



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

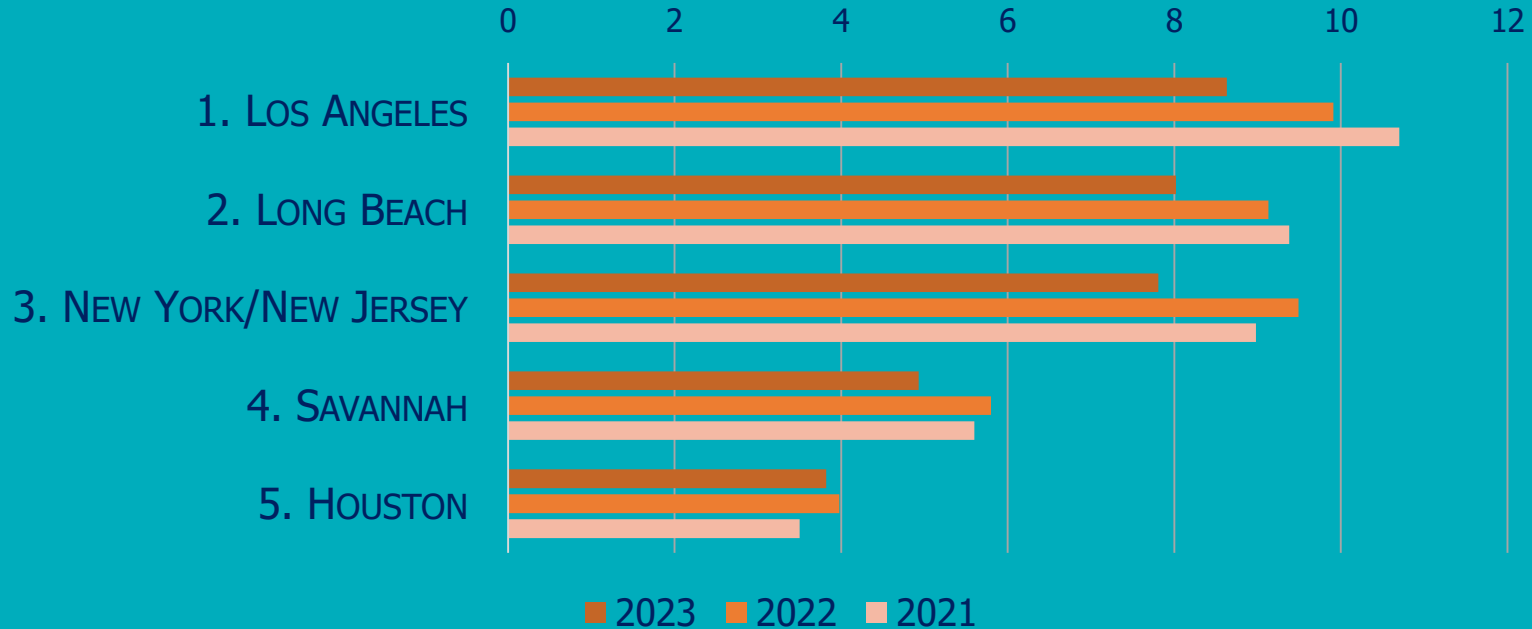
**August 12, 2024**

# PORT OF LONG BEACH

An aerial photograph of the Port of Long Beach, showing a large harbor filled with numerous cargo ships and container stacks. The port is surrounded by dense urban areas and industrial zones. The water is a deep blue, and the sky is clear.

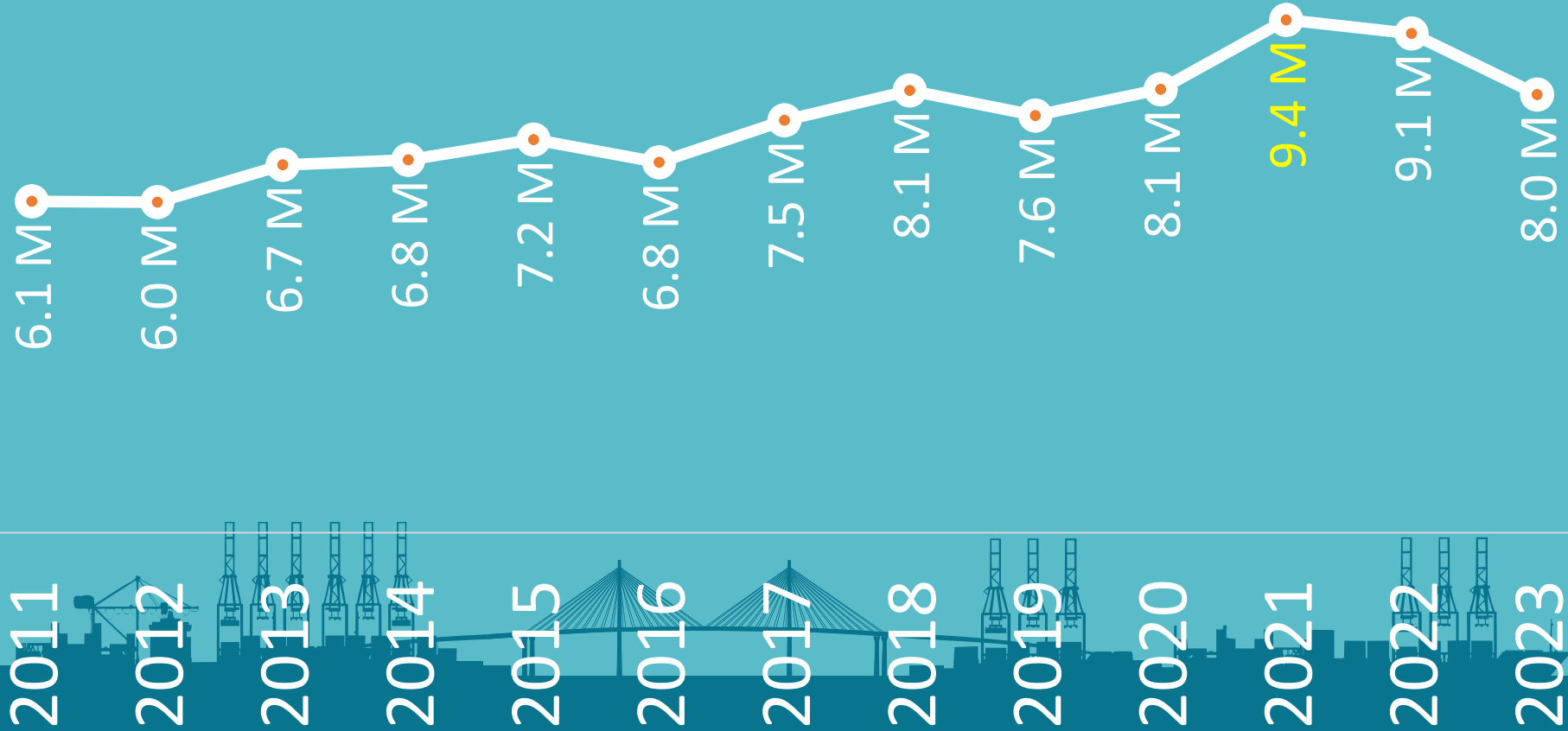
\$200 Billion in Trade Annually  
2.6 Million Jobs Nationally  
575,000 Jobs in Southern California

# BUSIEST U.S. CONTAINER PORTS



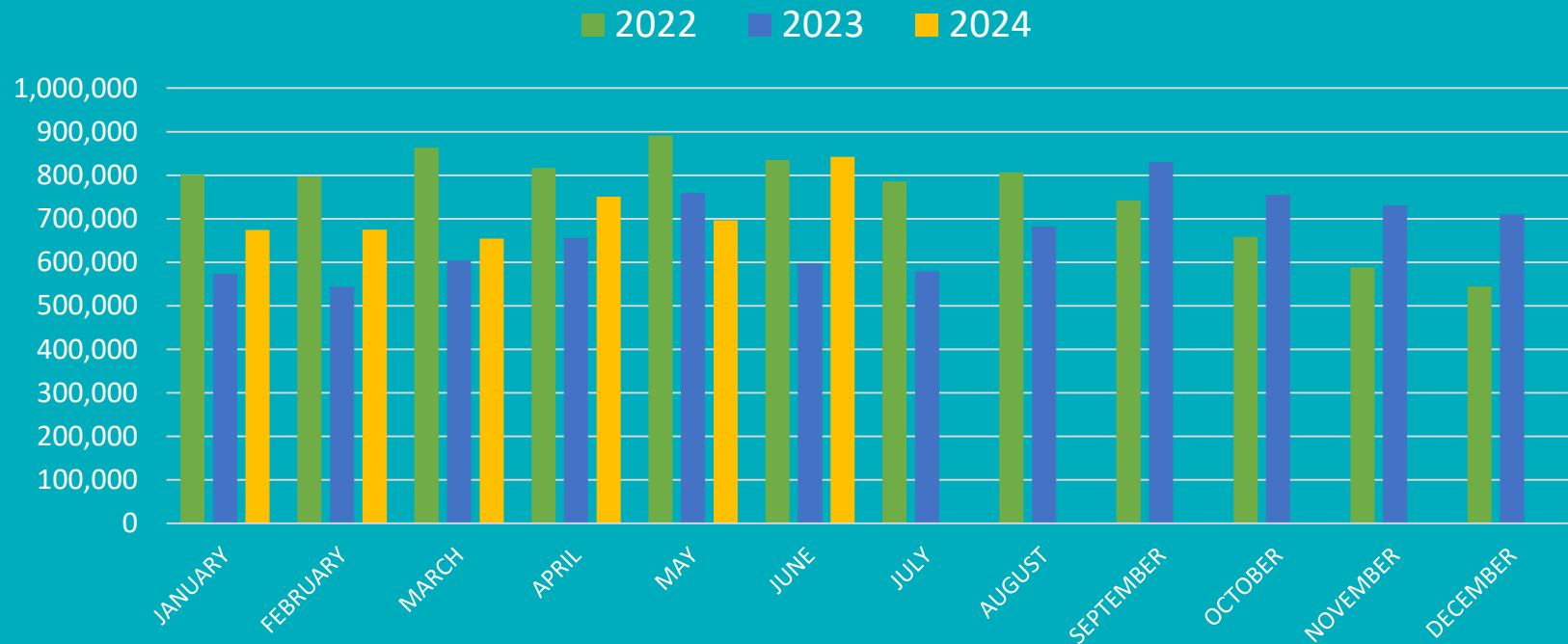
\*Millions of twenty-foot equivalent units (TEUs) or 20-foot-long containers

# POLB Annual Container Volumes



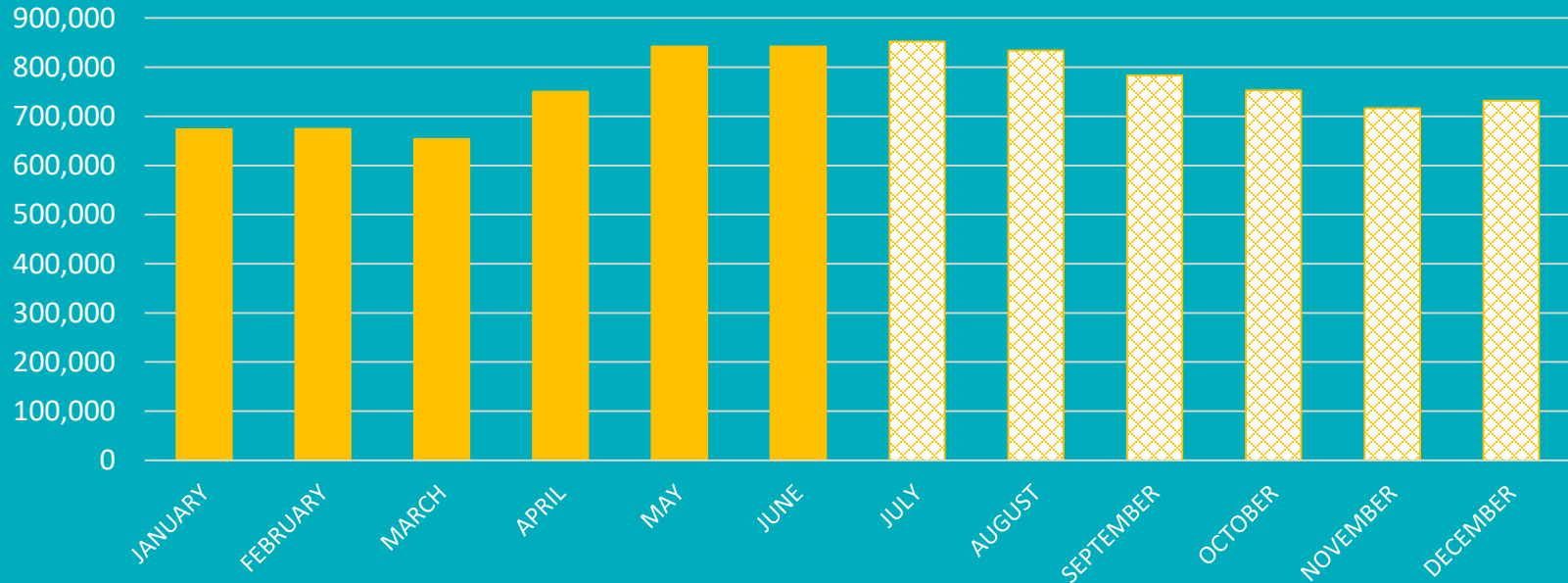


# PORT OF LONG BEACH MONTHLY TEUs\*



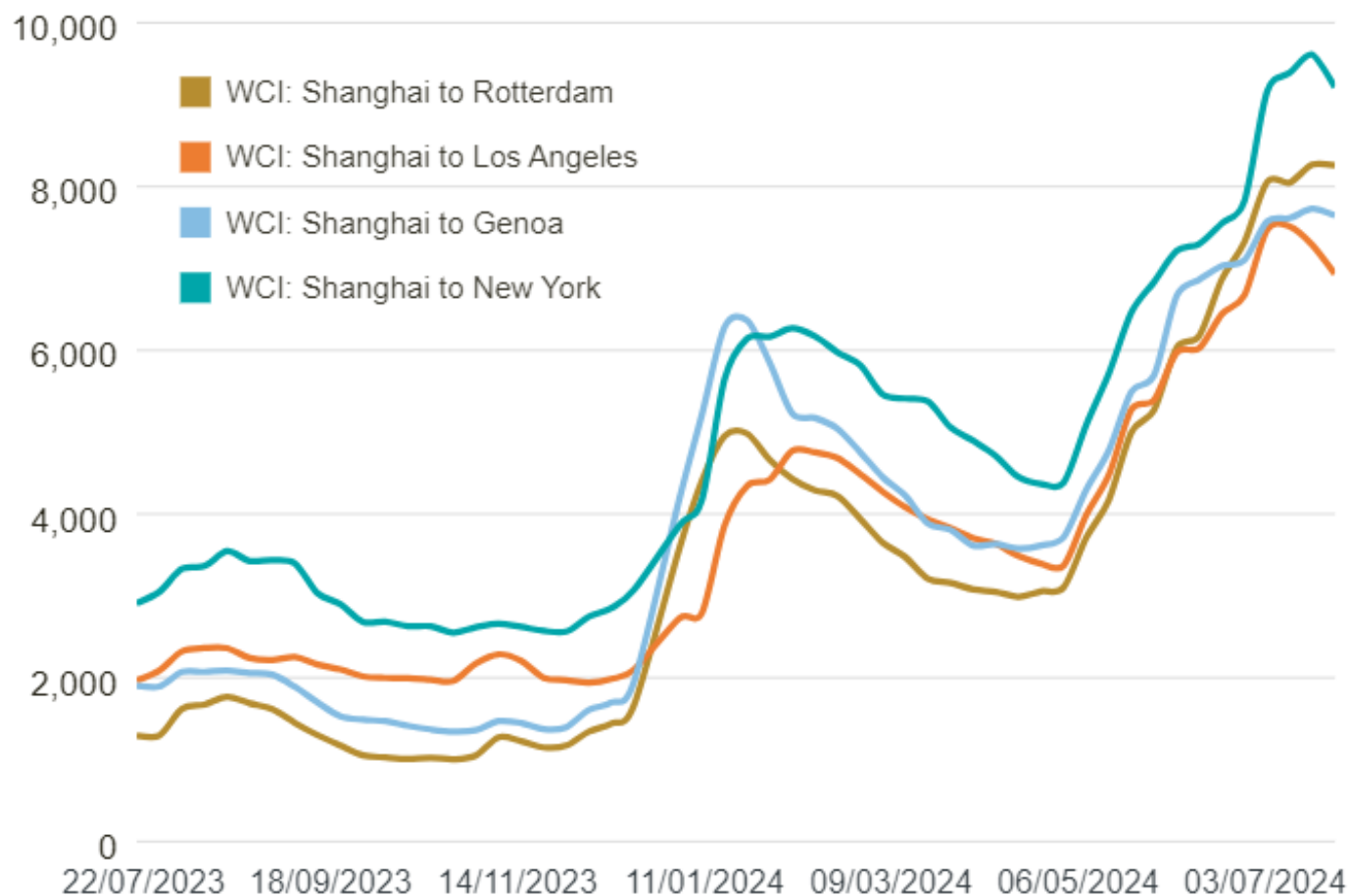
\*Twenty-foot equivalent units (TEUs) or 20-foot-long containers

# 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



MAERSK

Ocean Alliance



EVERGREEN



THE Alliance



YANG MING



Hapag-Lloyd

?



Future  
(so far)

Gemini Cooperation



Hapag-Lloyd



MAERSK

Ocean Alliance



EVERGREEN



?

THE Alliance



YANG MING



# Consumer Spending

## Consumer Spending

### Monthly

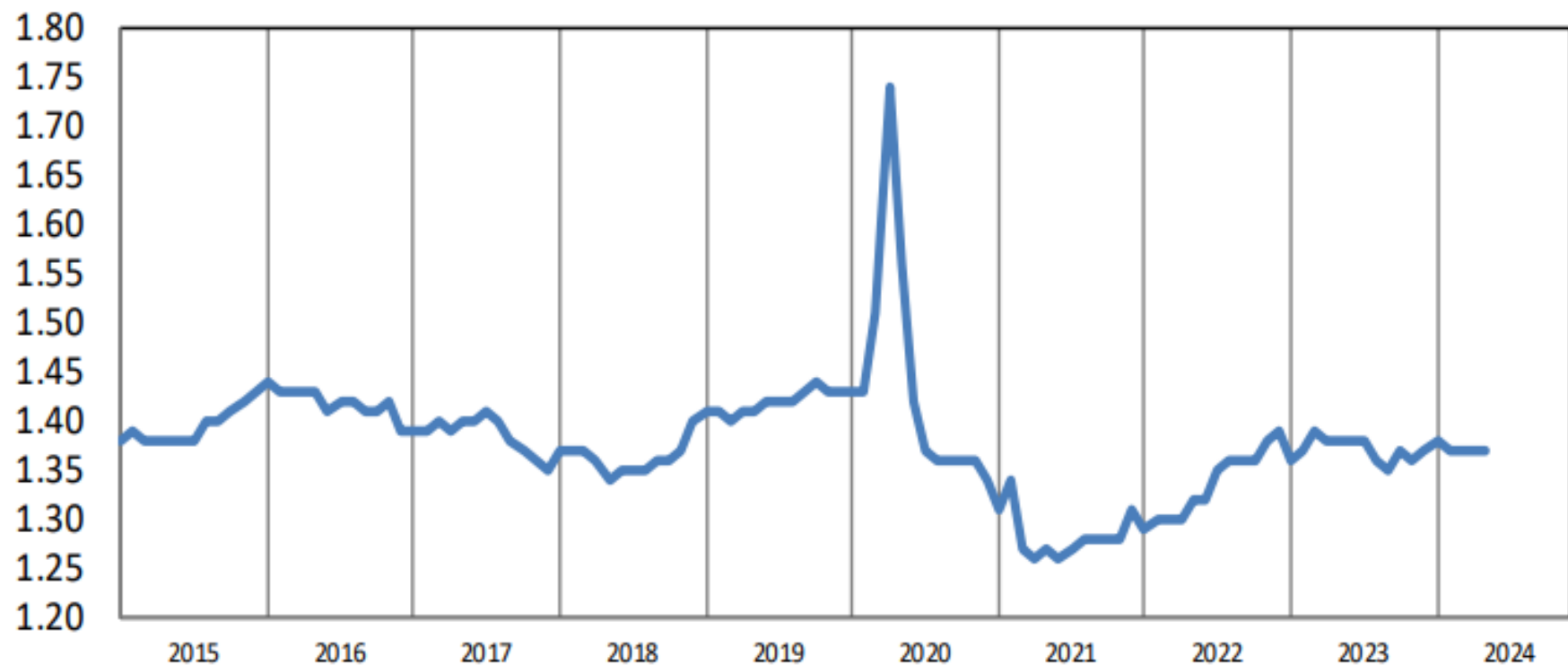
June 2024	+0.3%
May 2024	+0.4%
April 2024	+0.2%
March 2024	+0.7%

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 large port facility. In the foreground, there are several large, circular, metallic structures, possibly oil storage tanks. To the right, a large ship is docked at a pier, with many colorful shipping containers stacked on its deck. The middle ground is filled with hundreds of shipping containers stacked in neat rows on the ground. In the background, there are more port facilities, cranes, and a city skyline under a clear blue sky.

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









Increase Seaport Velocity

Increase Access for All

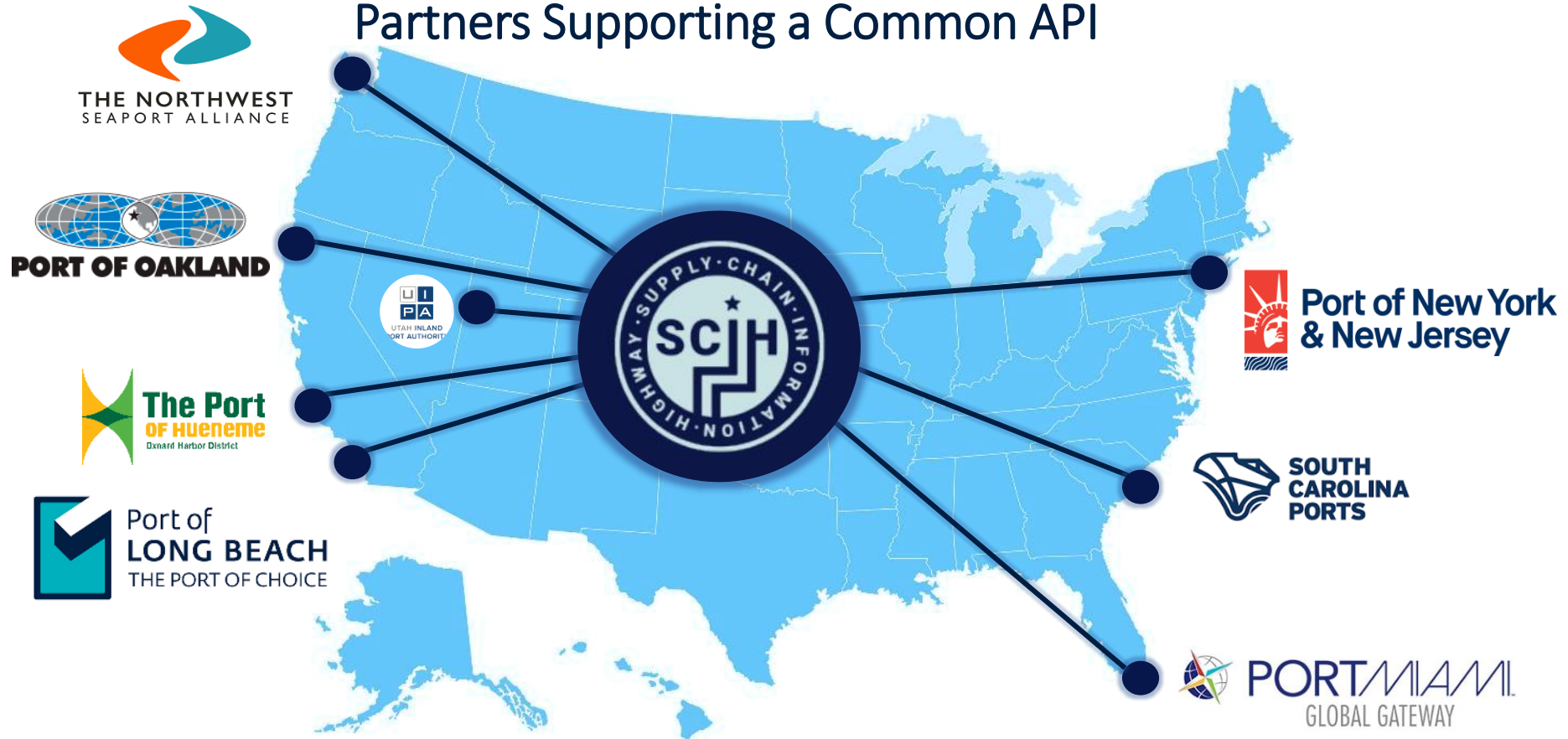
Increase Timeliness + Accuracy

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 prosperous future," said **California Transportation Secretary John Quirk**. "Through this critical funding and strong collaboration between California's

DIVE BRIEF

# Port of Long Beach supports push for single appointments system

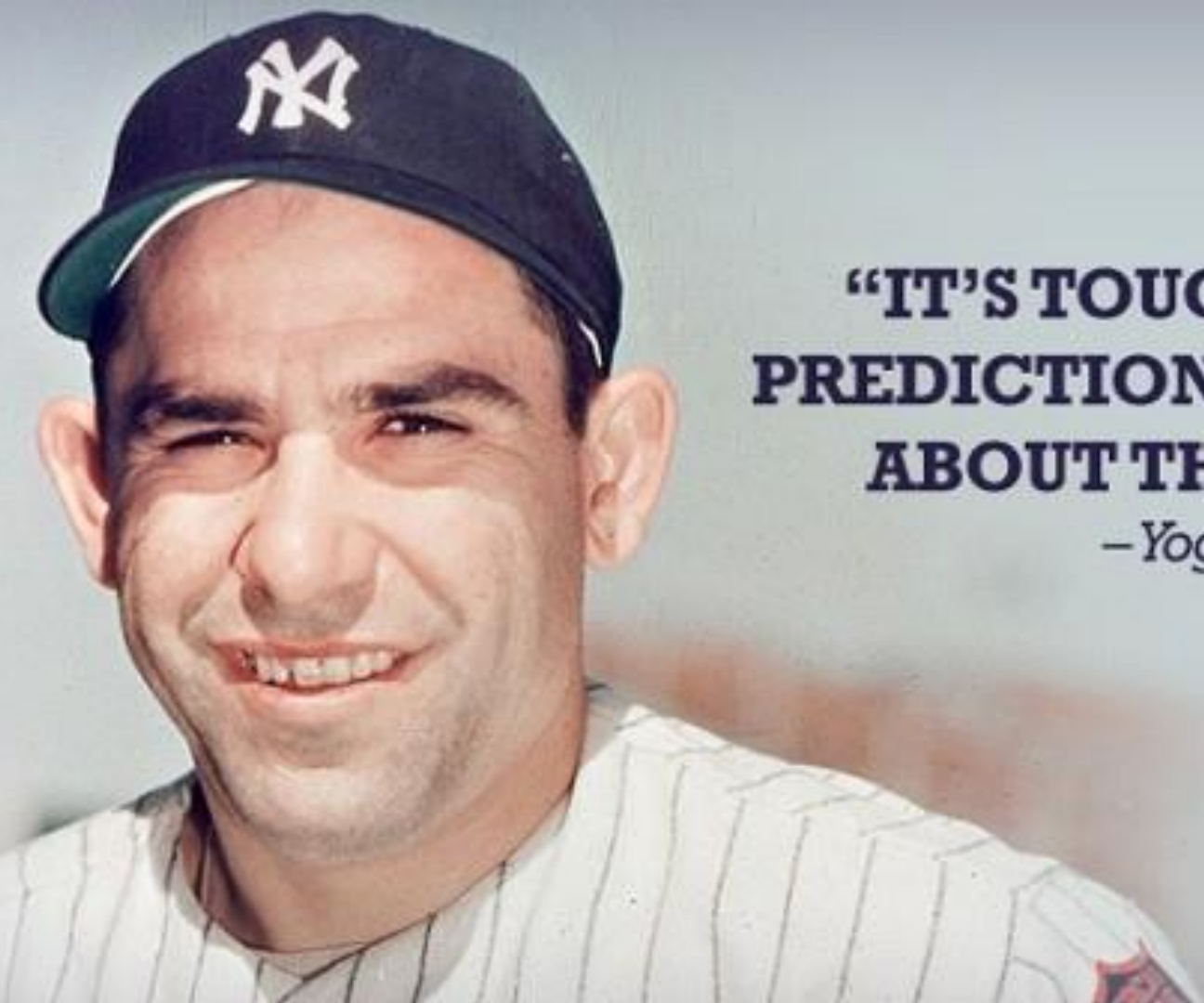
Published Feb. 9, 2023



[Colin Campbell](#)

Senior Reporter, Trucking Dive

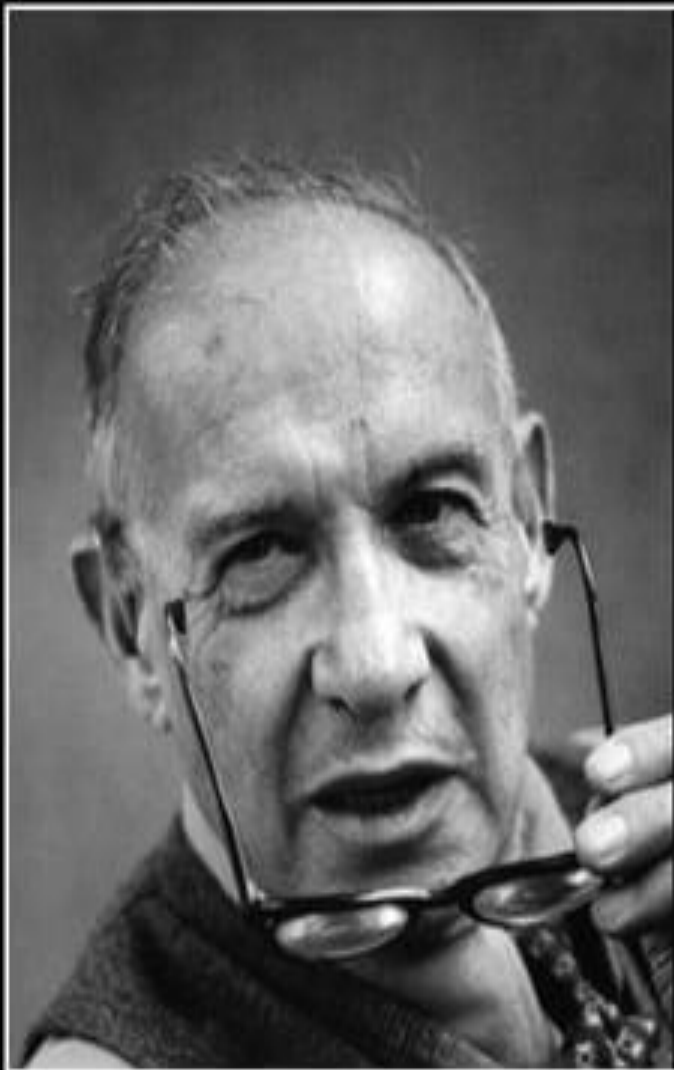




**“IT’S TOUGH TO MAKE  
PREDICTIONS, ESPECIALLY  
ABOUT THE FUTURE.”**

*—Yogi Berra*





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

— *Peter Drucker* —



# INFRASTRUCTURE

INVESTING IN PORTS AND WATERWAYS



# 2022-23 State Budget

\$2.3 Billion for goods movement  
and supply chain projects





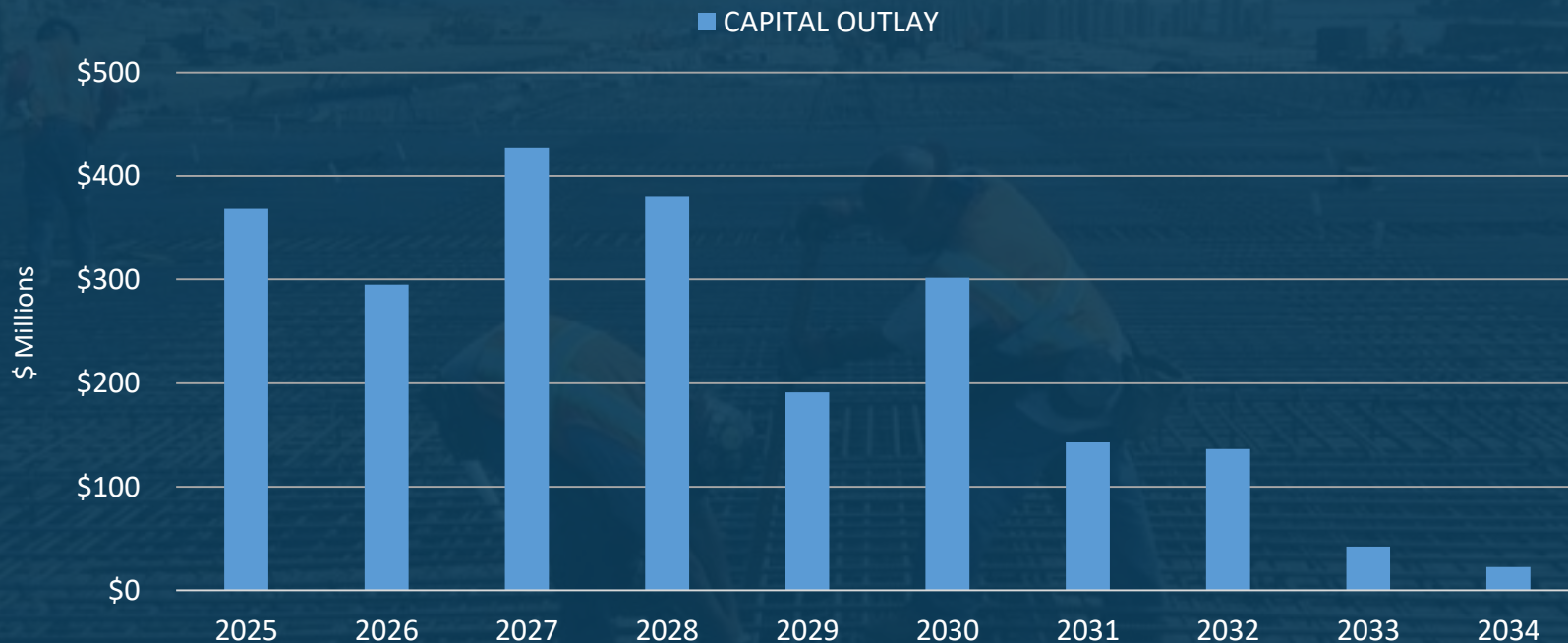
\$792,479,016 in GRANTS IN 2023 FOR POLB



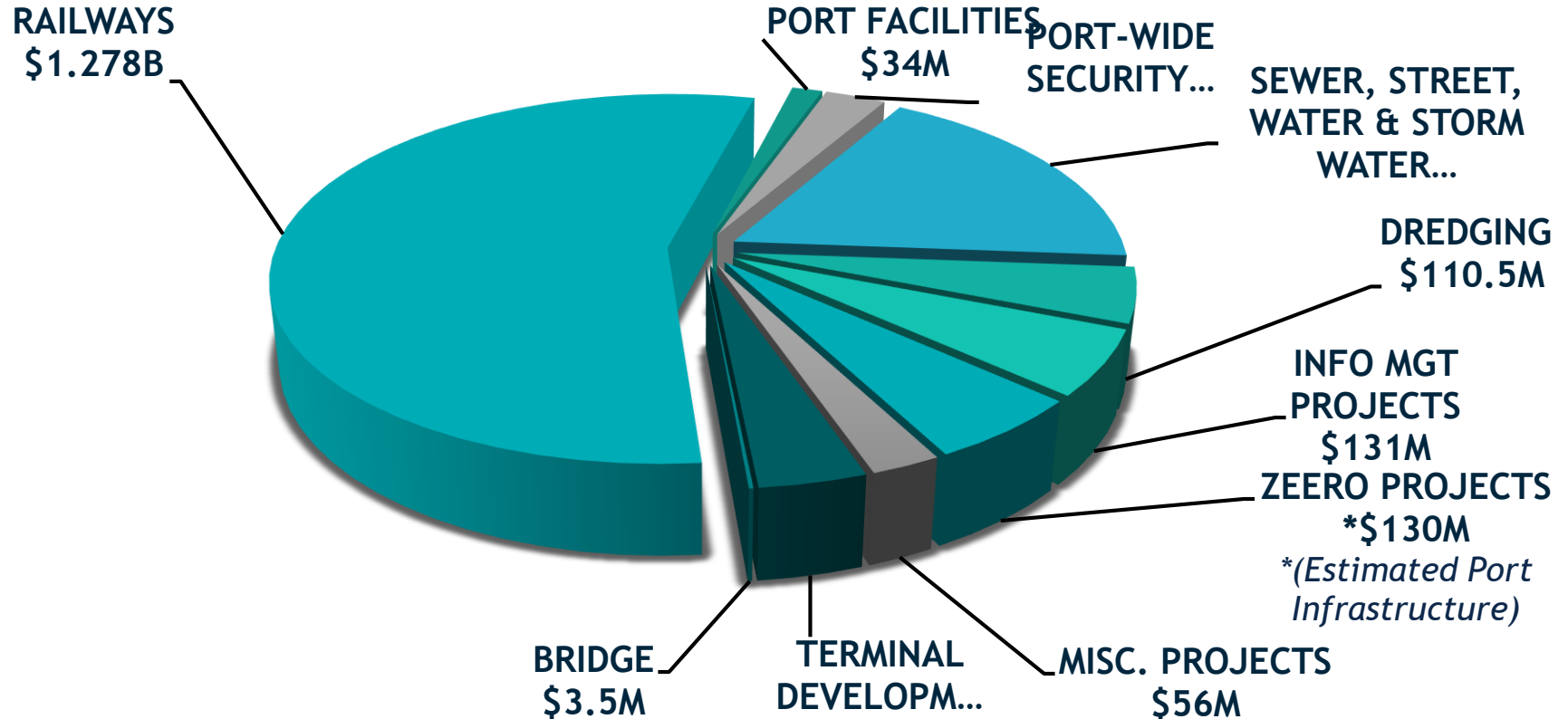
**2023 FUNDING INCLUDED:**

- \$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



# 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





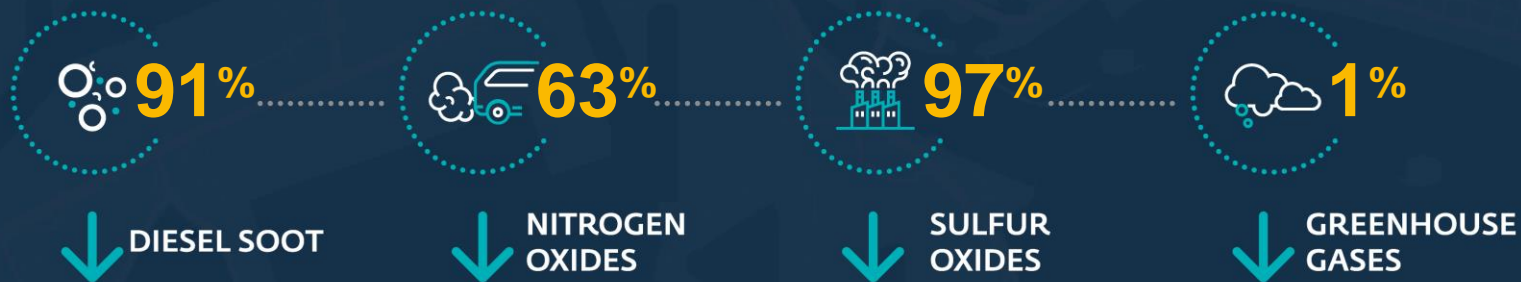
# **GREEN PORT POLICY**

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

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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

- **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*

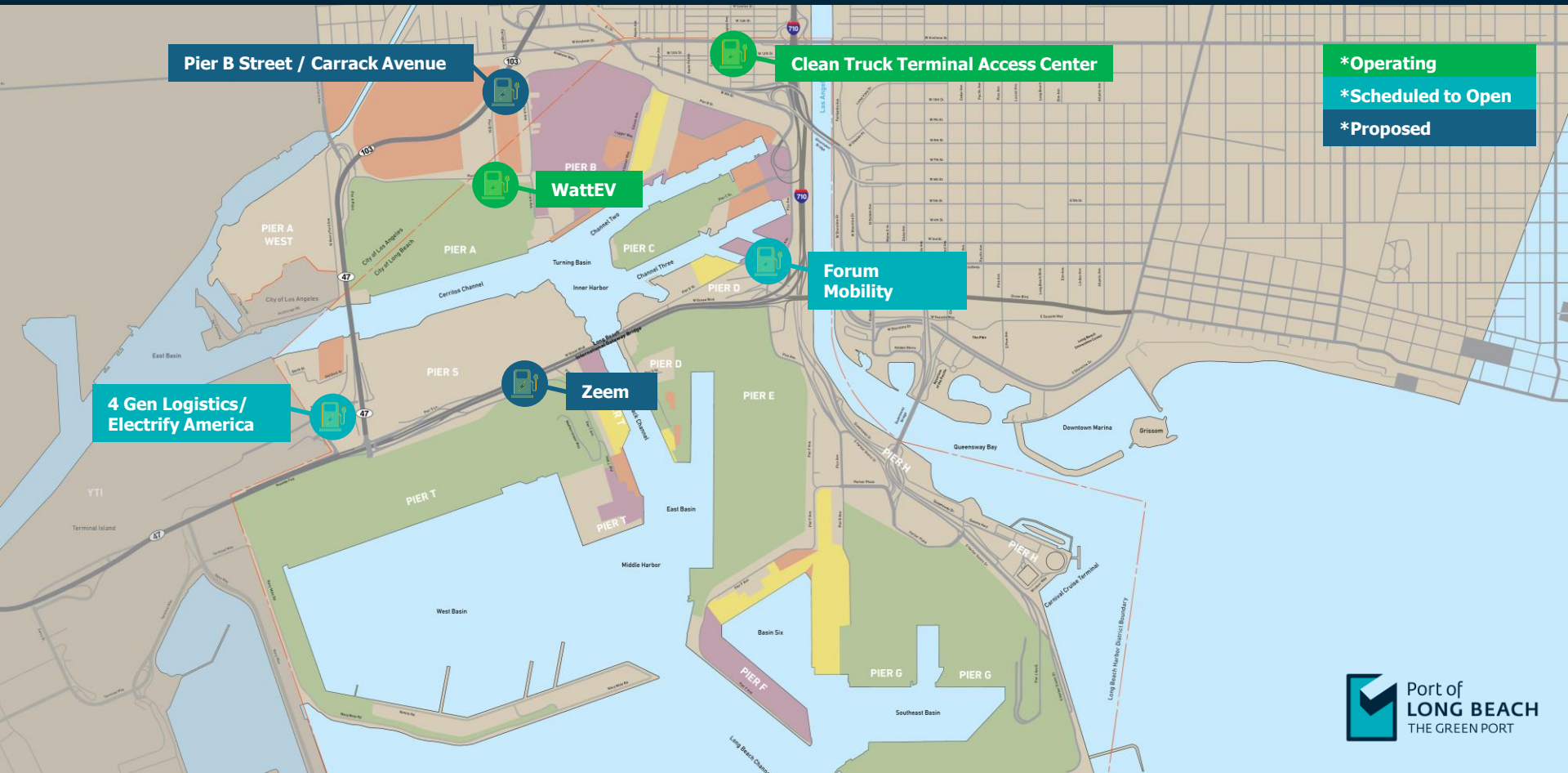


# DREAM WORK



# 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 SHIPOWNER IMAGE INITIATIVE

中国救捞系统首艘万吨级  
多功能深远海巡航救助拖船建成  
THE COMPLETION OF THE FIRST 10000-TON  
MULTIFUNCTIONAL OCEANOGRAPHIC RESCUE TUG  
OF CHINA RESCUE AND SALVAGE

中远海运汽车行业数字化供应链平台  
COSCO SHIPPING AUTOMOTIVE INDUSTRY DIGITAL SUPPLY CHAIN PLATFORM

中国东航长三角经济圈  
空地一体出行网络建设  
CHINA EASTERN AIRLINES AIR AND LAND INTEGRATED TRAVEL GRID  
DEVELOPMENT IN YANGTZE RIVER DELTA ECONOMIC CIRCLE

上海空运通平台  
ASPORT

国际集装箱运输服务平台(集运MaaS)  
THE INTERNATIONAL CONTAINER TRANSPORTATION SERVICE PLATFORM  
CONTAINER TRANSPORTATION MAAS

国际集装箱运输指数挂钩协议  
THE RATE AGREEMENT TEMPLATE LINKING  
WITH CONTAINER FREIGHT INDEX

波罗的海  
航运中心发展指数报告(十周年)  
BALTIC SHIPPING CENTRE DEVELOPMENT INDEX REPORT  
(10TH ANNIVERSARY)

上海港-洛杉矶港  
绿色航运走廊实施计划纲要  
IMPLEMENTATION PLAN OUTLINE FOR PORT OF LOS ANGELES-PORT OF SHANGHAI  
GREEN SHIPPING CORRIDOR

上海市交通委员会与新加坡海事及港务管理局  
建立海陆空合作备忘录  
MEMORANDUM OF UNDERSTANDING BETWEEN SHANGHAI MUNICIPAL TRANSPORTATION COMMISSION  
AND MARITIME AND PORT AUTHORITY OF SINGAPORE ON MARITIME COOPERATION

上海港与汉堡港  
签署关于继续加强友好港关系备忘录  
MEMORANDUM OF UNDERSTANDING BETWEEN PORT OF SHANGHAI AND PORT OF HAMBURG  
ON FURTHER STRENGTHENING THE SISTER-PORT RELATIONS

上海港与敦刻尔克港  
签署关于继续加强友好港关系备忘录  
MEMORANDUM OF UNDERSTANDING BETWEEN PORT OF SHANGHAI AND PORT OF DUNKERQUE  
ON FURTHER STRENGTHENING THE SISTER-PORT RELATIONS





# Progress Rail

*A Caterpillar Company*

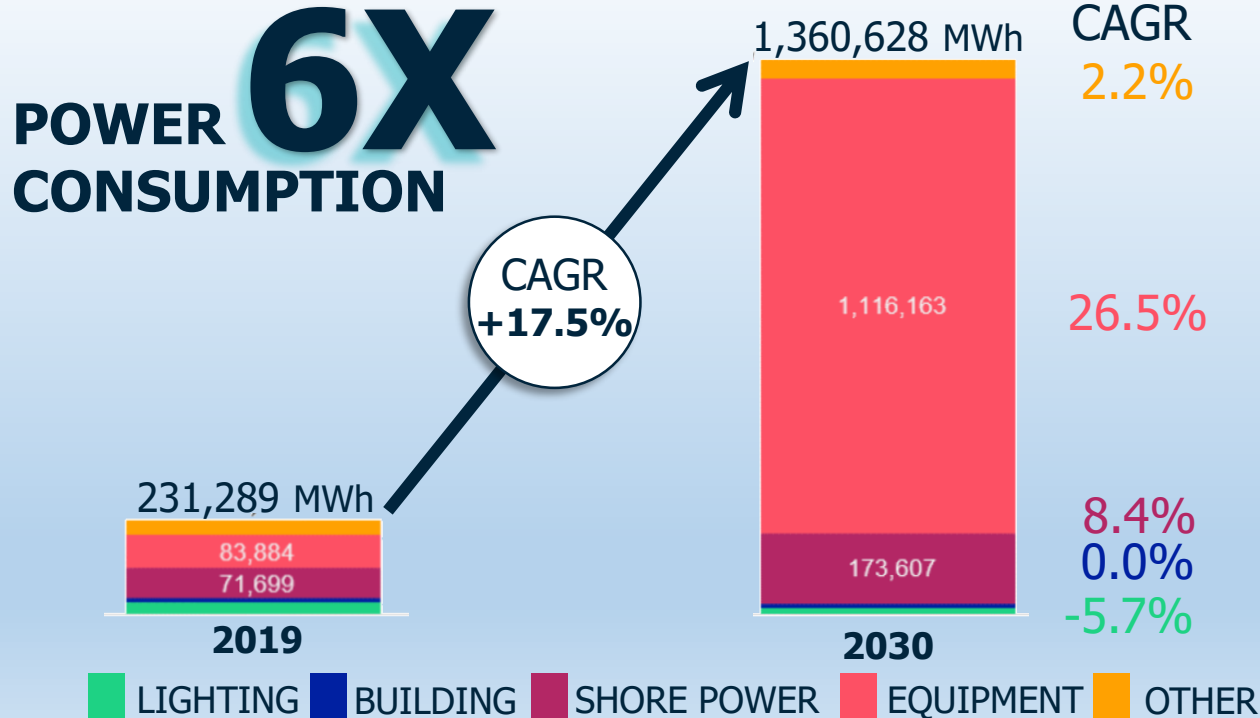


## Battery Electric: Pacific Harbor Line SD40JR

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



# CONSUMPTION WITH FULL ELECTRIFICATION



*Compound Annual Growth Rate (CAGR) from POLB Cargo Forecasts*



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**

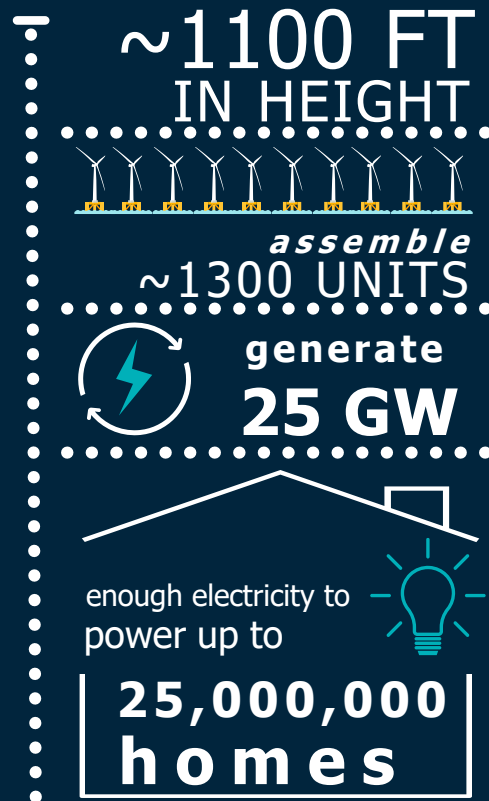
**1,000 FEET**



*Source: Pier Wind Vision*

# 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



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*



NACELLES



TOWERS



TRANSFER



# 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**