

2016 AQMP Symposium

Diamond Bar

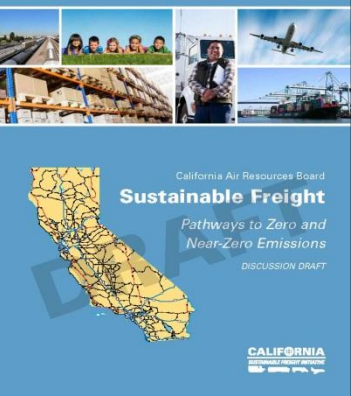
June 10, 2015

**National/International
Transportation Sources:
*Marine Vessels***

**Cynthia Marvin, Chief
Transportation and Toxics Division**

California Environmental Protection Agency

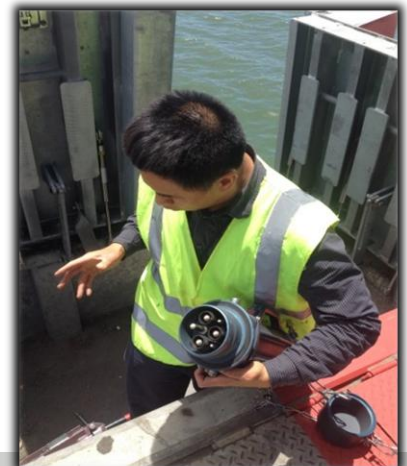
 **Air Resources Board**



Near-Term ARB Measures-Vessels

1. Advocate with international partners for tighter IMO NOx/PM standards, plus efficiency targets for existing vessels (2015)
2. Define "Super Low-Emission Efficient Ship;" use incentives for advanced technologies (2016)
3. Expand existing At-Berth rule (2016)

(completion
of ARB action)



State Zero Emission and Low NOx Incentives – Marine Examples



Prop 1B-Freight

- Shore power
- Emissions capture and control system
- Cargo equipment
- Drayage trucks
- Harbor craft
- Charging/fueling

Cap&Trade Proceeds

- Drayage trucks
- Cargo equipment
- IT/logistics efficiency
- Ferries
- Transit operations

Industry Leadership on Sustainability

- All: improved system efficiencies and more ambitious international/national standards
- Ports: influence, infrastructure, incentives
- Logistics providers: cleaner, more efficient equipment that relies on low carbon energy
- Cargo owners: speak with wallet -- preferences for green transport