



West Coast Collaborative Communicator

November 2014

See below for the latest WCC Communicator updates. We hope that you find these items informative.
www.westcoastcollaborative.org/

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Funding Opportunities

EPA Announces \$5M DERA Ports RFP

U.S. EPA has released a \$5 million Diesel Emissions Reduction Act (DERA) [request for proposals \(RFP\)](#) for clean diesel projects at marine and inland water ports located in [areas of poor air quality](#). Port authorities and state or local government agencies with jurisdiction over transportation or air quality are eligible to apply. Community groups, terminal operators, shipping carriers and other related entities are encouraged to participate through partnerships with eligible applicants. Applicants may submit proposals that request up to \$2 million for projects that reduce emissions from drayage trucks, marine engines, locomotives, and cargo handling equipment used in port operations. The **RFP will close on December 11, 2014**, at 4 pm EST. More information is available at: www2.epa.gov/ports-initiative/funding-projects-improve-air-quality-ports

US Department of Transportation Grants and Programs

www.dot.gov/livability/grants-programs

Bay Area Air Quality Management District (BAAQMD)

has approximately \$15 million in Carl Moyer Memorial Air Quality Standards Attainment Program available on a first com first served basis. More information can be found here:
www.baaqmd.gov/?sc_itemid=08F9594F-BF34-4A2A-BD38-9A3D0CCFF8F8

California Air Resources Board (CARB)

is offering approximately \$48 million for loan guarantees for on-road heavy duty vehicle loan program. More information can be found here:
www.arb.ca.gov/ba/loan/on-road/documents/hdvloanprogram.pdf

DOE Funding to Develop Analysis for Hydrogen/Fuel Cell Tech

DOE announced up to \$2 million to develop the domestic supply chain for hydrogen and fuel cell technologies and study the competitiveness of U.S. hydrogen and fuel cell system and component manufacturing.
www.energy.gov/eere/articles/energy-department-announces-2-million-develop-supply-chain-manufacturing



Events

[Renewable Energy Markets Conference](#) **December 2-4, 2014 (Sacramento)**

Renewable Energy Markets (REM) is an annual event focused on the states, businesses, organizations, and households that choose clean, renewable electricity every day. Since 1996, REM has been the leading forum for the clean energy marketplace, and is attended by leaders from federal and state governments, large corporate purchasers, the nation's leading utilities and electricity generators, and marketers from around the world. REM is organized by the nonprofit Center for Resource Solutions and co-sponsored by the U.S. Environmental Protection Agency. This year's conference will take place December 2–4, 2014 at the Hyatt Regency in Sacramento, CA.

[CALSTART Annual Meeting & 2014 Blue Sky Award Luncheon](#) - **December 9, 2014 (Los Angeles)**

Two leading policy and technology decision makers, [Christopher Grundler](#), Director of the Office of Transportation and Air Quality, US Environmental Protection Agency, and [Dr. Cheryl Martin](#), Acting Director of the Advanced Research Projects Agency-Energy (ARPA-E), US Department of Energy, will highlight CALSTART's Annual Meeting and Blue Sky Awards Luncheon on December 9, 2014 in Los Angeles. In addition to hearing important updates from these high-level policy makers, CALSTART's Annual Meeting and 2014 Blue Sky Award Luncheon will engage clean transportation professionals on issues facing our industry, from public/private investment, future clean transportation technologies and fuels and global competition. As part of the annual meeting, CALSTART will honor clean transportation leaders with the 2014 Blue Sky Awards. For over a decade, the Blue Sky Award™ has been presented annually to companies and individuals who have made outstanding contributions to the development of clean, sustainable transportation.

[How to Tap into Funds for Clean Fleets: The Expansion of Voucher Incentive Programs](#) December 16, 2014 (Webinar)

[Transportation Research Board \(TRB\) 94th Annual Meeting](#) January 11–15, 2015 (Washington, D.C.)

[SAE Government/Industry Meeting \(in conjunction with the Washington, D.C., Auto Show\)](#) January 21–23, 2015 (Washington, D.C.)

[Green Truck Summit](#) March 3–4, 2015 (Indianapolis, Indiana)

[Joint Rail Conference: Railroad Engineering Technology](#) March 23–26, 2015 (San Jose, California)

[Mid-America Trucking Show](#) March 26–28, 2015 (Louisville, Kentucky)

[National Association of Fleet Administrators \(NAFA\) Institute and Expo](#) April 14–17, 2015 (Orlando, FL)

[Green Transportation Summit & Expo](#) April 21-22, 2015 (Portland, OR)

[Fleet Management Expo](#) May 4–6, 2015 (Indianapolis, IN)

[Alternative Clean Transportation \(ACT\) Expo](#) May 4–7, 2015 (Dallas, TX)

[Government Fleet Expo & Conference \(GFX\)](#) June 8–11, 2015 (Denver, CO)

[CARB Course 520: How To Comply with CARB Diesel Regulations](#) (Multiple dates and locations)

[CARB Course 521: How To Comply with the Truck and Bus Regulation](#) (Multiple dates and locations)

[The Future of Marine Fuels: ECA & LNG](#) (December 4, 2014, Port of Los Angeles)

[FHWA's Talking Freight Seminar Series](#): The Federal Highway Administration's (FHWA's) [Office of Freight Management and Operations](#) and the Office of Planning host the "Talking Freight" seminars. The seminars are part of a broader Freight Professional Development Program aimed at providing technical assistance, training, tools, and information to help the freight and planning workforce meet the transportation challenges of tomorrow. Seminars are held on a monthly basis throughout the year and are open at no cost to all interested parties in both the public and private sectors.



News

Clean Cities Program: A Billion Gallons Saved – And Counting

Clean Cities coalitions across the nation recently reached a significant milestone: they have collectively reduced one billion gallons of petroleum – in 2013 alone! This in turn also prevented the production of 7.5 million tons of greenhouse gases – the equivalent to removing more than 1.5 million cars from the road.

www.wcleancities.org/a-billion-gallons-saved-and-counting/

Ports/Marine

Puget Sound Energy Sets Tacoma Site

The Port of Tacoma has approved a lease paving the way for Puget Sound Energy to build a \$275 million dockside liquefied natural gas facility south of Seattle. PSE said it expects to forge an agreement with Totem Ocean Trailer Express - Tote - to supply two large container ships that are to be converted to LNG-diesel dual fuel operation. www.hhpinsight.com/marine/2014/09/puget-sound-energy-gets-lng-site/

Shenzhen plans \$32 mil rebate program to promote low sulfur fuel

digital.nexsitepublishing.com/i/396349/26

Global port congestion study | West Coast labor negotiations tackle automation

digital.nexsitepublishing.com/i/396349/23

Is LNG the next big thing for ocean shipping?

digital.nexsitepublishing.com/i/365590/3

LNG America and Buffalo Marine Service Team Up on LNG Bunkering

LNG America will team up with Buffalo Marine Service, Inc. to design a liquefied natural gas (LNG) bunker fuel network for the U.S. Gulf Coast region, the companies have announced.

www.shipandbunker.com/news/am/771973-lng-america-and-buffalo-marine-service-team-up-on-lng-bunkering

ExxonMobil Discusses Real World Use of HDME 50

Since its July launch earlier this year, **ExxonMobil** says its new Premium Heavy Distillate Marine ECA 50 (HDME 50) fuel has attracted significant global interest.

www.shipandbunker.com/news/features/industry-insight/228639-industry-insight-exxonmobil-discusses-real-world-use-of-hdme-50

GE to Help U.S. Navy Build Energy-Efficient Marine Power System

General Electric (GE) has been chosen by the U.S. Naval Facilities Engineering Command (NAVFAC) to construct an energy-efficient marine power system at the Navy's Naval Ship Systems Engineering Station (NAVSES) in Philadelphia.

www.shipandbunker.com/news/am/172698-ge-to-help-us-navy-build-energy-efficient-marine-power-system

BP: Scrubbers Are the Most Economic Option for Shipowners

www.shipandbunker.com/news/apac/373092-bp-scrubbers-are-the-most-economic-option-for-shipowners

Strategic Partnership Will Ensure the Supply & Delivery of LNG As Firms Pledge to Fully Finance Necessary Ship Conversions Too

Scrubbers are the most economic option for companies looking to become compliant with Emission Control Area (ECA) regulations according to BP Singapore President Terence Yuen.

www.hhpinsight.com/marine/2014/10/clean-marine-wespac-for-lng-fuel-finance/

Rail

BNSF exec sees opportunity' in switch from diesel to LNG locomotives

As a North Dakota company prepares to fire up the state's first production facility for liquefied natural gas, the nation's largest railroad is pursuing a switch from diesel-powered to LNG-powered locomotives, potentially opening up a major market for the product.

www.prairiebizmag.com/event/article/id/19288/

Regulators require weekly congestion reports from all Class 1 railroads

Union Pacific and six other Class 1 railroads are now federally required to file detailed weekly reports on shipping delays, as federal regulators cope with complaints that crude oil gets top priority at the expense of all other cargo.

www.cargobusinessnews.com/news/101514/news4.html

Norfolk Southern expects to take delivery of 50 natural gas-ready locomotives

Norfolk Southern expects to take delivery of 50 natural gas-ready locomotives during this fourth quarter.

www.hhpinsight.com/rail/2014/10/40-cng-ready-emds-for-ns/

Fuel Cell/Electric Vehicles

\$60 Million from CEC for Alt Fuel Projects

The California Energy Commission has approved nearly a score of hydrogen fueling, battery electric vehicle and plug-in hybrid electric vehicle projects totaling nearly \$50 million. Some \$8.1 million has been allocated for EV placements too, as well as \$4.3 million for natural gas vehicles.

www.fleetsandfuels.com/fuels/hydrogen/2014/07/60-million-from-cec-for-h2-evs-ngvs/

ARPA-E Awards \$33 Million for New Fuel Cell Projects

DOE's Advanced Research Projects Agency-Energy (ARPA-E) recently announced \$33 million in funding for 13 new projects aimed at developing transformational fuel cell technologies for low-cost distributed power generation. The projects, funded through ARPA-E's new Reliable Electricity Based on Electrochemical Systems (REBELS) program, will focus on improving grid stability, balancing intermittent renewable technologies, and reducing carbon dioxide emissions using electrochemical distributed power generation systems.

www.energy.gov/articles/arpa-e-announces-13-new-projects-new-york-energy-week

DOE Invests \$20 Million to Advance Hydrogen Production and Delivery Technologies

DOE recently announced \$20 million for ten new research and development projects that will advance hydrogen production and delivery technologies. Developing technologies that can economically produce and deliver hydrogen to power fuel cells from diverse, domestic, and renewable resources can enable substantial reductions in energy use and carbon emissions. Advancing these technologies will be critical to the widespread commercialization of fuel cell electric vehicles and other fuel cell technologies.

www.energy.gov/eere/articles/energy-department-invests-20-million-advance-hydrogen-production-and-delivery

Motiv's 100% Battery Trash Truck

Motiv Power Systems is to unveil North America's first fully battery-electric, fully functional garbage truck, operated by the City of Chicago, at Calstart's HTUF meeting in Chicago next week. The vehicle has 200 kilowatt-hours of energy capacity in ten packs using sodium nickel batteries from Fiamm SoNick.

www.fleetsandfuels.com/fuels/evs/2014/09/motiv-for-100-battery-garbage-truck/

www.fleetsandfuels.com/fuels/evs/2014/09/pge-shows-edi-altec-hybrids/

Electric buses begin to take over the public transit world

The humble city bus is quietly (also smoothly and emissions-free) going electric. In the past couple of months alone, Chicago, Washington DC, Portland, Oregon and London have begun trials of battery-electric buses, and the Chinese city of Hangzhou has placed an order for 2,000.

www.chargedevs.com/newswire/electric-buses-begin-to-take-over-the-public-transit-world/

Foothill Transit inaugurates fully electric bus line

As cities around the world test electric buses, Foothill Transit will start regular service on a fully electric bus line this week. Four years ago, Foothill Transit became the first public transit agency to put fast-charging electric buses into service.

www.chargedevs.com/newswire/foothill-transit-inaugurates-fully-electric-bus-line/

BYD to Show 60-Foot All-Battery Bus

China's BYD has pledged to unveil the world's first 100% pure battery electric articulated transit bus at APTA Expo in Houston this month, promising to bring all-electric propulsion to a new market sector - the

60-footer. Representatives of major transit agencies have already gotten a look at the vehicle, at BYD's factory in Lancaster, Calif.

www.fleetsandfuels.com/fuels/evs/2014/09/byd-for-an-all-battery-artic-bus/

TransPower's new electric Class 8 drayage truck

California-based TransPower is one of several electric powertrain manufacturers that are targeting the promising short-haul drayage market.

www.chargedevs.com/newswire/transpowers-new-electric-class-8-terminal-truck/

www.fleetsandfuels.com/fuels/evs/2014/05/transpower-unveils-latest-electruck/

First 40-foot, Zero-Emissions Electric Bus is Tested

The Altoona Bus Research and Testing Center under the Larson Institute and sponsored by the Federal Transit Administration, recently completed the FTA's "new model bus testing program" of the first 40', all-electric bus. www.sustainablecitynetwork.com/topic_channels/transportation/article_c89d19ce-e609-11e3-b6ca-0017a43b2370.html

California Energy Commission awards \$6 million for EV charging and V2G projects

The CEC approved three alternative fuel infrastructure projects totaling more than \$6 million.

www.chargedevs.com/newswire/california-energy-commission-awards-6-million-for-ev-charging-and-v2g-projects/

ClipperCreek Introduces Smart Charging Station

ClipperCreek, Inc., announced the launch of their ETL listed utility smart grid connected charging station, the CS-40-SG2. This first of a kind charging station includes an embedded revenue grade sub-meter and a variety of smart grid communications options.

www.sustainablecitynetwork.com/topic_channels/transportation/article_708f84d2-e08d-11e3-a83b-0017a43b2370.html

FirstElement Receives Grant to Build Hydrogen Fueling Network

FirstElement Fuel Inc., puts to rest the question of who will build the hydrogen fueling network in advance of the fuel cell electric vehicle launches scheduled for 2015 or sooner. The company was created to build out a network of retail hydrogen fueling stations for the fuel cell electric vehicle market.

www.sustainablecitynetwork.com/topic_channels/transportation/article_c170cdfa-e08a-11e3-9054-0017a43b2370.html

University of California researches integration of EVs, renewable energy, storage and smart grid

Electric vehicles are wonderful things in and of themselves, but they will only reach their full potential as components of an integrated "ecosystem" that also includes renewable energy, stationary storage and an intelligent electrical grid. With this in mind, the University of California, Riverside has launched its Sustainable Integrated Grid Initiative, a project that will research the integration of intermittent renewable energy, such as photovoltaic panels; energy storage, such as batteries; and all types of electric and hybrid vehicles.

www.chargedevs.com/newswire/university-of-california-project-will-research-integration-of-evs-with-renewable-energy-storage-and-smart-grid-technology/

DOE Awards \$7 Million to Advance Hydrogen Storage Systems

DOE recently announced \$7 million for six projects to develop lightweight, compact, and inexpensive advanced hydrogen storage systems that will enable longer driving ranges and help make fuel cell systems

competitive for different platforms and sizes of vehicles. These advances in hydrogen storage will be critical to the widespread commercialization of hydrogen and fuel cell technologies.

www.energy.gov/eere/articles/energy-department-awards-7-million-advance-hydrogen-storage-systems

BC Transit Fuel Cell Bus Project Evaluation Results: Second Report

The U.S. Department of Energy's National Renewable Energy Laboratory has released a report that investigates the status of fuel cell electronic bus technology and discusses how the buses could provide daily service in urban transit operations.

www.trb.org/main/blurbs/171484.aspx

Freight Data Architecture Business Process, Logical Data Model, and Physical Data Model

The Center for Transportation Research at the University of Texas at Austin has released a report that summarizes efforts to establish data-sharing partnerships with private-sector companies and lessons learned in facilitating those partnerships.

www.trb.org/main/blurbs/171488.aspx

Business Case for Fuel Cells 2014: Powering the Bottom Line for Businesses and Communities

This report, written and compiled by Breakthrough Technologies Institute (BTI) with support from the Fuel Cell Technologies Office, provides an overview of fuel cell installations at businesses and municipal buildings or facilities run by non-profit organizations or institutions. These include wastewater treatment plants, government buildings, universities, military bases, hospitals, and other sites.

www.energy.gov/eere/fuelcells/downloads/business-case-fuel-cells-2014-powering-bottom-line-businesses-and

Trucking

Report: USPS Can't Afford to Replace Aging Fleet

During fiscal year 2012, the USPS spent more than \$906 million on maintenance for its fleet of nearly 212,000 vehicles that is one of the largest in the country.

www.government-fleet.com/news/story/2014/06/report-usps-can-t-afford-to-replace-aging-fleet.aspx

Clyde Launches Medium-Duty CNG Truck Line

New York-based Clyde Trucks is now offering a line of Class 4 and 5 CNG-powered, cab forward, medium-duty trucks.

www.government-fleet.com/news/story/2014/06/clyde-launches-class-4-and-5-medium-duty-cng-truck-line.aspx

ICCT Report – DOE SuperTruck effort demonstrating 50% vehicle-efficiency gains in U.S. heavy truck fleet

A International Council on Clean Transportation (ICCT) comparative analysis of the most recent interim progress reports from the four industry teams participating in the DOE SuperTruck program shows all to be on or ahead of schedule in reaching the program's technology R&D and vehicle-efficiency goals: a 50% increase in overall tractor-trailer freight efficiency and a 20% increase in engine efficiency. With the typical semi, or Class 8 tractor-trailer, on the road today averaging 6–7 miles per gallon, that rate of progress puts the industry on a path to exceed 10 mpg not just with an advanced-technology demonstration vehicle but in real-world commercial freight-hauling conditions. According to DOE estimates, the efficiency gains envisioned by the SuperTruck program could translate into 300 million barrels of oil saved annually.

www.energy.gov/eere/articles/supertruck-making-leaps-fuel-efficiency

TransPower's new electric Class 8 drayage truck

California-based TransPower is one of several electric powertrain manufacturers that are targeting the promising short-haul drayage market.

www.chargedevs.com/newswire/transpowers-new-electric-class-8-terminal-truck/

www.fleetsandfuels.com/fuels/evs/2014/05/transpower-unveils-latest-electruck/

Will natural gas stall out as heavy-duty alternative?

Just two years ago, natural gas was forecast to fuel up to 20% of new heavy-duty trucks by the end of the decade. But now, thanks to everything from declining diesel prices to fleet concerns about natural-gas payback and fueling infrastructure, it appears those earlier predictions of the future strength of natural gas were too rosy.

www.fleetowner.com/running-green/will-natural-gas-stall-out-heavy-duty-alternative

EVI to Unveil All-Battery Reefer Truck

California's Kings Canyon Unified School District is getting set to unveil a 100% battery electric refrigerated box truck it plans to add to its fleet of reefers this summer. The truck is a Freightliner M2 converted to battery electric operation by Electric Vehicles International with a UQM driveline. It has an electric cold box by Texas-based Cold Car.

www.fleetsandfuels.com/fuels/evs/2014/06/keeping-it-cold-for-the-kids/

Engine/Powerplant and Drivetrain Optimization: Vehicle/Trailer Efficiency

(California Air Resources Board: Truck Technology Assessment presentation)

www.arb.ca.gov/msprog/tech/presentation/engineoptimization.pdf

Fleet Fuel Study 2013 Update—Major Findings (North American Council for Freight Efficiency)

www.nacfe.org/wp-content/uploads/2013/03/2013-NACFE-Study-Major-Findings-030713.pdf

Scania will deliver approximately 1,500 biodiesel trucks in 2014

The company's broad commitment to alternative fuels and sustainable development is now also becoming visible in the form of strong truck sales. In 2014 alone, Scania expects to deliver about 1,500 Euro 6 trucks in Europe that use one of the five engine models that can run on up to 100% biodiesel.

www.oemoffhighway.com/press_release/12018160/scania-biodiesel-trucks

Do Anti-Idling Technologies Work?

Do anti-idling technologies really work? Spoiler alert: They do. In addition to telematics and auxiliary power units that can be used for anti-idling purposes, vehicle calibrations and devices that turn off idling engines can also reduce idling and fuel use. Four fleets in various stages of using idle-reducing devices, from one completing an initial pilot program to another with anti-idling technology in place for several years, all saw a return on their investments — and have plans to expand their programs in the future.

www.government-fleet.com/channel/law-enforcement/article/story/2014/11/anti-idling-technologies-do-they-work.aspx

School Buses/Public Fleets

US Hybrid to deliver plug-in fuel cell shuttle bus to Hawaii Mass Transit Agency

The Hawaii Center for Advanced Transportation Technologies (HCATT) has awarded a contract to US Hybrid to deliver a plug-in fuel cell shuttle bus to the County of Hawaii Mass Transit Agency. US Hybrid's H2Ride 25-passenger shuttle bus uses a 30 kW fuel cell fueled by a 20 kg hydrogen storage and delivery system. www.chargedevs.com/newswire/us-hybrid-to-deliver-plug-in-fuel-cell-shuttle-bus-to-hawaii-mass-transit-agency/

Electric school bus conversion debuts at California district

In a new pilot project, Gilroy Unified School District handed over an old diesel school bus to Adomani and got it back as an electric school bus. In addition to the conversion, the district was supplied with a solar array to help generate electricity to power the bus. www.schoolbusfleet.com/Channel/Green-School-Bus/News/2014/05/28/Converted-electric-school-bus-launched-at-California-district.aspx

California company electrifies a Blue Bird school bus

ADOMANI has partnered with the Gilroy, California Unified School District to convert a Blue Bird school bus to all-electric operation. The bus was unveiled at a ceremony on June 13th by Mayor Don Gage and the repower project team.

www.chargedevs.com/newswire/california-company-electrifies-a-blue-bird-school-bus/

Electric buses could save districts millions, study finds

The study, conducted by the University of Delaware's College of Earth, Ocean, and Environment, examined the cost-effectiveness of electric school buses that use vehicle-to-grid technology, discharging their batteries into the electrical grid when not in use and getting paid for the service. Over 14 years, an electric bus fleet using the technology could save an estimated \$38 million, according to the research.

www.schoolbusfleet.com/Channel/Bus-Maintenance/News/2014/06/03/Electric-school-buses-could-save-districts-millions-study-finds.aspx

www.chargedevs.com/newswire/new-study-v2g-equipped-buses-could-save-school-districts-millions/

www.sciencedirect.com/science/article/pii/S0306261914003420

www.udel.edu/udaily/2014/may/electric-school-bus-052814.html

Upgrading Refuse Fleets to CNG: Three Considerations Beyond Economics

Refuse fleets are one of the fastest growing markets for compressed natural gas, primarily because of the significant fuel cost savings that can be realized. The Natural Gas Vehicle Institute offers these key factors refuse fleets need to examine when considering upgrading to CNG.

www.government-fleet.com/article/story/2014/06/figuring-out-fuel-contracts.aspx

Emission-control technology offers low-maintenance solutions

Diesel particulate filters, mufflers and engine pre-heaters help school bus operators keep the air in and around their vehicles clean with minimal maintenance required. Technology upgrades now allow for optimal operation and pre-programmable engine pre-heating in even lower temperatures.

www.schoolbusfleet.com/Channel/Green-School-Bus/Articles/2014/05/Emission-control-technology-offers-low-maintenance-solutions.aspx

Volvo may test dynamic wireless charging on Swedish city bus line

The Volvo Group is studying the possibility of developing a dynamic charging solution for city buses. Dynamic charging, in which vehicles are charged by an inductive charging coil in the roadbed, is generally considered to be several years from commercialization, although a group of Korean researchers has tested a prototype system.

www.chargedevs.com/newsire/volvo-may-test-dynamic-wireless-charging-on-swedish-city-bus-line/

Collins Bus Corp. launches new CNG Type A school bus

The school bus manufacturer has partnered with Westport on the bus, which features the Westport WiNG Power System, a dedicated natural gas fuel system. The bus also features a large passenger-side cab view window, an exterior storage compartment, and it provides an estimated 250- to 300-mile range. Collins Bus is accepting orders for the bus, and delivery to customers will begin in the fall, according to the company.

www.schoolbusfleet.com/Channel/Green-School-Bus/News/2014/05/14/Collins-Bus-Corp-launches-new-CNG-Type-A-school-bus.aspx

Alt-fuel school bus options are growing

Manufacturers are meeting the demand for clean-burning, money-saving yellow buses by offering more powered by propane autogas and compressed natural gas, as well as all-electric units. Here's a look at some of the school buses in development, on the market and in service at operations.

www.schoolbusfleet.com/Channel/Green-School-Bus/Articles/2014/05/Alt-fuel-school-bus-options-are-growing.aspx

Longer School Bus Life, Diesel Dedication

IC Bus President John McKinney says that school buses now have an average life cycle of nearly 15 years, which means that product durability and customer support are especially critical. He also points to diesel as the "backbone of the industry" and discusses the decision to offer the Cummins ISB engine.

www.schoolbusfleet.com/Channel/Management-Training/Articles/2014/06/McKinney-Sees-Longer-Bus-Life-Diesel-Dedication.aspx

CleanFUEL USA fuel system powers new Thomas propane bus

CleanFUEL USA's liquid propane injection system is employed by the Thomas Built Buses propane Saf-T-Liner C2 school bus as well as the Freightliner Custom Chassis S2G medium-duty truck, both of which are now in full production.

www.schoolbusfleet.com/Channel/Green-School-Bus/News/2014/07/17/CleanFUEL-USA-fuel-system-powers-new-Thomas-propane-school-bus.aspx

Proterra announces first sale of its second-generation electric bus

Proterra has announced the first sale of its second-generation battery-electric bus to Foothill Transit of West Covina, California. Foothill Transit, which became Proterra's first customer in 2010, has agreed to purchase two more buses from the company, to be delivered in December.

www.chargedevs.com/newsire/proterra-announces-first-sale-of-its-second-generation-electric-bus/

Clinton Global Initiative partner wins grant to build electric school buses

The Commissioners of the California Energy Commission approved a grant to National Strategies for \$1.4 million for an all electric school bus demonstration program in California. Coupled with a previous grant, the total of \$2.2 million will lead to the development of six buses that will be deployed in Torrance Unified School District, Kings Canyon Unified School District and Napa Valley Unified School District.

www.schoolbusfleet.com/Channel/Green-School-Bus/News/2014/07/24/Clinton-Global-Initiative-partner-wins-grant-to-build-electric-school-buses.aspx
www.fleetsandfuels.com/fuels/evs/2014/07/cgi-for-v2g-capable-all-battery-buses/

ABB and Volvo form partnership for bus fast charging

Swiss power and automation group ABB has announced a partnership with Volvo Buses to co-develop and commercialize electric and hybrid buses with open standards-based DC fast charging systems.

www.chargedevs.com/newswire/abb-and-volvo-form-partnership-for-bus-fast-charging/

Proterra Sells New 40-Footers in Seattle

Pure battery bus builder Proterra, a proponent of en-route fast-charging using high-power DC equipment, reported a contract for the sale of two 100% electric transit vehicles and a fast-charge system to King County Metro in Seattle. www.fleetsandfuels.com/fuels/evs/2014/09/proterra-notches-seattle-sale/

Eaton Discontinues Diesel-Electric Hybrid Trucks

Eaton has confirmed that it's out of the diesel-electric hybrid business in North America, after government incentives and stabilizing diesel prices contributed to a market largely drying up. www.government-fleet.com/news/story/2014/09/eaton-confirms-it-s-discontinued-diesel-electric-hybrid.aspx

Nonroad

Tier 4 Vehicles to Trickle Into Off-Road Fleets

While Tier 4 equipment is still new, fleets can get ready to incorporate them by training technicians for the new technology and budgeting for the higher cost.

www.government-fleet.com/article/story/2014/06/tier-4-impact-on-off-road-fleets-to-trickle-in-over-next-few-years.aspx



Reports/Policy Regulations

ICCT Report - Final Phase 2 China fuel consumption standard for commercial HDVs

In February 2014, China's Phase 2 heavy-duty vehicle fuel consumption standards were finalized. The final rule remains unchanged from the late 2012 proposal by China's Ministry of Industry and Information Technology (MIIT). It stipulates limits on fuel consumption for new commercial trucks, dump trucks, tractors, coaches and buses with gross vehicle weight over 3,500 kg. The standard takes effect on July 1, 2014, for new type approvals and on July 1, 2015, for all new heavy commercial vehicles (except certain specialized vocational vehicles) sold in China. A separate rule must still be finalized to specify details of how import vehicles will be brought into compliance. This International Council on Clean Transportation (ICCT) policy update summarizes the major aspects and provisions of the regulation.

www.theicct.org/final-phase-2-china-fuel-consumption-standard-commercial-hdvs

8 States Release Zero-Emission Vehicle Plan

Eight states released an 11-point action plan they say will help them reach 3.3 million zero emission vehicles (ZEV) on their roadways by 2025.

www.fleetsandfuels.com/fuels/evs/2014/06/multi-state-zev-action-plan/

www.government-fleet.com/news/story/2014/05/8-states-release-zero-emission-vehicle-action-plan.aspx

www.sustainablecitynetwork.com/topic_channels/policy/article_8aef8974-e9ea-11e3-9e1d-0017a43b2370.html

CARB Heavy-Duty Technology Assessment Underway

The California Air Resources Board is moving forward with an aggressive timeline to develop its Sustainable Freight Transport Initiative, designed to push freight movement powertrain technologies in certain parts of the state to emissions levels of zero to near-zero over the next decade. www.arb.ca.gov/gmp/sfti/sfti.htm

Comparative assessment of heavy-duty vehicle regulatory design options for U.S. greenhouse gas and efficiency regulation

As regulatory agencies in the U.S. work on the second phase of heavy-duty vehicle greenhouse gas (GHG) and efficiency standards, one of the key decisions they face concerns the regulatory certification pathways. The question of whether to maintain separate standards for the engine and the full vehicle, as in the first phase of the regulation, is hotly debated. In addition, the agencies must decide what upgrades to the testing and certification procedures can be made based on lessons learned from Phase 1. This analysis develops six possible options for certification, using Phase 1 and publicly expressed industry viewpoints as a guide. The authors then evaluate these options based on seven criteria developed to compare the certification procedures' relative merits.

www.theicct.org/us-phase2-hdv-regulation-design-options

NCSL Mobility Newsletter: October/November 2014

The National Conference of State Legislatures (NCSL) has released its quarterly newsletter that explores state and federal activities directed at overcoming transportation challenges, especially for those who have disabilities or low incomes.

www.trb.org/main/blurbs/171511.aspx

Navigant Research - [Nearly 350,000 Hybrid and Electric Trucks Will be Sold Worldwide from 2013 to 2020](#)

While hybrid, plug-in hybrid, and battery electric drivetrains have successfully penetrated the light duty passenger vehicle market, the commercial truck market has proven to be more of a challenge. Government stimulus spending from 2008 to 2011 spurred R&D, production, and deployment of hybrid and plug-in commercial trucks, but demand has only recently begun to grow. According to a new report from Navigant Research, nearly 350,000 light, medium, and heavy duty hybrid and electric trucks will be sold in the global commercial fleet market from 2013 through 2020. “Hybrid and electric truck market growth has slowed since 2011,” says Lisa Jerram, senior research analyst with Navigant Research. “Since then, fleet managers have been learning which routes get the most fuel savings benefit and which don’t offer a fast enough payback to justify the price premium. While interest is picking up again, especially in North America, this market still relies on subsidies to offset substantial price premiums over conventional trucks or even natural gas vehicles.” www.navigantresearch.com/research/hybrid-and-electric-trucks

Navigant Research - Transportation Forecast: Global Fuel Consumption

Reducing the transportation sector’s dependence on oil has long been a policy goal of governments globally. The sector’s overwhelming dependence on the resource results in major costs that affect energy security, environmental security, and economic stability for nations globally. More than 1.2 billion vehicles are on the world’s roads today, with nearly 98% being powered by blends of gasoline or diesel. Governments have initiated a number of policies aimed at reducing oil consumption, including subsidizing alternative fuels and alternative fuel vehicles (AFVs), biofuels mandates, and higher fuel economy requirements for new vehicles. Markets for both vehicles and fuels have gradually begun to respond to these government programs, and alternative fuels are beginning to have an impact on global oil demand. The shape and form of road transportation alternative fuels markets vary by region, largely influenced by government regulations, local resources, infrastructure, and fuel prices. Navigant Research forecasts that annual energy consumption in the global road transportation sector will grow from 81.1 quadrillion Btu in 2014 to 101.7 quadrillion Btu in 2035. www.navigantresearch.com/research/transportation-forecast-global-fuel-consumption

Washington State Dept of Transportation – Hybrid Vehicle & Alternative Fuel Report

This report is a summary of articles appearing in popular, business, and technical media referring to the impact of fuel costs and fuel efficiency on vehicle technology, development, and markets. www.wsdot.wa.gov/NR/rdonlyres/44B9133E-2C55-4C43-AC4A-DE26B65B1621/0/HybridReportOctober302014.pdf

OECD Report - Air pollution is a \$1.7T health problem

Air pollution has now become the biggest environmental cause of premature death, overtaking poor sanitation and a lack of clean drinking water. In most OECD countries, the death toll from heart and lung diseases caused by air pollution is much higher than the one from traffic accidents. www.oecd.org/environment/cost-of-air-pollution.htm

Fleets See the Bottom-Line Benefit of Going Green

Fleets across the board have seen the operational and bottom-line benefits of going green. With several years behind them, fleets have learned sustainability involves being flexible and analytical. www.greenfleetmagazine.com/article/52101/fleets-see-the-bottom-line-benefit-of-going-green

Evaluation of state-level U.S. electric vehicle incentives

Many U.S. states offer incentives to encourage consumers to purchase electric vehicles. Are these various incentives beginning to significantly influence electric vehicle adoption rates? In this early stage of electric vehicle market development, governments could benefit from an improved understanding of best-practice policies emerging to cost-effectively spur electric vehicle sales.

www.theicct.org/evaluation-state-level-us-electric-vehicle-incentives

Energy Department Invests More Than \$55 Million to Advance Efficient Vehicle Technologies

www.eere.energy.gov/cleancities/news_detail.html?news_id=21596

CARB Regulatory Advisory regarding EPA Waiver for CARB's Tractor-Trailer GHG Regulation

The California Air Resources Board has issued Regulatory Advisory Mail-Out MSC# 14-17 to notify interested stakeholders that on July 30, 2014, the U.S. Environmental Protection Agency (U.S. EPA) granted ARB a waiver pursuant to section 209(b) of the federal Clean Air Act for California's Tractor-Trailer Greenhouse Gas (GHG) Regulation. This waiver authorizes ARB to enforce specific provisions of the Tractor-Trailer GHG Regulation applicable to 2011 through 2013 model year Class 8 tractors equipped with integrated sleeper berths and to 2011 and subsequent model year 53 foot and longer dry-van and refrigerated-van trailers that are pulled by such tractors on California highways.

www.arb.ca.gov/msprog/truckstop/truckstop.htm or www.arb.ca.gov/cc/hdghg/hdghg.htm



www.westcoastcollaborative.org

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