRUST

HARBOR DEPARTMENT,
CITY OF LONG BEACH



LANDLORD
PORT

20
YEARS
LEADING GREEN



Port of
LONG BEACH
THE GREEN PORT



9.6M TEUs (2024)
2ND BUSIEST
CONTAINER PORT IN US



GOODS VALUED AT
\$300B ANNUALLY

We are THE GREEN PORT



20
YEARS
LEADING GREEN

☒ Port of LONG BEACH
THE GREEN PORT

20
YEARS
LEADING GREEN



Port of **LONG BEACH**
THE GREEN PORT

ZEERO
Zero Emissions, Energy Resilient Operations



STAGING AND ASSEMBLY PORT OPERATIONS



Key Requirements

FOUNDATION ASSEMBLY

Staging &
Integration
Co-located

Sub-Assembly
Delivery

Large area to assemble multiple
foundations concurrently

Heavy Lift Wharf

20
YEARS
LEADING GREEN



Port of
LONG BEACH
THE GREEN PORT

Photo courtesy of Principle Power

FOUNDATION ASSEMBLY

Large area to assemble multiple foundations concurrently

Sub-Assemblies

Staging & Integration
Co-located

Heavy Lift Wharf



Heavy Lift Wharf

■ Deep Calm Water

FOUNDATION LOAD OUT

SINKING BASIN

20
YEARS
LEADING GREEN



Port of
LONG BEACH
THE GREEN PORT

Photo courtesy of Principle Power

STAGING AND INTEGRATION

- Large area to stage components for approx. 15-20 turbines
- Deep Calm Water

Heavy Lift
Wharf

Component Delivery

20
YEARS
LEADING GREEN



Port of
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THE GREEN PORT

Photo courtesy of Principle Power

SAL

PRE-COMMISSIONING



Source: Deutsche Windtechnik

☐ Power

☐ Pedestrian Access

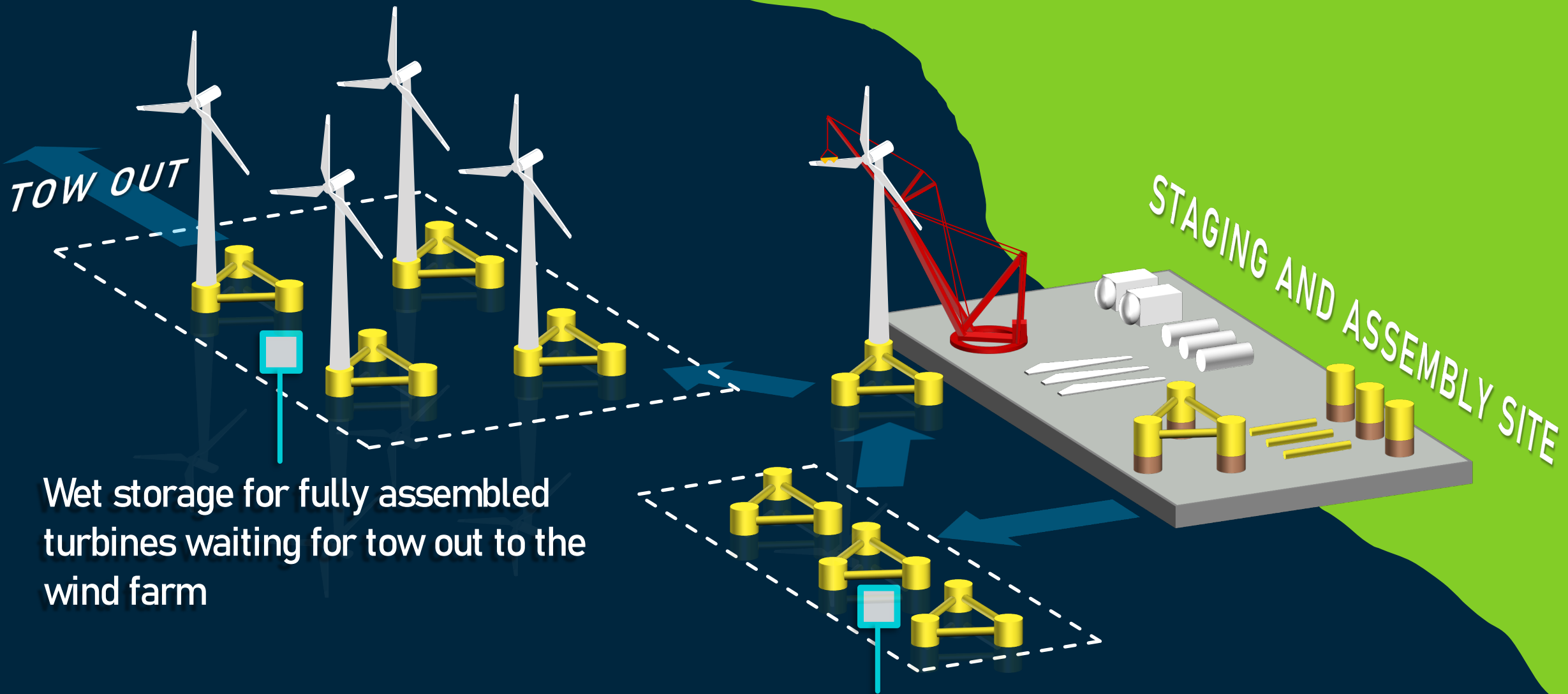
20
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LEADING GREEN



Port of
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Photo courtesy of Principle Power

SAL



Wet storage for fully assembled turbines waiting for tow out to the wind farm

Wet storage for floating foundations waiting for integration

WET STORAGE



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TOW OUT OPERATION

 Vessel Logistics

20
YEARS
LEADING GREEN



Port of
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Photo courtesy of Principle Power



PIER Wind



Meeting the need for Staging
and Assembly



STATE'S LARGEST
SKILLED WORKFORCE
AND MANUFACTURING BASE

HARBOR DISTRICT



DEEP CALM
WATER



PART OF LARGEST
INDUSTRIAL PORT
COMPLEX IN THE NATION

DEPTH -60'

PIER Wind

DEPTH -60'

FEDERAL
BREAKWATER

-76' MAIN CHANNEL



NO BRIDGE
RESTRICTIONS



CENTER OF US
SUPPLY CHAIN



INDUSTRY LEADER IN
DEVELOPING LARGE
MARINE INFRASTRUCTURE

Port of LONG BEACH KEY QUALITIES

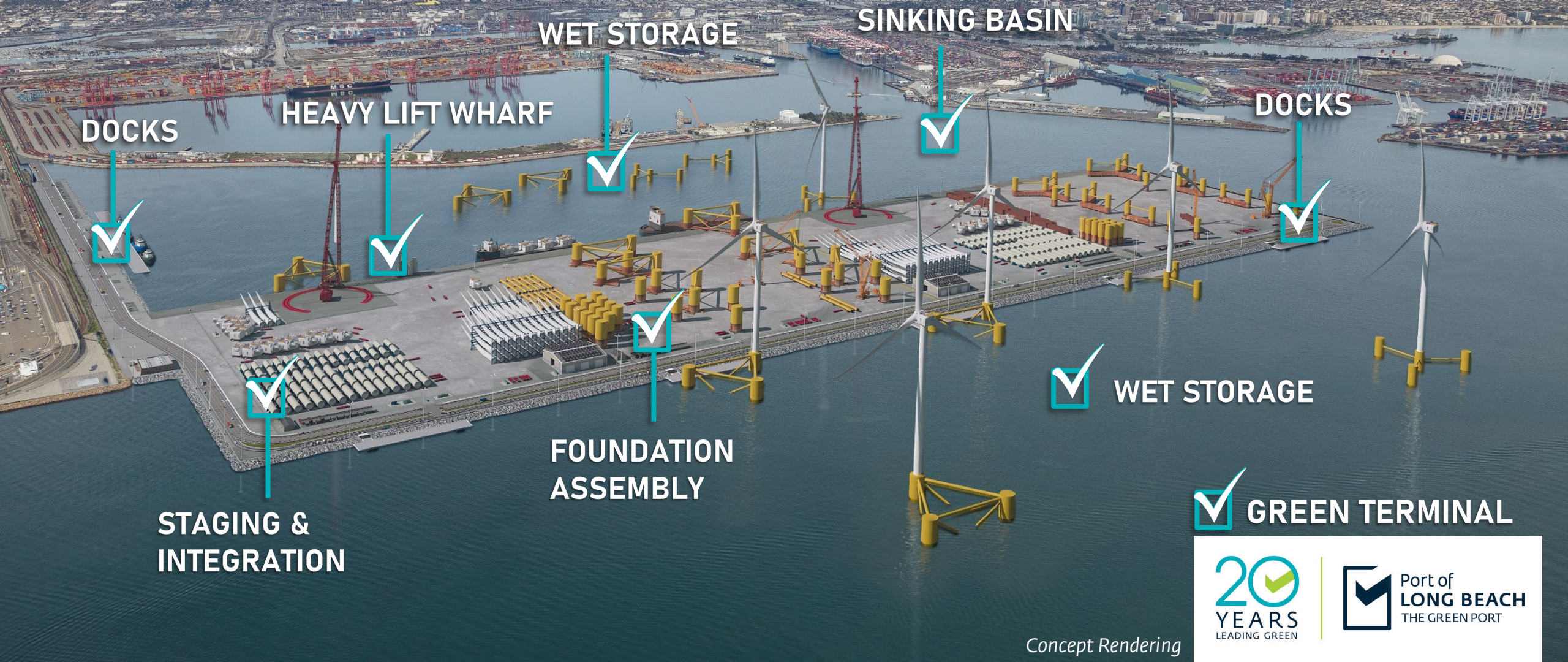


Port of
LONG BEACH
THE GREEN PORT

PierWind

PIER Wind

Floating Offshore Wind Turbine Assembly Hub



PIER Wind Floating Offshore Wind Turbine Assembly Hub



SERIAL PRODUCTION & ECONOMIES OF SCALE

20
YEARS
LEADING GREEN

 **Port of
LONG BEACH**
THE GREEN PORT

Concept Rendering

PRELIMINARY ECONOMIC IMPACT ANALYSIS



4,200 average annual jobs supported during PierWind construction, and
1,800 average annual jobs for assembly and operations at PierWind



\$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)



* Additional sources of economic impact excluded from the analysis: Although PierWind is a key enabling infrastructure for offshore wind development in California, the analysis does not include the benefits of other aspects of the wind farm development, such as construction and installation of the substation, array cables, anchors, mooring lines, etc.; jobs associated with manufacturing and local content; or jobs associated with the Operations & Maintenance of the wind farms.



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



Port Offshore Wind Equity and Readiness Project

The **POWER** project includes critical tasks to enable the full-scale construction of Pier Wind, including:

- Design
- Environmental review and permitting
- Community, tribal, industry and agency engagement
- Workforce development strategy
- Green Port study
- AB3 foundation supply chain analysis

20
YEARS
LEADING GREEN

 Port of **LONG BEACH**
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PierWind

For more info

www.polb.com/pierwind