

**Maritime Air Quality Improvement Plan (“MAQIP”)
Task Force Meeting #2
May 9, 2018
Briefing: “2020 and Beyond Plan” Towards a “Blueprint”**



**PORT OF OAKLAND
SEAPORT**

“2020 and Beyond” – The Evolution of Freight Movement



Tandem Freight Wagon

Diesel Trucks - currently
2007 or 2010 MY engines

Zero Emission

- Electric?
- Catenary System?
- Hydrogen?



Natural gas



Infrastructure
Needs?
Costs?



2020 AND BEYOND: Planning Factors

- Air quality regulations
 - Existing regulations: compliance (“At-berth rule”, etc.)
 - Amendments to existing regulations; new rule-making possible
- Policy: State greenhouse gas targets (Governor’s Executive Orders)
 - Sustainable Freight Action Plan; accelerated GHG reduction targets
 - Port of Oakland Strategic Business Plan 2018-2023 (Adopted: March 2018)
- Legislation: Assembly Bill 617 (July 26, 2017)
 - Focus on reducing localized exposure in communities already burdened by high exposure to toxic air contaminants (TACs) and criteria pollutants
- Research and science
 - Community-based studies
 - University and NGO-sponsored research
- New Technologies: Feasibility and Grants
 - Equipment and Operational Readiness
 - Resources Availability

2020 AND BEYOND: Towards a “Blueprint”

- *Port Strategic Business Plan* (Approved: March 8, 2018)
 - **Board reaffirms and renews on-going commitment to improving air quality**
 - **Strategic Plan Goal: *Care for the Environment***
 - Objectives related to air quality improvement
 - 1) Increase reliance on zero and near-zero technologies and renewable energy in Port and tenant operations
 - 2) Minimize truck emissions and impacts
 - 3) Meet MAQIP goals for 2018-2020
 - 4) Develop an updated MAQIP beyond 2020 (aka “2020 and Beyond Plan”)

KEY PLAN ELEMENTS

Vision

Purpose

Guiding Principles

Goals

Strategies

Implementing Actions

Feasibility Criteria

Timeline

Public Participation

Funding

Monitoring and Reporting



Proposed Vision and Purpose

Vision

Transition Seaport operations to near-zero and zero-emissions to achieve cleaner regional and local air quality, reduce greenhouse gases (GHGs), sustain Seaport growth and development and improve local public health and quality of life.

Purpose

Promote public health and quality of life by continuing to minimize, and where possible and feasible, fully eliminate criteria pollutants and toxic air contaminant (TAC) emissions from Seaport-related sources.

Proposed Guiding Principles*

Definition: Guiding Principles are the values, which apply throughout the planning process, including plan development, public participation and implementation.

- 1) *Planning is a joint fact-finding, problem-solving and co-learning process.*
- 2) *All stakeholders share the desire and intention to develop knowledge and capacity to promote informed decision-making.*
- 3) *The planning process shall strive for early, near-term “wins” – these add value.*
- 4) *Pragmatic and practical solutions promote progress towards goals.*
- 5) *Partnerships are a critical element of the of plan implementation.*

* Derived from a variety of Port plans and other engagement plans for review and discussion.

Proposed Goals

- 1) *Minimize criteria air pollutants, toxic air contaminants and local community exposure*
- 2) *Reduce GHG emissions*
- 3) *Build and strengthen partnerships*
- 4) *Provide opportunities for meaningful public participation*

Proposed Strategies

#1: DPM Focus

- Current MAQIP goals to 2020
- Emissions inventory-based
- Ongoing programs
- New programs

#2: GHG and Local Exposure Focus

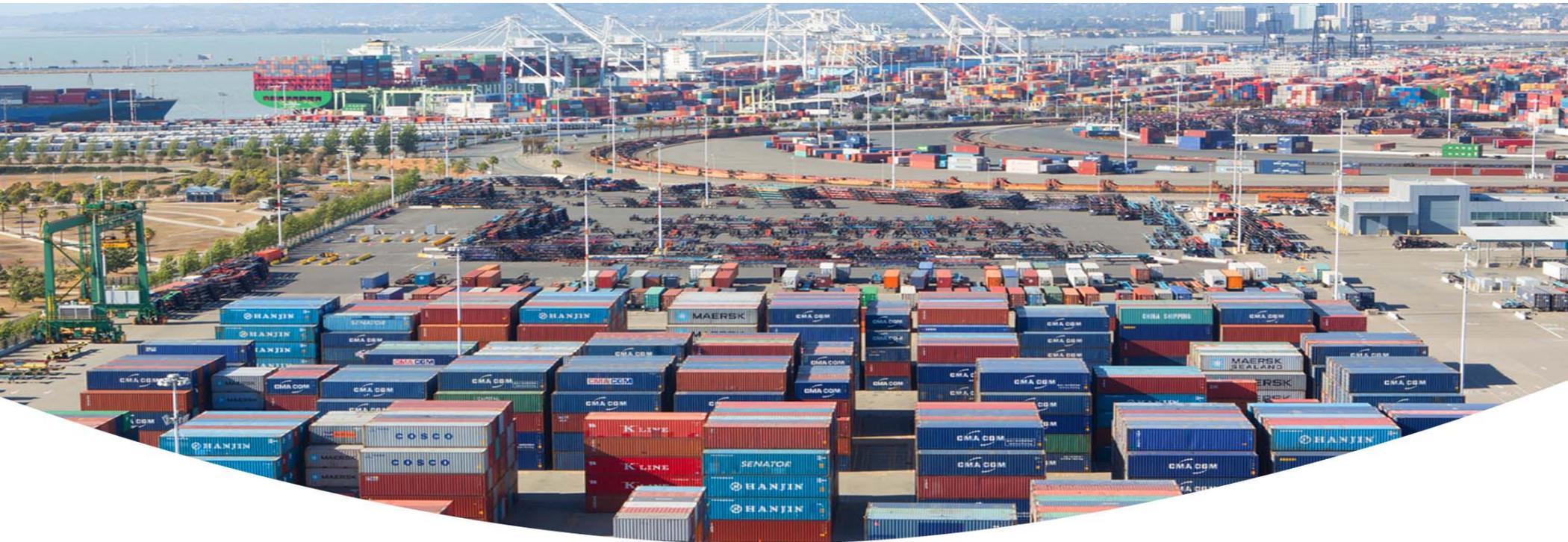
- Climate change focus
- Local monitoring (health risk)
- Post 2020 goals
- New electrification projects & equipment

#3: Electrification Focus

- Zero emissions goals
- Electrical infrastructure upgrades

Schedule – Key Milestones

- Draft MAQIP “2020 and Beyond” Plan – July Board Meeting
- Public Engagement – late Spring 2018, early-mid Fall 2018
- Final MAQIP 2020 and Beyond Plan – target end of 2018



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SEAPORT**