

# Facility-Based Mobile Source Measures: New Development and Redevelopment Projects (EGM-01)



**1<sup>st</sup> Working Group Meeting**  
**May 31, 2017**

**FBMSM**

# Agenda

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- 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: Emission Growth Management Measure (EGM-01) for New Development and Redevelopment Projects



- 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
<b><i>Emission Growth Management Measure:</i></b>					
<b>EGM-01</b>	Emission Reductions from New Development and Redevelopment Projects [All Pollutants]	2018	2019-2031	SCAQMD	TBD

- Measure seeks to capture emission reduction opportunities during the project development phase and opportunities to enable greater deployment of zero and near-zero emission technologies
- Measure does not seek land use authority

# 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

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## FBMSM Development

- Background
- Strategies
- Implementation

**FRAMEWORK**

## Stakeholder Outreach

- Meetings
- Web
- Other media

## Schedule

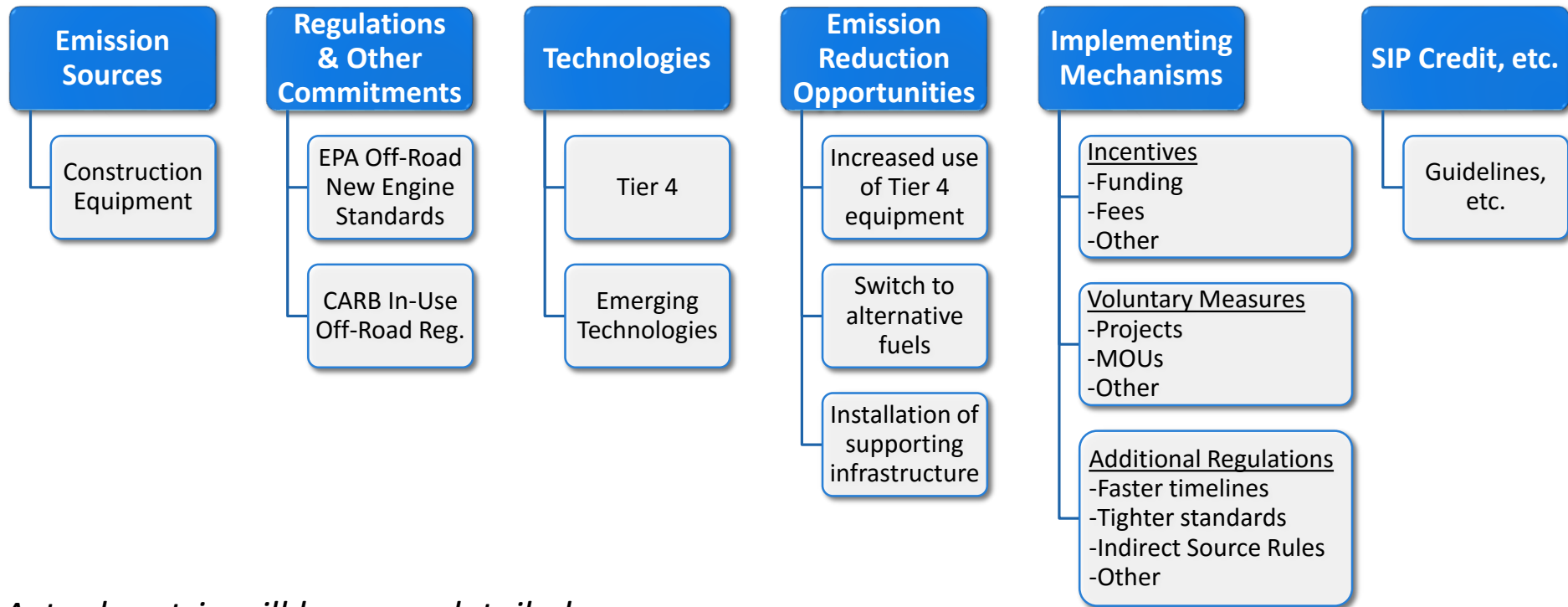
- Sharing Information
- Data Analysis
- Developing Recommendations for SCAQMD Board

# FBMSM Development Framework

<b><u>Background Information</u></b>			<b><u>Strategies</u></b> <i>(Discussion Topics for Working Groups)</i>		<b><u>Implementation</u></b> <i>(Discussion Topics for Working Groups)</i>	
<i>Emission Sources</i>	<i>Regulations &amp; 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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\*Incentive Funding being pursued through separate public process

# FBMSM Development Framework Example



*Actual matrix will be more detailed*



# FBMSM Development Framework

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- Framework will be a living document and posted online
- Staff will provide update to matrix 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

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- Emission Sources from New Development and Redevelopment Projects:
  - New vehicle trips
  - Construction activities and related vehicle trips
  - Landscape maintenance
  - Use of consumer products
  - New stationary source processes such as fuel combustion
  - Other
- Pollutants will vary from each source
  - NO<sub>x</sub> is focus, but opportunities for other pollutants will be considered

# Regulations & Other Commitments

## Existing

- CEQA
- Title 24: 2016 Building Energy Efficiency Standards
- 2016 RTP/SCS
- Local Ordinances
- Advanced Clean Cars
- EPA Off-Road Engine Standards
- CARB In-Use Off-Road Standards
- EPA Heavy Duty On-Road Engine Standards
- CARB Heavy Duty Truck and Bus Rule
- Other

## Future

- 2016 AQMP and CARB State Strategy
- Title 24: 2019 Building Energy Efficiency Standards Update
- 2020 RTP/SCS
- Other



# Regulations & Other Commitments (Continued)

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- 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

## ➤ Off-road construction equipment example:

- EPA sets emissions standards for new engines
- CARB sets in-use standards
  - Idling limits and disclosure
  - Reporting and labeling
  - Restrictions on adding vehicles with older tier engines
  - Performance requirements that demonstrate fleet average targets or BACT
- Tier 4 equipment is commercially available

Emission  
Source

Regulations

Technology

# Emission Reductions Opportunities

## – Example (Continued)

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

**Opportunities  
for Emission  
Reductions**

**Mechanisms,  
SIP Credit**

# Technologies

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- 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

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- 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

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- Next working group dates for consideration
  - July 26<sup>th</sup> and 27<sup>th</sup>
  - September 12<sup>th</sup> and 13<sup>th</sup>
  - 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
  - CEQA

# Staff Contacts

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# Questions or Comments?

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