

Facility-Based Mobile Source Measures Warehouse Distribution Centers (MOB-03)



South Coast
AQMD

1st Working Group Meeting
June 1, 2017

FBMSM

Agenda

- Background
- Working Group Process and Metrics
- Emission Sources
- Measures Improving Air Quality
- SIP Credit and Emission Reductions
- Next Steps

Background



- Final 2016 AQMP approved by SCAQMD and ARB in March 2017
- Control Measure: Facility-Based Mobile Source Measure (MOB-03) for Warehouse Distribution Centers



- Introductory Working Group Meeting held May 8, 2017
- More than one-hundred stakeholders participated
- Stakeholders represented industry, government, and environmental and community groups

Background *(Continued)*

Number	Title	Adoption	Implementation Period	Implementing Agency	Emission Reductions
<i>Facility-Based Mobile Source Measures:</i>					
MOB-03	Emission Reductions at Warehouse Distribution Centers [All Pollutants]	2018	2019-2031	SCAQMD	TBD

- The goal of this measure is to assess and identify potential actions to further reduce emissions associated with sources operating in and out of warehouse distribution centers

Working Group Process - Metrics

- Near term objective introduced at Introductory Working Group meeting
- Metrics will be used to determine progress of Working Group
- Seeking stakeholder input on draft metrics

Proposed Near Term Objectives of Working Groups

- Work with stakeholders to identify strategies to implement EGM-01, and MOB-01 through MOB-04
- Identify voluntary measures that can achieve cost-effective emission reductions
- Consider how other AQMP measures (incentives, CARB regs, etc.) interact with facility-based measures
- Identify metrics for progress that staff should consider when making recommendation to Board in March 2018
- Develop mechanisms to ensure any voluntary emission reductions are real, enforceable, quantifiable, surplus, and creditable towards the State Implementation Plan

Draft Metrics to Evaluate Progress of Working Group

FBMSM Development

- Background
- Strategies
- Implementation

Framework

Stakeholder Outreach

- Meetings
- Web
- Other media

Schedule

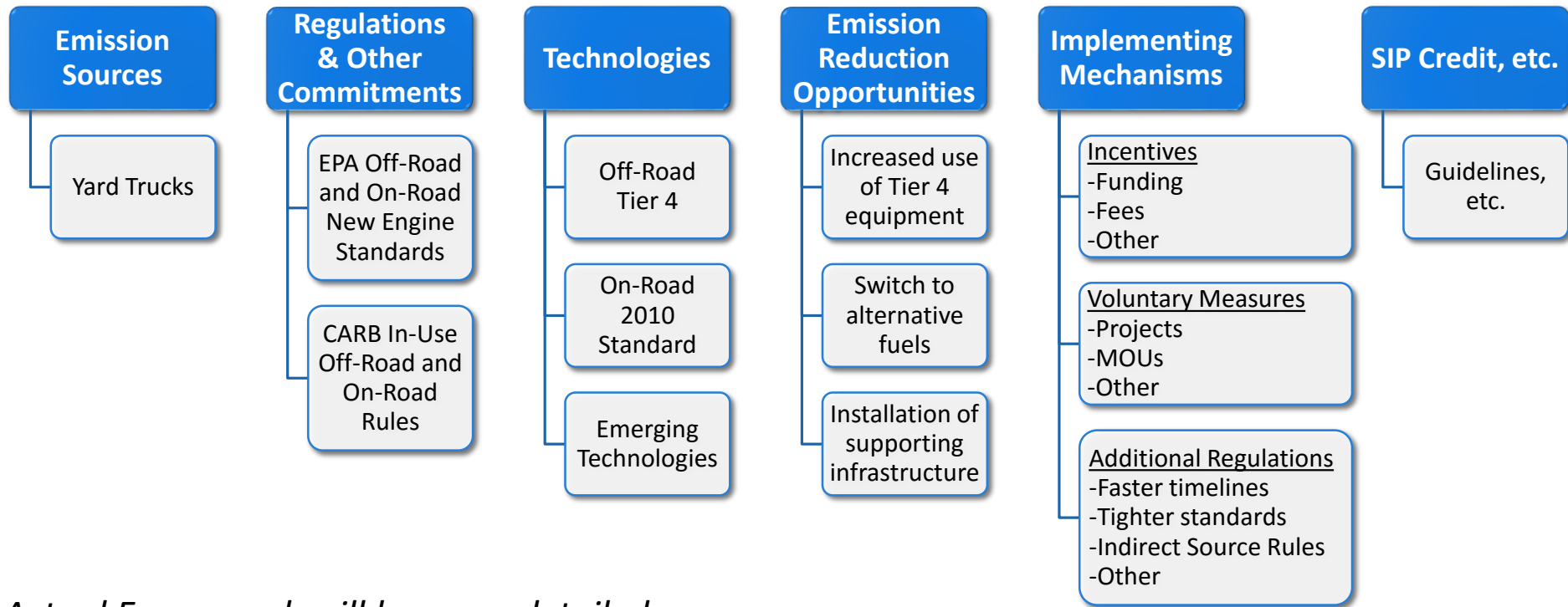
- Sharing Information
- Data Analysis
- Developing Recommendations for SCAQMD Board

FBMSM Development Framework

<u>Background Information</u>			<u>Strategies</u> <i>(Discussion Topics for Working Groups)</i>		<u>Implementation</u> <i>(Discussion Topics for Working Groups)</i>	
<i>Emission Sources</i>	<i>Regulations & Other Commitments</i>	<i>Technologies</i>	<i>Emission Reduction Opportunities</i>	<i>Financial and Other Incentives*</i>	<i>Implementing Mechanisms</i>	<i>SIP Credit</i>
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-	-	-	-	-	-	-
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*Incentive Funding being pursued through separate public process

FBMSM Development Framework Example



Actual Framework will be more detailed

FBMSM Development Framework

- Framework will be a living document and posted online
- Staff will provide update to Framework prior to next working group
- Staff is requesting stakeholders to provide input by June 30:
 - Additional criteria to consider (e.g., more or refined columns)
 - Initial focus on Emission Reduction Opportunities
- Next working group meeting will review data collected to date, and focus discussion on opportunities and potential implementing mechanisms

Emission Sources

- Emission Sources from Warehouse Distribution Centers:
 - Heavy Duty Trucks
 - Cargo Handling Equipment (yard trucks and forklifts)
 - Transport Refrigerator Units (TRUs) and TRU Generator Sets
 - Stationary Equipment
 - Construction activities
- Pollutants will vary from each source
 - NO_x is focus, but opportunities for other pollutants will be considered

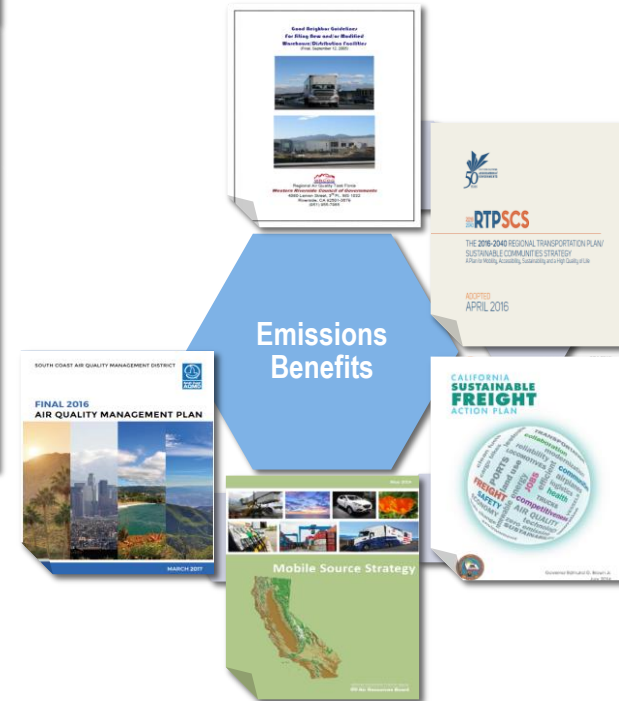
Regulations & Other Commitments

Existing

- 2016 RTP/SCS
- EPA Heavy Duty On-Road Engine Standards
- EPA Off-Road Engine Standards
- CARB In-Use Off-Road Rules
- CARB Heavy Duty Truck and Bus Rule
- CARB Transportation Refrigeration Unit ATCM
- Title 24
- Local Ordinances
- CEQA Mitigation
- Other

Future

- 2016 AQMP and CARB State Strategy
- State Sustainable Freight Action Plan
- 2020 RTP/SCS
- Other



Regulations & Other Commitments (Continued)

- Key considerations
 - Exact requirements of existing regulations that affect emissions
 - Timing of implementation
 - Key assumptions of how regulation is accounted for in emission inventory
 - Status of currently proposed future measures

State Implementation Plan Credit

**Key components needed
to take credit in the SIP
for emission reductions
attributable to a
voluntary program**

“Integrity Elements”

Enforceable commitment

Technical analysis/support

**Demonstration of state funding
and legal authority**

Procedures for public disclosure

**Provisions to measure and track
performance**

Permanent

Enforceable

Quantifiable

Surplus

Emission Reductions Opportunities

– Example

- Yard Truck (on-road or off-road) example:
 - EPA sets emissions standards for new engines
 - CARB sets in-use standards for on-road and off-road
 - Idling limits for on-road and off-road
 - Restrictions on adding off-road vehicles with older tier engines
 - Performance requirements that demonstrate off-road fleet average targets or BACT
 - Phase-in schedule for 2010 engine standard on-road trucks
 - Tier 4 equipment and 2010 standard trucks
 - Emerging zero emission and near-zero emission yard trucks

Emission
Source

Regulations

Technology

Emission Reductions Opportunities

– Example (Continued)

- Measures that could result in additional emission reduction from Yard Trucks
 - Lower fleet wide off-road averages than required by CARB in-use standards
 - Zero-emission or near-zero emission yard trucks
 - Lower idling limits
 - Other
- Future Working Group meetings on implementation mechanisms, obtaining SIP credit, etc.

**Opportunities
for Emission
Reductions**

**Mechanisms,
SIP Credit**

Technologies

- Many technologies emerging to reduce emissions
 - SCAQMD regularly provides substantial funding to demonstrate these technologies
- Information is available, but often in technical reports and not in a single repository
- SCAQMD is proposing to develop a living website to present user-friendly summaries of key technologies, with resources for more information
 - Website will be developed in parallel with FBMSM Working Groups

Stakeholder Input

- Staff is seeking input by June 30 on:
 - Potential refinements to FBMSM Development Framework for this Working Group (slide #7)
 - Emission Reduction Opportunities
 - Projects/approaches used previously that may have future applicability
 - Potential new projects/approaches
 - Suggestions for opportunities that staff should prioritize evaluating
 - Metrics to determine progress of the working group process

Next Steps

- Next working group dates for consideration
 - July 26th and 27th
 - September 12th and 13th
 - Seeking feedback on potential schedule conflicts
- Topics being considered for discussion at next meeting:
 - Update of Framework
 - Potential Opportunities for Emission Reductions to consider
 - Implementing Mechanisms

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Questions or Comments?
