

SAN PEDRO BAY PORTS
CLEAN AIR ACTION PLAN

**San Pedro Bay Ports
2023 Accomplishments
& 2024 Priorities**

Teresa Pisano
Port of Los Angeles

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Port of Long Beach



Joint Ports' 2023 Accomplishments

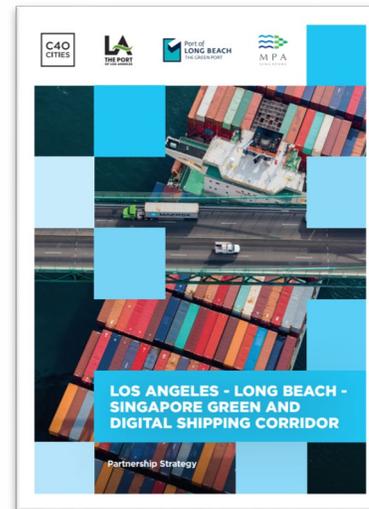
- ✓ Completed the 2021 Truck Feasibility Assessment
- ✓ Prepared and released each Port's respective:
 - Air Monitoring Report (2022)
 - Emissions Inventory (2022)
- ✓ Prepared and released the 2022 TAP Annual Report
- ✓ Approved 3 new TAP projects
- ✓ Progressed on development of zero-emission (ZE) infrastructure master plans for terminal equipment
- ✓ Continued to manage \$407 million in grant funded projects



Joint Ports' 2023 Accomplishments

Green Shipping Corridors

- ✓ Released the Maritime and Port Authority of Singapore, POLA, POLB Partnership Strategy for a Green and Digital Shipping Corridor
- ✓ Unveiled the POLA, POLB, and Port of Shanghai Implementation Plan Outline





Joint Ports' 2023 Accomplishments

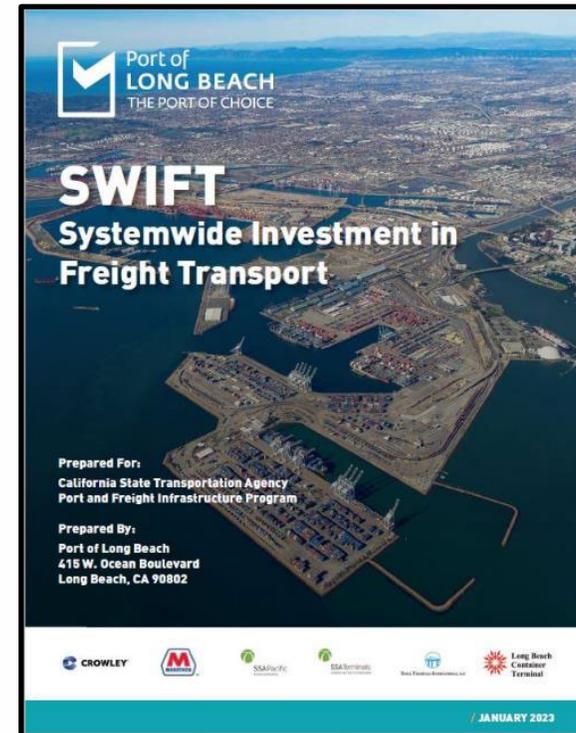
- ✓ Established Year 2 Spending Plans for Clean Truck Fund (CTF) Rate
- ✓ Collected \$73.2 million in CTF Rate dollars in 2023
- ✓ Allocated \$88 million in CTF Rate dollars to ZE truck equipment and infrastructure projects/programs
 - Launched the \$60 million Port Voucher Program in partnership with the California Air Resources Board (CARB) and CALSTART
 - Proposed funding \$14 million per Port for public charging infrastructure in partnership with the Mobile Source Air Pollution Reduction Review Committee
- ✓ Submitted a joint application to the FHWA for the Ports Truck Trip Transition Program (T3P)
- ✓ Partnered with the ARCHES Hydrogen Hubs Program (up to \$300 million to be made available to the SPBPs)



Port of Long Beach

Grants

- ✓ Secured \$224.9 million in CalSTA Port Freight and Infrastructure Program funds for air quality projects
 - Replacement of 63 pieces of fossil-fueled equipment with ZE
 - Development of three new funding programs for ZE cargo handling equipment, ZE locomotives, and clean harbor craft
 - Shore power demonstrations at three tanker terminals
 - ZE infrastructure master planning





Port of Long Beach

Grants (Continued)

- ✓ Completed the \$8.6 million California Energy Commission (CEC) ZE Terminal Equipment Transition Project
 - Demonstrated 8 battery-electric yard tractors and infrastructure at ITS (Pier G) and LBCT (Pier E)
 - Deployed 9 grid-tied eRTGs at SSA Pier J
 - Tested 4 plug-in hybrid electric trucks with TTSI



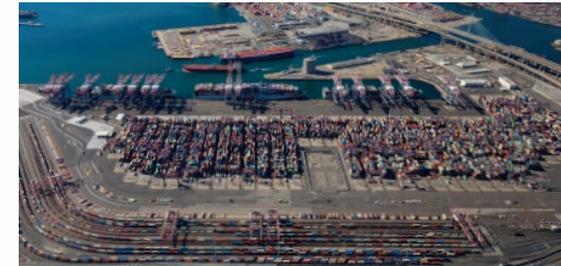


Port of Long Beach

Grants (Continued)

- ✓ Advanced contracting for the \$30.1 million U.S. Maritime Administration Port Infrastructure Development Program 2022 award to POLB for 60 ZE yard tractors and infrastructure at LBCT
 - Cleared NEPA
 - Developed Risk Register
 - Contracting expected to complete Q2 2024

- ✓ Held a grant workshop for Port tenants and harbor craft operators



Middle Harbor Terminal Zero Emission Conversion Project

Prepared for U.S. Department of Transportation
Office of the Secretary
Port Infrastructure Development Program
(PIDP) 2022

Submitted By
Port of Long Beach
415 W. Ocean Blvd., Long Beach, CA 90802 | 562-283-7100

May 16, 2022





Port of Long Beach

Other Initiatives

- ✓ Released a Public Truck Charging Request for Proposals for the Terminal Access Center
- ✓ Began development of a Clean Fuels White Paper
- ✓ Hosted trucker events in support of the CARB Advanced Clean Fleet Regulation
- ✓ Adopted the POLB Electric Vehicle Infrastructure Training Program Policy
- ✓ Contributed to the development of the Environmental Ship Index 2.0





Port of Los Angeles

- ✓ Distributed \$3 million for 10 trucks as part of the ZE 25 Truck Deployment Program
- ✓ POLA completed installation of new air monitoring equipment for all four monitoring stations
 - ✓ Held quarterly public meetings on air monitoring efforts
- ✓ Completed Everport Advanced Cargo Handling Equipment Project
- ✓ Completed Pasha Green Omni-Terminal Project
- ✓ Completed ZANZEFF Shore to Store Project
- ✓ Continued to implement major grant funded project
 - ✓ Advanced Infrastructure Demonstration
- ✓ Released the EPRI Zero Emission Planning and Grid Assessment Study



Port of Los Angeles

- ✓ Signed Memoranda of Understanding to collaborate on creation of Green Shipping Corridors and other sustainability initiatives
 - ✓ Guangzhou
 - ✓ Nagoya
 - ✓ Tokyo
 - ✓ Yokohama
 - ✓ Long Son Port
 - ✓ Nam Do Son Port
- ✓ Announced the first public depot charging infrastructure on POLA property
- ✓ Recognized 2 dozen shipping lines and carriers for participating in VSR program

An aerial photograph of a coastal city and harbor. The image shows a dense urban area on the left, a large harbor with numerous piers and ships in the center, and a large body of water on the right. The sky is blue with some clouds. A semi-transparent blue banner is overlaid across the middle of the image, containing the text "2024 Priorities" in white. The text is centered and reads "2024 Priorities".

2024 Priorities

Truck Priorities

- Continue to implement CTF Rate Programs and monitor spending
 - Ports Voucher incentive
 - Execute contract with MSRC/AQMD to fund public access charging
- POLB to execute a contract for additional public chargers at the Terminal Access Center and release a public charging solicitation for 1 additional site
- POLA to execute a contract for public charging in Wilmington
- Continue truck demonstration projects
- Begin Drayage Truck 2024 Feasibility Assessment
- Monitor/provide input on State Drayage Truck Regulations

CHE Priorities

- Continue zero emission infrastructure master planning efforts
- Continue implementing CHE demonstration & deployments
- Pursue additional grant funding for ZE CHE deployments, including EPA Clean Ports
- Begin 2024 CHE Feasibility Assessment
- POLB to develop the Zero Emission Terminal Transformation Program
- POLA to develop and publish Zero Emission Terminal Transition Plan

OGV Priorities

- Support implementation of at berth terminal plans
- Progress development and implementation of Green Shipping Corridors
- Continue to implement OGV demonstration projects
- Pursue additional grant funding to reduce emissions from vessels, including EPA Clean Ports
- POLB to execute CalSTA agreements for ship-to-shore power projects
- POLA to release bid opportunity for At Berth Control for RoRo and Tanker vessels

Harbor Craft

- Support implementation of CARB Commercial Harbor Craft Rule
- Continue to oversee harbor craft demonstration projects
- POLA pending application to CARB for Tier IV ferry and ZE tour boats
- POLB to develop Harbor Craft Business Continuity and Emission Reduction Program



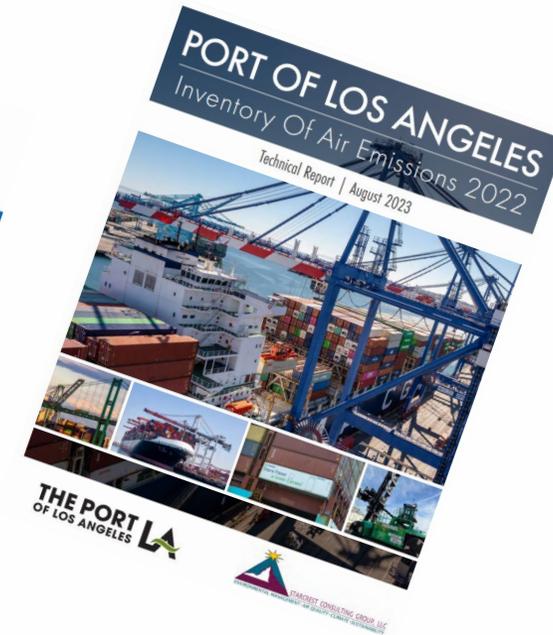
Locomotives

- Continue implementing ZE locomotive demonstration under TAP
- Monitor CARB Locomotive In-Use Rule Implementation
- Pursue additional grant funding for ZE Locomotive deployments
- POLB to develop ZE Locomotive Demonstration Program
- POLA to continue EPA DERA grant to implement ZE Switcher Locomotive Project with Union Pacific



Emission Inventories and Air Monitoring

- 2023 Emissions Inventories
 - [Air - Port of Long Beach \(polb.com\)](http://polb.com)
 - [Air Emissions Inventory | Air Quality | Port of Los Angeles](#)
- 2023 Air Monitoring Reports
 - [Clean Air Action Plan Reports - San Pedro Bay Ports Clean Air Action Plan](#)





Grants

- Monitor local, state, and federal funding opportunities to support the CAAP
- Noteworthy programs for consideration:
 - EPA Clean Ports Program
 - EPA Climate Pollution Reduction Grant Program
 - EPA Diesel Emission Reduction Act (DERA)
 - MARAD Port Infrastructure Development Program
 - SCAQMD Carl Moyer Program
 - CEC Clean Transportation Program
 - FHWA Reduction of Truck Emissions at Port Facilities Program
 - FHWA Charging and Fueling Infrastructure Program

An aerial photograph of a large harbor area, likely Seattle, showing a dense city grid, a large marina filled with boats, and a deep blue body of water. A semi-transparent blue rectangular box is centered over the image, containing the text "Thank you!" in white, bold, sans-serif font. The background shows a mix of urban development, industrial areas, and green spaces, with mountains visible in the distance under a blue sky with light clouds.

Thank you!



SAN PEDRO BAY PORTS CLEAN AIR ACTION PLAN

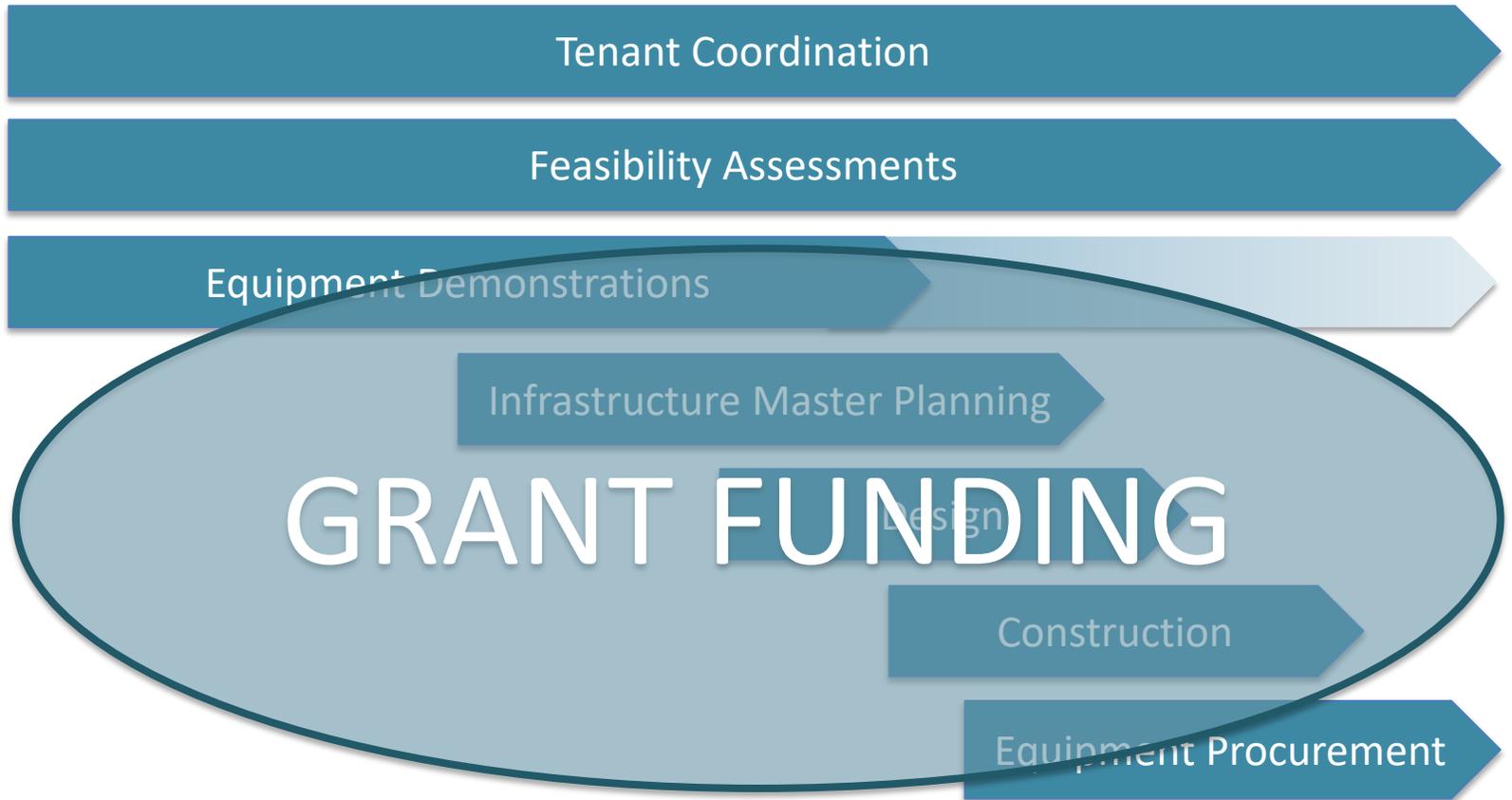
Status Update on Current and Future Grants

Jacob Goldberg
Port of Los Angeles



Transition Pathway to Zero Emissions

2017 CAAP Update Goal: ZE CHE by 2030



Zero Emission Terminal Operations



ZE Equipment Demonstrations

More than **\$407 Million** in grant funding has been secured by the ports to implement zero-emission demonstrations, which includes clean technology projects, infrastructure and related workforce development.

Additional funding from the Ports for demonstrations through the Technology Advancement Program.



Grant Advocacy and Strategy

Ports will be seeking **>\$2 Billion**
in grant funding from local, state, and federal
sources to implement additional zero emission
deployment projects in pursuit of the 2030 Goal in
the CAAP

Terminals are actively applying to funding programs directly as well



Major Upcoming Grant Opportunities

- EPA Climate Pollution Reduction Grant (CPRG)
 - Regional program, focused on GHG emissions reductions
 - SCAQMD leading application for Southern California Goods Movement
- MARAD Port Infrastructure Development Program (PIDP)
 - Annual program, variety of port activity eligible for funding
 - Applications due May 10th
- EPA Clean Ports Program
 - Applications due May 28th



EPA Clean Ports Program (cont.)

- Major Elements:
 - Maximum Award: \$500 Million
 - 4 year project
 - Ports can apply in partnership with private entities
- Each Port plans to apply
 - Coordinated narrative
- Minimum 20% cost share from non-federal sources



Clean Ports Program – Full Details

Activities eligible for funding:

- Zero Emissions Mobile Equipment
 - Cargo Handling Equipment, Drayage Trucks, Locomotives, Harbor Craft
- ZE Infrastructure
 - Must directly serve equipment purchased as part of this program
 - Shore Power projects
- Project support activities/administration costs



Clean Ports Program – Full Details (cont.)

- Non-equipment cost cap increased to 50%
 - Still restricted to customer-side of the meter costs
- “Countries of Concern” ineligible
- Build America, Buy America applicability unclear
- Public outreach/engagement throughout project



Multi-Agency Collaborative Approach

Revised Approach

- The Ports and SCAQMD will continue to work together to secure Federal funding for the region through three or more separate, but complementary applications

San Pedro Bay Ports

- Prioritizing terminal/vessel projects including cargo handling equipment, ship-to-shore power, harbor craft, and infrastructure
- Applying to EPA Clean Ports and MARAD PIDP

AQMD

- Prioritizing goods movement projects including mobile sources operating throughout the South Coast region, including trucks, locomotives, off-road equipment, and infrastructure
- Applying to EPA CPRG



Stakeholder Engagement

Engagement to Date

The Ports have already engaged numerous stakeholders on the project priorities for our near-term grant applications, and have provided input to AQMD's EPA CPRG application:

- Direct outreach to Port tenants regarding the available funding opportunities
- November 8, 2023 CAAP Stakeholder meeting
- Monthly environmental and community group meetings
- 9 EPA CPRG Goods Movement working group meetings
- Regular coordination meetings with AQMD
- January 24, 2024 Sustainable Supply Chain Advisory Committee Meeting



Stakeholder Engagement (Continued)

Planned Engagement

- March 18, 2024 CAAP Stakeholder Meeting
- Monthly environmental and community group meetings
- Regular coordination with AQMD
- March 21, 2024 Hydrogen Meeting with agencies, industry experts and community and environmental organizations (invite only)
- April 24, 2024 Sustainable Supply Chain Advisory Committee Meeting
- Targeted engagement with local residents

Targeted Questions for Discussion Today

We have heard feedback from key stakeholders, but continue to seek input on the following questions:

- How should we engage Port stakeholders prior to grant application submission?
- How should we engage with Port stakeholders throughout the project life?



Contact Information

- POLA

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- POLB

Rose Szoke, Senior Environmental Specialist

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An aerial photograph of a large harbor area, likely Seattle, showing a dense city grid, a large marina filled with boats, and a deep-water port with several large cargo ships docked. The water is a deep blue, and the sky is clear with some light clouds. A semi-transparent blue rectangular box is centered over the image, containing the text "Thank you!" in white, bold, sans-serif font. The bottom of the image has a solid teal-colored bar.

Thank you!