



West Coast Collaborative Communicator

Winter/Spring 2013

The **West Coast Collaborative (Collaborative)**, staffed by the U.S. Environmental Protection Agency’s (EPA) Pacific Southwest Region 9 and Pacific Northwest and Region 10 Offices, protects public health by reducing diesel emissions and promoting clean air technologies and practices through public-private partnerships in Western North America. The Collaborative is an ambitious partnership between leaders from federal, state, and local government, the private sector, and environmental groups committed to reducing diesel emissions along the West Coast. Our partners come from all over Western North America, including California, Oregon, Washington, Alaska, Arizona, Idaho, Nevada, Hawaii, Canada, Mexico, Asian Pacific regions, and Pacific Islands that include the Territory of Guam, the Commonwealth of the Northern Marina Islands (CNMI), and the Territory of American Samoa. The Collaborative is focused on creating, supporting and implementing diesel emissions reductions projects by providing technical assistance and funding opportunities. [More information about the West Coast Collaborative.](#)

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Please send relevant new announcements, corrections, or other ideas and suggestions to the West Coast Collaborative at dieselgrants@epa.gov



Upcoming Events

West Coast Collaborative Trucking Sector Webinar

February 6, 2013

11 a.m. – 12:30 pm PST

Call-In Details: Phone: 866-299-3188

Passcode: 415-972-7418#

Webinar Access:

epa.connectsolutions.com/wcctrucking/

Instructions to All Participants Prior to the Webinar: Please log into the webinar prior to the start of the webinar, and access the URL above. Choose "Enter as Guest." Under "Name", list your name and organization (i.e John Doe, US EPA), and click "Enter Room."

For more information, contact the WCC Trucking Sector Lead, Trina Martynowicz, at (415) 972-3474 or Martnowicz.Trina@epa.gov

**National Biodiesel Conference and Expo
February 4-7, 2013 in Las Vegas, NV**

The National Biodiesel Board is hosting its tenth annual National Biodiesel Conference & Expo on February 4-7, 2013 in Las Vegas. The annual conference is attended by fuel producers, petroleum distributors, soybean growers, agricultural commodity organizations, scientists, policy makers, and alternative fuel users and enthusiasts. More information is available [HERE](#).

**AGRION: Measuring Greenhouse Gas Emissions Trough the Supply Chain
February 6, 2013 in San Francisco, CA**

This panel brings together experts who will describe, debate, and recommend strategies for gaining visibility and exercising the needed influence to implement a winning sustainable supply chain strategy, as well as describe various methodologies for measuring and reporting supply chain greenhouse gas emissions. More information is available [HERE](#).

**California Maritime Leadership Symposium
February 20-21, 2013 in Sacramento, CA**

The California Maritime Leadership Symposium (CMLS) is hosted by a coalition of the maritime industry, headed up by the California Association of Port Authorities and other industry stakeholders. The thirteenth annual CMLS focuses on briefing California policymakers on matters related to the maritime transportation system. This symposium brings together port executives, commissioners, and other interested parties from across the State to seek resolution of the maritime transportation system's complex challenges. For more information, visit: <http://maritimesymposium.com>.

**Green Truck Summit and Work Truck Show
March 5-6, 2013 in Indianapolis, IN**

The National Truck Equipment Association's (NTEA's) Green Truck Summit and Work Truck Show have become leading educational forums on how the "green revolution" impacts vocational trucks. Top industry experts and fleet managers will share their insights, lessons learned, and

solutions for implementing green technologies through a series of intensive seminars. As North America's largest work truck event, these events provide an opportunity to interact with thousands of industry peers, meet with suppliers, answer technical questions, visit with hundreds of exhibiting companies, and ride and drive the next generation of advanced technology trucks and buses. Topics of the Green Truck Summit include: clean technologies and fuels trends, deployment strategies, upcoming technologies for commercial trucks, and discussion of the pros and cons of alternative fuels, including propane and natural gas. For more information visit: <http://www.ntea.com>.

**World Biofuel Market Congress and Expo
March 12-14, 2013 in Rotterdam, Netherlands**

The World Biofuels Market Congress and Exhibition was developed in 2006 in response to the new global market for alternative, lower emission renewable fuels. Over 260 speakers will share their experiences and perspectives on all aspects of the biofuels industry during three days of interactive conference sessions. More information is available [HERE](#).

**California Hybrid, Efficient, and Advanced Truck Research Center (CalHEAT) Forum
March 26, 2013 in Sacramento, CA**

CalHEAT is a California-based research, planning, demonstration and commercialization center for efficient medium- and heavy-duty vehicles. Calstart's CalHEAT coordinates the development of an overall research and Market Transformation Roadmap. The strategies and pathways outlined in this document will deliver clear actionable steps to meet or exceed the 2020 goals for California in petroleum reduction, carbon reduction, and air quality standards, and set up a framework and timeline for longer-term goals for carbon reduction. The CalHEAT Forum 2013 will include a discussion of the CalHEAT Market Transformation Roadmap priorities and next steps. More information is available [HERE](#).

**Energy Independence Summit 2013
April 8-10, 2013 in Washington, D.C.**

Transportation Energy Partners' Energy Independence Summit is one of the nation's largest gatherings to discuss alternative energy policy. The Summit brings together Clean Cities coordinators and clean transportation stakeholders to educate government leaders about policies to promote the widespread use of cleaner vehicles and fuels. More information is available [HERE](#).

**American Council for an Energy Efficient Economy (ACEEE) Finance Forum
May 13-15, 2013 in Chicago, IL**

The ACEEE's 7th Annual Energy Efficiency Finance Forum will provide information regarding the latest opportunities in energy efficiency financing and investing. Designed specifically for investors, financiers, utilities, and policymakers, speakers from a variety of sectors and industries will provide their perspectives on a broad number of topics including:

- Recent developments with innovative financing mechanisms;
- Insights into the financial regulatory landscape;
- Opportunities for financing energy-efficient infrastructure;
- Combating split incentives in multi-tenant markets; and
- Data-driven asset valuation.

For more information about the ACEEE forum, visit: <http://aceee.org/conferences/2013/eeff>.

**Alternative Clean Transportation (ACT) Expo
June 24-27, 2013 in Washington, D.C.**

ACT Expo 2013 will bring together more than 3,000 stakeholders – fleets, technology companies, vehicle manufacturers, fuel providers, infrastructure developers, and policymakers – for a discussion about the rapidly evolving clean transportation industry. The ACT Expo targets transportation fleet professionals responsible for procuring and maintaining their fleet operations, as well as industry stakeholders looking to make investments in these advanced technologies and

alternative fuel opportunities. To learn more, contact Tony Quist at Tony.Quist@gladstein.org or tel: (310) 573-8564.

**High Horsepower (HHP) Summit 2013
September 17-19, 2013 in Chicago, IL**

The second annual High Horsepower Summit: Natural Gas for High Horsepower Applications, is expected to draw increased crowds and industry participation as the use of domestic natural gas continues to surge in a variety of fuel-hungry applications. The HHP Summit brings together end-users from the marine, rail, exploration and production, mining and other industries using fuel-hungry, high horsepower engines to learn about the potential benefits of switching to natural gas. Caterpillar, Encana, and AGL Resources return to the summit as presenting sponsors. More information is available [HERE](#).

**2013 Railroad Environmental Conference
November 5-6, 2013 in Urbana, IL**

The 2013 Railroad Environmental Conference (RREC) will feature presentations by railroaders, consulting engineers, academics and others involved in all aspects of railroad environmental topics. Presentation topics will include: pollution prevention; energy, emissions and air quality; noise and vibration; environmental management systems; compliance; risk and liability management; remediation; and training. Almost 500 people attended the RREC last year with representation from the railroad industry, environmental consulting engineers, environmental control equipment suppliers and regulators from both the US and Canada. More information is available [HERE](#).

California Air Resource Board (CARB)
[upcoming events](#).

California Energy Commission (CEC)
[upcoming events](#).

South Coast Air Quality Management District
[upcoming events](#).

CALSTART [upcoming events](#).



Professional Development

[Natural Gas Vehicle Institute](#)

February 2013

The Natural Gas Vehicle Institute (NGVi) has announced three new training courses for this February in Las Vegas, Nevada:

- NGV Technician and Safety Operator Training (February 4)
- CNG Fuel System Inspector Training (February 5-6)
- CNG Fueling Station Operation and Maintenance (February 7-8)

Established in 1989, NGVi has worked with hundreds of companies and government agencies worldwide to help them achieve their natural gas vehicle goals.

[Northwest Environmental Training Center Courses](#)

Ongoing

The Northwest Environmental Training Center (NWETC) delivers tailored courses on current policy, standards, technology and regulations for environmental professionals. NWETC provides opportunities for continued education in a wide variety of topics. Custom on-site training is offered by request both regionally and nationally. Discounts are available for Government employees and members of other groups.

[Western States Air Resources Council \(WESTAR\) Training](#)

Ongoing

Westar provides training courses throughout the western United States to help air quality professionals develop, implement, and enforce air pollution control strategies. Courses include Air Dispersion Modeling, Advanced New Source Review/Prevention of Significant Deterioration, Combustion Source Evaluation, and many others.

[EPA's Air Pollution Training Institute](#)

Ongoing

EPA's Air Pollution Training Institute conducts about 20 different courses annually throughout the United States. Courses include Quality Assurance for Air Pollution Measurement Systems, Fugitive VOC Inspections, Air Dispersion Modeling for Permit Engineers and many others.

[EUCI Training](#)

Ongoing

EUCI conducts ongoing on-line training courses for energy sector professionals. Courses include: Stationary Engines Emissions Compliance; Combustion, Emissions, and Efficient Boiler Operations; Solar Power Purchase Agreements and others. EUCI also offers continuing education training as an authorized provider by the International Association for Continuing Education and Training.

[Green Transportation Workforce Development Training](#)

Ongoing

Green Transportation Workforce Development offers extensive programs and classes in the San Jose, CA area covering maintenance, repair, and operation of alternative fuel and advanced technology vehicles. Programs target fleet operators, technicians, educators and the general public.

[CARB Compliance Training](#)

Ongoing

CARB offers courses throughout California to facilitate safe and environmentally friendly equipment operation and compliance with air quality regulations, including:

- Above Ground Storage Tanks
- Advanced Portable Equipment Regulation
- Asbestos: Demolition and Renovation
- Biomass Fired Boilers
- Cal/EPA Basic Inspector Academy
- Coatings: Auto, Metal Parts, and Products
- Fundamentals of Enforcement



Available Funding

Funding Available Nationally

Clean Energy Fuels Funding for LNG Trucks

Clean Energy Fuels recently completed the first stage of America's Natural Gas Highway for LNG truck fueling, and will consider loans and grants to interested fleet operators willing to buy fuel from the company to maintain volumes at the new locations. To open without the danger LNG venting, each of the 70 completed stations will eventually need at least 25 trucks each burning about 20,000 gallons per year. According to Clean Energy Fuels, the company is considering grants or loans towards purchase of LNG trucks in exchange for multi-year fueling agreements. For more information, contact Jim Harger of Clean Energy at tel (562) 493-2804, ext. 223 or jharger@cleanenergyfuels.com.

USDA Natural Resources Conservation Service Environmental Quality Incentives Program (EQIP)

EQIP is a voluntary program that provides financial and technical assistance to agricultural producers through contracts of up to ten years. This program provides financial assistance to help plan and implement conservation practices that address natural resource concerns and to improve soil, water, plant, animal, air and related resources on agricultural land and non-industrial private forestland. One goal of EQIP is to help agricultural producers meet Federal, State, Tribal and local environmental regulations. More information is available [HERE](#).

Idle Reduction Rebates through Shorepower Truck Electrification Project (STEP)

Rebate requests accepted until March 31, 2013.

The STEP Rebate program, implemented by Cascade Sierra Solutions (CSS), offers incentives of up to twenty percent of the installed equipment price or a maximum amount by category for

equipment that can hook up to the power grid or operate on battery power to eliminate engine idling. Long-haul truck owners can apply on-line at the [CSS web site](#) for rebates on idle reduction equipment when they agree to use truck stop electrification sites over the next three years.

DOE, Clean Cities Current Funding Opportunities

Current transportation-related financial opportunities, including Clean Cities funding opportunity announcements (FOAs) issued by the DOE, are listed [HERE](#) when available. For help with the funding process, contact your local [Clean Cities coordinator](#).

DOE Biomass Program

The DOE's Energy, Efficiency and Renewable Energy Biomass Program is helping transform the nation's renewable and abundant biomass resources into cost-competitive, high-performance biofuels, bioproducts, and biopower. More info regarding available funding is available [HERE](#).

State Funding

California: Providing Loan Assistance for California Equipment (PLACE) Program

CARB is funding innovative financing programs to provide fleet owners, particularly small business owners, easier access to loans needed to purchase newer, cleaner vehicles and equipment. CARB's loan programs offer several options to increase financing accessibility for both on- and off-road fleets, including loans, loan guarantees, and other mechanisms to assist industries affected by CARB regulations. More information is available [HERE](#).

California: Truck Lease-to-Own Financing Option

CARB has partnered with the California State Treasurer's Office to offer Terminal Rental Adjustment Clause (TRAC) leases. TRAC leases

are popular with many truck fleets as they provide federal tax advantages and include an option for purchase of the vehicle at the end of the lease term. For more information, see http://www.arb.ca.gov/html/fact_sheets/trac_new_financing.pdf

California: Voucher Incentive Program

CARB's On-Road Voucher Incentive Program is a streamlined funding mechanism within the Carl Moyer Program that is implemented by local air districts. The goal of the program is to provide vouchers for fleets with ten or fewer vehicles to quickly replace or retrofit their older diesel trucks. Trucks owners can be based anywhere in California. For more information, contact a participating dealership or retrofit installer, or contact the CARB Diesel Hotline at tel (866)-6DIESEL (866)-634-3735 or email 8666DIESEL@arb.ca.gov.

California: Hybrid Truck and Bus Voucher Incentive Project (HVIP)

CARB's HVIP provides vouchers to help speed the early market introduction of clean, low-carbon hybrid and electric trucks and buses. HVIP accomplishes this by addressing the biggest barrier for fleet purchase of medium- and heavy-duty hybrids: the high incremental cost of these vehicles in the early market years when production volumes are still low. The current Year 3 HVIP includes higher voucher amounts for zero-emission vehicles and funding for aerial boom vehicles with electric power take-off. More information can be found at <http://www.californiahvip.org>.

California: San Joaquin Valley HVIP Plus

\$1.9 million in San Joaquin Valley Air Pollution Control District HVIP "plus-up" project funding is now available. The project provides additional funding for HVIP-eligible vehicles that will operate 100 percent in the San Joaquin Valley Air Basin. For example, if a \$45,000 voucher was requested for a zero-emission truck in the San Joaquin Valley, it could now receive an additional \$30,000 for a total of \$75,000 in voucher funding. For more information, visit: <http://www.californiahvip.org>.

Oregon: Commercial Electric Truck Incentive Program (CETIP)

Oregon is launching a new electric truck buyer incentive program modeled after California's HVIP, using federal Congestion Mitigation and Air Quality (CMAQ) funding. The Oregon Department of Transportation will provide incentives to offset the cost of purchasing up to 200 eligible zero-emission urban delivery trucks. CETIP will be offered in the form of \$20,000 vouchers per eligible all-electric vehicle over 10,000 pounds. The incentives are available to companies in CMAQ-eligible communities in Oregon, including the tri-county Portland metro area, the Rogue Valley and Grants Pass, Klamath Falls, La Grande, Lakeview and Oakridge. In order to qualify, companies must replace an existing diesel-powered vehicle with an eligible electric truck. For more information, visit: www.oregon.gov/ODOT/GOVREL/Pages/news/090512a.aspx.

Local Funding

California: Electric Truck & Charging Infrastructure in the South Coast

The South Coast Air Quality Management District (AQMD), US EPA, and CARB are providing funding to help fleet owners replace medium-duty diesel trucks with battery electric trucks. Fleets may be eligible to receive up to \$75,000 per electric truck, plus \$4,000 per unit for installation of electric vehicle charging infrastructure with combined AQMD and CARB funds. This funding program is intended to promote the use of battery electric trucks in goods movement operations to reduce air pollution and greenhouse gases, and to protect the public health in specific areas of the South Coast Air Basin. These battery electric trucks must operate in: the cities of San Bernardino or Ontario; the Boyle Heights neighborhood of the City of Los Angeles; or the port communities of San Pedro, Long Beach or Wilmington. The U.S. EPA awarded the South Coast AQMD grant funds for the purchase of new electric trucks. South Coast AQMD will run a competition to provide this funding. Interested

fleets must apply to the AQMD's [Request for Proposals \(RFP\)](#) solicitation by February 12, 2013.

California: New San Joaquin Valley Agricultural Tractor Replacement Program

The San Joaquin Valley Air Pollution Control District is now offering incentives to replace existing agricultural tractors or off-road equipment with new reduced-emission replacement equipment. This first-come, first served multi-million dollar program provides up to 80 percent of the cost of the new equipment, with actual funding amounts based upon a set dollar per equipment horsepower. For more information, visit: www.valleyair.org/grant_programs/grantprograms.htm or call the air district funding hotline at tel: (559) 230-5858.

California: Carl Moyer Program

Since 1998, CARB's Carl Moyer Program has provided funding for near-term air pollution emission reductions for cleaner-than required heavy-duty engines and emission control devices.

More information [HERE](#) or call the [contact person for your district](#).

California: Air District Grant Funding

California's 35 local air districts utilize motor vehicle fees, voter approved bonds, and other revenues to implement a variety of air quality incentive programs. For California air district funding information, visit:

- [South Coast AQMD](#)
- [San Joaquin Valley APCD](#)
- [Bay Area AQMD](#)
- [Sacramento Metropolitan AQMD](#)
- [San Diego APCD](#)
- [Other California Air Districts](#)

Ports of Los Angeles and Long Beach, CA: San Pedro Ports Funding Opportunities

The Ports of Los Angeles and Long Beach offer various funding opportunities to demonstrate and deploy port trucks, cargo handling equipment, marine vessels and locomotives. More information can be found [HERE](#).



News & Information

Congress Extends Alternative Fuel and Infrastructure Tax Credits

The United States Congress passed the American Taxpayer Relief Act of 2012 on Jan. 1, 2013, which provides one-year extensions for several tax credits, including those for compressed natural gas (CNG), liquefied natural gas (LNG), and propane. Specifically, this includes the 50-cent per greenhouse gas equivalent alternative-fuel tax credit for CNG, LNG, and propane, and the \$30,000 infrastructure tax credit. The tax credits are extended until Dec. 31, 2013 and are retroactive for all of 2012. Other actions include:

- Credit for alternative-fuel vehicle refueling property was extended to December 31, 2013 and retroactive to infrastructure installed after December 31, 2011.
- Alternative fuels excise tax credits were extended to December 31, 2013, retroactive for all of 2012.
- Tax credits were provided for two- or three-wheeled plug-in electric vehicles.
- Extension and modification provided for cellulosic biofuel producer tax credits.
- Special allowance for cellulosic biofuel plant property was extended to Jan. 1, 2014.

Details of the American Taxpayer Relief Act can be found [HERE](#).

New State Air Quality Association Announced

On January 23, 2012, the Ohio Environmental Protection Agency and other state environmental agencies announced that it and 16 other states have formed a new organization – the Association of Air Pollution Control Agencies (AAPCA) – as an alternative to the [National Association of Clean Air Agencies](#) (NACAA). The new association is intended to provide the kind of technical assistance with implementing the Clean Air Act that NACAA has provided. More information is available [HERE](#).

Clean Cities' First Fuels Fix Newsletter

DOE's Clean Cities has published its inaugural edition of Fuels Fix, a new quarterly newsletter providing the latest national news and information about alternative and advanced technology vehicles, funding, and conferences. To view the first edition or be put on the newsletter distribution list, visit: <http://fuelsfix.com/>

Proposition 1B Program Updates

On January 25, 2013, CARB approved updates to the Prop 1B Goods Movement Emission Reduction Program to its Board for consideration. These updates:

- expand program eligibility to Class 6 trucks, and prioritize funding for zero-emission trucks
- modify maximum grant awards,
- increase funding for Tier 4 locomotives,
- provide progress payments for shore power, and
- streamline fleet and local agency implementation requirements

These updates apply to Year 4 and later program funds, which is up to \$393 million (subject to approved Bond sales). For more information, visit: www.arb.ca.gov/bonds/gmbond/gmbond.htm

EPA Finalizes Revisions to Clean Air Standards for Stationary Engines

On January 14, 2013, US EPA finalized revisions to standards to reduce air pollution from stationary engines that generate electricity and power equipment at industrial, agricultural, oil and gas

production, power generation and other facilities. The final revised rule announced today will reduce the capital and annual costs of the original 2010 rules by \$287 million and \$139 million, respectively, while reducing harmful pollutants, including 2,800 tons per year (tpy) of hazardous air pollutants; 36,000 tpy of carbon monoxide; 2,800 tpy of particulate matter; 9,600 tpy of nitrogen oxides, and 36,000 tpy of volatile organic compounds. More information is available [HERE](#).

California GHG Emissions Decline for Third Straight Year

California's greenhouse gas emissions fell in 2011 for the third straight year, coming in below the cap that regulators have set for the first year of emissions trading in 2013. Industrial emissions have fallen steadily since businesses began reporting them to the state in 2008, [data](#) released by the CARB last week show. A decrease in emissions from electricity generation accounted for nearly all of the downturn, falling from 52.3 million tons in 2008 to 34.9 million tons in 2011. The state attributed the in-state decline to a decrease in consumption, as well as an increase in renewable generation and a slight uptick in electricity imported from out of state. More information is available [HERE](#).

Supreme Court to Review Clean Truck Program

On January 11, 2013, the Supreme Court agreed to examine the legality of the clean truck program run by the Port of Los Angeles. Introduced in 2008, the program placed restrictions on operators of drayage trucks used to transport cargo as part of an effort to reduce air pollution. Under the terms of the proposal, which was challenged by the American Trucking Associations, older trucks were banned and incentives were given to companies to buy new trucks. In a September 2011 ruling, the San Francisco-based 9th U.S. Circuit Court of Appeals upheld the bulk of the program while invalidating one section. The Obama administration had asked the court not to take the case in December 2012. More information is available [HERE](#).

EPA and DOE Release 2013 Fuel Economy Guide

The US EPA and DOE have officially released their 2013 Fuel Economy Guide, which provides readers with EPA fuel economy rating information for new vehicles. The 2013 guide features a top ten list of the most efficient vehicles, separating conventional gasoline and diesel powertrain models from alternative-fuel, plug-in hybrid, and all-electric powertrains. The 2013 Fuel Economy Guide also provides an annual fuel cost estimate for each vehicle using national mileage estimates, miles per gallon ratings, and average fuel prices. The online version of the guide allows users to enter their own gasoline price information to receive a personalized fuel cost estimate. The guide also features a greenhouse gas emissions rating for each model. More information is available [HERE](#).

LNG as a Marine Fuel White Paper

In January 2013, FC Business Intelligence released its white paper, 'LNG as a Marine Fuel in the US: The Commercial Realities'. The paper examines the regulatory, commercial, and technical challenges to, and benefits of, utilizing LNG as a marine fuel. FC Business Intelligence is a business networking company that advises corporations on business strategies and growth opportunities. Their white paper is available [HERE](#).

EPA Provides Waiver for California Clean Car Requirements

On December 26, 2012, US EPA gave approved California's Advanced Clean Cars package of regulations. This sets the stage for a new generation of ultra-clean cars starting in 2017 that reduce smog-forming and greenhouse gas emissions and pave the way for increased numbers of zero-emission vehicles through 2025 and beyond. The approval also clears the way for other states covering up to 40 percent of new car sales nationally to adopt California's. This will ensure that the latest technologies will further reduce smog-forming emissions nearly to zero and boost the numbers of zero-emission vehicles sold through 2025. The Advanced Clean Car package includes the Low Emission Vehicle standard (LEV III)

regulation, designed to reduce smog-causing pollutants in gasoline powered vehicles 75 percent by 2025 from 2017 levels. This standard will also reduce greenhouse gas emissions from those same vehicles by 34 percent, a figure that parallels federal regulations. More information can be found [HERE](#).

CARB Approves First of New Generation of Clean Cars

On December 26, 2012, the California Air Resources Board approved the first car for sale in California that meets CARB's most stringent smog-emission standard. The 2014 Honda Plug-In Hybrid Accord produces only 20 milligrams of combined smog-forming emissions per mile. This makes it the first gasoline-powered car in California to meet what is known as the SULEV20 standard, the most stringent in the nation and one-third cleaner (in terms of smog-forming pollution) than the previous lowest state standard. More information can be found [HERE](#).

Indianapolis to Require Plug-In Hybrid or EV Purchases

On December 12, 2012, Indianapolis, Indiana Mayor Greg Ballard signed an Executive Order requiring purchase of plug-in hybrid or electric vehicles for use in the non-police the City's fleet when purchasing new vehicles and when existing vehicles are replaced. The City's goal is to have all of its sedans, other light-duty vehicles, its heavy-duty units, and its police vehicles equipped with alternative powertrain types by 2025. More information is available [HERE](#).

City of Sacramento to Test Wireless EV Charging

The City of Sacramento, California has joined the Evatran Apollo Trial Program to test wireless electric vehicle (EV) charging technology on its own EVs. Evatran's Plugless Power technology, based on the principle of magnetic induction, was developed to allow electric vehicle drivers to avoid the repetitive process of physically plugging in and unplugging their EVs on a daily basis. Sacramento currently has five Chevrolet Volts, and it expects four Ford Focus electric vehicles to

be delivered soon. More information is available [HERE](#).

Chicago Announces \$15 Million Electric Truck Incentive Program

On November 28, 2012, Chicago Mayor Rahm Emanuel announced a new \$15 million electric truck incentive program, and that Smith Electric will open a new electric vehicle manufacturing facility within the city. Much like a recent State of Oregon initiative, Chicago is utilizing Congestion Mitigation and Air Quality (CMAQ) funding to launch its incentive program. Chicago will be Smith's third U.S. manufacturing location, joining the firm's Kansas City headquarters and a new manufacturing facility in New York City. More information is available [HERE](#).

ARPA-E Awards \$130 Million for 66 Projects

On November 28, 2012, the Department of Energy announced 66 research projects selected by its Advanced Research Projects Agency-Energy (ARPA-E) to receive a total of \$130 million in funding through its "OPEN 2012" program. ARPA-E seeks out transformational technologies that show fundamental technical promise but are

not ready for private-sector investment. The selected projects encompass 11 technology areas in 24 states, with approximately 47 percent of the projects led by universities, 29 percent by small businesses, 15 percent by large businesses, 7 percent by national labs, and 2 percent by non-profits. The announcement brings ARPA-E's total portfolio of projects to about 285, for a total of approximately \$770 million in awards. More information is available [HERE](#).

Natural Gas Vehicle Market Analysis

TIAX LLC has conducted an assessment of the U.S. and Canadian natural gas vehicle market, which examines the key technical, economic, regulatory, social and political drivers and challenges that shape this market. This assessment was sponsored by America's Natural Gas Alliance with the support of participating American Gas Association companies. The Compressed Natural Gas and Liquefied Natural Gas Infrastructure portions of this report are now publicly available and can be downloaded [HERE](#).



New Reports & Tools

EDF Study Evaluates Emissions Impact of Panama Canal Expansion

The peer-reviewed [Panama Canal Expansion: Emission Changes from Possible U.S. West Coast Modal Shift](#), published in a special issue of the journal Carbon Management, studies the environmental opportunities presented by the expansion of the Panama Canal, slated for completion in 2014, for the intermodal container shipping industry. The report evaluates whether a modal shift of east coast-bound cargo onto larger ships through an expanded canal offers net emission reductions compared with the land-freight truck/rail network via the west coast. The

report finds that this modal shift may not provide emission benefits. When taking future cargo volumes into consideration and assuming a ten percent diversion from the west coast to the east coast, the effects of the expansion on CO₂ emissions appear to be negligible because of longer distances traveled, the report concludes.

CARB May Ease Vehicle Upfit Requirements

The California Air Resources Board held a workshop on January 22, 2013 to begin the process of streamlining the state's requirements for alternative fuel and other vehicle conversions. On the table, says CARB, are "applicability,

demonstrating emission compliance, demonstrating on-board diagnostic compliance, and carry-over for new vehicle/engine alternative fuel certifications to subsequent model years.” The workshop covered preliminary concepts of how to simplify the application process while preserving emissions benefits. For more information, contact Dean Bloudoff of ARB at tel. (916) 322-8987 or dbloudof@arb.ca.gov .

Best Practices for Clean Diesel Construction

The Northeast Diesel Collaborative has published its best practices for minimizing diesel emissions during construction projects, including how to develop and implement clean diesel equipment practices and specifications to include in a construction bid package. More information is available [HERE](#).

AFDC Launches New Petroleum Reduction Planning Tool

The Alternative Fuels Data Center (AFDC) has launched a new planning tool to help fleet managers set annual goals for petroleum reduction and greenhouse gas (GHG) emissions, as well as evaluate strategies for achieving them. The new calculator allows input on a variety of approaches, including: replacing vehicles; using alternative fuel in existing vehicles; reducing idling; reducing miles driven; and adopting fuel-efficient driving behaviors. Using this input, the tool calculates estimated fuel savings in gallons and dollars, as well as reductions in GHG emissions. It also shows the relative contribution of each approach selected. Users may create and save multiple plans. To access this new calculator, visit <http://www.afdc.energy.gov/prep/> .

Energy Department Announces New Battery and Energy Storage Hub

The Energy Department announced on November 30, 2012 that its Argonne National Laboratory in suburban Chicago was selected for an award of up to \$120 million over five years to lead a multi-partner team to establish a new batteries and energy storage hub. The hub, to be known as the Joint Center for Energy Storage Research (JCESR), will combine research and

development power of five Energy Department national laboratories, five universities, and four private firms in an effort aimed at achieving revolutionary advances in battery performance. Advancing next-generation battery and energy storage technologies for electric and hybrid cars and the electricity grid are a critical part of President Obama's strategy to reduce reliance on foreign oil and lower energy costs for U.S. consumers. More information is available [HERE](#).

EPA’s Greenhouse Gas Equivalencies Calculator Updated

EPA's Greenhouse Gas Equivalencies Calculator has been updated with the most up-to-date emissions factors. This calculator is a simple tool for translating abstract greenhouse gas measurements into concrete, understandable terms. This calculator may be useful in communicating specific greenhouse gas reduction strategies, reduction targets, or other initiatives aimed at reducing greenhouse gas emissions. The updated calculator is available at:

<http://www.epa.gov/cleanenergy/energy-resources/calculator.html> .

Climate Change Indicators Report Released

EPA has released its report, ‘Climate Change Indicators in the United States, 2012’. The report brings together data from multiple public and peer-reviewed datasets to show observed changes over time in 26 indicators of climate change – including measures of greenhouse gases, high and low temperatures, heavy rainfall, snowfall, pollen season and sea level rise. The report presents compelling evidence that many fundamental measures of climate in the United States are changing. Temperatures are rising, snow and rainfall patterns are shifting, and more extreme climate events - like heavy rainstorms and record-high temperatures - are already affecting society and ecosystems. The report can be found at:

<http://www.epa.gov/climatechange/science/indicators/download.html> .



Links & Resources

CARB Diesel Emission Control Strategy Verifications

CARB provides the latest comprehensive list of verified diesel emission control strategies (such as diesel particulate filters), at <http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm> .

CARB Vehicle and Engine Certifications

CARB provides a comprehensive list of its certified new on-road vehicles and engines at: <http://www.arb.ca.gov/msprog/onroad/cert/cert.php>



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