



Port of  
**LONG BEACH**  
THE PORT OF CHOICE

# Association of Pacific Ports 110<sup>th</sup> Annual Conference

## *On Track for Tomorrow Together*

Dr. Noel Hacegaba  
Chief Operating Officer

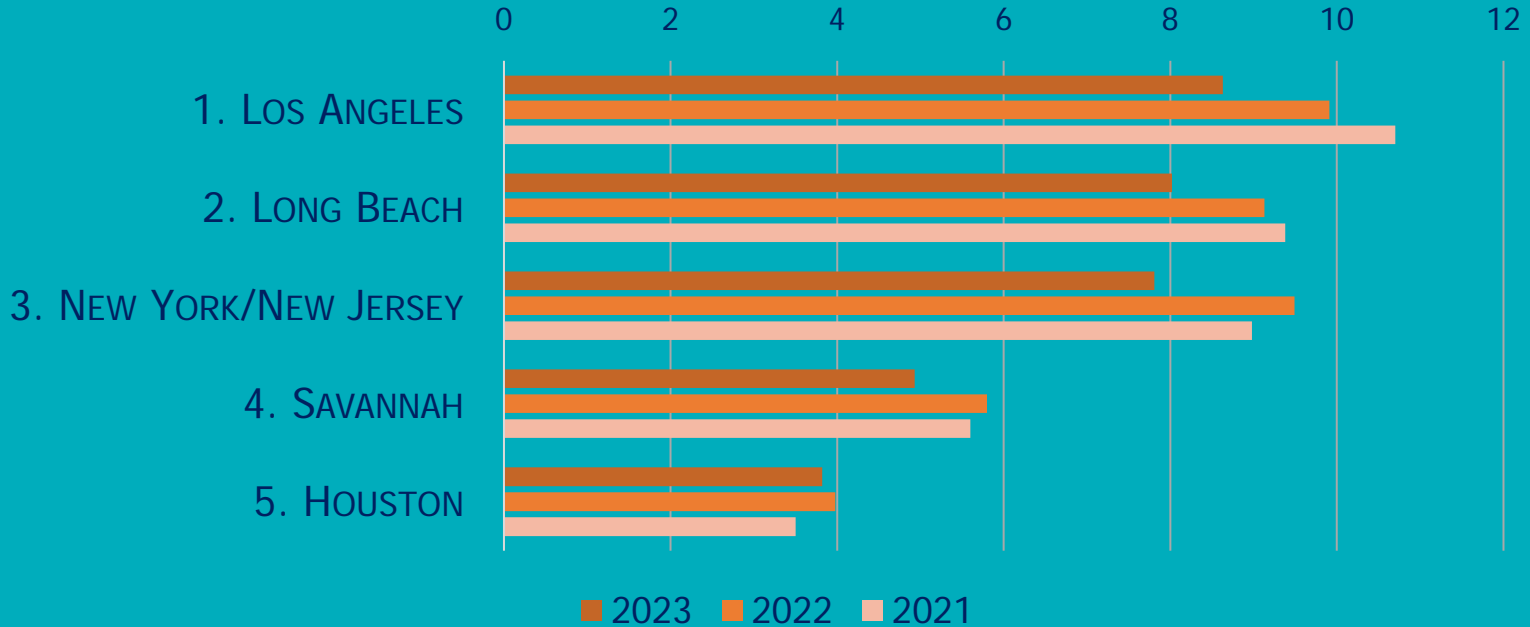
August 12, 2024

An aerial photograph of the Port of Long Beach, showing a large industrial area with numerous shipping containers, cranes, and docks along the waterfront. The port is situated in a deep harbor, with a city and residential areas visible in the background. The sky is clear and blue.

# PORT OF LONG BEACH

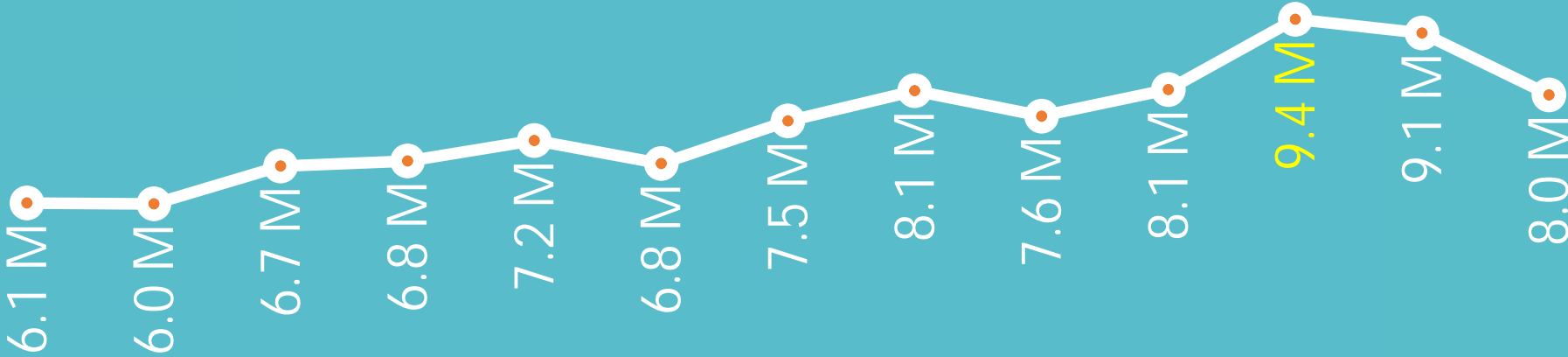
\$200 Billion in Trade Annually  
2.6 Million Jobs Nationally  
575,000 Jobs in Southern California

# BUSIEST U.S. CONTAINER PORTS



\*Millions of twenty-foot equivalent units (TEUs) or 20-foot-long containers

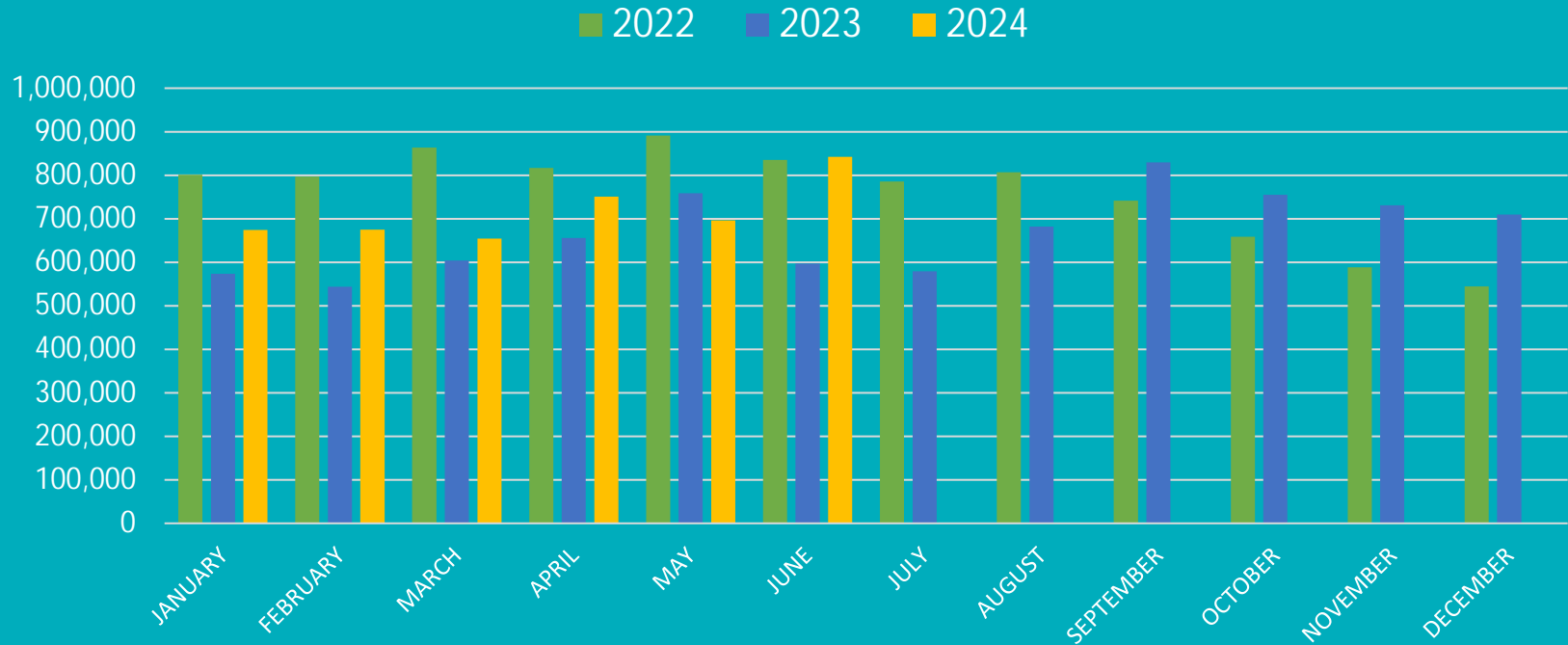
# POLB Annual Container Volumes



2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023



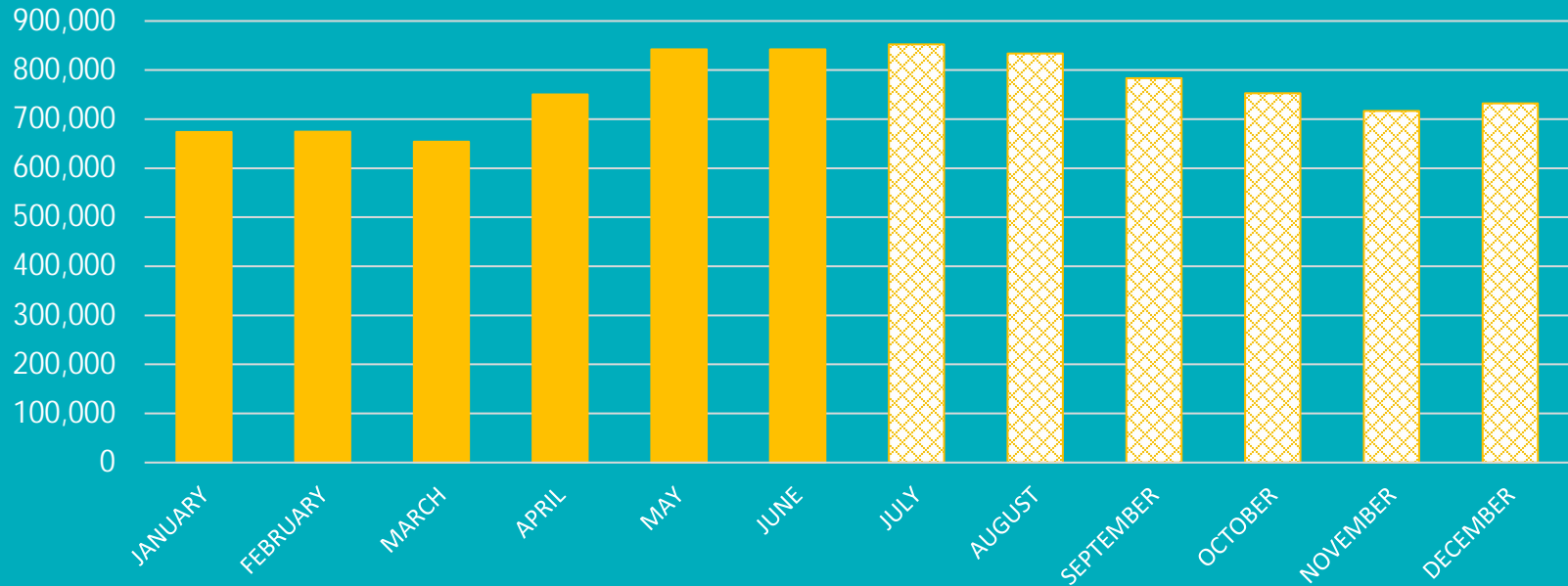
# PORT OF LONG BEACH MONTHLY TEUs\*



\*Twenty-foot equivalent units (TEUs) or 20-foot-long containers



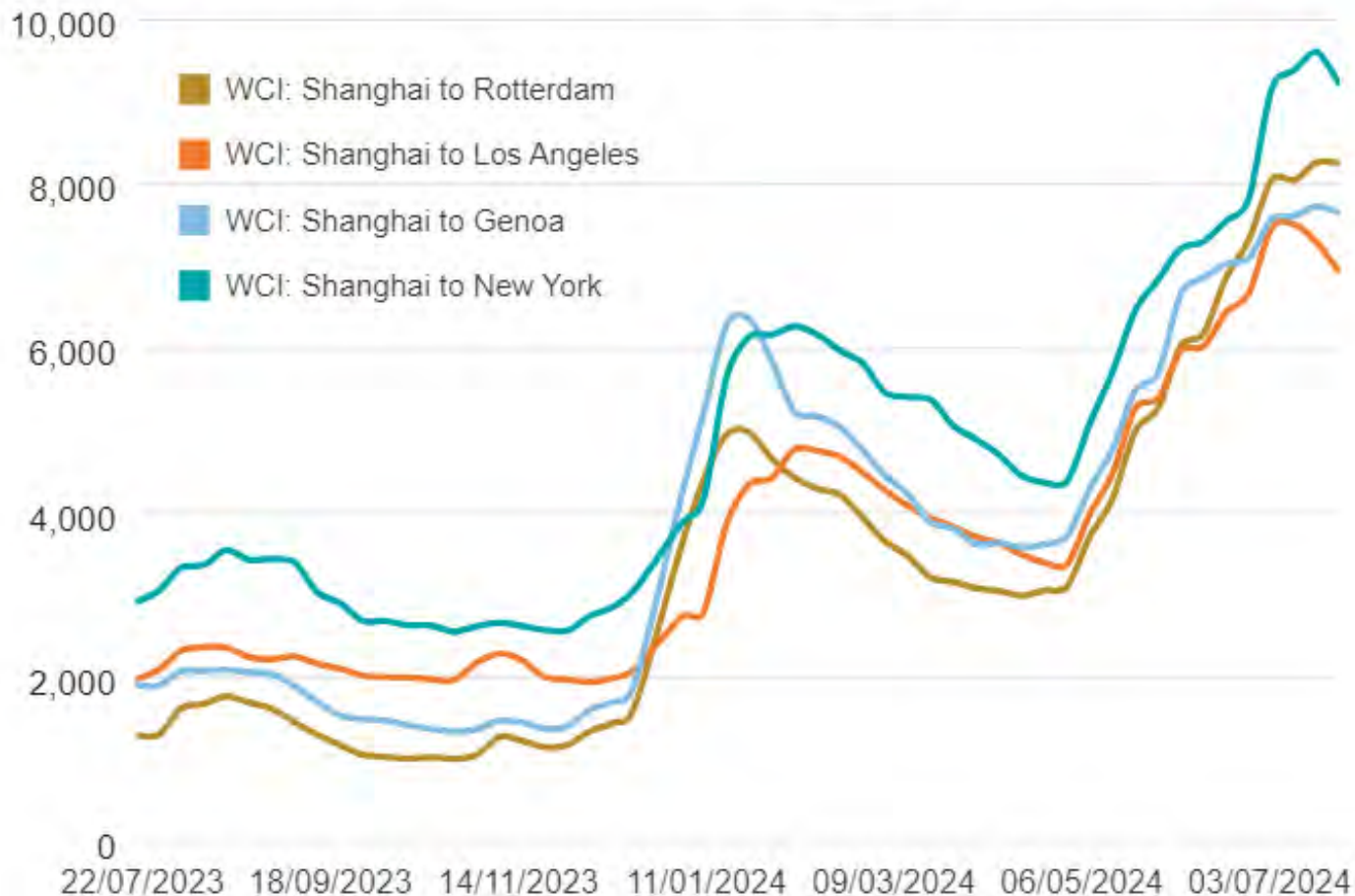
# PORT OF LONG BEACH 2024 MONTHLY TEUs\*



\*Twenty-foot equivalent units (TEUs) or 20-foot-long containers



# Drewry WCI: Trade Routes from Shanghai (US\$/40ft)



Current

2M Alliance



Ocean Alliance



THE Alliance



?

Gemini Cooperation



Ocean Alliance



?

THE Alliance



Future  
(so far)

# Consumer Spending

## Consumer Spending

### Monthly

June 2024	+0.3%
May 2024	+0.4%
April 2024	+0.2%
March 2024	+0.7%

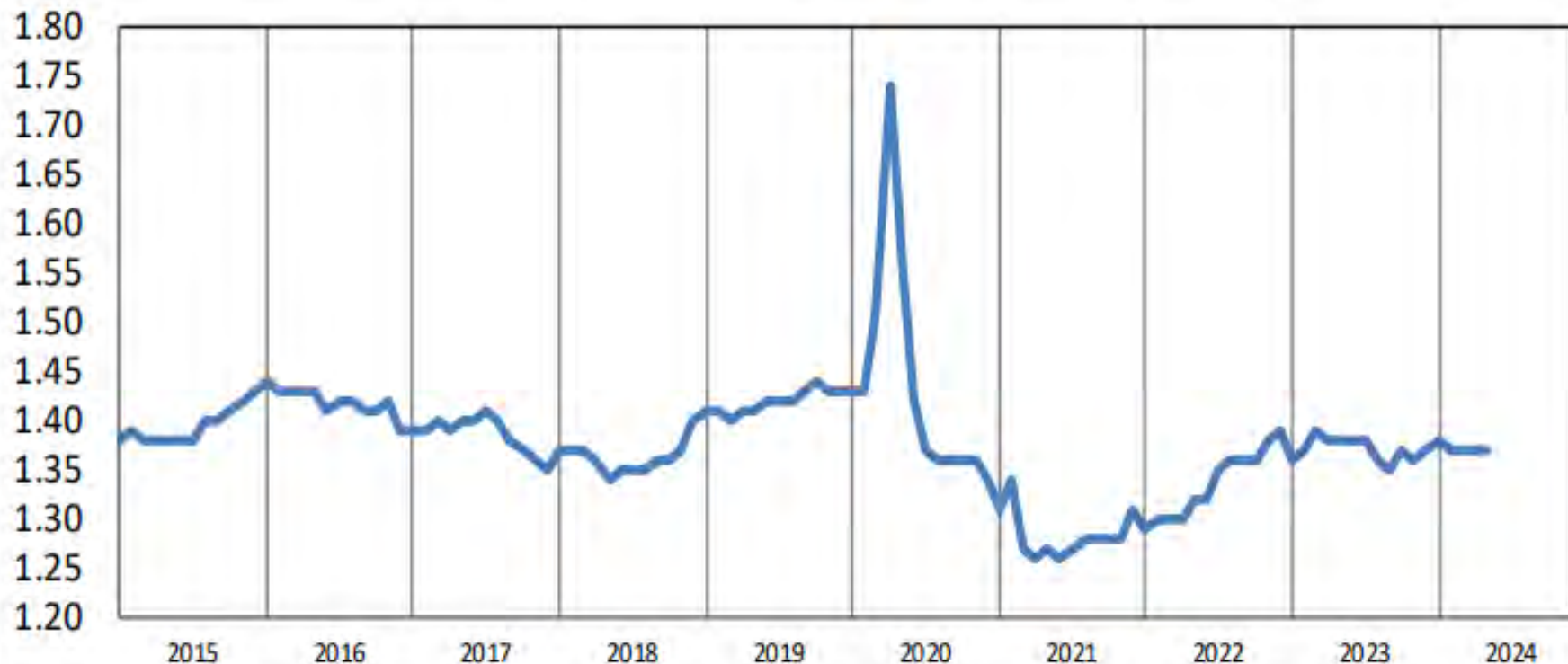
Consumer spending, or personal consumption expenditures (PCE), is the value of the goods and services purchased by, or on the behalf of, U.S. residents. At the national level, BEA publishes annual, quarterly, and monthly estimates of consumer spending.

[Current Release](#)

[Quick Guide: Personal Income and Outlays Releases](#)



## Total Business Inventories / Sales Ratios: 2015 to 2024



Source: U.S. Census Bureau, Manufacturing and Trade Inventories and Sales, July 16, 2024.  
(Data adjusted for seasonal, holiday and trading day differences but not for price changes)



# 7.2% vacancy rate in Inland Empire



# LESSONS LEARNED

An aerial photograph of a busy port facility. The foreground shows several large circular tanks and industrial buildings. The middle ground is dominated by vast stacks of colorful shipping containers (red, blue, green, orange) arranged in neat rows. In the background, several large cargo ships are docked at piers, with cranes visible. The port is situated along a body of water, with a cityscape visible in the distance under a clear blue sky.

- Communication, collaboration and coordination
- Surge capacity
- 24/7 operations
- Supply chain visibility through data sharing



Supply Chain   
**INFORMATION  
HIGHWAY**

 Port of  
**LONG BEACH**  
THE PORT OF CHOICE





Increase Seaport Velocity

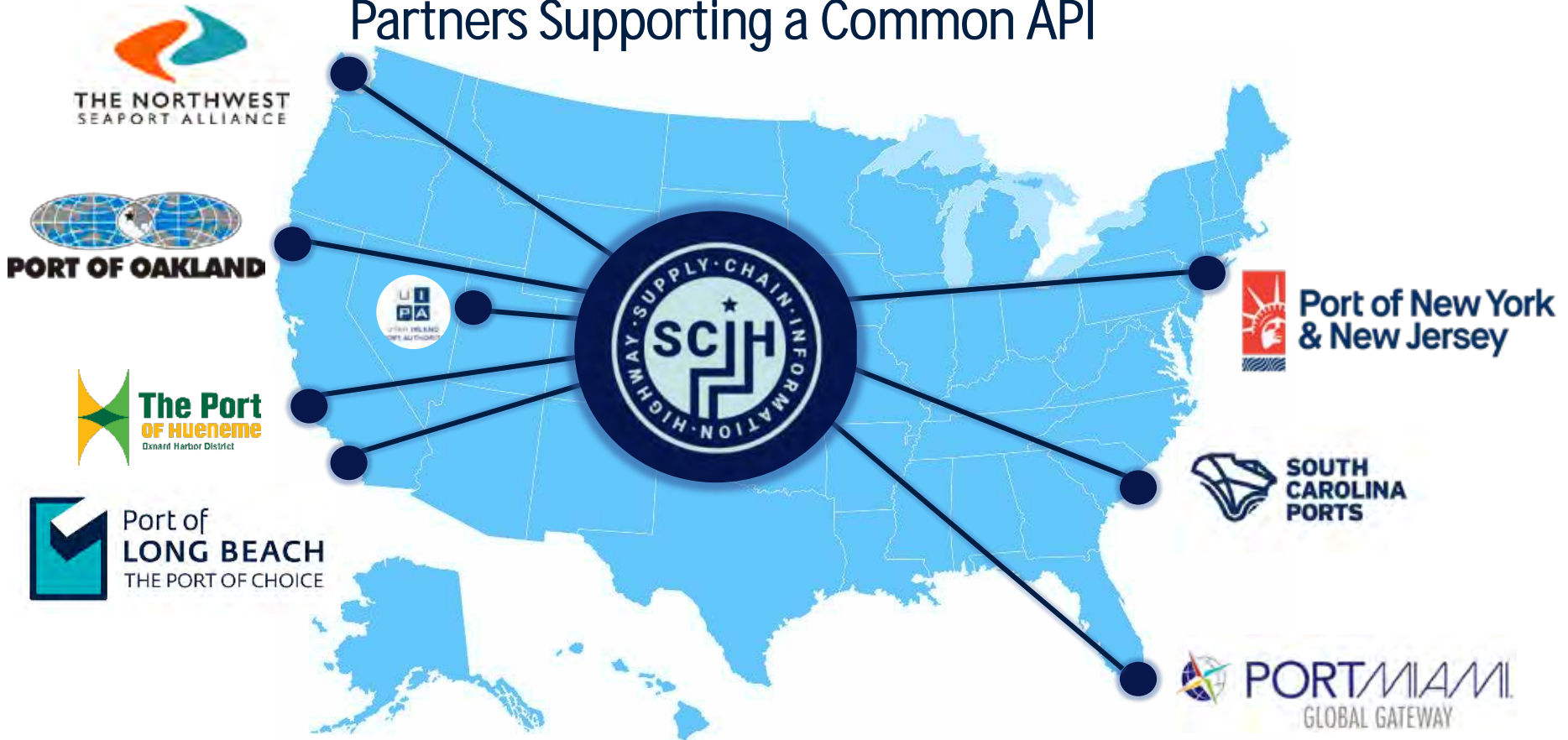
Increase Access for All

Increase Timeliness + Accuracy

Increase Cargo Visibility

Liberate Data from Legacy Transportation Systems

# Foundational Port Partners Supporting a Common API





# California Invests \$27 Million in Innovative, First-in-the-Nation Port Data System Development

Jul 11, 2024 | *Press Release*

SACRAMENTO CA – The California Governor's Office of Business and Economic Development (GO-Biz) today announced the [award of \\$27 million](#) to support data system development and interoperability across California's five containerized ports, the first-ever state-level funding in the country focused on improving data functionality across a statewide network of ports.

As the nation's premier gateway for international trade, California and its ports are essential to the smooth functioning of the global economy. The state's containerized ports, which include the Ports of Los Angeles, Long Beach, Oakland, San Diego, and Hueneme, handle a staggering 40% of all U.S. containerized imports, supporting millions of jobs and generating billions in economic activity.

"California's ports are critical to the stability of our national and global supply chains, as well as the health of our worldwide economy," said **GO-Biz Director and Senior Advisor to Governor Gavin Newsom, Dee Dee Myers**. "These historic, first-of-their-kind awards will allow us to use data to improve the functionality of our supply chain, and we look forward to working with our ports to further the momentum that these projects will generate across the state."

The awards will fund [ten innovative projects](#) across the five ports that address key challenges in port operations and foster long-term statewide freight resilience. These projects encompass a wide range of solutions including optimization of cargo-routing, deployment of cutting-edge technologies such as artificial intelligence, implementation of climate resiliency and emissions reductions measures, adoption of trucking appointment systems, and the development of new data standards for cargo.

"This milestone marks significant progress in the Governor's vision to improve California's supply chain, powering us into a more equitable and economically competitive state," said **GO-Biz Director and Senior Advisor to Governor Gavin Newsom, Dee Dee Myers**. "The state's critical infrastructure and collaborative efforts across California's

DIVE BRIEF

# Port of Long Beach supports push for single appointments system

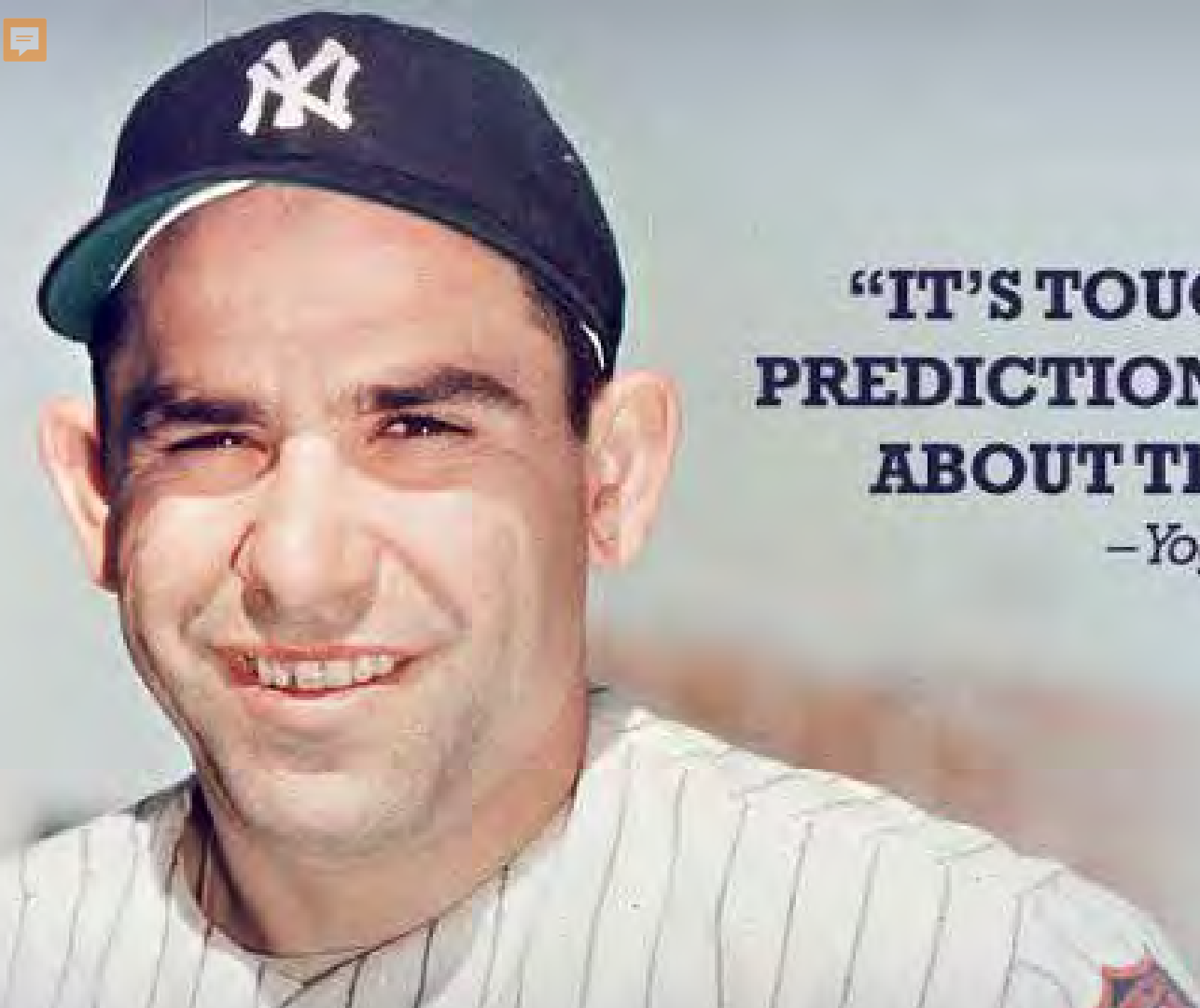
Published Feb. 9, 2023



[Colin Campbell](#)

Senior Reporter, Trucking Dive





**“IT’S TOUGH TO MAKE  
PREDICTIONS, ESPECIALLY  
ABOUT THE FUTURE.”**

*– Yogi Berra*



The best way to predict the future is  
to create it.

— *Peter Drucker* —

# INFRASTRUCTURE

INVESTING IN PORTS AND WATERWAYS



A man in a dark suit and blue tie is seated at a dark wooden desk, focused on signing documents. He is holding a pen over an open folder. To his right, the United States flag and the Virginia state flag are displayed on poles. The Virginia flag features a plow and a sheaf of wheat, with the text 'COMMONWEALTH OF VIRGINIA' and 'REPUBLIC' visible. The background includes a bookshelf with books and a large green plant on the left. A semi-transparent text box is overlaid on the right side of the image.

# 2022-23 State Budget

\$2.3 Billion for goods movement  
and supply chain projects

# \$792,479,016 in GRANTS IN 2023 FOR POLB



## 2023 FUNDING INCLUDED:

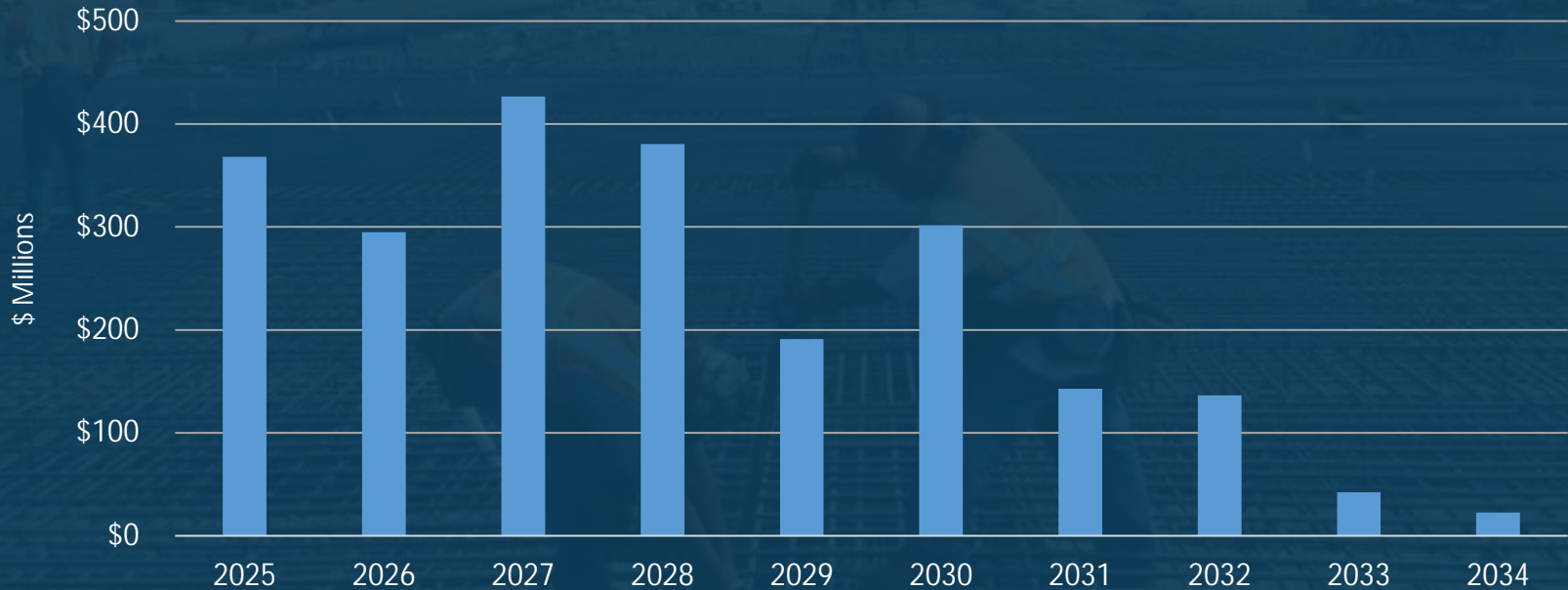
- \$565 MILLION FOR PIER B ON-DOCK RAIL SUPPORT FACILITY
- \$225 MILLION FOR ZERO-EMISSIONS PROJECTS



# Port of **LONG BEACH** **\$2.3 BILLION** in **CAPITAL PROJECTS**

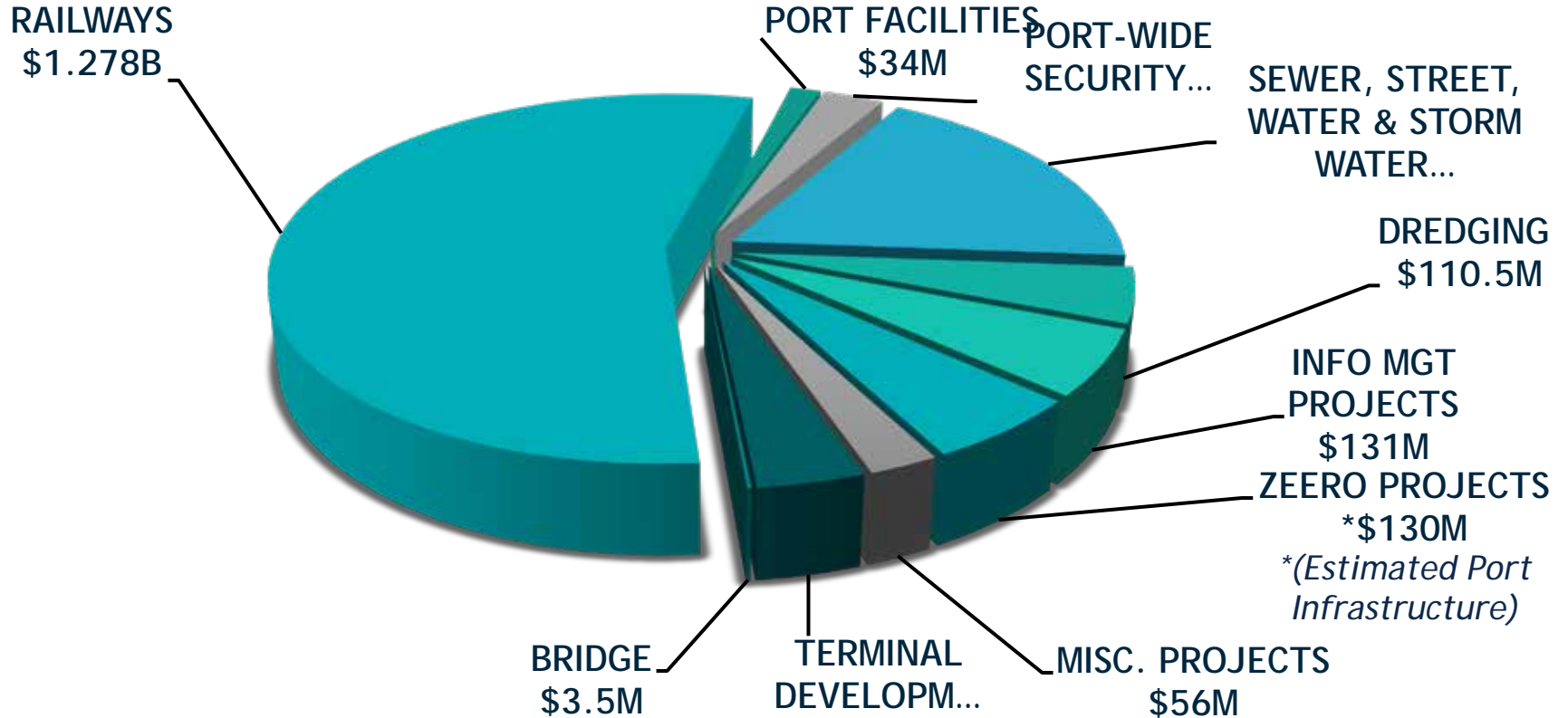
FY 2025-2034

■ CAPITAL OUTLAY





# 10 YEAR CAPITAL PROGRAM FORECAST (FY 2025 - 2034) \$2.3 BILLION



# PIER B ON-DOCK RAIL SUPPORT FACILITY







# AMERICA'S GREEN GATEWAY: Pier B On-Dock Rail Support Facility



## Investing in the Port of Long Beach

The Port of Long Beach has received \$643 million in grant funding to date from federal, state and local partners to build the \$1.567 billion Pier B On-Dock Rail Support Facility.

Pier B enhances the Port's rail operations, moving longer trains faster, more reliably, and efficiently. This strengthens our nation's economic competitiveness while **creating new jobs**. Pier B helps the Port meet our 35% on-dock

rail goal, **promoting a mode shift to rail as opposed to more truck trips**, reducing emissions, our carbon footprint and traffic congestion in our disadvantaged communities.



# Environmental & Public Health Benefits

The Project is crucial to meeting the Port's goal of moving 35% of containers by on-dock rail, which is one of the objectives of the 2017 Update of the San Pedro Bay Ports Clean Air Action Plan.

The Port's equity lens recognizes that disadvantaged and vulnerable communities are disproportionately affected by environmental issues.

Once completed in 2032, the project will improve air quality and reduce the following pollutants in the region:

Sulfur oxides by

↓ 80%

Nitrogen oxides by

↓ 26%

Diesel particulate matter by

↓ 85%

Greenhouse gases by

↓ 64%

The Pier B On-Dock Rail Support Facility will reduce diesel fuel usage by approximately

**16.1 MILLION GALLONS**  
per year

eliminating

**4.6 MILLION TRUCK TRIPS**

per year





# GREEN PORT POLICY

ADOPTED IN **2005** BY THE LONG BEACH BOARD OF HARBOR COMMISSIONERS

- **PROTECT THE COMMUNITY**
- **DISTINGUISH THE PORT AS A GLOBAL LEADER**
- **PROMOTE SUSTAINABILITY**
- **EMPLOY BEST TECHNOLOGY**
- **ENGAGE AND EDUCATE THE COMMUNITY**

# 2022 EMISSIONS INVENTORY



THIS WAS DURING A TIME WHEN  
CONTAINER CARGO JUMPED 36%



Compared to 2005 Levels

# UPDATED CLEAN AIR PLAN

ADOPTED IN **2017** BY THE LONG BEACH AND LOS ANGELES BOARDS OF HARBOR COMMISSIONERS

Port of Long Beach

- **REDUCE GHGS 40% BY 2030 AND 80% BY 2050**
- **EXPAND ON-DOCK RAIL TO 50 PERCENT**
- **A ZERO-EMISSIONS TRUCK FLEET**
- **DEPLOY ZERO-EMISSIONS YARD EQUIPMENT**

# ZE Cargo Handling Equipment by 2030



# ZE Trucks by 2035



# TEAMWORK

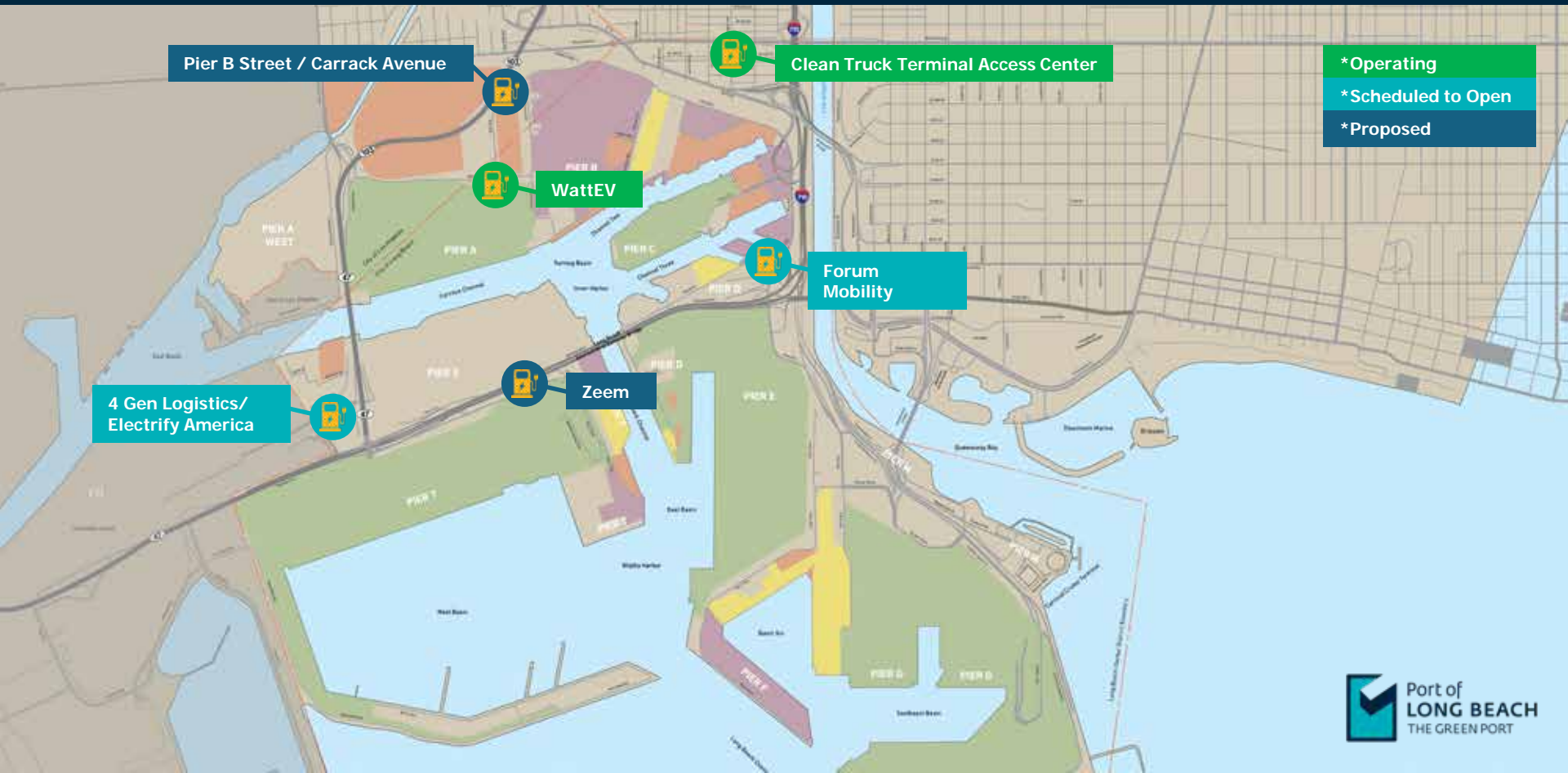
*makes the*



# DREAM WORK

# Charging Depots for ZE Electric Drayage Trucks

The Port of Long Beach is working with developers to meet a goal of 100 public units available in the Harbor District by 2028



# CLEANER SHIPS

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- GREEN SHIP INCENTIVE PROGRAM
- GREEN FLAG VESSEL SPEED REDUCTION PROGRAM
- SHORE POWER
- GREEN SHIPPING CORRIDORS
  - LONG BEACH ↔ SINGAPORE
  - LONG BEACH ↔ SHANGHAI

# Memorandum Of Understanding Between Maritime And Port Authority Of Singapore, The Port Of Long Beach, And The Port Of Los Angeles On The Establishment Of A Green And Digital Shipping Corridor



## GREEN SHIPPING CORRIDORS

- LONG BEACH ↔ SINGAPORE
- LONG BEACH ↔ SHANGHAI

# 2023北外滩国际航运论坛 成果发布

2023 NORTH BUND FORUM PROJECTS RELEASE

上海船东形象倡议

SHANGHAI SHIPOWNERS IMAGE INITIATIVE

中国教培系统首艘万吨级  
全功能深远海通航教培船建造

THE COMPLETION OF THE FIRST 10,000-TON  
MULTI-FUNCTIONAL DEEP-OCEAN NAVIGATION  
TEACHING AND TRAINING SHIP

中远海运汽车行全数字化转型平台

CCCC SHIPPING AUTO TRADING ALL-DIGIT TRANSFORMATION PLATFORM

中国东航长三角经济圈  
空地一体运行网络构建

CHINA EASTERN AIRLINES EAST CHINA ECONOMIC  
CIRCLE AIR-GROUND INTEGRATED OPERATION NETWORK  
CONSTRUCTION

上海交通云平台

SHANGHAI

国际集装箱运输新平台(集运Maas)

THE INTERNATIONAL CONTAINER TRANSPORTATION NEW PLATFORM

国际集装箱运输新平台(集运Maas)

THE INTERNATIONAL CONTAINER TRANSPORTATION  
NEW PLATFORM (MAAS)

波罗的海  
贸易指数报告(十年)

BALTIC DRY CARGO DEVELOPMENT INDEX REPORT  
TENTH ANNIVERSARY

上海港-洛杉矶港  
绿色航运走廊实施计划纲要

IMPLEMENTATION PLAN FOR THE GREEN SHIPPING CORRIDOR OF SHANGHAI  
LOS ANGELES

上海市交通委员会与新加坡海事及港口管理局  
建立战略合作关系

SHANGHAI MUNICIPAL COMMUNICATIONS COMMISSION AND SINGAPORE MARINE AND PORT AUTHORITY  
ESTABLISH STRATEGIC PARTNERSHIP

上海港与汉堡港  
签署关于增强友好关系倡议书

SHANGHAI PORT AND HAMBURG PORT  
SIGN INITIATIVE FOR ENHANCING FRIENDSHIP RELATIONSHIP

上海港与敖德萨港  
签署关于增强友好关系倡议书

SHANGHAI PORT AND ODESSA PORT  
SIGN INITIATIVE FOR ENHANCING FRIENDSHIP RELATIONSHIP



# Progress Rail

*A Caterpillar Company*

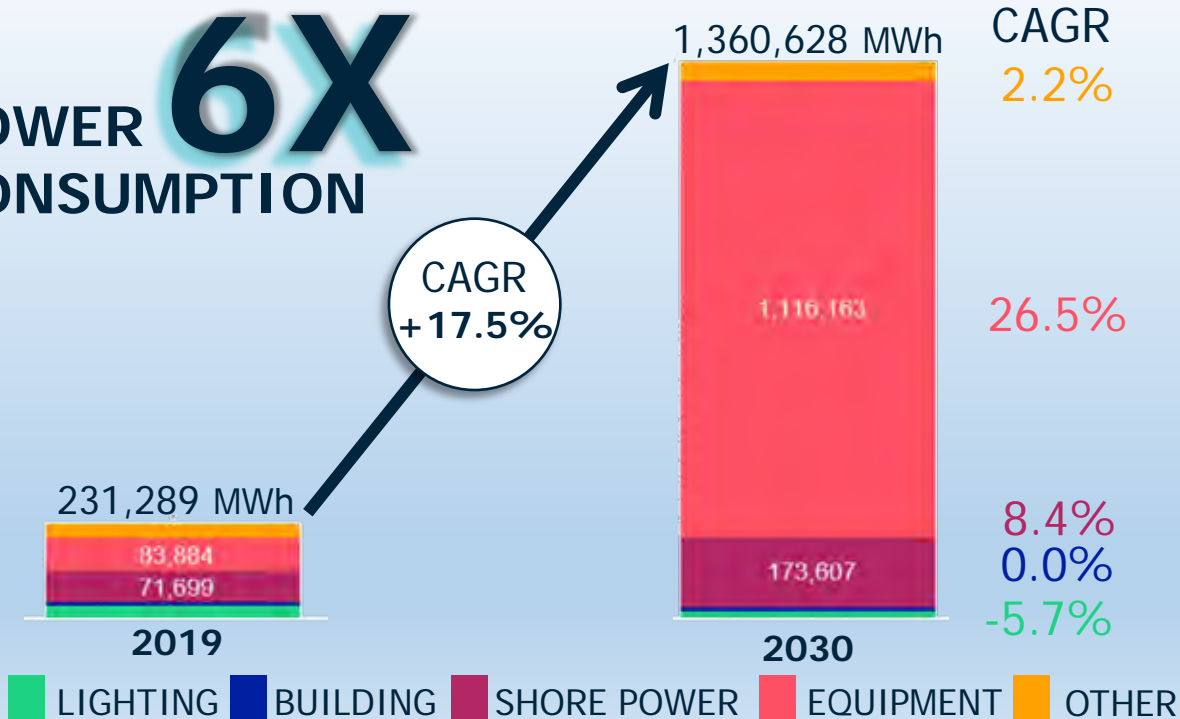


## Battery Electric: Pacific Harbor Line SD40JR

Port deployment of battery electric locomotive for heavy cross-haul service

# CONSUMPTION WITH FULL ELECTRIFICATION

POWER **6X**  
CONSUMPTION



Compound Annual Growth Rate (CAGR) from POLB Cargo Forecasts



ZEEERO   
Zero Emissions, Energy Resilient Operations



Port of  
**LONG BEACH**  
THE GREEN PORT



# California Selected as a National Hydrogen Hub

Published: Oct 13, 2023

SACRAMENTO – California will receive up to \$1.2 billion from the U.S. Department of Energy to accelerate the development and deployment of clean renewable hydrogen, critical to cutting pollution and expanding the clean energy economy statewide.

## **What it means:**

- Up to \$1.2 billion to build or expand hydrogen projects that will power public transportation, heavy-duty trucks, port operations, and more;
- Will leverage the state's leadership in clean energy technology to produce hydrogen exclusively from renewable energy and biomass.



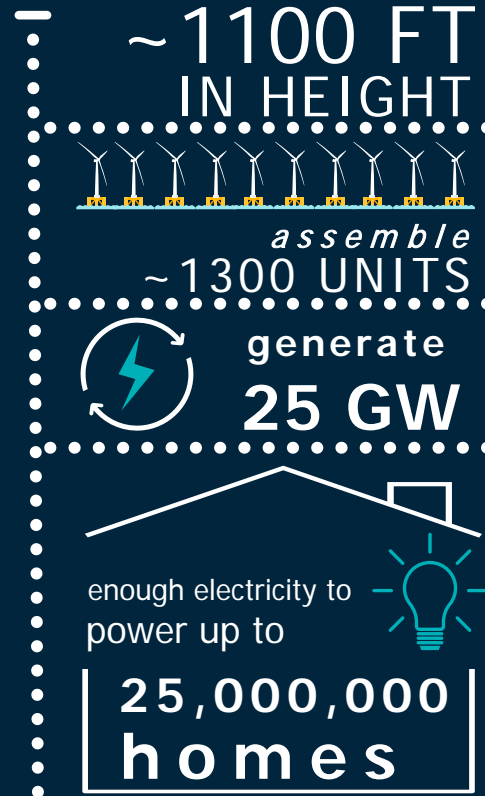
**1,000 - 1,600 UNITS  
25 GW  
BY 2045**

**1,000 FEET**



# SPINNING TOWARD A GREENER FUTURE BY 2045

Pier Wind would allow for the assembly of the world's largest offshore wind turbines, standing as tall as the Eiffel Tower.





# FLOATING OFFSHORE WIND TURBINE ASSEMBLY



BLADES



NACELLES



TOWERS



TRANSFER

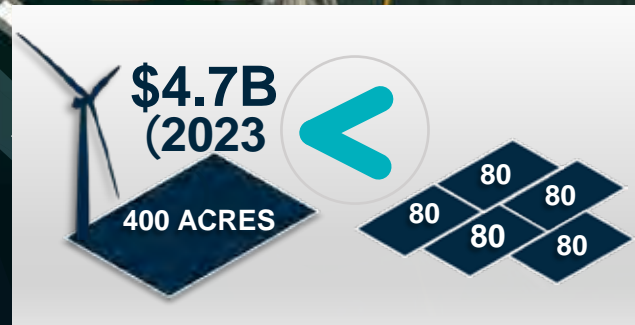
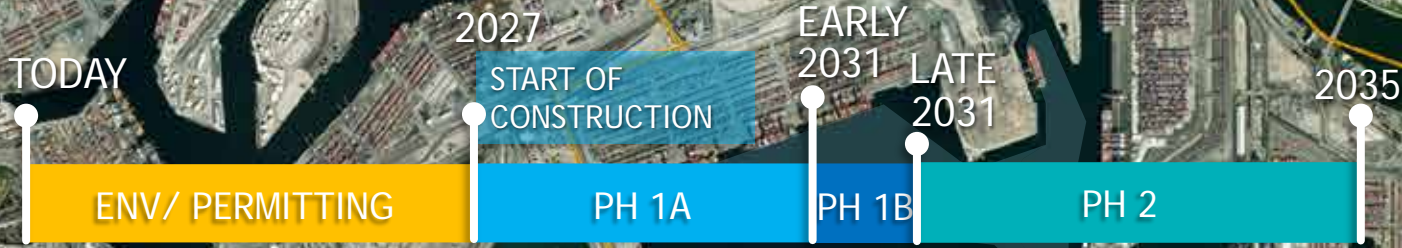


TOW OUT TO  
INSTALLATION SITE

**One per Week**

*Credit photos: LM Wind Power, Vestas, Journal of Commerce, Principle Power, Maritime Cyprus, fotocommunity.de, Port of Monroe, Dock90, Euractiv, Wind Plus*

# SCHEDULE AND COST





# INVESTING IN OUR WORKFORCE

Upskilling and reskilling for the future





# PORT OF LOS ANGELES AND PORT OF LONG BEACH GOODS MOVEMENT WORKFORCE TRAINING FACILITY



# *WE ARE THE GREEN PORT*



# THANK YOU