

# Heavy-Duty Truck Transition Plan

**November 9, 2021**

Agenda Item 17

File #2021-0379



# Recommended Action

**PRESENTATION AND ADDITIONAL DIRECTION TO STAFF ON THE MARITIME CLEAN AIR STRATEGY'S HEAVY-DUTY TRUCK TRANSITION PLAN INCLUDING:**

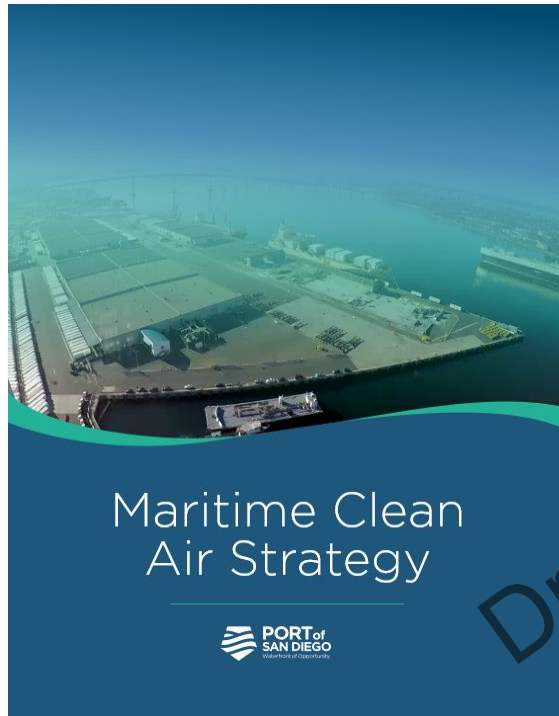
- A. PREPARATION OF A ZERO EMISSIONS HEAVY-DUTY TRUCK TRANSITION PLAN WITH A CONSULTANT TO SERVE AS A ROADMAP TO ACHIEVE THE BOARD APPROVED MARITIME CLEAN AIR STRATEGY'S ZERO EMISSION TRUCK GOALS AND BENCHMARKS, INCLUDING 40 PERCENT ZERO EMISSION TRUCK TRIPS IN 2026 AND 100 PERCENT ZERO EMISSION TRUCK TRIPS IN 2030;**
- B. REQUEST TO EXPAND THE SCOPE OF THE HEAVY-DUTY TRUCK TRANSITION PLAN TO IDENTIFY AND ANALYZE MULTIPLE PATHWAYS, INCLUDING A COMBINATION OF ZERO AND NEAR-ZERO EMISSION TRUCK TRIPS TO ACHIEVE EQUIVALENT EMISSIONS REDUCTION BY 2026; AND**
- C. REQUEST FOR ADDITIONAL TIME TO ADEQUATELY SCOPE AND COMPLETE A HEAVY-DUTY TRUCK TRANSITION PLAN WITH A CONSULTANT.**

# Maritime Clean Air Strategy

## Vision Statement: Health Equity for All

By June 30, 2026 (End of FY26)

By 2030 (End of CY30)



### Near-term Goals and Objectives



Public Health



Community Enrichment



Cargo Handling Equipment



Harbor Craft



Heavy Duty Trucks



Port Fleet



Shipyards



Ocean-going Vessels



Rail



Enabling

### Long-term Goals



# Heavy-Duty Truck Goals and Objectives



Heavy-Duty  
Trucks

- ❖ 40% Zero Emission Truck Trips by June 30, 2026
- ❖ 100% Zero Emission Truck Trips by the end of 2030
- ❖ Truck Objective 1B: Develop Short Haul Zero Emission Truck Program by the end of 2022
- ❖ Truck Objective 1D: Creation of a Truck Registry to track zero emission truck implementation by June 30, 2023
- ❖ Truck Objective 2B Identification of four locations for zero emission truck charging by the end of 2022

# Initial Development of the Heavy-Duty Truck Transition Plan

- ❖ Reviewed existing heavy-duty zero emission truck transition plans
- ❖ Evaluated existing and future data needs
- ❖ Assessed emission reduction potential
- ❖ Discussed with qualified consultants





# Recommended Tasks and Deliverables

Items	Schedule
Initiate task authorization for on-call consultant for ZE heavy-duty transition plan	November 2021
Begin data collection from multiple sources, such as customer interactions and discussions, surveys, interviews, and automated/technology options that collect and/or aggregate truck data, including: <ul style="list-style-type: none"><li>• Unique trucks and frequency of visits</li><li>• Make and model</li><li>• Truck type (tractor trailer, PTO, unibody, etc.)</li><li>• Engine year</li><li>• Fuel type</li><li>• Total mileage (odometer)</li><li>• Operating characteristics</li></ul>	December 2021

Draft Presentation - Subject to Change

# Recommended Tasks and Deliverables

Items	Schedule
<p>Status update on Truck Data Collection</p> <ul style="list-style-type: none"> <li>Identify any additional funding needed to complete transition plan</li> </ul> <p>Compilation of all foreseeable tasks and timelines:</p> <ul style="list-style-type: none"> <li>Short-Haul Zero Emission Program (Truck Objective 1B)</li> <li>Truck Registry and Inventory (Truck Objective 1D)</li> <li>Charging infrastructure locations (Truck Objective 2A)</li> </ul>	<p>November 2021 to January 2022</p> <p><b>BPC Presentation January 2022</b></p>
<p>Provide status update on truck data collection to Board</p> <p>Preliminary report and framework that recommends assumptions and methods to forecast truck turnover</p> <p>Preliminary pathway(s) to reach 40 percent ZE truck trips by 2026 and 100 percent ZE truck trips by 2030</p>	<p>January to March 2022</p> <p><b>BPC Presentation March 2022</b></p>

# Recommended Tasks and Deliverables

Items	Schedule
<p>Finalize pathways to reach 40 percent ZE truck trips by 2026 pathway and 100 percent ZE truck trips by 2030</p> <p>Evaluation of alternative pathways to reach 100 percent ZE truck trips by 2030, including</p> <ul style="list-style-type: none"> <li>• Reference Scenario -CARB Regulations without MCAS</li> <li>• Alternative Scenario – Equivalent or better DPM reductions by 2026 with ZE and NZE Trucks</li> </ul> <p>Recommend siting criteria for ZE truck charging</p>	March to April 2022
Develop Preliminary Recommendations to Advance Implementation	April to May 2022
	May 2022
Finalize Recommendation in Heavy Duty Zero Emission Truck Transition Plan	<b>BPC Presentation June 2022</b>



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**PORT of  
SAN DIEGO**  
Waterfront of Opportunity