



West Coast Collaborative Communicator

Summer 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

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. More information is available [HERE](#).

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](#).

**Cash Cow: The Future of RNG as a
Transportation Fuel in Washington
July 16, 2013 in University Place, WA**

This workshop will introduce renewable natural gas (RNG) as a new frontier for transportation. No other fuel is as climate-friendly and compatible with medium and heavy duty vehicles. Cash Cow will bring together environmental professionals, policy makers, project developers, financing experts, and agricultural professionals to strategize ways to bring more RNG projects to market. The workshop will also educate attendees on the logistics and physical components of an RNG fueling project. More information is available [HERE](#).

**Natural Gas Vehicle Workshop
June 20, 2013 in Sacramento, CA**

Topics will include: Infrastructure & Maintenance Facility Cost Analysis + available incentives; New CNG, LNG, and renewable natural gas infrastructure coming to the Sacramento area; New natural gas vehicle availability (a wide range of vehicles will be on display); Q&A and networking opportunities, including with fleets that have experience

operating natural gas vehicles. More information is available [HERE](#).

**Aspen Clean Energy Roundtable XIV
June 18-20, 2013 in Aspen, CO**

Global Transformations in Energy: The Fuel of the Future is Digital - This year's Roundtable will concentrate on how "Big Data" and IT are delivering clean energy and mobility, how connected customers are changing, and how fuels and powertrain technologies are quickly evolving. We will look at major infrastructure project challenges and opportunities, such as the design and engineering of cities, transportation hubs, and airports. And we will discuss how natural gas continues to change all aspects of the energy landscape -- from how oil and gas companies themselves are working toward cleaner and more efficient operations to how natural gas and renewables can aim to work in synergy. More information is available [HERE](#).

**CALSTART/NextEnergy Workplace
Charging Workshop
June 18, 2013 in Detroit, MI**

Join CALSTART and NextEnergy on Tuesday, June 18 at the NextEnergy Center in Detroit for this one day interactive discussion on how to make workplace charging a reality for you and your employees. Whether you're a human resources director looking for new ways to attract and retain talent, a facilities manager, or a sustainability director, this workshop helps employers get a handle on the steps involved, choices available, incentives and policies supporting workplace charging. Attendees will also learn from early leaders in Michigan, who will share their diverse experiences about installing workplace charging as an employee benefit. More information is available [HERE](#).

**Green Transportation Conference
October 2013 in Seattle, WA
*Date & venue TBA***

This will be an Advanced Alternative Fuels Conference that will include CNG, LNG, Propane, Infrastructure, Investors and Financiers

for On-Highway and Off-Road. For more details, please contact: Brian Trice

briantrice@transenergysolutions.com

www.transenergysolutions.com

**EV Roadmap 6: Drivers Take the Spotlight
July 30-31, 2013 in Portland, OR**

The EV Roadmap workshop series brings together Oregon's early adopters and international experts to inform transportation electrification efforts across the nation. The EV Roadmap series of workshops has established itself as the Pacific Northwest's premier electric vehicle gathering. EV Roadmap 6 will be held at the World Trade Center in Portland and is expected to draw over 100 leaders from industry, government, and universities across the nation. <http://evroadmap6.eventbrite.com/#>

**Truck Replacement Grant Workshop
June 18, 2013 in San Diego, CA**

The San Diego Air Pollution Control District (SDAPCD) has funds available now for California truck owners to replace or repower their older, high emitting diesel trucks to newer, cleaner and more efficient equipment. SDAPCD staff will be available to provide answers and assistance to interested owners looking to apply for public funding assistance. To register, please call Maru at the Otay Mesa Chamber of Commerce (619-661-6111 x 4); for sponsorship information [CLICK HERE](#).

Valley of the Sun Clean Cities CNG Fuel & Vehicle Workshop

June 25, 2013 in Scottsdale, AZ

Gregg Duckett, Fleet Control Manager for the City of Phoenix will detail the experience gained in the Phoenix's CNG fuel and vehicle transition. Contact Bill Sheaffer for more information, or to register: bill@cleanairaz.org

**CALSTART Webinar - Medium Duty Hydraulic Hybrids: A Best Use Scenario
June 20, 2013 from 11:00AM-12:00PM PDT**

In January 2012, Lightning Hybrids began placing medium-duty hydraulic hybrids into real-world fleets – shuttle buses and delivery trucks. These vehicles, using the Lightning Hybrids parallel hydraulic drive systems, are the first medium-duty hydraulic hybrids placed in municipal and campus fleet service. Currently, the company is focused on testing and proving its system for early adopter fleets. This webinar will discuss the fuel mileage savings, testing and qualification updates, drive cycle optimization, and driver feedback, and other results of this on-road testing. More information is available [HERE](#).

AltCar Expo & Conference

September 20-21, 2013 in Santa Monica, CA

AltCar is nationally recognized as one of the best attended and most extensive event focused on across the board alternative technology vehicles, alternative transportation, urban planning, energy efficiency and carbon footprint reduction options education. <http://www.altcarexpo.com/>

CALSTART High Efficiency Truck Users Forum (HTUF) National Meeting

October 7-9, 2013 in Chicago, IL

Now in its thirteenth year, the HTUF National Meeting is a great source for comprehensive and up-to-date information on introducing advanced medium- and heavy-duty vehicle technologies to your fleet. 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

[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.

[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

[WVU Center Develops Electric Drive & Alt-Fuel Vehicle Phone App for First Responders](#)

West Virginia University's National Alternative Fuels Training Consortium (NAFTC) has developed a smartphone app and full training programs for emergency responders being called to help with highway accidents involving specific electric drive and alternative fuel vehicles.



Available Funding

National Funding

EPA DERA 2013 Request for Proposals

Proposals due by June 25, 2013

EPA's National Clean Diesel Campaign (NCDC) is now soliciting proposals for the 2013 National Clean Diesel Funding Assistance Program funded through the Diesel Emissions Reduction (DERA) program. The total estimated funding for this competitive opportunity is approximately \$9 million. The Request for Proposals (RFP) is posted here and on www.grants.gov. The NCDC website contains information regarding clean diesel technologies, past awarded projects, and helpful tips. EPA plans to award funding through this competition in the fall. More information is available [HERE](#).

EPA's FY 2014 Budget Proposal

The Obama Administration proposed a Fiscal Year 2014 (FY 2014) budget of \$8.153 billion for the U.S. Environmental Protection Agency (EPA). This request is \$296 million below the EPA's budget for Fiscal Year 2012. More information is available [HERE](#).

DOE announces \$7 Million to Promote Clean Energy in Tribal Communities

Proposals due by June 20, 2013

The Energy Department recently announced up to \$7 million to deploy clean energy projects in tribal communities, reducing reliance on fossil fuels and promoting economic development on tribal lands. More information is available [HERE](#).

DOE Announces \$9 Million to Advance Cost-Effective Hydrogen and Fuel Cell Technologies

Proposals due by July 11, 2013

\$9 million in new funding to accelerate the development of hydrogen and fuel cell technologies for use in vehicles, backup power systems, and hydrogen refueling components.

These investments will strengthen U.S. leadership in cost-effective hydrogen and fuel cell technologies and help industry bring these technologies into the marketplace at lower cost. More information is available [HERE](#).

DOE Request for Information Regarding Hydrogen Delivery Technologies

Submission deadline TBD

The U.S. Department of Energy's (DOE) Fuel Cell Technologies Office has issued a request for information (RFI) seeking feedback from interested stakeholders regarding hydrogen delivery research and development activities aimed at lowering the cost of hydrogen delivery technologies. Specifically, DOE is requesting comments from interested parties about compression, storage, and dispensing technologies, as well as high-efficiency hydrogen liquefaction technologies. More information is available [HERE](#).

DOE Announces Industry Consortium to Develop Battery Technologies for Vehicles

The U.S. Department of Energy announced that the U.S. Advanced Battery Consortium is expected lead an industry-wide initiative to improve the efficiency and cost-effectiveness of battery technologies for electric vehicles. Managed by Chrysler Group, Ford Motor Company, and General Motors, the U.S. Advanced Battery Consortium intends to solicit, fund, and manage cooperative research and development projects to improve advanced energy storage technologies for vehicles. The Consortium is expected to receive \$12.5 million annually over the next five years. More information is available [HERE](#).

DOE's FY2014 Budget Proposal

President Barack Obama on April 10 requested a \$28.4 billion Fiscal Year 2014 budget for the Energy Department, including \$2.78 billion for the

Energy Department's Office of Energy Efficiency and Renewable Energy (EERE). The proposed FY 2014 budget includes a \$957 million request for sustainable transportation, including research and development of vehicles, bioenergy, and fuel cell technologies. This segment includes \$575 million for cutting-edge vehicle technologies research and \$282 million in research into next-generation advanced biofuels. More information is available [HERE](#).

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](#).

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](#).

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.

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>.

New HVIP Vehicle Approvals

The California Air Resources Board has now added new model year vehicles from Freightliner, Proterra, and EVI to the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP). The vehicles are eligible immediately. <http://www.californiahvip.org/eligible-vehicles>

California Energy Commission Releases 2013 - 2014 ARFVT Investment Plan

The California Energy Commission's latest Alternative and Renewable Fuels and Vehicle Technology Program (ARFVTP) investment plan will guide the Commission in supporting projects that reduce greenhouse gas emissions, improve air quality, increase fuel diversity to reduce reliance on petroleum, and help create jobs. As with prior Plans, the ARFVT investment plan for fiscal year 2013-2014 will provide about \$100 million for green vehicles and alternative fuels projects. More information is available [HERE](#).

Washington State Clean Diesel Grant Program

The Washington State Department of Ecology welcomes applications for grants to help reduce emissions from heavy-duty diesel vehicles and equipment. Ecology will evaluate applications to determine how the project will reduce exposure to

diesel emissions and improve public health for Washington's citizens. More information is available [HERE](#).

Pennsylvania Governor Awards Grants for Natural Gas Vehicle Conversion

Pennsylvania Governor Tom Corbett awarded more than \$6.7 million in Act 13 funding to 18 companies and organizations making the switch to natural gas for their heavy-duty fleet vehicles. Act 13 of 2012 authorized the state Department of Environmental Protection to develop and implement the Natural Gas Energy Development program, which distributes up to \$20 million in grants over three years to help pay for the incremental purchase and conversion costs of heavy-duty natural gas fleet vehicles. More information is available [HERE](#).

Local Funding

Request for Information for Ocean-Going Vessel Technology to Reduce Main Engine Emissions for use at the Port of Los Angeles and the Port of Long Beach

Submissions due by July 19, 2013

The Port of Long Beach and the Port of Los Angeles are seeking information about technologies that could substantially reduce air pollution from main engines on ships transiting to and from the ports. Vendors of such technologies can submit information as outlined in the RFI Responses must be received no later than July 19, 2013. More information is available [HERE](#).

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>.

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](#)



Rules & Regulation Update

EPA Proposes Cleaner Fuels and Cars Standard

The proposed Tier 3 program is a comprehensive approach, considering the vehicle and its fuel as an integrated system, aimed at addressing the impacts of motor vehicles on air quality and public health. The program proposes to set new vehicle emissions standards and lower the sulfur content of gasoline beginning in 2017. The proposed vehicle standards would reduce both tailpipe and evaporative emissions from passenger cars, light-duty trucks, medium-duty passenger vehicles, and some heavy-duty vehicles. The proposed gasoline sulfur standard would enable more stringent vehicle emissions standards and would make emissions control systems more effective. More information is available [HERE](#).

CARB seeking Information on Electric and/or Hybrid Off-Road Equipment

CARB staff is collecting information on electric and/or hybrid off-road equipment for a technology-assessment report directed to equipment owners/operators at California ports and intermodal rail yards. Equipment of interest includes a wide spectrum of off-road equipment including container-handling equipment (such as yard hostlers, side picks, reach stackers and rubber-tired gantry cranes) and bulk-material handling equipment (such as dozers, excavators, and material handlers). This is not meant to be an all-inclusive list of equipment. Information collected will be incorporated into a report that will characterize the technologies to help owners/operators with equipment subject to CARB's Cargo Handling Equipment (CHE) regulation to develop compliance strategies. If your company has or is developing electric and/or hybrid off-road equipment and we have not yet contacted you to obtain information, please contact

us. You may contact Dimitri Stanich at dstanich@arb.ca.gov or 916-324-0317.

<http://www.arb.ca.gov/ports/cargo/cargo.htm>

CARB Fleet Average Calculator

The revised Fleet Average Calculator and an accompanying user guide are now available. The revised calculator allows large fleets (those with over 5,000 horsepower (hp) affected vehicles) to evaluate compliance options for the Air Resources Board's In-Use Off-Road Diesel Vehicle Regulation's January 1, 2014, compliance date only. Note that this Fleet Average Calculator is not applicable to small or medium fleets. The Fleet Average Calculator is an Excel spreadsheet designed to assist fleet owners in calculating their Fleet Average Index and Fleet Average Targets, based on the equipment model year and hp input. The calculator allows fleets to experiment with different turnover, repower, and retrofit strategies to plan for compliance with the in-use off-road diesel vehicle regulation. If you have any questions, comments, or other suggestions pertaining to the calculator, please contact Kyle Goff by phone at (916)-323-1414, or by email at kgoff@arb.ca.gov. More information can be found [HERE](#).

EPA Publishes Final Documents Regarding Environmental Justice in Permitting

EPA has issued two final documents aimed at promoting environmental justice in the permitting process for EPA-issued permits. The documents, proposed drafts of which were published in June 2012, outline how EPA regions will conduct enhanced outreach to overburdened communities in the permitting process and provide suggestions for how permit applicants may do the same. The first document, Actions that Regional Offices Are

Taking to Promote Public Participation in the Permitting Process, provides direction to EPA permit writers on how to prioritize permits for enhanced community outreach based on their potential environmental impacts and impacts on overburdened communities. It describes general expectations for regional implementation plans being developed by each EPA region to conduct the prioritization process and enhanced outreach. The second document, Promising Practices for Permit Applicants Seeking EPA-Issued Permits: Ways to Engage Neighboring Communities, is a collection of suggested enhanced outreach practices that permit applicants might use to increase transparency and encourage meaningful engagement of overburdened communities in the permitting process. More information can be found [HERE](#).

CARB New Storage Trailer Exemptions Fact Sheet Available

The California Air Resources Board has posted a new fact sheet with information about the storage trailer exemption requirements of the Tractor Trailer Greenhouse Gas (GHG) regulation. More information can be found [HERE](#).

CARB New Tractor-Trailer Greenhouse Gas Regulation Compliance Tool

The California Air Resources Board (CARB) has developed a website to help truck drivers and freight shippers determine the compliance requirements of individual 53-foot box trailers with California's Tractor-Trailer Greenhouse Gas Regulation. The website will report whether a trailer has been registered with CARB for an extension or an exemption so that they may operate in California without aerodynamic retrofits. More information can be found [HERE](#).



News & Information

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](#).

Clean Cities Now Newsletter

The Spring 2013 issue of Clean Cities Now is available online. [Click Here](#).

Clean Cities' Fuels Fix Newsletter

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

CALSTART Current Newsletter

The June-July 2013 edition of the *CALSTART Current* was recently released. [Click Here](#).

Ernest Moniz Sworn in as New Secretary of Energy

Ernest Moniz on May 21 was sworn in as the new energy secretary, after being unanimously confirmed on May 16 by the U.S. Senate. He is replacing former Energy Secretary Steven Chu.

Prior to his appointment, Moniz was the Cecil and Ida Green Professor of Physics and Engineering Systems at the Massachusetts Institute of Technology (MIT), where he was a faculty member since 1973. At MIT, he headed the department of physics and the Bates Linear Accelerator Center, and served as the founding director of the MIT Energy Initiative and director of the MIT Laboratory for Energy and the Environment. During the Clinton Administration, Moniz was undersecretary of energy and associate director of the White House Office of Science and Technology. More information can be found [HERE](#).

DOE Launches Public-Private Partnership to Deploy Hydrogen Infrastructure

The Energy Department today launched H2USA—a new public-private partnership focused on advancing hydrogen infrastructure to support more transportation energy options for U.S. consumers, including fuel cell electric vehicles. The new partnership brings together automakers, government agencies, gas suppliers, and the hydrogen and fuel cell industries to coordinate research and identify cost-effective solutions to deploy infrastructure that can deliver affordable, clean hydrogen fuel in the United States. More information can be found [HERE](#).

Best Public Fleets for 2013

Government Fleet magazine and the 100 Best Fleets announce the 100 Best Fleets for 2013. The awards program, sponsored by INVERS Mobility Solutions and Property Room, recognizes leading fleets from across the country. The top 20 fleets, including the No. 1 fleet, will be announced at the Government Fleet Expo & Conference. More information can be found [HERE](#).

NAFA Announces Winners of 2013 Fleet Excellence Awards

At the first ever Fleet Excellence Awards Night at the NAFA Fleet Management Association Institute & Expo (I&E) on April 23, NAFA presented industry awards to fleet professionals in the categories of safety, sustainability, overall achievement, and leadership. More information can be found [HERE](#).

Washington State Ferries seeks LNG Ferries, and a Lithium Plug-In Hybrid

Washington State Ferries – the largest ferry operator in the U.S. – has extended the due date for proposals to repower the 382-foot, 144-car Hyak ferry with a modern, plug-in hybrid electric driveline – to May 17. At the same time, the agency is evaluating bids from Rolls-Royce and Wärtsilä to retrofit its six 328-foot Issaquah with liquefied natural gas fuel systems – an \$85.6 million dollar project. More information can be found [HERE](#).

Why Americans Are Driving Less Each Year

According to the latest U.S. Department of Transportation data, travel on all roads and streets dropped 1.4 percent in February 2013, compared with February 2012—the equivalent of roughly 3.1 billion miles. Meanwhile, cumulative travel for 2013 dropped 0.4 percent, or 1.8 billion miles. The slowdown looks more dramatic when you go back a few years and adjust for population growth. More information can be found [HERE](#).

Electric vehicles cut costs for British Columbia city

The City of Nanaimo, British Columbia, claims that it saves \$1 million (that's \$988,435, US) annually by using electric vehicles. While the electric cars cost more to buy more than conventional cars, the savings in gas and maintenance has more than made up the difference. More information can be found [HERE](#).

ESW Group Acquires Claire

ESW Group acquired the assets and product line of Claire Advanced Emissions Controls LLC (Claire) on April 18. Claire, which designed, developed, and manufactured retrofit emission control systems for diesel engines, ceased

operations on Jan.18. More information can be found [HERE](#).

CARB May Ease NGV Certifications

The California Air Resources Board has set forth an updated proposal to modify its alternative fuel conversion certification requirements for new and in-use vehicles. According to a California Natural Gas Vehicle Coalition summary, retrofit system manufacturers that sell fewer than 4,500 alternative fuel systems per year in California would qualify for a streamlined application and certification process. More information can be found [HERE](#).

Portable LNG from Argentina's Galileo

Argentina's Galileo, best known for its modular, self-contained Nanobox and Microbox compressed natural gas fueling units, has vaulted into liquefied natural gas with the Cryobox LNG, which can produce as much as 7,000 LNG gallons daily. More information can be found [HERE](#).

Phoenix Unveils CNG Refuse Trucks and Fueling Station

The City of Phoenix, Ariz.'s Mayor Greg Stanton, Vice Mayor Bill Gates, and other community leaders unveiled Phoenix's new compressed natural gas (CNG) solid waste trucks and its newly enhanced slow-fill fueling station in mid-February. More information can be found [HERE](#).

GSA Launches Hybrid Fleet Vehicle Consolidation Initiative for Federal Agencies

The U.S. General Services Administration (GSA) has launched an initiative where it will fund the total incremental cost to replace an existing federal agency's fleet vehicle with a hybrid model. More information can be found [HERE](#).

U.S. Postal Service Saves Nearly \$12 Million With Fuel-Saving Initiatives

The U.S. Postal Service (USPS) saved \$11.7 million in fuel costs through a mix of route optimization, alternative-fuel use, purchasing fuel in bulk, and by encouraging employees to adopt more fuel-efficient driving practices. More information can be found [HERE](#).

California DGS Details Zero Emissions Fleet Plan Requirements for State Agencies

The California Department of General Services' directions outline the three-year implementation plan that State agencies must submit to DGS' Office of Fleet and Asset Management (OFAM) when those agencies want to purchase new fleet vehicles. More information can be found [HERE](#).

Recycled Electric Buses

Complete Coach Works is promoting a 100% battery bus, built on used diesel chassis, that with a price of about \$500,000 could revolutionize all-electric transit, with single-charge range better than 100 miles. More information can be found [HERE](#).

CNG Plug-In Hybrid Trucks

US Hybrid has a contract with the Illinois-based Gas Technology Institute to fabricate and deploy two compressed natural gas-fueled Class 8 plug-in hybrid electric trucks for a year of drayage trucking trials. The plug-in CNG hybrid design is expected to reduce fuel consumption and the air quality impact associated with heavy-duty diesel emissions in ports, where trucks idle their engines for long periods while waiting in loading queues. More information can be found [HERE](#).

Waste Management CNG from Landfill Gas

Waste Management emphasized the environment as it staged the formal opening of a new compressed natural gas fueling station at the Altamont Landfill in Livermore, CA. The station is fed by liquefied natural gas that's itself derived from landfill gas. More information can be found [HERE](#).

MECA Releases Diesel Retrofit Sales Figures for 2012

The Manufacturers of Emission Controls Association (MECA) released the results of its survey of the total number of diesel retrofit devices sold by MECA member companies in 2012. According to the results, the total number of verified (U.S. EPA- and/or California ARB-verified) diesel retrofit devices (for both on-road

and off-road diesel engines) sold in the U.S. (including California) by MECA member companies in 2012 was 16,262. More information can be found [HERE](#).

California Plant for BYD Battery Buses

China's BYD Motors is planning U.S. assembly of its all-battery 40-foot transit buses at a former Rexhall Industries recreational vehicle factory in Lancaster, Calif. in northern Los Angeles County. More information can be found [HERE](#).

Kroger Converts Food Waste to Power, Uses Existing Trucks

Kroger will use an anaerobic conversion system from Feed Resource Recovery to convert waste food into energy to help power its Ralphs/Food 4 Less distribution center in Compton, California. More information can be found [HERE](#).

100,000 plug-ins have been sold in the US

According to the latest estimates, the 100,000th plug-in vehicle was sold in the US some time this week. This total includes only "highway-capable" vehicles, not "neighborhood electric vehicles," which number over 60,000 in California alone. More information can be found [HERE](#).

NGVs an Energy Market 'Wild Card'

Natural gas vehicles, if they reach a 'tipping point,' could alter the world outlook for oil and gas demand, says a new report from Morgan Stanley in London. 'Oil is still the dominant fuel for transportation, but natural gas is becoming competitive,' states the preface to Natural Gas as a Transportation Fuel: Energy Market Wild Card. More information can be found [HERE](#).

Cities Tracking Carbon Footprints

Large cities across the U.S. and around the world are beginning to track their carbon footprints. For years, carbon dioxide and other greenhouse pollutants have been monitored around the planet by stations on the ground and in space. Now, some scientists are working with large cities and aiming to observe emissions in the atmosphere as a first step toward independently verifying whether local climate goals are being met. For example, a high-

tech sensor on Mount Wilson in southern California is monitoring emissions from the Los Angeles basin. Technicians will install commercial gas analyzers at a dozen more rooftops around the city and scientists also plan to drive around Los Angeles in a Prius outfitted with a portable emission-measuring device and fly a research aircraft to pinpoint methane hotspots from the sky. More information can be found [HERE](#).

Volvo Commits to DME with Oberon

Volvo is working with California's Oberon Fuels on bio-derived dimethyl ether for diesel-cycle compression ignition engines, part of a multi-fuel Volvo strategy that also includes natural gas and biodiesel. Safeway will test the diesel alternative in two trucks with Volvo D13 engines converted for DME. Oberon's first plant, for 4,500 DME gallons per day, is to commence production in

Brawley, Calif. this month. More information can be found [HERE](#).

LNG Trucks for Rent via PacLease & Blu

For fleet managers who are wary of the up-front costs associated with LNG trucking, Paccar's PacLease and Kenworth Sales units, and Utah's Blu LNG are offering LNG-fueled Kenworth T800 trucks for rent along the Interstate 84 and I-15 corridors from Las Vegas through Utah, Idaho, and eastern Oregon. More information can be found [HERE](#).

California GEELA Applications

Applications are now being accepted for the 2013 California Governor's Environmental & Economic Awards (GEELA) program. The deadline for submitting applications is July 12, 2013.

<http://calepa.ca.gov/Awards/GEELA/>



New Reports & Tools

EPA publishes second DERA Report to Congress

EPA released the "Second Report to Congress: Highlights of the Diesel Emissions Reduction Program" yesterday. The Report contains results from the 2008, 2009/2010, and Recovery Act DERA grants. These projects impacted more than 50,000 older diesel engines and reduced 203,000 tons of NOx and 12,500 tons of PM, which created health benefits up to \$8.2 billion. More information can be found [HERE](#).

also reports that 18 cities had lower year-round levels of PM in 2013, 16 of which had their lowest PM levels on record. ALA's President, Harold Wimmer, stated, "We are happy to report that the state of our air is much cleaner today than when we started the 'State of the Air' report 14 years ago...But the work is not done, and the Environmental Protection Agency must continue the work necessary to achieve the promise of the Clean Air Act: healthy air that is safe for all to breathe." More information can be found [HERE](#).

ALA Releases State of the Air 2013 Report

The American Lung Association (ALA) released its annual State of the Air report. Among the key findings of the 2013 edition are that 42 percent of the U.S. population – more than 131.8 million people – lives in counties where levels of either ozone or particulate matter (PM) are unhealthy, while 8 percent of the population – about 24.8 million people – lives in counties that have unhealthy levels of both ozone and PM. ALA

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 recently announced 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>.

California Zero Emission Vehicle Action Plan

In March 2012, Governor Brown issued an executive order directing state government to help accelerate the market for zero-emission vehicles in California. The Executive Order established several milestones on a path toward 1.5 million ZEVs in California by the year 2025. To achieve these milestones, the Executive Order directs CARB, CEC, and CPUC and other relevant state agencies to work with CaFCP and our sister organization, the Plug-in Electric Vehicle Collaborative. The 2013 ZEV Action Plan contains the actions that these agencies and organizations must take to achieve the Governor’s vision set forth in the Executive Order. More information can be found [HERE](#).

California Fuel Cell Electric Bus Road Map

Fuel cell electric buses are meeting or are near the commercial targets for performance (e.g. range or fuel economy) as well as availability and fuel cell durability. A Road Map for Fuel Cell Electric Buses in California outlines a strategy for reducing capital and operating costs so that FCEBs will be competitive with CNG and diesel-hybrid buses. More information can be found [HERE](#).

Caltrans Activities to Address Climate Change

This report provides a comprehensive overview of activities undertaken by the California Department of Transportation (Caltrans) to reduce greenhouse gas (GHG) emissions and adapt the state’s transportation system to prepare for the impacts of

climate change. It also identifies opportunities for additional reductions in GHG emissions and climate adaptation activities that Caltrans may wish to consider in the future. More information can be found [HERE](#).

Electric Vehicle Market Forecasts

A total of 21.9 million EVs will be sold worldwide during the period from 2012 to 2020, according to a recent report from Navigant Research. “Electric Vehicle Market Forecasts” reports that electric vehicles (EV) sales will grow at a much more rapid pace than the overall automotive market during that timeframe. Both plug-in electric vehicles (PEVs) and hybrid electric vehicles (HEVs) have become widely available in Asia Pacific, North America, and Western Europe, and are being introduced in Eastern Europe, Latin America, and the Middle East. While the overall auto market will expand only 2% per year through 2020, sales of plug-in EVs will grow at a compound annual growth rate of nearly 40% over the remainder of the decade. Still, by 2020, PEVs will make up less than 2% of annual light-duty vehicle sales, the study concludes. More information can be found [HERE](#).

Evaluation of the Total Cost of Ownership of Fuel Cell-Powered Material Handling Equipment

Hydrogen fuel cells are currently being used commercially in early market applications such as material handling equipment. Fuel cell systems look particularly promising as replacements for batteries in material handling equipment like forklifts in warehouse applications where operations extend for two or three shifts each day. This report assesses the total cost of ownership of fuel cell MHE and compares it to the cost of ownership of traditional battery-powered MHE. More information can be found [HERE](#).

A Snapshot of DOE EERE's Work in States

The EERE State Summaries educate policymakers and the public about EERE investments, including hydrogen and fuel cells and their positive impacts in individual states and across the country. The EERE portfolio consists primarily of

competitively selected projects with the largest potential to help achieve national economic, strategic, environmental, and energy goals. EERE helps create the United States' clean energy economy today, developing and delivering innovative, market-driven solutions. More information can be found [HERE](#).

Sandia: Maritime Ports May Be the Next Deployment for Hydrogen Fuel Cells

Hydrogen fuel cells are being used in a variety of ways to provide efficient, pollution-free power—mobile lighting systems, forklifts, emergency backup systems, and light duty trucks, to name a few. Providing auxiliary power to ships in berth may be added to that list soon. Read a recent article from Sandia National Laboratories. More information can be found [HERE](#).

DOE Transportation Energy Futures Project

Transportation accounts for 71% of total U.S. petroleum consumption and 33% of total greenhouse gas emissions. The Transportation Energy Futures (TEF) project examines underexplored oil-savings and greenhouse gas-reduction opportunities by aggregating transportation energy knowledge and estimating opportunities. The project addresses high-priority questions to inform transportation energy strategies, priorities, and investments. Research and analysis identifies near-term actions that support long-term energy goals. The project looks beyond technology to examine the marketplace, consumer behavior, industry capabilities, and infrastructure. More information can be found [HERE](#).

Standardization Roadmap for U.S. Electric Vehicle Deployment

The American National Standards Institute (ANSI) recently published the Standardization Roadmap for Electric Vehicles – Version 2.0, developed by the Institute's Electric Vehicles Standards Panel (EVSP). Available as a free download, the document tracks progress to implement recommendations made in the roadmap version 1.0, released in April 2012, and identifies additional areas where there is a perceived need

for standardization work to help facilitate the safe, mass deployment of electric vehicles and charging infrastructure in the United States. More information can be found [HERE](#).

Overcoming Barriers to Electric-Vehicle Deployment

The National Academies of Science recently released preliminary findings from their initiative to understand barriers to electric vehicle deployment (National Research Council. Overcoming Barriers to Electric-Vehicle Deployment: Interim Report. Washington, DC: The National Academies Press, 2013). The report follows from their earlier analysis on options for reducing GHG emissions from vehicles as much as 80% by 2050. Sustained work to improve consumer awareness and acceptance, coupled with strong ongoing support for key market-enabling policies, are repeatedly underscored as key approaches for enabling plug in electric vehicles. More information can be found [HERE](#).

Consumer Federation Finds Demand for More Fuel-Efficient Vehicles Is High

The Consumer Federation of America (CFA) published a report on how consumers and auto manufacturers are responding to the 54.5-miles-per-gallon federal fuel economy standard. In *On the Road to 54.5 MPG: A Progress Report on Achievability*, CFA finds that a “large majority” of Americans are in favor of the federal requirements to increase new vehicle fuel efficiency to 35 miles per gallon (mpg) by 2017 and an average of 54.5 mpg by 2025. The report's authors also note that consumer acceptance of electric vehicles is higher than acceptance of hybrid vehicles was when those vehicles were first introduced into the market. More information can be found [HERE](#).

EPA Reports on Life-Cycle Assessment of Electric Vehicle Batteries

EPA announced the release of a final report on the life-cycle assessment (LCA) of existing and emerging energy systems used in plug-in hybrid and electric vehicles. According to EPA, an assessment of this kind has not been conducted

before and was necessary so that the advanced-vehicle battery industry could grow in “a more environmentally responsible and efficient way.” The agency expects the results of the LCA to assist battery makers and suppliers in identifying materials and processes that are likely to have the greatest impacts or pose the greatest potential risks to human health and the environment throughout the lifecycle of their product. More information can be found [HERE](#).

U.S. Energy Information Administration Releases Analysis of State-level Energy-related Carbon Dioxide Emissions

The U.S. Energy Information Administration (EIA) released an analysis of state-level energy-related emissions data from 2000 through 2010. Between 2000 and 2010, carbon dioxide emissions fell in 32 states and rose in 18 states. However, from 2009 to 2010, only 14 states saw a decrease in emissions, as the United States was rebounding from the recession and energy consumption increased in most states, along with emissions. More information can be found [HERE](#).

American Council for an Energy-Efficiency Economy Releases Report on Efficiency Potential of Freight System

The American Council for an Energy-Efficiency Economy released a report on the energy efficiency potential of the national freight system.

The report compares the findings of five studies of freight energy savings opportunities. Generally, the supply chain studies find more potential through system efficiency improvements such as optimizing speed and increasing load factor, and consider strategies often omitted from transportation studies, such as reducing the distance from production to market. More information can be found [HERE](#).

Northwest Ports Clean Air Strategy - Draft 2013 Update

The 2013 Update is informed by new emissions inventory data and includes new emissions reduction goals and targets. The first Northwest Ports Clean Air Strategy was released in 2007. Implementation resulted in significant reductions in emissions from maritime sources in the Puget Sound – Georgia Basin air shed. The Draft 2013 Update is designed to further reduce emissions. The complete Draft 2013 Update is available [here](#).



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>

Truck Electrification: Cutting Oil Use and Reducing Pollution

Medium- and heavy-duty vehicles represent only 4 percent of U.S. vehicles, but account for about 20 percent of the transportation fuel we consume. Advanced vehicle technologies — similar to

technologies used in today's hybrid and electric cars — have the potential to dramatically reduce fuel consumption, cutting fuel costs for businesses, as well as improving air quality and public health. More information can be found [HERE](#).

How to maximize staff safety around alt-fuel buses

From fueling training to regular tank inspection to a properly equipped maintenance facility, there are many factors to consider when operating school buses on propane autogas and compressed natural gas to ensure employees' well-being. Industry officials discuss these and other components, along with the built-in safety features of some of today's buses. More information can be found [HERE](#).

NHTSA Driver Distraction Guidelines for In-Vehicle Electronic Devices

The National Highway Traffic Safety Administration (NHTSA) has issued nonbinding voluntary Driver Distraction Guidelines (NHTSA Guidelines) to promote safety by discouraging the introduction of excessively distracting devices in vehicles. Although the NHTSA Guidelines are not regulations, and were likely more targeted at communications systems, they are important to consider when deploying in-cab information and control systems. More information can be found [HERE](#).

US Global Change Research Program Metadata Access Tool for Climate and Health (MATCH)

The interagency US Global Change Research Program (USGCRP) launched a new online tool that promises to accelerate research relating to climate change and human health—the Metadata Access Tool for Climate and Health, or “MATCH.” MATCH will help researchers and public health officials integrate the latest information from across environmental and health disciplines in order to inform more effective responses to climate and health threats. More information can be found [HERE](#).

Advanced Energy Legislation Tracker

The recently-released Advanced Energy Legislation Tracker allows users to find and track advanced energy legislation at the state level. The site is searchable by state, policy category (including transportation, emissions, and financing and financial incentives), keyword, bill number, and/or sponsor. Search results include information that you would typically find on a state legislature website (bill sponsor, recent actions, a link to bill text) in a concise and consistent format. More information can be found [HERE](#).

PlugWiz – EV Ownership Cost Calculator

A web based tool enabling consumers interested in PEVs to research customized utility specific cost and benefit options. More information can be found [HERE](#).



www.westcoastcollaborative.org

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