

November 2017 FINAL CAAP 2017 UPDATE

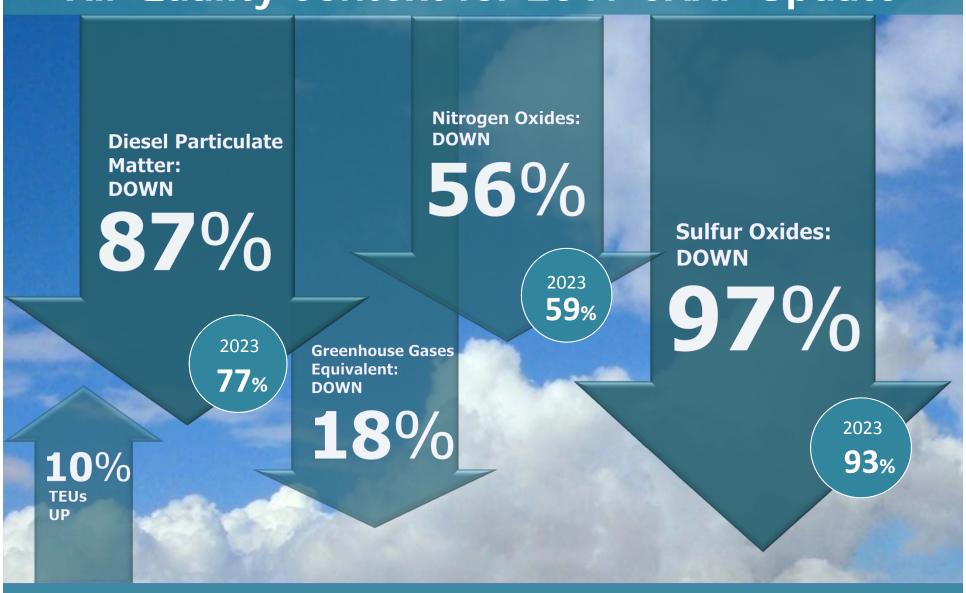
Chris Cannon

Chief Sustainability Officer
Director of Environmental Management
Port of Los Angeles

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Director of Environmental Planning
Port of Long Beach

San Pedro Bay Ports Air Quality Context for 2017 CAAP Update

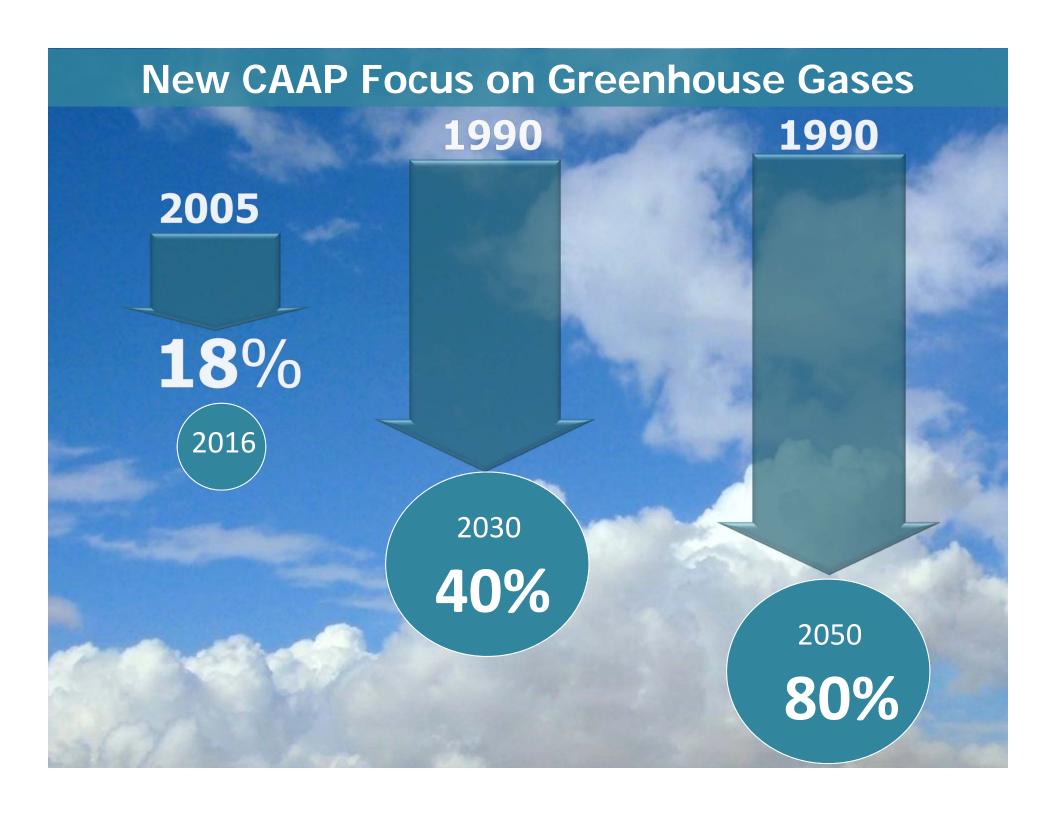




- Build on successes and plan for the future
 - Cleanest Port complex in the world
 - Leaders in strategies to reduce environmental impacts
- Ports must be green in order to continue to grow
 - Need to balance environmental stewardship, economic competiveness, and jobs
- Must continue to reduce pollutants and health risk



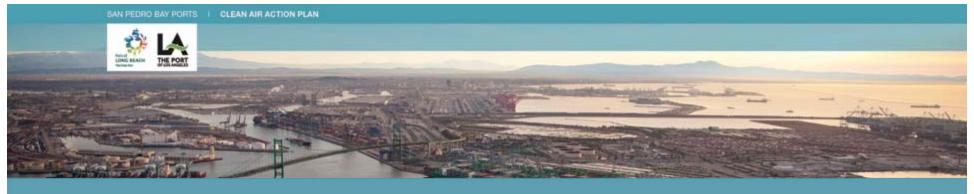
- New danger from Climate Change
 - Must commit to reduce greenhouse gases
 - Importance of zero emission technologies, as emphasized by Mayors' declaration
- CAAP is a planning document
 - Sets framework and guidelines
 - Details will be developed as part of CAAP implementation process





2017 CAAP Update Schedule





Recurring Comment Themes

carbon footprint stakeholder process

accountability

emission reductions infrastructure

ர zero-emissions

CLIMATE CHANGE

workforce

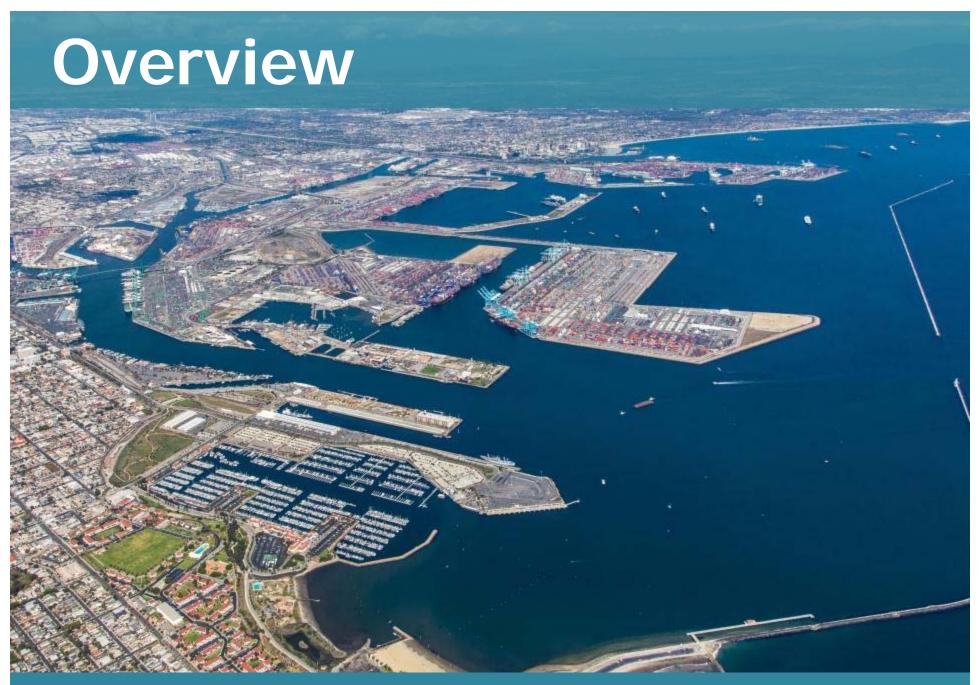
community health economic competitiveness funding

near-zero emissions

www.cleanairactionplan.org



- Expeditiously reduce air emissions and associated health risk
- Remain economically competitive and maintain our market position
- Support our vibrant workforce
- Continue to develop and foster strong partnerships with all stakeholders
- CAAP implementation process must be transparent and responsive to input



2017 CAAP Update Strategies

Ocean-Going Vessels



- Capture up to 100% of vessel at-berth emissions by 2030
- Modify Vessel Speed Reduction Program to maximize participation to 40 nm
- Incentivize energy-efficiency improvements and use of cleaner technologies
- Impose differential rate system to incentivize newer, cleaner vessels



- Transition trucks to near-zero in the near-term and ultimately zero emissions by 2035
- Implement Port Truck Reservation System

Terminal Equipment



- Transition terminal equipment to zero emissions by 2030
- Establish a terminal equipment idling reduction program
- Develop charging standards for electric terminal equipment



Additional 2017 CAAP Update Strategies

- Incentivize harbor craft repowers to Tier 3 and Tier 4
- Expand use of on-dock rail
- Develop a Green Terminal Program
- Identify and implement supply chain efficiencies
- Develop and implement energy strategies and supporting infrastructure

Updates and Clarifications



Response to Comments on the Draft

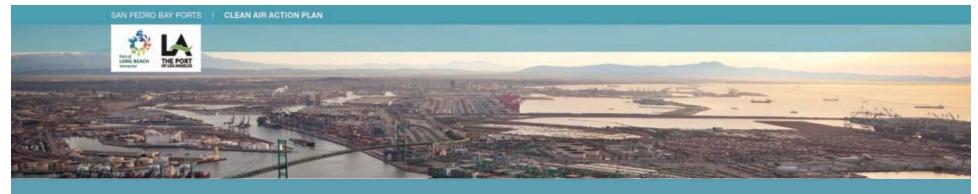


- Technical Viability
- Operational Feasibility
- Availability of Supporting Infrastructure and Fuels
- Economic Considerations
- Commercial Availability



Cargo Handling Equipment

- Goal of zero emission cargo handling equipment by 2030
- Participate in development of CARB's regulation to achieve up to 100% ZE for CHE by 2030
- Conduct feasibility assessments starting in 2018 and updating every three years



Cargo Handling Equipment

- Terminals to submit an equipment inventory and 10-year procurement schedule for new equipment starting January 1, 2019.
- Beginning in 2020, new purchases must be zeroemission, or best available if zero-emission is not yet feasible, as determined by the Feasibility Assessment.
- Accelerate deployment of near-zero and zero-emission equipment through leases and grants.

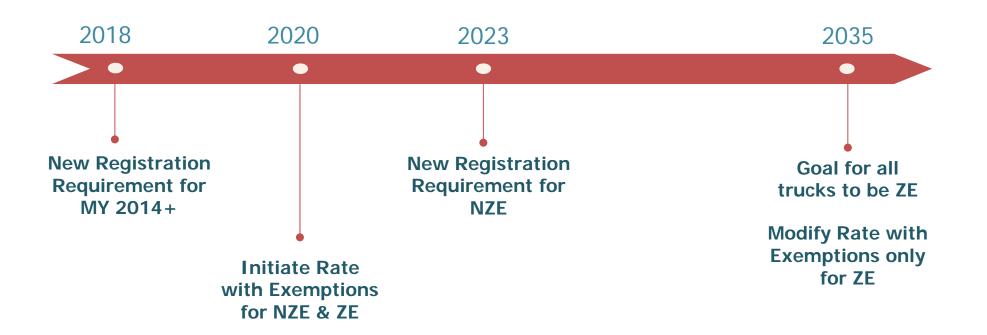


Previous Clean Trucks Program Timeline





New Clean Trucks Program Timeline





- Economic Competitiveness
- Truck Driver Conditions and Financing
- Implementation Milestones
- Transparency and Reporting



Next Steps

- We're at the starting point
- Near-Term Actions
 - CAAP Implementation Advisory Workgroup
 - Technology Demonstrations
 - Feasibility Assessments
 - Clean Trucks Program
 - Port Truck Reservation System
 - Terminal Equipment



- Funding Advocacy
 - Education and Engagement
 - Grant Opportunities
 - U.S. Environmental Protection Agency
 - California Air Resources Board
 - California Energy Commission
 - South Coast Air Quality Management District



