



## **AIR ISSUES & REGULATIONS COMMITTEE**

**A Committee of the Bay Area Clean Water Agencies**

### Committee Meeting

December 10, 2015

10:00 am – 1:00 pm

# Introductions & Opening

# Agenda

- Introductions and Opening
- Regulatory Updates
  - I. State Regulatory News
  - II. National Regulatory News
- Technical Resources
- Grant Opportunities
- CASA Energy Workgroup Updates
- CWCCG Updates
- AIR Business Items
- Closing



# State Regulatory News

## State Regulatory News

# CalRecycle Assembly Bill 341 Report to the Legislature

# CalRecycle Assembly Bill (AB) 341 Report to the Legislature

- Outlines how CalRecycle expects the state to achieve the 75% recycling goal, as stipulated in AB 341
- Five priority strategies frame CalRecycle's recommendations:
  1. Moving Organics Out of the Landfill
  2. Expanding the Recycling/Manufacturing Infrastructure
  3. Exploring New Approaches for State and Local Funding of Sustainable Waste Management Programs
  4. Promoting State Procurement of Post-Consumer Recycled Content Products
  5. Promoting Extended Producer Responsibility
- Additional information is available at:  
<http://www.calrecycle.ca.gov/Publications/Documents/1538/20151538.pdf>



## State Regulatory News

# Proposed Cap-and-Trade Regulation Amendments

# Proposed Cap-and-Trade Regulation Amendments

- Rulemaking objectives:
  - Extend the Cap-and-Trade Program beyond 2020
  - Improve program efficiency where possible
  - Reflect latest data and information
  - Maintain environmental and market integrity
- See below for the proposed regulatory schedule:

Date	Event
October 2015 to May 2016	Public workshops on specific topics
May 2016	45-day Regulation and Initial Statement of Reasons released
June 2016	First Board hearing
March 2017	Second Board hearing
May 2017	Final Regulation and Final Statement of Reasons to Office of Administrative Law
October 2017	Adopted Regulation becomes effective

- Additional information is available at:

<http://www.arb.ca.gov/cc/capandtrade/meetings/meetings.htm>





## State Regulatory News

# Cap-and-Trade Adaptive Management Process

# Cap-and-Trade Adaptive Management Process

- Proposed Cap-and-Trade Adaptive Management Process:
  - Monitors and responds to emissions trends resulting from the Cap-and-Trade Program
    - Individual Cap-and-Trade Facilities
    - Communities with Multiple Cal-and-Trade Facilities
    - Industrial Sectors
  - May be used as a model for compliance with the Federal Clean Power Plan
- Next steps:
  - Revised Draft Adaptive Management Process released early 2016
  - Additional regional public meetings in 2016
  - Final Proposed Adaptive Management Process presented late 2016
- Additional information is available at:  
<http://www.arb.ca.gov/cc/capandtrade/adaptivemanagement/adaptivemanagement.htm>



## State Regulatory News

# Low Carbon Fuel Standard

# Low Carbon Fuel Standard (LCFS)

- CARB re-adopted the LCFS on September 25<sup>th</sup>
- LCFS Program:
  - Aims to reduce GHG emissions by lowering the carbon content of transportation fuels in California
  - Seeks to resolve administrative issues, including expediting pathway approval processes and extending retroactivity for carbon credits produced
- The following documents provide guidance for the LCFS Program:
  - Draft Guidance Document for LCFS Re-certification
  - Draft Guidance Document for LCFS New Pathway Applications
  - Frequently Asked Questions related to re-certification and new pathway applications under the LCFS
  - The CA-GREET 2.0 models (Tier 1 and Tier 2)
  - Link to the Alternative Fuels Portal and LCFS Reporting Tool and Credit Bank & Transfer System
- Additional information is available at:  
<http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>



## State Regulatory News

# Proposed Off-Road Large Spark Ignition Amendments

# Proposed Off-Road Large Spark Ignition (LSI) Amendments

- LSI is currently focused on reducing emissions and recordkeeping for equipment such as forklifts.
- Proposed LSI Amendments:
  - Set the stage for meeting California emission reduction goals in 2030 and beyond
  - Support the Sustainable Freight Strategy
  - Facilitate uniform compliance
  - Identify zero emission equipment opportunities
- All large and medium fleets will be required to report.
- Reporting requirements:
  - Start June 30, 2017 and end June 30, 2023
  - Fleets report to on-line reporting system
  - Label equipment with CARB-issued Equipment Identification Number (EIN) with one red label with white lettering
- Additional information is available at:  
<http://www.arb.ca.gov/msprog/offroad/orspark/orspark.htm>



# State Regulatory News

## 2016 Building Energy Efficiency Standards

# 2016 Building Energy Efficiency Standards

- Releases the following documents for the 2016 Building Energy Efficiency Standards:
  - 2016 Building Energy Efficiency Standards for Residential and Nonresidential Buildings
  - 2016 Reference Appendices
  - Compliance Manuals and Compliance Documents
  - Worksheets
  - Approved Compliance Modeling Software
  - Alternative Calculation Methods Approval Manual
  - Alternative Calculation Method Reference Manuals
  - Data Registry Requirements Manual
- Additional information is available at:  
<http://www.energy.ca.gov/title24/2016standards/>



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## State Regulatory News

# Carl Moyer Program On-Road Voucher Incentive Program Guidelines

# Carl Moyer Program On-Road Voucher Incentive Program (VIP) Guidelines

- Carl Moyer Program On-Road VIP:
  - Provides funding to reduce on-road heavy-duty diesel truck emissions
  - Applies to owners and operators of fleets of < 10 vehicles
  - Applies to on-road trucks with a GVWR > 14,000 pounds
- Revisions to Appendix O:
  - Corrects errors in the VIP Funding Matrix for Retrofits, which resulted in funding amounts that exceeded the cost-effectiveness limit for the minimum required usages
  - Effective September 21<sup>st</sup>
- Additional information is available at:  
[http://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmp\\_onroadvip\\_09\\_23\\_2015.pdf](http://www.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmp_onroadvip_09_23_2015.pdf)



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# National Regulatory News

# National Regulatory News

## Renewable Fuel Standards

# Renewable Fuel Standards (RFS)

- The RFS program requires a certain volume of renewable fuel to replace or reduce the quantity of petroleum-based transportation fuel, heating oil, or jet fuel used
- USEPA finalized the volume requirements and associated percentage standards that apply under the RFS program, as follows:

Fuel Type	Final Renewable Fuel Volumes*				Final Percentage Standards		
	2014	2015	2016	2017	2014	2015	2016
Cellulosic biofuel (million gallons)	33	123	230	N/A	0.019 %	0.069%	0.128%
Biomass-based diesel (billion gallons)	1.63	1.73	1.90	2.00	1.41%	1.49%	1.59%
Advanced biofuel (billion gallons)	2.67	2.88	3.61	N/A	1.51%	1.62%	2.01%
Renewable fuel (billion gallons)	16.28	16.93	18.11	N/A	9.19%	9.52%	10.10%

\*Units for all volumes are ethanol-equivalent, except for biomass-based diesel volumes which are expressed as physical gallons.

- Additional information is available at: <http://www2.epa.gov/renewable-fuel-standard-program/final-renewable-fuel-standards-2014-2015-and-2016-and-biomass-based>



# Additional Items

**Additional Items**

**Technical Resources**

# CARB Diesel Vehicle and Equipment Training Courses

Course	Date	Location
#100A: The Fundamentals of Enforcement Visible Emissions Evaluation Online Training	Anytime	Interactive Training
#521.6/521.60 CARB Diesel Truck Rules – Compliance Options for 2016	Dec. 14	Webinar
#530: Diesel Truck Events	Dec. 11	Alameda
	Dec. 16	Sacramento (Rocklin)

Additional course information is available at: <https://ssl.arb.ca.gov/training/courselist.php>

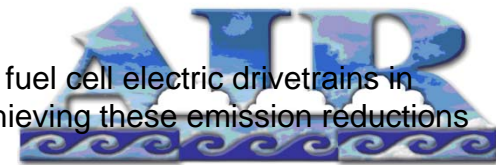


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# CARB Technology Assessments

- “Medium- and Heavy-Duty Battery Electric Trucks and Buses”
  - Identifies the status of battery electric vehicle technology that can reduce emissions.
  - Report is available at: [http://www.arb.ca.gov/msprog/tech/techreport/bev\\_tech\\_report.pdf](http://www.arb.ca.gov/msprog/tech/techreport/bev_tech_report.pdf)
- “Lower NOx Heavy-Duty Diesel Engines”
  - Discuss technology developments necessary to further reduce NOx emissions from heavy-duty diesel engines over the next 5 to 15 years.
  - Report is available at: [http://www.arb.ca.gov/msprog/tech/techreport/diesel\\_tech\\_report.pdf](http://www.arb.ca.gov/msprog/tech/techreport/diesel_tech_report.pdf)
- “Low Emission Natural Gas and Other Alternative Fuel Heavy-Duty Engines”:
  - Discusses the current state and projected development of heavy-duty low emission natural gas engines over the next 5 to 10 years and includes a description of the technology, its suitability in different applications, current and anticipated costs at widespread deployment (where available), and emissions levels.
  - Report is available at: [http://www.arb.ca.gov/msprog/tech/techreport/ng\\_tech\\_report.pdf](http://www.arb.ca.gov/msprog/tech/techreport/ng_tech_report.pdf)
- “Heavy-Duty Hybrid Vehicles”
  - Identifies the status of hybrid vehicle technology and describes the next steps for achieving emission reductions.
  - Report is available at: [http://www.arb.ca.gov/msprog/tech/techreport/hybrid\\_tech\\_report.pdf](http://www.arb.ca.gov/msprog/tech/techreport/hybrid_tech_report.pdf)
- “Medium- and Heavy-Duty Fuel Cell Electric Vehicles”
  - Describes the potential for emission reductions, the market penetration of fuel cell electric drivetrains in medium-duty and heavy duty trucks and buses, and the next steps for achieving these emission reductions from fuel cell electric vehicles.
  - Report is available at: [http://www.arb.ca.gov/msprog/tech/techreport/fc\\_tech\\_report.pdf](http://www.arb.ca.gov/msprog/tech/techreport/fc_tech_report.pdf)



# Clean Power Plan and Cap-and-Trade Program Workshop

- Workshop is scheduled for December 14<sup>th</sup> in Sacramento
- Staff will discuss:
  - Policy options and modeling results and seek stakeholder input regarding strategy for Clean Power Plan compliance
  - Potential modifications to the Cap-and-Trade and Mandatory Greenhouse Gas Reporting Regulations and permitting programs
  - Cap-and-Trade Regulation goals for the upcoming amendment process
  - Potential amendments or processes related to the electricity sector, including the recent mandates of SB 350 for the electricity sector
- Additional information is available at:  
<http://www.arb.ca.gov/cc/powerplants/powerplants.htm>



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# Cap-and-Trade Second Investment Plan Workshop

- Workshop is scheduled for December 17<sup>th</sup> in Sacramento
- Workshop to discuss the 3-year Investment Plan (FY 2016-17 through 2018-19)
- Plan identifies investments to help California achieve its GHG reduction goals, while realizing:
  - Health benefits
  - Economic benefits
  - Environmental benefits
- Bioenergy is featured across several major funding categories
- Comments are due December 14<sup>th</sup>
- Final Second Investment Plan will be submitted in January 2016
- Additional information is available at:

<http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/investmentplan.htm>



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# Second Annual California Multi-Agency Update on Vehicle-Grid Integration Research

- Workshop is scheduled for December 14<sup>th</sup> in Sacramento
- This workshop will:
  - Discuss progress of research for the California Vehicle-Grid Integration Roadmap as part of the Governor's Zero-Emission Vehicle Action Plan
  - Include a panel of fleet operators describing their views on electric vehicle adoption and opportunities for the vehicles to provide grid services as a means of reducing costs or generating revenue
  - Solicit stakeholder feedback on the direction of future research
- Additional information is available at:  
[http://www.energy.ca.gov/research/notices/2015-12-14\\_workshop/2015-12-14\\_Notice\\_Staff\\_Meeting.pdf](http://www.energy.ca.gov/research/notices/2015-12-14_workshop/2015-12-14_Notice_Staff_Meeting.pdf)



# California Legislative Reports

- “AB 1257 Natural Gas Act Report: Strategies to Maximize the Benefits Obtained from Natural Gas as an Energy Source”
  - Provides an overview of natural gas issues in the state and the current status of the natural gas system, and identifies opportunities for additional research and information gathering.
  - Report is available at [http://www.energy.ca.gov/2015\\_energypolicy/documents/index.html#09212015](http://www.energy.ca.gov/2015_energypolicy/documents/index.html#09212015)
- “Beyond 33% Renewables: Grid Integration Policy for a Low-Carbon Future”
  - Provides discussion material that will enable the California Public Utilities Commission to create an action plan for grid integration to meet the statewide goal of 50% renewables by 2050.
  - Report is available at <http://www.cpuc.ca.gov/PUC/energy/reports.htm>



# USEPA ENERGY STAR® Webinars

- December 15<sup>th</sup>: Portfolio Manager 101
  - Introduces the core functionality of the ENERGY STAR Portfolio Manager tool
- December 16<sup>th</sup>: Portfolio Manager 201
  - Dives deeper into more advanced tool functions
- December 17<sup>th</sup>: Portfolio Manager 301
  - Provides more advanced knowledge of tool functions and features
- January 13<sup>th</sup>: How to Apply for the ENERGY STAR
  - Reviews application process for Portfolio Manager Certification
- Registration information is available at:  
<http://www.energystar.gov/buildings/training>



# Green Infrastructure Wizard (GIWiz)

- Beta version released by USEPA
- Interactive web application that:
  - Provides access to green infrastructure tools and resources
  - Helps support and promote water management and community planning decisions
- Tools and resources are pulled from a range of categories, including general information, community-specific projects, and ideas for designing and assessing projects
- Application can be accessed at:

<http://www2.epa.gov/communityhealth/green-infrastructure-wizard>



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# USEPA Water & Climate Resources

- “Energy-Positive Water Resource Recovery (EPWRR) Workshop Report”
  - Outlines the research and actions needed to transform the wastewater treatment facilities of today to a new generation of water resource recovery facilities nationwide, and identify specific opportunities to stimulate and support this transition.
  - Additional information is available at:  
<http://www.energy.gov/eere/bioenergy/energy-positive-water-resource-recovery-workshop-report>
- Addressing Climate Change in the Water Sector Website
  - This website directs users quickly and easily to a variety of resources, including climate change adaptation tools, organizations, training, and research.
  - Additional information is available at: <http://www2.epa.gov/climate-change-water-sector>
- Water Infrastructure and Resiliency Finance Center Website
  - This website is for communities to reference for financing infrastructure related to drinking water, wastewater, and stormwater.
  - Additional information is available at: <http://www2.epa.gov/waterfinancecenter>





# Federal Energy Management Program (FEMP) Certificate Series

- The FEMP Certificate Series has been launched to provide a pathway to help with education and workforce development.
- Some training series include:
  - Water Management: Planning and Practice
  - Sustainable Strategies for Operations and Maintenance and Energy Conservation
  - Project Financing through Utility Energy Service Contracts
  - Project Financing through Energy Savings Performance Contracts
- Each series provides essential knowledge, updates on advanced technologies and tools, and occupation-related best practices.
- Additional information is available at:  
<http://energy.gov/eere/articles/federal-energy-management-program-launches-new-training-series>



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# The Climate Registry General Reporting Protocol Version 2.1

- The Climate Registry has released a draft General Reporting Protocol Version 2.1
- Key updates include incorporation of:
  - New GHG Protocol Scope 2 Guidance
    - Must report two Scope 2 totals
    - Establishes new criteria for contractual instruments
  - Previous updates and clarification documents
  - Other minor policy updates
    - Updated definition of complete reporting
- Comments are due December 23<sup>rd</sup>.
- Draft protocol is available at: [http://www.theclimateregistry.org/wp-content/uploads/2015/11/TCR\\_GRP\\_Version\\_2.1\\_draft-for-Public-Comment.pdf](http://www.theclimateregistry.org/wp-content/uploads/2015/11/TCR_GRP_Version_2.1_draft-for-Public-Comment.pdf)



**Additional Items**

**Grant Opportunities**

# Zero-Emission Truck and Bus Pilot Commercial Deployment Projects Grant

- Funded by CARB
- Intended to help accelerate the deployment of available medium- and heavy-duty zero-emission vehicles by strategically placing a significant number of zero- and near zero emission buses and freight and delivery trucks
- Funding details:
  - Up to \$60,000,000 is available
  - The majority of funding will go towards projects that benefit disadvantaged communities
- Applications are due January 29, 2016
- Additional information is available at:  
<http://www.arb.ca.gov/msprog/aqip/solicitations.htm>



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# Clean Vehicle Rebate Project (CVRP)

- CVRP:
  - Accelerates the number of ultra-clean vehicles sold in California
  - Helps establish a sustainable market
- Offers rebate funding for zero-emission and plug-in hybrid electric vehicles:
  - 73% of Fiscal Year 2015-2016 funding still available
  - Applications accepted on a first-come, first-serve basis
- Rebates offered for purchase or lease:
  - \$5,000 per hydrogen fuel cell vehicle
  - \$2,500 per battery electric vehicle
  - \$1,500 per plug-in hybrid electric vehicle
- Additional information is available at:  
<https://cleanvehiclerebate.org/eng/about-cvrp>



# GFO-15-313: Developing the Smart Grid of 2020: Clean, Safe, and Highly Intelligent

- Funded by the California Energy Commission (CEC)
- Grants will fund applied research and development projects to help meet the Governor's goal of 20 GW of renewable generation by 2020
- Projects must fall within one of the following funding categories:
  - Smart Grid Operation and Management Practices (up to \$1.5 million per project)
  - Distribution Automation Enhancements (up to \$2.5 million per project)
  - Bi-directional Distribution Equipment, Devices, and Technologies (up to \$2.5 million per project)
- Pre-application workshop is scheduled for December 11<sup>th</sup> in Sacramento
- Applications are due January 15, 2016
- Additional information is available at:  
<http://www.energy.ca.gov/contracts/GFO-15-313/>



# Vehicle-Grid Integration Solicitation under the Second EPIC Investment Plan

- Related to the vehicle-grid integration portions of the CEC's 2015-2017 Triennial EPIC Investment Plan
- The solicitation will address initiatives under:
  - Strategic Objective S9, "Advance Electric Vehicle Infrastructure to Provide Electricity System Benefits"
  - Strategic Objective S16, "Expand Smart Charging and Vehicle-to-Grid Power Transfer for Electric Vehicles"
- Workshop:
  - Scheduled for December 15th in Sacramento
  - Intended to gather public comments on the draft solicitation materials
- Comments are due December 29<sup>th</sup>
- Additional information is available at:

[http://www.energy.ca.gov/research/notices/2015-12-15\\_workshop/2015-12-15\\_Noteice\\_Staff\\_Meeting.pdf](http://www.energy.ca.gov/research/notices/2015-12-15_workshop/2015-12-15_Noteice_Staff_Meeting.pdf)



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# Proposition 1 Storm Water Grant Program (SWGP) Guidelines

- Final Draft Guidelines:
  - Released November 18<sup>th</sup>
  - Will be considered for adoption on December 15<sup>th</sup>
  - Applications expected for release in January 2016
- The Funding Guidelines are intended to establish the process and criteria that the State Water Board will use to:
  - Solicit applications
  - Evaluate and select proposals
  - Award grants
- \$200 million available for multi-benefit storm water management projects
- Eligible storm water management project types include:
  - Green infrastructure
  - Rainwater and storm water capture projects
  - Storm water treatment facilities
- Additional information is available at:  
[http://www.swrcb.ca.gov/water\\_issues/programs/grants\\_loans/swgp/prop1/](http://www.swrcb.ca.gov/water_issues/programs/grants_loans/swgp/prop1/)





# Climate Action Champions Initiative

- Launched by the White House to recognize local heroes who are devoted to:
  - Reducing carbon emissions
  - Mitigating weather extremes caused by climate change
- San Francisco:
  - Selected as one of ten recipients
  - Received up to \$800,000 in funding assistance
- Additional information is available at:  
<http://energy.gov/eere/articles/running-race-clean-energy>



# BAAMQD Electric Vehicle Fleet Grants

- \$14 million in grant funding to accelerate electric vehicle (EV) fleet adoption
- Funding is available to Bay Area businesses for the following:
  - Charge! Program: Expansion of the Bay Area's network of electric chargers at workplaces
    - \$5 million in funding is available
    - Min \$10,000 and max \$250,000 per project
  - Over \$13 million is available for all EV-related programs
    - Light Duty EVs in Fleets: Funding is available for the purchase or lease of zero-emissions light duty vehicles in high mileage fleets
    - Heavy Duty EVs: Funding is available for the purchase or lease of zero-emissions heavy duty vehicles
- Applications due December 18<sup>th</sup>, or until funds are exhausted
- Additional information is available at: <http://www.baamqd.gov/grant-funding/public-agencies>



**Additional Items**

**CASA Energy Workgroup &  
CWCCG Updates**

# CASA Energy Workgroup Updates

- Composting and Anaerobic Digestion Regulations
  - Grant an exemption for POTWs receiving hauled in organic waste for co-digestion
  - Approved November 10<sup>th</sup>
  - Effective on January 1, 2016
  - Additional information is available at:  
<http://www.calrecycle.ca.gov/Laws/Rulemaking/Compost/default.htm>
- Other?



# CWCCG Updates

- “Safeguarding California: Implementation Action Plans”
  - Sets forth how the state will help residents, communities, and natural systems adapt to the potentially catastrophic effects of climate change; analyzes what actions have already been taken to prepare for climate change; and details steps that still need to be taken across ten sectors
  - Report is available at <http://resources.ca.gov/climate/safeguarding/>
  - Draft comment letter was circulated December 7<sup>th</sup> for review.
- “Draft Short-Lived Climate Pollutant Reduction Strategy”
  - Identifies additional measures to reduce short-lived climate pollutants, such as methane, black carbon, and fluorinated gases
  - Will build upon California’s leading commitments to reduce GHG emissions by 40% below 1990 levels by 2030
  - CWCCG provided comments on the draft on October 30<sup>th</sup>
  - Additional information is available at:  
<http://www.arb.ca.gov/cc/shortlived/shortlived.htm>
- Other?



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**Additional Items**

**AIR Business Items**

# BACWA AIR Business Items

- Total budget for FY 2015/2016: \$52,000
  - Spent through Friday, December 4<sup>th</sup>:
    - Approximately \$16,700
    - 32% of budget
- Plan for remaining meetings:
  - Routine Regulatory Meeting (Winter/Spring 2016)
  - Annual meeting with BAAQMD (Spring 2016)
- Other?



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# Closing

Next Meeting: February or March 2016