



# Draft Seaport Air Quality 2020 and Beyond Plan

Task Force Meeting #4  
September 26, 2018



## Presentation Overview

- Plan Development Process: Draft to Final
- *Draft Seaport Air Quality 2020 and Beyond Plan (Draft Plan) Comments and Responses*
- Seaport Electrical Infrastructure Study (Update)
- Projects Underway (Update)
- Next Steps

# 2020 and Beyond

## Plan Development Process

Draft Plan Development  
Dec. 2017-June 2018

### Task Force Meetings

- #1 February 23, 2018: Reconvening
- #2: May 9, 2018: Draft Plan Blueprint
- #3: June 21, 2018: Draft Plan Policy Issues

### Draft Plan

- June 29, 2018: *Draft Seaport Air Quality 2020 and Beyond Plan (Draft Plan)* posted online.
- July 12, 2018: Presentation to the Board and Public.
- June 29 to August 31, 2018: Public Review and Comment Period

Draft to Final  
July 2018-Spring 2019

### Appendices

- Workforce Development
- Cost Assessment
- Resources Analysis
- Public Engagement Plan

### Task Force Meetings

- #4: Sept. 26, 2018: Comments and Responses; Industry Roundtable
- #5: Date to be determined.

### Revised Draft Plan

- Response to Comments, Appendices, Revised Draft Plan; Public Review and Comment Period

### Final Plan

Presentation to Board and Public

September 26, 2018 Task Force Meeting

Implementation

### Phases

- Near-Term (2018-2023)
- Intermediate-Term (2023-2030)
- Longer-Term (2030-2050)

### Stakeholder Engagement

Public Engagement Plan

### Plan Update

Year 2023

Draft Seaport Air Quality Plan



### ***Draft Plan: Outreach***

- *Draft Plan* posted online: June 29, 2018
- *Draft Plan* circulated to seven local libraries (Oakland, Alameda and Emeryville)
- *Draft Plan* Comment Period: June 29, 2018 through August 31, 2018
- Phone and Email Outreach: June 27, 2018 and throughout comment period
- Comment deadline August 31, 2018 announced: July 27, 2018

## *Draft Plan: Written Comments*

- DockTime (e-mail)
- CenterPoint (e-mail)
- Alameda County Public Health Department
- American Trucking Association (ATA), California Trucking Association (CTA), and Harbor Trucking Association (HTA) – combined
- Bay Area Air Quality Management District (BAAQMD)
- Bay Planning Coalition (BPC)
- California Air Resources Board (CARB)
- Clean Energy
- Environmental Defense Fund (EDF)
- Goldman School of Public Policy, UC Berkeley
- Pacific Merchant Shipping Association (PMSA)
- SSA Terminals
- EARTHJUSTICE on behalf of West Oakland Environmental Indicators Project (WOEIP)
- Western States Trucking Association (WSTA)

**Copies of letters and emails available online:**

<https://www.portofoakland.com/community/environmental-stewardship/maritime-air-quality-improvement-plan/>

## Draft Plan Comments Management



Received



Posted Online



Meeting Discussions



Read



Organized



Continued Engagement

## Comments: Categories (General)

- Near-Zero or Zero Emissions
- Targets and Goals
- Community Health Risk/AB 617
- Commercial Availability of Technology
- Financial Feasibility and Funding
- Stakeholder Engagement
- Document Review

## Policy Issue #1: Vision - Near-Zero or Zero Emissions?

### *Draft Plan:*

- Sets an ambitious and bold vision: a Zero-Emissions Seaport.
- Builds in concept of incremental change; “pathway to zero-emissions.”

### **Comments:**

- Overall support for the “pathway to zero-emissions.”
- “Ambitious”; “exemplifies Port’s leadership”; “forward-looking.”

**Potential Response:** Maintain current “pathway to zero-emissions” vision.



# 2020 and Beyond

## Policy Issue #2: Targets and Goals

### ***Draft Plan:***

- Continues reductions of diesel particulate matter (DPM); adds greenhouse gas (GHG) reductions.
- Includes near-term action plan (NTAP) for years 2018-2023.

### **Comments:**

- Lacks “commitment” – emphasizes studies and planning.
- Lacks specific, measurable goals.

**Potential Response:** Enhance NTAP with programmed (time-bound) actions.

- *Examples: 13 hybrid electric RTGs at OICT; 10 electric drayage trucks; electric charging infrastructure; Freight Intelligent Transportation System (FITS); etc.*

# 2020 and Beyond

## Policy Issue #3: Community Health Risk/AB 617

### ***Draft Plan:***

- Looks to CARB and the Alameda County Public Health to assess health risk.

### **Comments:**

- Include community health risk to screen implementing actions (IAs).
- Align *2020 and Beyond Plan* with AB617 plan.
- Include 2009 BAAQMD Truck Survey contribution to community health risk.

**Potential Responses:** Focused on ZE cargo handling equipment (CHE) and short haul trucks to reduce community health risk; Port staff is participating in AB617 planning process; include findings of 2009 Truck Survey in *Final Plan*.

# 2020 and Beyond

## Policy Issue #4: Commercial Availability of Technology

### *Draft Plan:*

- Maritime-specific challenges.
- Current electric ZE technology has limited operating range/duration/power.

### **Comments:**

- ZE technology is not commercially available.
- ZE technology is more advanced than portrayed.

**Potential Response:** Commercial availability directly linked to financial feasibility; Port grant-funded projects for NZE and ZE technology—Moyer and Zero and Near-Zero Emissions and Freight Facilities (ZANZEFF)--to assess operational feasibility; identify on-road drayage truck technologies.

## Policy Issue #5: Financial Feasibility and Funding

### *Draft Plan:*

- Relies on multiples sources of funding including external grants and incentives.
- Port financial contribution related to business growth and operating revenues.

### **Comments:**

- Plan is cost-prohibitive.
- Financial strategy required.
- Maximize grant funding and incentives.

**Potential Response:** Cost and resource studies underway; Port leveraging grants — Carl Moyer and ZANZEFF— to support ZE pathway.

## Policy Issue #6: Stakeholder Engagement

### *Draft Plan:*

- Stakeholder engagement throughout Plan development and implementation.

### **Comments:**

- What role will stakeholders play in selecting new actions and projects?

**Potential Response:** Port preparing a Public Engagement Plan (PEP); potential Technical Advisory Committee to screen Implementing Actions (IAs); involve industry partners in screening process.

# 2020 and Beyond

## Policy Issue #7: Document Review (Appendices, Responses and Final Plan)

### ***Draft Plan:***

- Workforce Development, Cost Analysis, Port Resource Analysis not yet available.

### **Comments:**

- Request review of Response to Comments, Appendices, and revised *Draft Plan* prior to *Final Plan*.

**Potential Response:** Provide Response to Comments, Appendices, and revised *Draft Plan* prior to *Final Plan presentation to the Board and public*.

# 2020 and Beyond

## ***Getting Started (Projects Underway)***

### **Shore Power**

- Jan.-July 2018: 74% Successful Vessel Plug-In
- Criteria pollutants reduced in 2017: -600 tons per year (tpy).
- CO2e (carbon dioxide equivalents) reduced in 2017: -21,800 tpy.

### **Moyer Grant (June 2018: Contract executed)**

- 13 Hybrid RTG Cranes.
- Criteria pollutants: -45 tpy.
- CO2e: -1,200 tpy.

### **FITS Project with Alameda County Transportation Commission (underway)**

- Transportation Management Center
- Radio-Frequency Identification (RFID) Readers
- Advance Traffic Management System-Phase I
- System Integration and GoPorts Application

### **(ZANZEFF) Grant (Sept. 2018: Pending Award)**

- 10 zero-emissions Class 8 drayage trucks and 10 chargers.
- 5 zero-emissions yard trucks
- 1 zero-emissions top handler.
- Related electrical infrastructure.
- Criteria pollutants: -8 tpy.
- CO2e: -940 tpy.

### **South Coast Air Quality Management District**

- 10 ZE electric BYD Trucks to arrive at the Port in Spring 2019.

### **Port Fleet (Sept. 2018)**

- Received first zero-emissions electric van (9-12 passengers.)

### **7th Street Grade Separation (underway)**

### **Seaport Electrical Infrastructure Study (Sept. 2018)**

## Seaport Electrical Infrastructure Study

### Scope of Study

- Existing system loads; existing distribution system model; and system needs of future developments.
- Terminal cargo handling equipment electrification needs.
- Distribution system capacity and upgrade requirements.
- Port transmission system capacity and upgrade requirements.
- PG&E transmission system capacity.

### Target Completion Date

- Spring 2019



# 2020 and Beyond

## Next Steps

Actions	Date
Appendices: Cost Estimate, Resources Analysis, Workforce Assessment, and Public Engagement Plan.	July 1, 2018- Nov. 30, 2018
<i>Seaport Air Quality Plan</i> Task Force Meeting #4.	Wed., Sept. 26, 2018
Response to Comments, Appendices, and revised <i>Draft Plan</i> available.	Dec. 2018
Public Review and Comment Period	Dec. 2018-Jan. 2019
<i>Seaport Air Quality Plan</i> Task Force Meeting #5.	TBD
Present <i>Final Seaport Air Quality 2020 and Beyond Plan</i> to Board and public at Board Meeting.	Spring 2019