

The background of the slide is a wide-angle photograph of a busy port terminal. In the foreground, there are numerous stacks of colorful shipping containers (blue, red, yellow, green) and several large blue gantry cranes. In the middle ground, there are more containers, a road with some vehicles, and a large pile of sand or gravel. In the background, there are hills and a city skyline under a clear blue sky.

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

Community Workshop

OCTOBER 14, 2015



San Pedro Bay Ports
Premier gateway for U.S-Asia
trade, major Southern California
economic engine



Heavy-Duty Trucks

**Banned older trucks
95% pollution reduction
Upgrade completed 2 years early**

Ocean-Going Vessels

Vessel Speed Reduction
Clean Ships
Shore Power
Cleaner Fuels





Cargo-Handling Equipment

Electric equipment
Replacements ahead of regulation

Harbor Craft

World's only hybrid tugboat
Engine upgrades ahead of regulation





Locomotives

Cleaner engines
Increased on-dock rail

Diesel
Particulate
Matter:
DOWN

85%

Nitrogen Oxides:
DOWN

51%

Sulfur
Oxides:
DOWN

97%

Greenhouse Gases:
DOWN

18%

7%
TEUs

2014 Air Emissions Inventory



CHALLENGES AHEAD

- Rising cargo growth
- Maintaining emission reductions
- No new state or federal regulations on the horizon
- Substantial fleet turnovers unlikely
- Few commercialized clean-air technologies

No more “easy” strategies



CLEAN AIR ACTION PLAN: THE FUTURE

- Mobile source strategies
- Zero emissions/near-zero emissions
- Greenhouse gases
- Energy
- Supply chain efficiencies



REACHING OUT TO OUR PARTNERS

- Industry groups
- Shipping lines, terminals, harbor craft operators, trucking companies, rail
- Regulatory agencies
- Environmental Protection Agency, Air Resources Board, South Coast Air Quality Management District
- Environmental organizations
- Community groups



WHAT WE'VE HEARD

- Need more emission reductions and new goals
- Significant investments have already been made
- No commercialized zero-emissions technologies
- New technologies can pose operational challenges



WHAT WE'RE WRESTLING WITH

- How do we get to zero-emissions?
- How do we prioritize our air strategies for the community?
- How do we balance the environment with economic competitiveness?

Once we answer these questions...

...what strategies do we employ?



TODAY'S ACTIVITY – HELP US ANSWER THESE QUESTIONS

- How do we get to zero emissions?
 - Opportunities? Challenges?
 - Strategies? Tools?
- How do we prioritize our strategies?
 - Strategies to address local impacts? Regional emissions? Greenhouse gases?
- How do we balance environment and economy?
 - Incentives? Market-based strategies?
 - Efficiencies?



NEXT STEPS

- Today's meeting notes posted on CAAP Website
- Concepts to be released in 2016
- Ongoing outreach – more opportunities to provide feedback

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