



SAN PEDRO BAY PORTS CLEAN AIR ACTION PLAN

The San Pedro Bay Ports Clean Air Action Plan 2017 Update, proposed for adoption by the joint Long Beach and Los Angeles Boards of Harbor Commissioners in November 2017, builds upon previous successful efforts to help the region reduce air emissions and support the statewide vision for more sustainable freight movement. The strategies in the 2017 Update are some of our boldest yet, and they will require a significant amount of cooperation from the goods movement industry, regulatory agencies, and other stakeholders.

Background

In 2006, the ports of Long Beach and Los Angeles created and approved the San Pedro Bay Ports Clean Air Action Plan, or “CAAP.” The CAAP provides the overall strategy for dramatically reducing air pollution emissions from cargo movement in and around the Ports. The Ports updated the CAAP in 2010 with new strategies and emission-reduction targets. Since the adoption of the original CAAP, diesel particulate emissions from mobile sources in and around the Ports are down 87%. Despite this significant progress, the Ports recognize that more needs to be done. The CAAP 2017 Update provides new strategies and emission-reduction targets to cut emissions from sources operating in and around the Ports, setting the Ports firmly on the path toward zero-emissions goods movement.

New in the CAAP:

The CAAP 2017 Update aligns with the California Sustainable Freight Action Plan:

- **Clean Vehicles and Equipment Technology and Fuels:** The CAAP 2017 Update addresses mobile emission sources operating in and around the Ports – ships, trucks, cargo-handling equipment, rail, and harbor craft – and outlines specific, detailed strategies

including implementation deadlines to reduce emissions and to move toward zero emissions.

- **Freight Infrastructure Investment and Planning:** The CAAP 2017 Update proposes new strategies to plan for and develop the infrastructure necessary for near-zero and zero-emissions goods movement.
- **Freight Efficiency:** The CAAP 2017 Update includes strategies to improve efficiency in the freight system and to reduce emissions through systemwide changes.
- **Energy Resource Planning:** The CAAP 2017 Update proposes cleaner and more reliable sources of energy through each Port’s respective energy programs.

Additionally, the CAAP 2017 Update supports the zero-emissions and freight efficiency targets set by the state and other agencies and contains a new focus on greenhouse gas reductions with 2030 and 2050 emission-reduction targets.

CAAP Emission Reduction Targets:

- Reduce population-weighted residential cancer risk of Port-related DPM emissions by 85% by 2020.
- Reduce port-related emissions by 59% for NO_x, 93% for SO_x, and 77% for DPM by 2023.
- Reduce GHGs from port-related sources to 40% below 1990 levels by 2030 and 80% below 1990 levels by 2050.

CAAP Strategies:

The CAAP 2017 Update contains 14 strategies to reduce emissions from sources in and around the Ports, plan for zero-emissions infrastructure, encourage freight efficiency, and address energy resources. These strategies include:

- Advancing the Clean Trucks Program to phase out older trucks and transition to near-zero emissions in the early years and zero-emission trucks by 2035 with a truck rate to take effect in 2020.

- Requiring terminal operators to purchase zero-emissions equipment if feasible, or near-zero or cleanest available when procuring new equipment.
- Further reducing emissions from ships at-berth, and transitioning the oldest, most polluting ships out of the San Pedro Bay fleet.
- Accelerating the deployment of cleaner engines and operational strategies to reduce harbor craft emissions.
- Expanding use of on-dock rail to shift more cargo leaving the port to go by rail.

Supporting Documents:

The Ports have provided additional technical information and analysis to support the development of the strategies. These documents are available at www.cleanairactionplan.org.

- *Framework for Feasibility Assessments*: A description of the process to be used, components to be analyzed, and proposed methodologies to be employed in developing the feasibility assessments for advanced technologies.
- *Preliminary Cost Estimates for Select 2017 Clean Air Action Plan (CAAP) Strategies*: An analysis of the potential costs associated with the CAAP.

- *CAAP Strategies: Economic and Jobs Effects Discussion Paper*: A discussion of the potential economic and jobs impacts associated with the CAAP strategies.
- *Draft Bay-Wide Ocean-Going Vessel International Maritime Organization Tier Forecast 2015-2050*: A forecast of the penetration of Tier 3 ships for various vessel types.
- *Potential Emission Reduction Projections for Select CAAP Strategies*: A range of forecasted emission reductions for select CAAP strategies.

Stakeholder Involvement:

The CAAP 2017 Update was developed over the past two years based on significant stakeholder feedback. The Ports held over 70 individual stakeholder meetings and three public workshops and in 150 days of formal comment periods received nearly 1,000 pages of comments.

Additional Information:

For additional information, please visit www.cleanairactionplan.org.

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