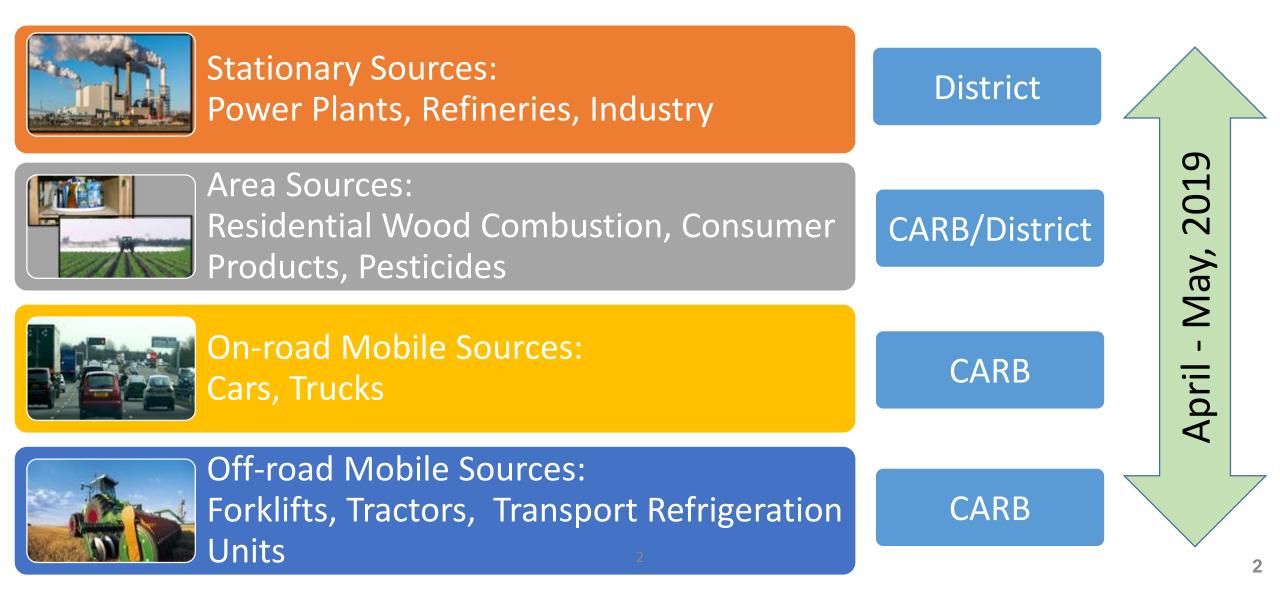


Community Emission Inventory Update CARB Mobile and Area Source Emissions

Shafter AB 617 Community Steering Committee Meeting May 13, 2019

<u>Alejandra Cervantes</u>, Jenny Melgo, Abhisek Dhiman, Adrian Cayabyab Air Quality Planning and Science Division California Air Resources Board

Air District & CARB Staff Collaboration



DRAFT Community Emissions Summary

Source Category	PM2.5		NOx		ROG		NH3	
STATIONARY	30.3	(12%)	19.8	(3%)	53.1	(5%)	0.87	(0.1%)
AREA	188.5	(75%)	49.7	(7%)	936.9	(80%)	1,360.4	(99.9%)
OFF-ROAD MOBILE	12.4	(5%)	163.1	(21%)	54.2	(5%)	0.1	(0.01%)
ON-ROAD MOBILE	20.1	(8)%	528	(69%)	126.4	(11%)	0	(0%)
TOTAL (tons/yr)	251.3		760.6		1,170.6		1,361.4	

- PM2.5: Particulate Matter 2.5 Microns or Smaller
 - NOx: Nitrogen Oxides
 - ROG: Reactive Organic Gases
 - NH3: Ammonia

Inventory Development – What are we doing?

https://ww2.arb.ca.gov/resources/documents/emissions-inventory-enhancements

DRAFT Area Source Emissions



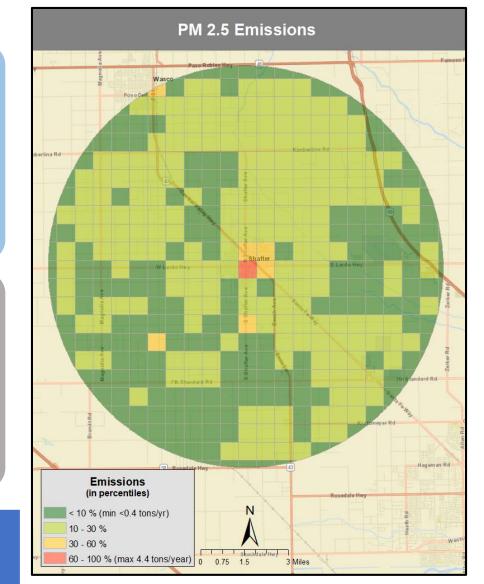
Sources that can be moved to actual emission location:

Small emission sources spread over an area, but with specific locations (e.g., gas stations, dry cleaner, auto body shops, print shops)

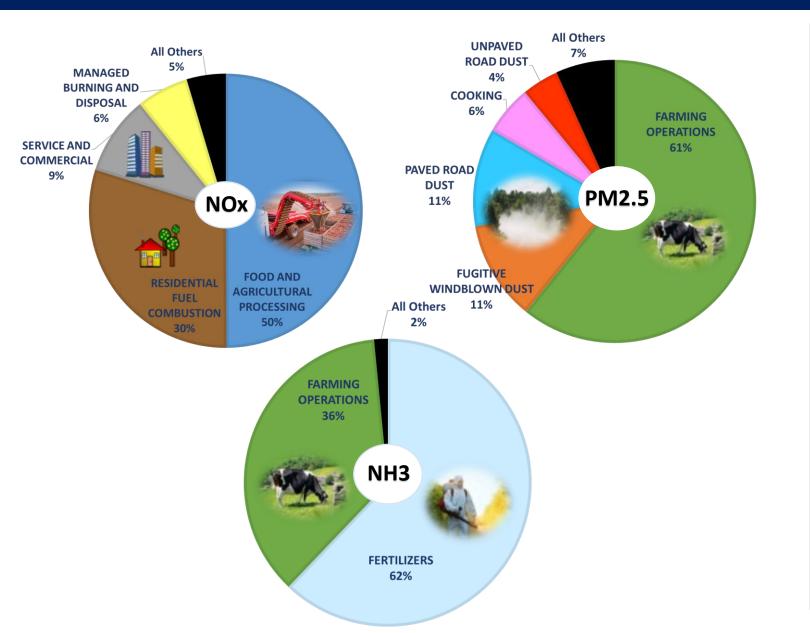


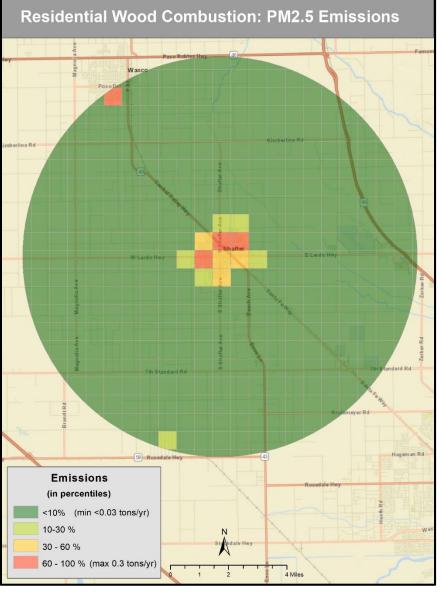
Sources that operate and emit over large areas: Emission sources that lack specific location detail (e.g., consumer products, road dust, architectural coating)

Move sources to their actual emission location, when possible



DRAFT Area Source Emissions (Contd.)



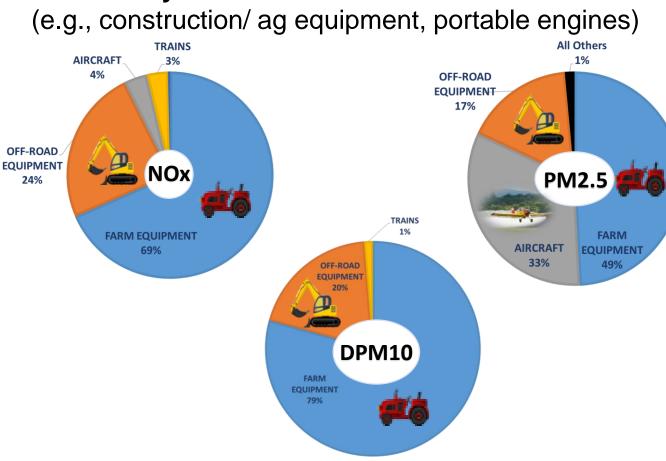


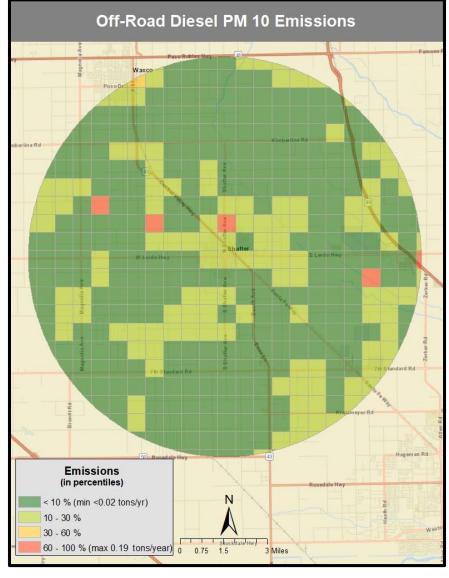
DRAFT Off-Road Mobile Source Emissions

Facility Sources:

(e.g., forklifts, cargo handling equipment, locomotives)

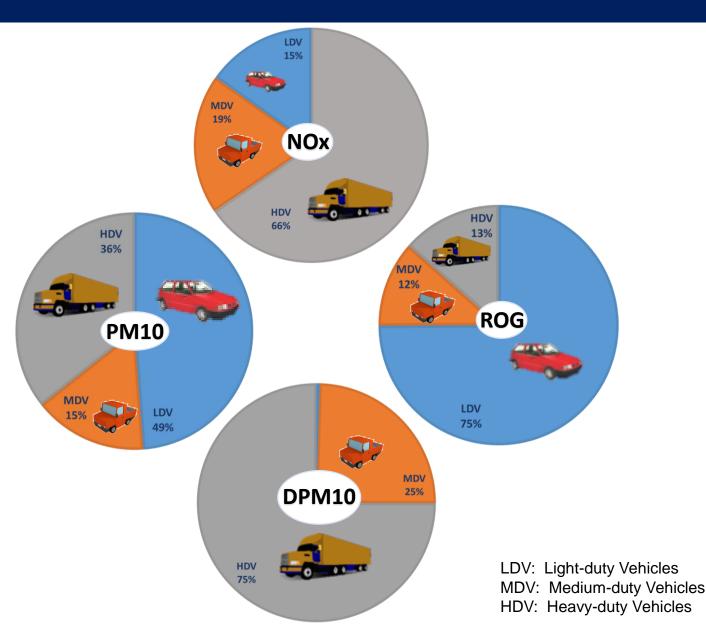
Non-facility Sources:

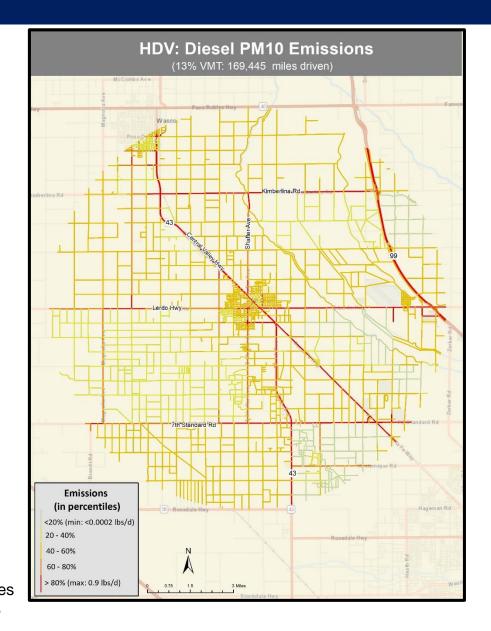




DPM10: Diesel Particulate Matter 10 Microns or Smaller

DRAFT On-Road Mobile Source Emissions







Highlights on Statewide Strategies to Control Emissions

Shafter Community Steering Committee Meeting

May 13, 2019

Air Quality Agencies

Federal



U.S. EPA

Sets/enforces national air quality standards. Regulates interstate transportation.



Ships



State



CARB

Regulates mobile sources of air pollution, greenhouse gases, and consumer products.

●■● Cars Trucks **Buses** Local



Local Air Districts

Regulate stationary and local sources of air pollution.





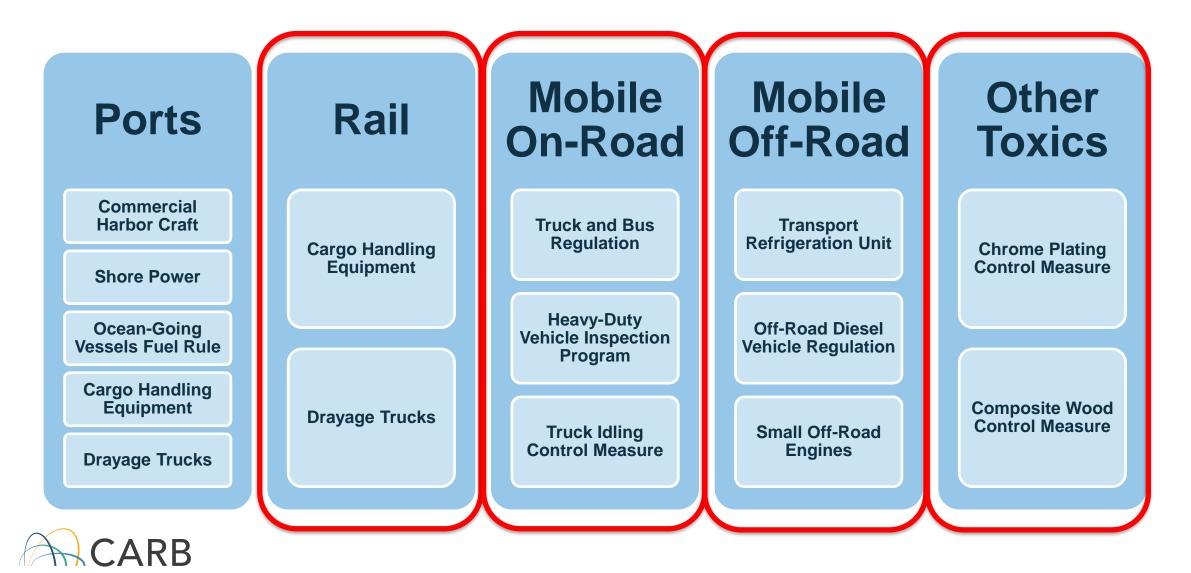


Factories Refineries

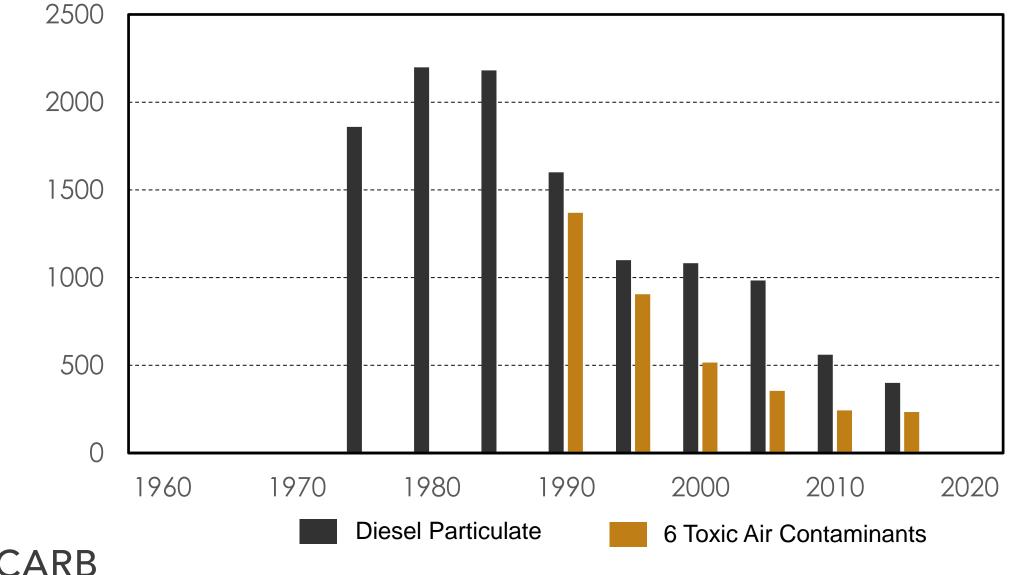
Residential woodstoves

RB

Existing Regulations and Control Measures

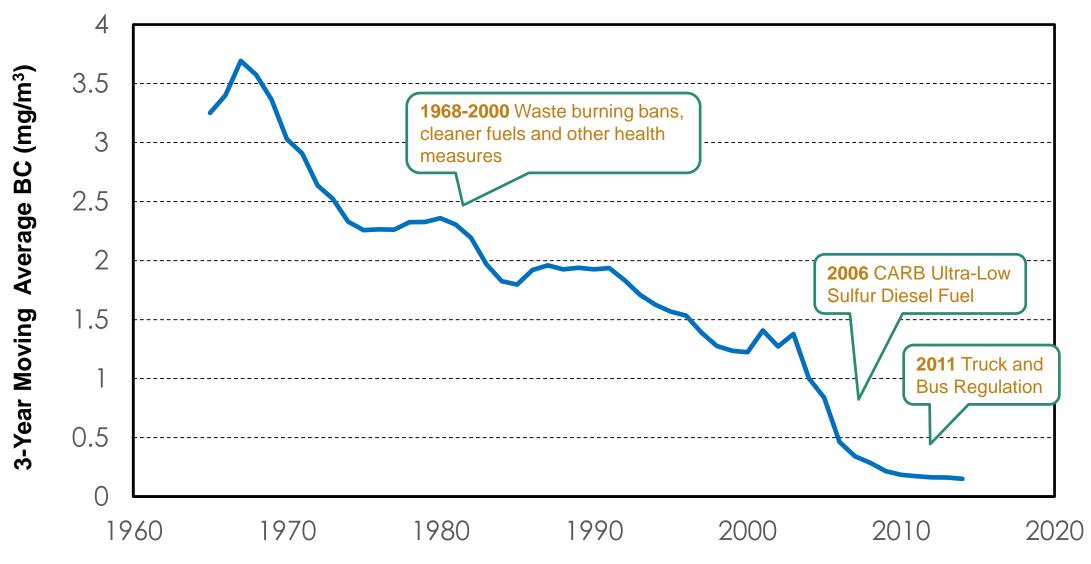


Statewide Toxic Health Risks



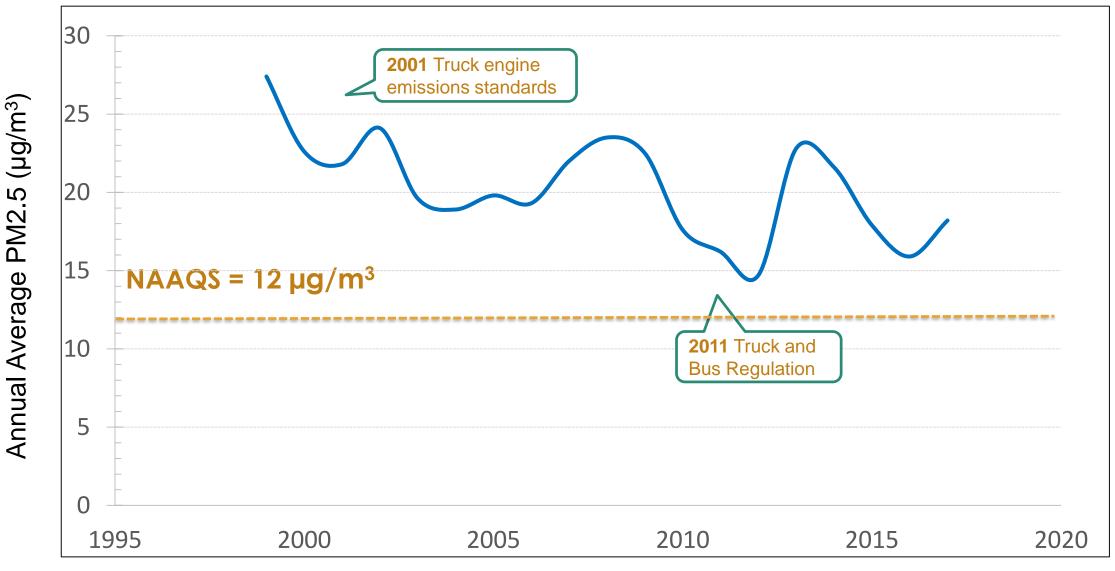
Increased Cancer risk per million residents

Statewide Black Carbon





Fine Particles (PM_{2.5}) in Kern County





CARB ADAM Air Quality Database

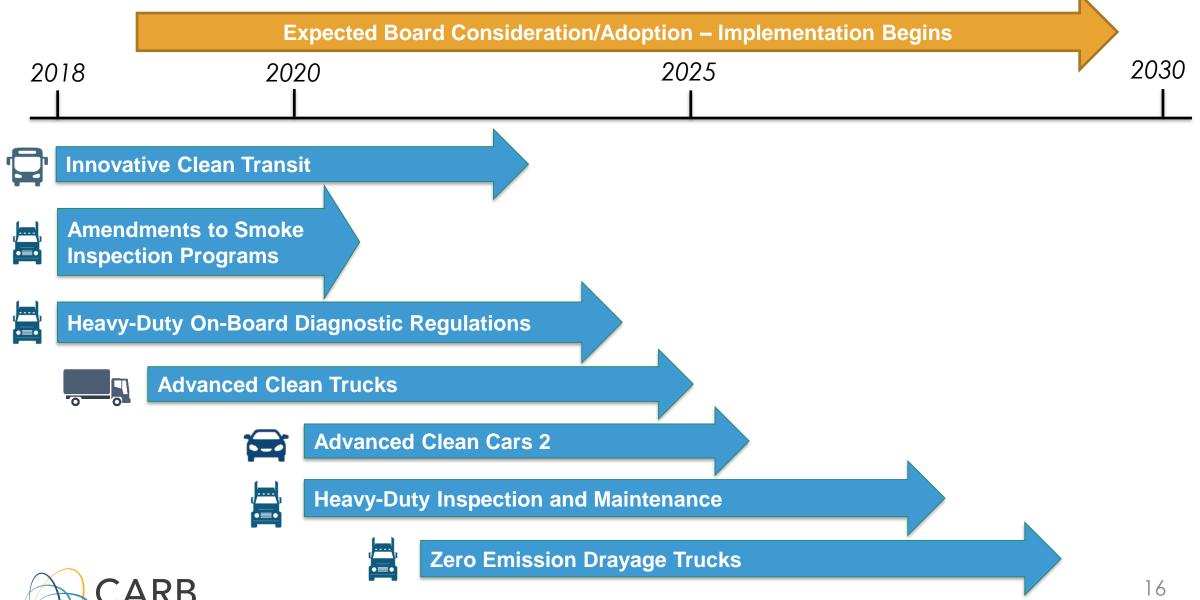
CARB EMISSIONS REDUCTION STRATEGIES



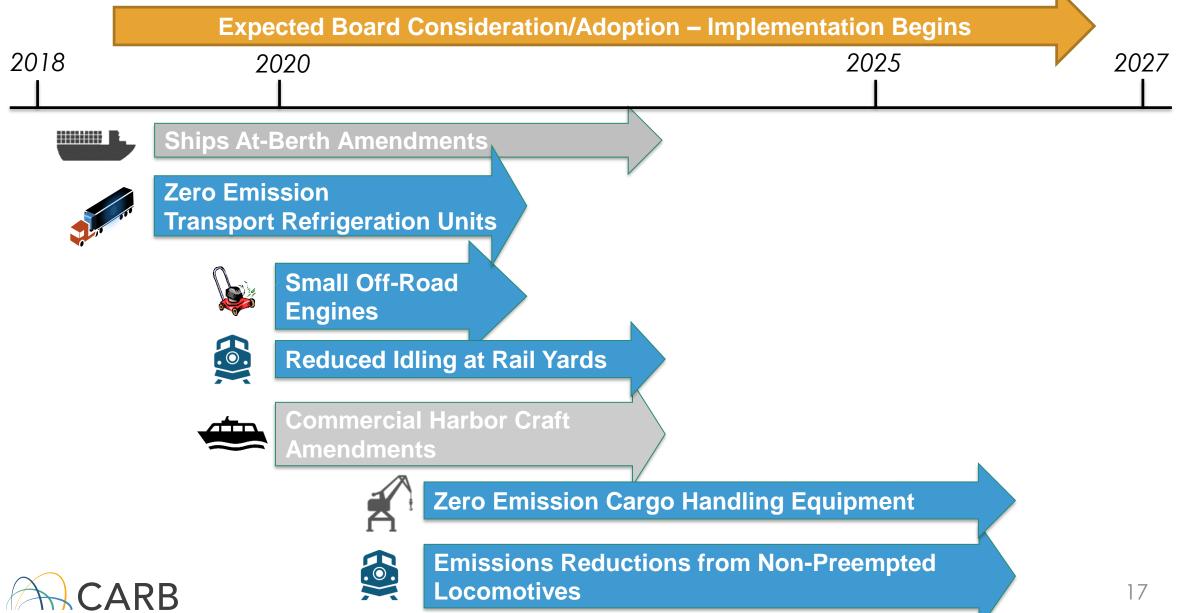
Recent Plans



Proposed On-Road Mobile Source Measures



Proposed Off-Road Mobile Source Measures



Additional Proposed Control Measures

- Chrome Plating Control Measure Amendments
- Composite Wood Products Control Measure Amendments
- Commercial Cooking Suggested Control Measure

Expected Board Consideration Date= TBD



Contact Us

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