



# SAN PEDRO BAY PORTS **CLEAN AIR ACTION PLAN**

**AAPA Environmental Committee  
CAAP 2017 UPDATE**



## 2017 CAAP Update – Background and Purpose

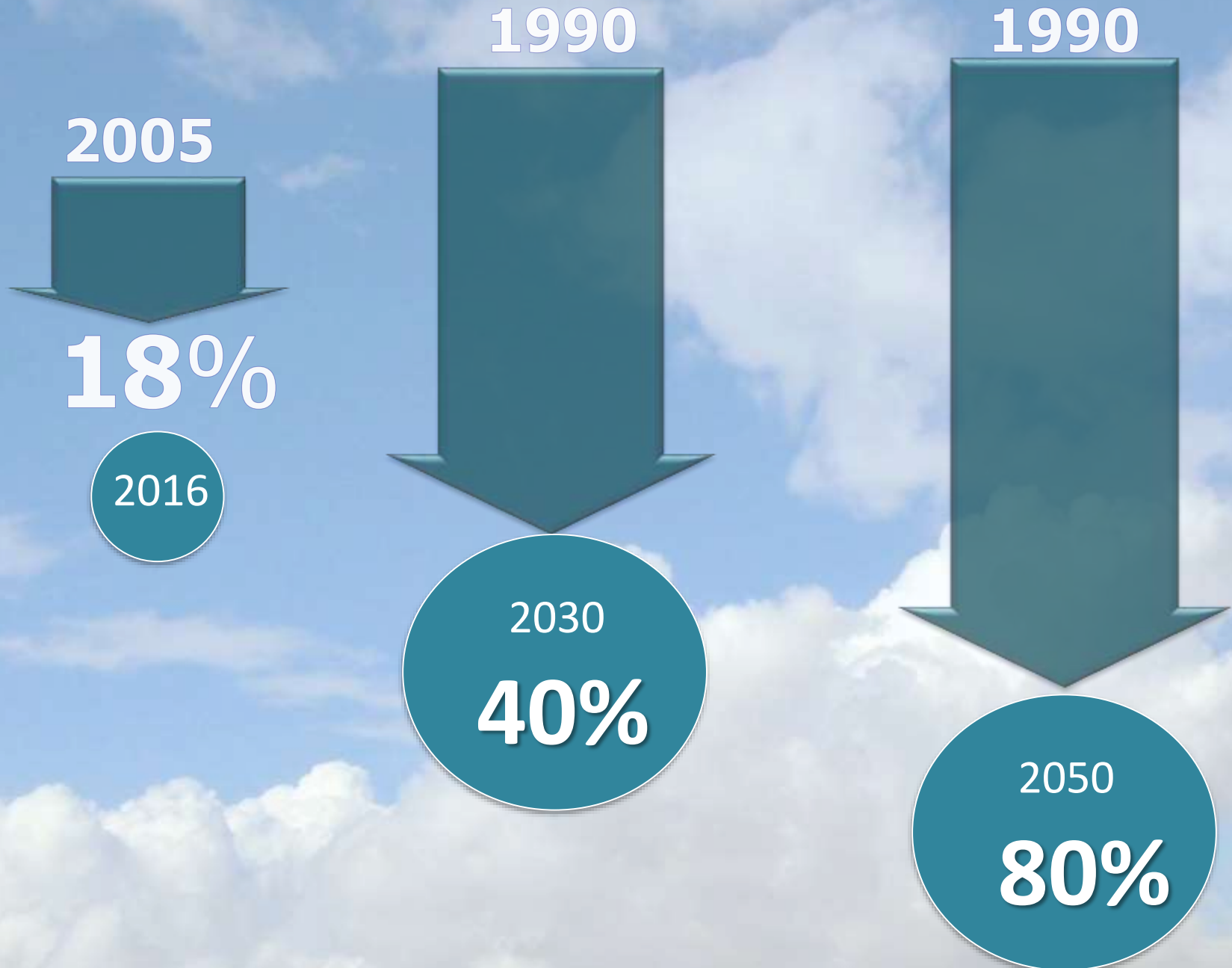
- Build on successes and plan for the future
- Ports must be green in order to continue to grow
- Must continue to reduce pollutants and health risk
- New danger from Climate Change
- CAAP is a planning document



## Guiding Principles

- Exeditiously 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

# New CAAP Focus on Greenhouse Gases





# 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

# Heavy-Duty Trucks



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

# Terminal Equipment

ZPMC



- 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





## Feasibility Assessments

- 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



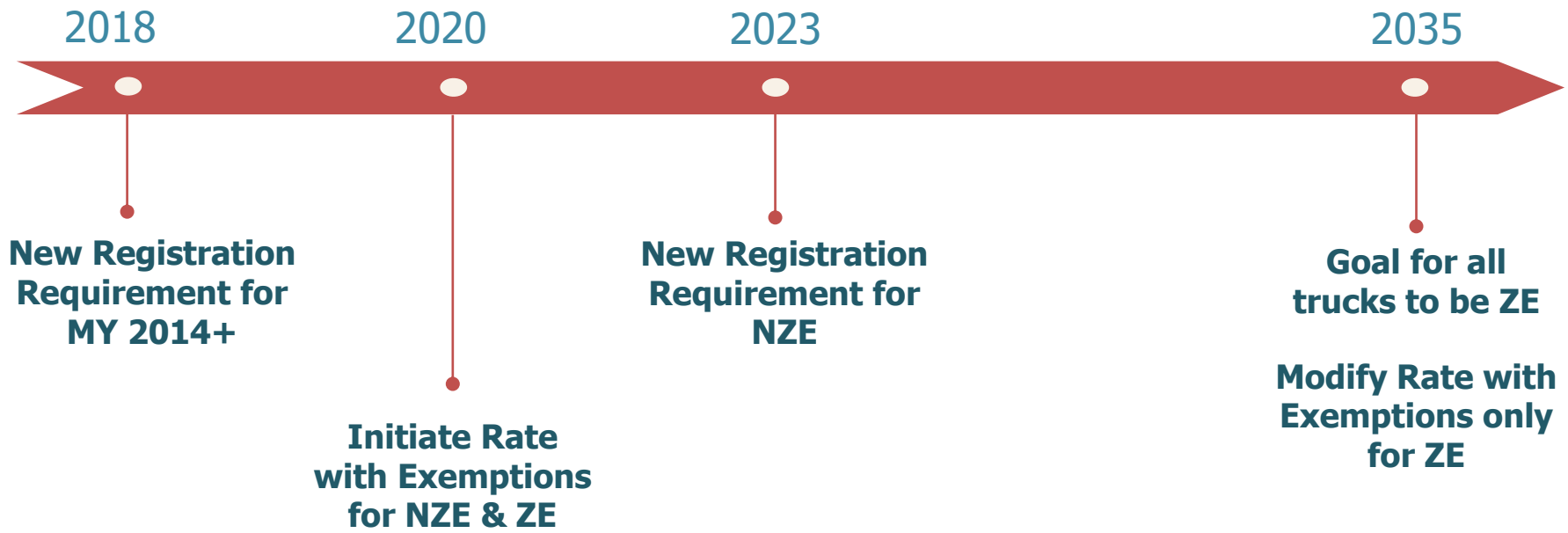
## Cargo Handling Equipment

- 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 zero-emission, 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.





# New Clean Trucks Program Timeline





## Next Steps

- CAAP Implementation Advisory Workgroup
- Technology Demonstrations
- Feasibility Assessments
- Clean Trucks Program
- Port Truck Reservation System
- Terminal Equipment
- Funding Advocacy



Port of  
**LONG BEACH**

*The Green Port*



**THE PORT**  
**OF LOS ANGELES**