

CALIFORNIA



SUSTAINABLE FREIGHT INITIATIVE



Update on Sustainable Freight Activities

March 10, 2016

California Environmental Protection Agency



Air Resources Board

Overview

- Pathways to Zero and Near-Zero Emissions
- California Sustainable Freight Action Plan



Freight Is Important to California's Economy

Freight-dependent industries account for:

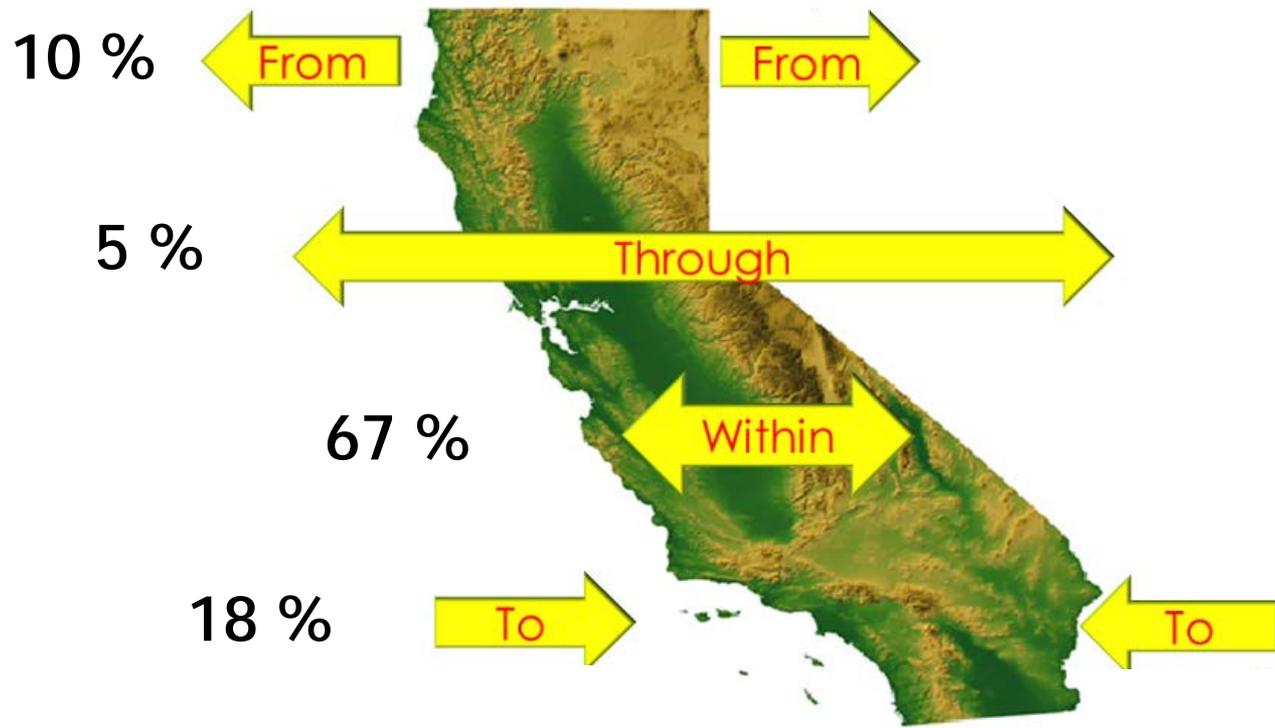
- Over \$700 billion, 32% of the California economy (2013)
- Over 5 million jobs, 33% of California jobs (2013)

California freight projections for 2025:

- 25% increase in volume
- 60% increase in commodity value

- Projections Source: Freight Analysis Framework Data by U.S. Department of Transportation, 2012

2/3 of Freight Transport *Within* California



- Source: Freight Analysis Framework Data by U.S. Department of Transportation, 2012

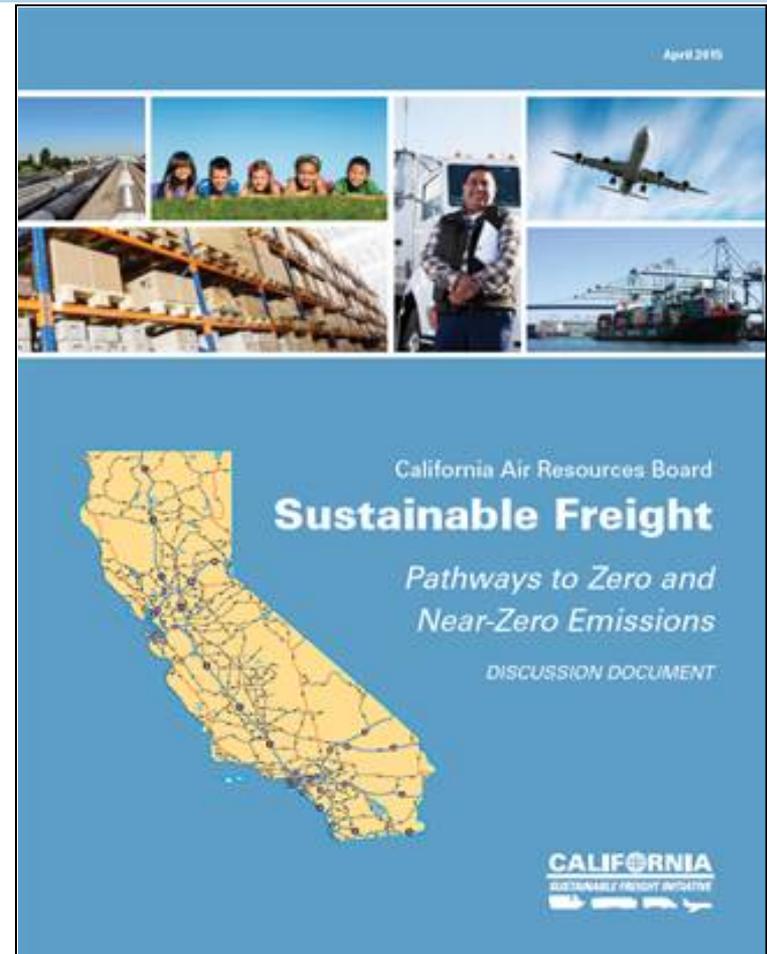
Air Quality Objective

Zero emission equipment everywhere feasible, and near-zero emission equipment powered by clean low-carbon renewable fuels everywhere else



Pathways to Zero and Near-Zero Emissions

- Immediate actions
- Near-term measures
- Vision for the future
- Broad-based approaches



Immediate Action: Incentives

Cleaner equipment funded in 2015

- 1,470 Total vehicles and equipment
- 10 Tons per year of PM emissions reduced
- 980 Tons per year of NOx emissions reduced

Immediate Action: Enforcement

- Expanding Presence
 - U.S. EPA Region 9 enforcement participation
 - Outreach to disadvantaged communities
- Building Partnerships
 - Statewide enforcement staff EJ Liaisons and EJ task forces
- Goals
 - Understand/address community concerns
 - Report back to community on actions

Broad Based: Data Collection for Freight Hubs

- Need to continue reducing health risk near freight hubs
- Freight sector vs. freight facility
- Will inform which additional strategies are pursued, including efficiency improvements, amendments to source-specific rules, freight strategy
- Expected industry outreach and survey release in Summer 2016

Broad Based: Freight Land Use Handbook

Potential Components

- Identify best practices for the siting, design, and operation of freight facilities that results in minimizing exposure to air toxics
- Identify and recommend best/cleanest engine and equipment technologies for construction and maintenance of freight facilities
- Assist in determining recommended air quality mitigation measures for new freight facilities/projects

California Environmental Quality Act (CEQA)

- ARB's ongoing efforts to continue reducing health risk near freight hubs through the CEQA process
- Issued comments on two large freight projects:
 - World Logistics Center
 - Tenth Avenue Marine Terminal

Governor's Executive Order B-32-15: California Sustainable Freight Action Plan

State agencies, in consultation with stakeholders, to develop plan by July 2016:

- Targets for efficiency, zero emission technology, and economics
- Potential actions to advance State objectives
- Corridor-level freight pilot projects



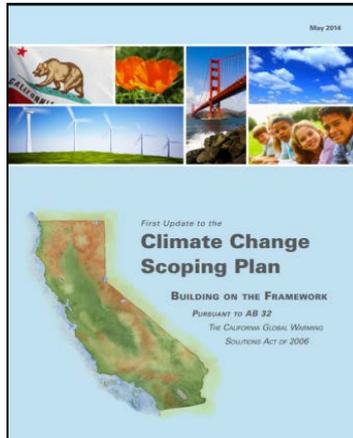
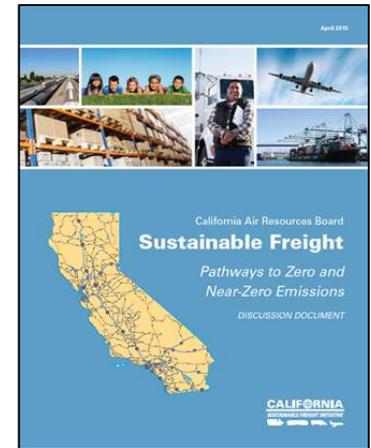
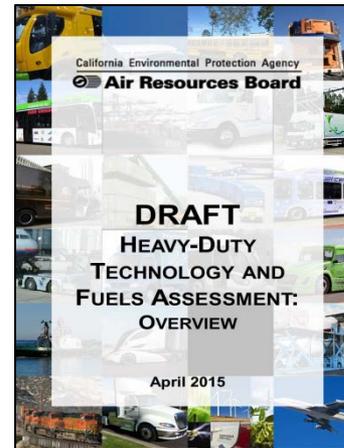
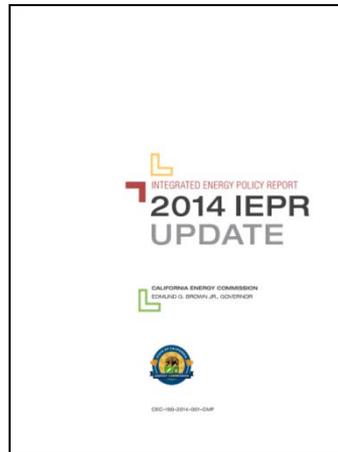
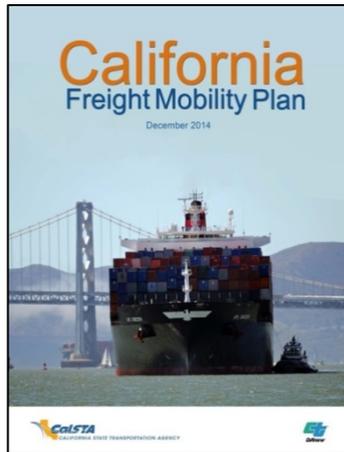
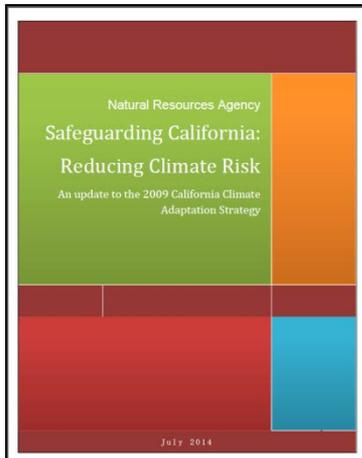
Freight Action Plan Stakeholder Engagement

- Kicked off public process at the California Freight Advisory Committee (CFAC) meeting in July, 2015, followed by a meeting and Webinar in October 2015 and a CFAC meeting in February 2016
- Workshops held statewide in January/February 2016
- The multi-agency State partners will continue to seek input from stakeholders, including the California Cleaner Freight Coalition, through meetings, conference calls and public events

Framework of Action Plan

- A long-term **vision** for California's future freight transport system
- **Guiding principles** to achieve the vision and prioritize projects for funding
- **2030 targets** to guide State progress
- **Agency actions** to help meet the 2030 targets
- Corridor-level **pilot projects** to demonstrate an integrated approach across agencies

Relation to Other Plans



Possible Actions to Support 2030 Freight Targets

Action concepts the agencies are considering over the next five years:

- Advanced Technologies
- Freight and Fuel Infrastructure
- Alternative and Renewable Fuels
- System Efficiency
- Freight Facilities and Hubs

Freight Efficiency “Think Tank”



- Convened by Caltrans
- Chaired by Dr. Sperling
- Participants: freight industry, academics, advocates, government
- Task: Examine and identify broad-based efficiency strategies to incorporate into the California Sustainable Freight Action Plan

Freight Pilot Project Objectives

- Measureable progress towards freight targets within a 2030 timeframe
- System transformation potential
- Opportunity for integrated State agency support
- Scalability

Potential Freight Pilot Projects

- Food Consolidation and Distribution Hub(N. CA)
- Urban Delivery (Bay Area)
- Dairy Biogas for Freight Vehicles (SJ Valley)
- Advanced Technology Truck Only Lane(S. CA)
- Advanced Technology Truck Fast Lane(Border)

Draft Targets for 2030

- System Efficiency: Improve freight system efficiency by 25% by 2030
- Technology: Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030
- Economy: Foster future economic growth within the freight and goods movement industry by promoting flexibility, efficiency, investment, and best business practices through State policies and programs that create a positive environment for growing freight volumes, while working with industry to lessen immediate potential negative economic impacts

Draft 2050 Vision

Freight in California is moved on a modern, integrated, and resilient system that continues to support California's economy and livability. It is transported safely and efficiently by zero emission equipment everywhere feasible, and near-zero emission equipment powered by clean low-carbon renewable fuels everywhere else.



Economic Impacts

- Evaluate potential impacts of freight actions on the California economy, industry sectors, and residents
 - Estimate direct costs and savings
 - Model the macroeconomic impact of the Action Plan on the California economy, California industry, and residents

Action Plan Timeline

July 2015	Launch
Ongoing	Freight Advisory Committee Meetings
Ongoing	Efficiency Group Meetings
Oct. 2015	Public Webinar
January 25, 2016	Assembly Transportation Hearing
Jan./Feb. 2016	Public Workshops (9 locations)
Spring 2016	Draft Plan Release
May 2016	Informational Update to Board /Public
July 2016	Final Plan Release



California Sustainable Freight Action Plan

WWW.CALIFORNIASUSTAINABLEFREIGHTACTIONPLAN.ORG

