National Idling Reduction Network News

April 2012

SOLICITATIONS FOR FUNDING AND AWARDS

[Brown text indicates a new entry, or updated information, since last month.]

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Bay Area Air Quality Management District (BAAQMD)	Carl Moyer Memorial Air Quality Standards Attainment Program	$14 million	First come, first served.	http://www.baaqmd.gov/?sc_itemid=08F9594F-BF34-4A2A-BD38-9A3D0CCFF8F8
North Carolina Department of Environment and Natural Resources	2011 Idle Reduction Devices Rebate Program	**$15,000 (as of April 11, 2012)**	First come, first served.	http://daq.state.nc.us/motor/Rebates/
California Air Resources Board (CARB)	On-Road Heavy-Duty Vehicle Loan Program	~$48 million for loan guarantees	Rolling deadline until funds are awarded.	http://www.arb.ca.gov/ba/loan/on-road/documents/hdvloanprogram.pdf
Efficiency Maine	Small Business Low Interest Loan Program	Indeterminate	Rolling deadline until funds are awarded.	http://www.efficiencymaine.com/at-work/for-small-business/loan-programs
Minnesota Pollution Control Agency	Small Business Auxiliary Power Unit (APU) Loan Program	$110,000	Rolling deadline until funds are awarded.	http://www.pca.state.mn.us/index.php/topics/small-business-environmental-assistance-program/small-business-ombudsman/small-business-auxiliary-power-unit-apu-loan-program.html
Metropolitan Washington Council of Governments (COG), in collaboration with the District Department of the Environment, the District Department of Transportation, and the Maryland Department of the Environment	Driver Recognition Program—Diesel Idle Reduction Campaign	N/A	Rolling deadline—the 15th of every month.	http://www.turnyourengineoff.org/campaign_recognition.html

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Utah Department of Environmental Quality	Utah Clean Diesel Program	Indeterminate	Rolling deadline until funds are awarded.	http://www.cleandiesel.utah.gov/
Arkansas Department of Environmental Quality	**Business Assistance Program, Environmental Loans for Small Businesses**	**Indeterminate**	**N/A**	http://www.adeq.state.ar.us/poa/sba/envloans.htm
City of Grand Rapids (Michigan)	**Call for Bids: Diesel Emission Reduction Components (including 18 EPA-verified diesel-fired coolant heaters, Espar Hydronic 5 or approved equivalent)**	**N/A**	**May 7, 2012**	https://procurement.pbnlink.com/MainBidBoard?statusfilter=All&typefilter=All&oid=28955&commodityCode=&commodityDescription=&search=&ac=0&bidoid=28955&bidid=26094&bidtype=Bid&sortby=issuedate&order=1&pgno=0
U.S. Department of Energy (DOE)	Zero Emission Cargo Transport Demonstration	$10 million	May 15, 2012	https://eere-exchange.energy.gov/default.aspx#97e671e8-6b9a-4fd9-89c2-23b19f813709
North Central Texas Council of Governments (NCTCOG)	**2012 Clean Diesel Call for Projects**	**N/A**	**May 18, 2012**	http://www.nctcog.org/trans/air/programs/idling/NCTCOG2012CleanDieselCFP.asp
San Joaquin Valley Air Pollution Control District (California)	**Locomotive Program (implementation of emissions reduction technology)**	**$1.96 million**	**May 25, 2012**	http://www.valleyair.org/Grant_Programs/GrantPrograms.htm#Locomotive
Nebraska Department of Environmental Quality	Expanded Clean Diesel Rebate Program	Indeterminate	May 31, 2012	http://www.deq.state.ne.us/AirDivis.nsf/Pages/DERA
U.S. Environmental Protection Agency (EPA)	**National Clean Diesel Funding Assistance Program, FY 2012 Request for Proposals**	**~$20 million**	**June 4, 2012**	http://www.epa.gov/air/grants/rfp-epa-oar-otaq-12-05.pdf
Maryland Energy Administration	Maryland Idle Reduction Grant Program	$225,000	**June 15, 2012**	http://energy.maryland.gov/Transportation/idle/

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Cascade Sierra Solutions	Shorepower Truck Electrification Project (STEP) Rebate Program	**Rebates for battery HVAC systems are the only remaining**	**July 1, 2012 (estimated)**	https://csswebform.org/WebForm/TSE_home.aspx
New York State Energy Research and Development Authority (NYSERDA)	2011 Electric Vehicle Supply Equipment (EVSE) Demonstration and Support Program	~$4 million	July 25, 2012	http://www.nyserda.ny.gov/Funding-Opportunities/Current-Funding-Opportunities/PON-2301-2011-Electric-Vehicle-Supply-Equipment-EVSE-Demonstration-and-Support-Program.aspx
Ohio EPA	Clean Diesel School Bus Fund Retrofit Grants Program	$300,000	September 1, 2012	http://www.epa.ohio.gov/oeef/schoolbus.aspx

EPA's National Clean Diesel Program Now Accepting Proposals

The EPA has issued its Request for Proposals (RFP) for the National Clean Diesel Funding Assistance Program, which includes a number of changes compared to the program's last RFP. Projects that will help recipients meet state diesel-emission reduction mandates by are now eligible for funding. (Federally mandated emission-reduction projects, however, remain ineligible.) This RFP also gives priority to areas disproportionately affected by diesel pollution, including ports, rail yards, terminals, construction sites, school bus depots/yards, and distribution centers.

For truck projects, EPA will fund verified idling reduction technologies only when they are combined, on the same vehicle, with new, verified exhaust controls. Additionally, for this RFP, only long-haul Class 8 vehicles with 2006 or older certified engine configurations are eligible for APUs and generators. Funding is available for up to 100% of the cost of labor and equipment for eligible truck projects.

For locomotive projects, EPA will fund up to 50% of the cost of eligible idling reduction technologies, and for shore connection systems and truck stop electrification (TSE) technologies, EPA will fund up to 25% of the project cost.

The Diesel Emissions Reduction Act (DERA), created under the Energy Policy Act of 2005, was reauthorized in 2011. For fiscal year (FY) 2012, Congress appropriated $29.9 million—$20 million for the competition-based National Program and $9.9 million for the allocation-based State Program.

The application deadline is June 4, 2012. For more information, please visit http://www.epa.gov/cleandiesel/prgnational.htm. The link www.epa.gov/cleandiesel/documents/fy12-county-area-list.pdf lists the priority counties and areas, and the link www.epa.gov/smartway/technology/idling.htm provides EPA SmartWay verified technology.

REGULATORY NEWS

EPA Fines Durham School Services for Excessive Idling

In an excessive-idling settlement with the New England EPA, school bus company Durham School Services (Warrenville, Illinois) has agreed to pay a $90,000 penalty and undertake environmental projects valued at $348,000. Durham will implement a national, fleetwide training program to prevent excessive idling. The company will require supervisors to monitor idling in school bus lots, post no-idling signs in areas where drivers congregate, and notify the school districts it serves of its anti-idling policy. As part of the agreement, Durham will also replace 30 older buses with buses equipped with up-to-date pollution controls.

In the fall of 2010, an EPA inspector observed Durham school buses idling for extended periods—in some cases, for nearly 2 hours—in school bus lots in Storrs, Connecticut, Worcester, Massachusetts, and Johnston, Rhode Island. Vehicle idling is limited to 3 minutes in Connecticut and 5 minutes in Massachusetts and Rhode Island. According to the EPA, if the school bus company reduces the idling time of each bus in its fleet by 1 hour a day, it will save 1.25 million gallons of fuel per year. It will also prevent the emission of 28 million pounds of carbon dioxide annually.

Durham operates nearly 14,000 school buses in 30 states. More information about the enforcement action and settlement is available at http://yosemite.epa.gov/opa/admpress.nsf/0/62196F9B584B436C852579DC00599928.

Canada Proposes GHG Emissions Standards To Align with the U.S.'s

Canada's Department of Environment has proposed regulations to reduce greenhouse gas (GHG) emissions from on-road heavy-duty vehicles beginning with model year 2014. Vehicles affected would range from large pick-up trucks to long-haul trucks. According to Peter Kent, Canada's Environment Minister, the changes can be achieved with the use of existing technologies for fuel efficiency, aerodynamics, and idling reduction. The standards are designed to align with U.S. standards.

"Canada and the United States have a deeply integrated automotive industry and there are significant environmental and economic benefits to aligning our emission standards for new on-road heavy-duty vehicles," said Minister Kent. "Today's announcement means that, by the year 2020, greenhouse gas emissions from Canada's heavy-duty vehicles will be reduced by 3 million tonnes per year. This is equivalent to removing 650,000 personal vehicles from the road."

If the regulations pass, GHG emissions from model-year 2018 vehicles would be 23% less than those of model-year 2010 vehicles. The proposed regulations are available at http://www.gazette.gc.ca/rp-pr/p1/2012/2012-04-14/html/reg1-eng.html. For more information, please see http://www.ec.gc.ca/default.asp?lang=En&n=714D9AAE-1&news=1145351A-3CE2-4AFF-9A39-3E05FFC31D79.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Puget Sound Clean Air Agency	Washington Department of Ecology	Port of Seattle Idle Reduction Project—installation of idling reduction equipment on cargo-handling equipment and retrofit devices	$287,200
Puget Sound Clean Air Agency	Washington Department of Ecology	Port of Tacoma Idle Reduction Project—installation of idling reduction equipment on cargo-handling equipment	$228,150

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
EPA	Questions and Answers: National Clean Diesel Funding Assistance Program, FY 2012 RFP	http://www.epa.gov/cleandiesel/documents/fy12-dera-faq.pdf
EPA	FY 2012 State Clean Diesel Grant Program: Fact Sheet for EPA Regions and Participating States and Islands	http://www.epa.gov/cleandiesel/documents/fy12-state-factsheet.pdf
EPA	Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2010	http://www.epa.gov/climatechange/emissions/usinventoryreport.html
EPA	Report to Congress on Black Carbon	http://www.epa.gov/blackcarbon/
Pike Research	Total Cost of Ownership of Alternative Fuel Vehicles for Fleet Operators	Summary and ordering information available at http://www.pikeresearch.com/research/total-cost-of-ownership-of-alternative-fuel-vehicles-for-fleet-operators
Transportation Quarterly	Eliminating a Necessary Evil: Shore Power Offers Alternative to Idling the Engine for Driver Comfort	http://www.transportationquarterly.com/ (click on "Current Issue," or Volume 32, Issue 2)
Transportation Research Board (TRB)	"Measurement of Noise Level, Whole-Body Vibration from Driver and Passenger Seats, and In-Cab Air Quality of Heavy-Duty Diesel Vehicles," in Research on the Health and Wellness of Commercial Truck and Bus Drivers: Summary of an International Conference	http://onlinepubs.trb.org/onlinepubs/conf/CPW5.pdf (p. 81)

UPCOMING MEETINGS AND EVENTS

[Brown text indicates a new entry since last month]

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
Alternative Clean Transportation (ACT) Expo	Long Beach, California	May 14–17, 2012	http://www.actexpo.com/index.html
2012 DOE Hydrogen and Fuel Cells and Vehicle Technologies Programs Annual Merit Review and Peer Evaluation Meeting	Arlington, Virginia	May 14–18, 2012	http://www.annualmeritreview.energy.gov
Government Fleet Expo & Conference (GFX)	Denver, Colorado	June 18–20, 2012	http://www.governmentfleetexpo.com/
Greener Global Transport: 5th International Environmentally Friendly Vehicle Conference	Baltimore, Maryland	September 10–12, 2012	http://www.regonline.com/builder/site/default.aspx?EventID=998283
Hybrid Truck Users Forum (HTUF) National Conference 2012	Charlotte, North Carolina	September 17–20, 2012	http://www.calstart.org/Events/CALSTART-Events/HTUF-National-Conference.aspx
Green Fleet Conference	Schaumburg, Illinois	October 2–3, 2012	http://www.greenfleetconference.com/Page/Overview.aspx
Directions in Engine-Efficiency and Emissions Research (DEER) Conference	Dearborn, Michigan	October 16–19, 2012	http://www1.eere.energy.gov/vehiclesandfuels/resources/conferences/deer/index.html
TRB 92nd Annual Meeting	Washington, D.C.	January 13–17, 2013	http://www.trb.org/AnnualMeeting2013/AnnualMeeting2013.aspx

MANUFACTURERS' NEWS

Is Stop-Start Technology Finally Gaining Traction in the U.S.?

If the engine of your next new car shuts down every time you stop, it won't be because you bought a lemon. In fact, you'll probably have paid more for the option, with the understanding that you'll more than recoup the cost in fuel savings.

Stop-start technology, sometimes called "idle stop" or microhybrid technology, appears to be taking hold in the U.S. The technology shuts off the vehicle engine at stops, thereby reducing fuel use and emissions. Unlike a conventional vehicle, engine shutoff in a vehicle with stop-start technology does not interrupt features such as heat, air conditioning, lights, and audio. These functions are powered by battery, and the transition from engine power to battery power is designed to be seamless in stop-start systems. Motorists whose driving patterns involve a lot of stop and go, as in cities, will reap the greatest cost savings.

The 2013 Ford Fusion is among the new vehicles slated to have stop-start technology. Called "auto start-stop" on the Fusion, this feature will add $295 to the vehicle's cost. According to Ford, it will save Fusion drivers as much as $1,100 over 5 years, at current fuel prices. Ford forecasts that auto start-stop will improve fuel efficiency by about 3.5% overall, with urban drivers expected to save as much as 10%.

Other vehicles equipped with similar technology are the Buick LaCrosse and Buick Regal. Even luxury performance cars such as the Mercedes AMG line have begun offering start-stop technology.

In Europe, where GHG emissions standards are more stringent and fuel prices higher, stop-start technology has become common on new cars. With U.S. consumers becoming increasingly sensitive to rising fuel prices, stop-start may become an attractive vehicle option. For more information, please see http://www.sae.org/mags/AEI/10667 and http://media.ford.com/article_display.cfm?article_id=36292.

PORTS

Shore Power for Massachusetts Fishing Boats

In Massachusetts, the New Bedford Harbor Development Commission is installing 16 power pedestals to provide electricity to commercial fishing vessels at Steamship and Coal Pocket Piers. The power docks will allow boat operators to shut down their generators, which are used to power refrigeration equipment and other auxiliaries, and plug in for electrical power.

The installations are part of a larger New Bedford Harbor shore power project. In addition to those at Steamship and Coal Pocket Piers, power pedestals are planned for Homer's Wharf (6), Leonard's Wharf (12), and Fisherman's Wharf (8). According to *Inland Port* magazine, a preproject study determined that the 42 shore power units will reduce diesel fuel use by approximately 310,000 gallons every year, with a corresponding annual reduction of GHG emissions by about 3,000 metric tons.

According to local news source southcoasttoday.com, Ed Washburn, interim executive director of the Harbor Development Commission, said that while boat operators may choose to continue to use diesel power, he believes that "the lower cost of electricity will be incentive enough for vessel owners to use the shoreside power system." The pedestals are designed to accept payment by credit card.

A $1 million U.S. EPA DERA grant and a $540,000 Massachusetts Department of Transportation Congestion Mitigation and Air Quality (CMAQ) grant funded the installations at Steamship and Coal Pocket Piers. The power pedestals should be open to commercial fishing boat operators in May. For more information, please see http://www.southcoasttoday.com/apps/pbcs.dll/article?AID=/20120327/NEWS/203270332/-1/NEWSMAP and http://issuu.com/inlandport/docs/inland_port_2011_issue_6.

EDUCATION, OUTREACH, AND CAMPAIGNS

The Magic School Bus Gets Cleaned Up Now Available in Spanish

The EPA, in collaboration with Scholastic, has released a Spanish-language version of *The Magic School Bus Gets Cleaned Up*. In *El Autobus Mágico Necesita una Limpieza*, schoolchildren "travel" with Ms. Frizzle through their own school bus's diesel engine and learn about how pollution is produced and ways to reduce it, including idling reduction.

According to the EPA's website, individuals, schools and libraries may order one copy each at no charge. Nonprofit organizations and state and local governments working on diesel and clean air education may request more copies, with approval on a case-by-case basis. Please see http://epa.gov/cleanschoolbus/msb-book.htm for more information. (Photo: Courtesy of U.S. EPA)

RECURRING FEATURES

Currently Available Idling Reduction Equipment

The Alternative Fuels and Advanced Vehicles Data Center (AFDC) of the U.S. DOE's Office of Energy Efficiency and Renewable Energy (EERE) identifies manufacturers of idling reduction equipment and provides links to their websites. More information is available at http://www.afdc.energy.gov/afdc/vehicles/idle_reduction_equipment.html. For EPA-verified idling reduction technologies in eight categories, please visit EPA's SmartWay Transport website at http://www.epa.gov/smartway/technology/idling.htm.

Status of the 400-Pound Weight Exemption for Idling Reduction Devices

[Ed. note: The Energy Policy Act of 2005 allowed for a national 400-pound exemption for the additional weight of idling reduction technology on heavy-duty vehicles. Each state can adopt this exemption, at its own discretion, without being subject to any penalty provision related to withholding of highway trust fund monies.] The following table is updated as we become aware of changes. As time permits, we will provide URLs so that interested parties, such as trucking companies, can work with their state trucking associations to be sure that enforcement officials are aware of changes in the laws. Please feel free to provide us with updates.

State Recognition of the 400-Pound Auxiliary Power Unit Exemption to GVW Limit: 23 CFR 658.17(n)						
Alabama	***District of Columbia***	**Kansas**	**Mississippi***	**New York**	**South Carolina**	**West Virginia**
Alaska	**Florida**	***Kentucky***	**Missouri**	***North Carolina***	**South Dakota***	**Wisconsin**
Arizona	**Georgia**	**Louisiana***	**Montana***	**North Dakota**	***Tennessee***	**Wyoming***
Arkansas*	***Hawaii***	**Maine**	**Nebraska**	**Ohio***	**Texas**	
California	**Idaho***	**Maryland**	**Nevada***	**Oklahoma**	**Utah***	
Colorado	**Illinois**	**Massachusetts***	**New Hampshire**	**Oregon**	**Vermont***	
Connecticut	**Indiana**	**Michigan***	**New Jersey***	**Pennsylvania**	**Virginia**	
Delaware	**Iowa***	**Minnesota**	**New Mexico**	***Rhode Island***	**Washington**	

States in **black** allow the 400-lb weight exemption (asterisk means that the allowance is granted by enforcement policy rather than by state law); states in ***gray*** do not permit the exemption; and states in **brown** have legislation in process.

Summary of State and Municipal Idling Regulations

The most current information about idling regulations, for both states and municipalities, is available at http://www.atri-online.org/research/idling/ATRI_Idling_Compendium and http://www.afdc.energy.gov/afdc/progs/all_state_summary.cgi?afdc/0.

If information for your state or municipality is outdated or erroneous, please let us know. This newsletter is also a place to let people know about possible changes in laws or regulations or the solicitation of comments related to such.

Incentives and Funding Opportunities for Idling Reduction Projects

The DOE Clean Cities initiative provides a listing of federal and state programs that offer incentives and funding for idling reduction projects. Information can be found at http://www.afdc.energy.gov/afdc/progs/fed_summary.php/afdc/US/0. Let us know if any information needs to be changed or updated. Additionally, the EPA Diesel Collaboratives offer news of available grant and loan programs. For the Northeast Diesel Collaborative (Regions 1 and 2), see http://northeastdiesel.org/funding.html; Mid-Atlantic Diesel Collaborative (Region 3), http://www.dieselmidatlantic.org/diesel/funding.htm; Southeast Diesel Collaborative (Region 4),

http://www.southeastdiesel.org/funding.html; Midwest Clean Diesel Initiative (Region 5), http://www.epa.gov/midwestcleandiesel/grants/index.html; Blue Skyways Collaborative (Regions 6 and 7 plus Minnesota), http://www.blueskyways.org/funding/index.html; Rocky Mountain Clean Diesel Collaborative (EPA Region 8), http://www.epa.gov/region8/air/rmcdc/; and West Coast Collaborative (EPA Regions 9 and 10 plus Canada and Mexico), http://www.westcoastcollaborative.org/funding-opportunities.htm.

Tools Available To Calculate the Cost of Idling Reduction Equipment

There are a number of tools available to workplace and truck fleet managers, owner-operators, and locomotive engineers to help determine the costs and benefits of paying for and installing idling reduction equipment. A site from Canada that quantifies the costs of workplace idling is also included. The calculators are provided as tools of possible benefit; their accuracy has not been verified. Any new entry this month is shown in brown. If you are aware of other sources of information that may be of possible interest to newsletter readers, please let us know.

- Argonne National Laboratory (http://www.transportation.anl.gov/engines/idling.html—choose a calculator from the right side of the Web page)
- Autotherm (http://autothermusa.com/wordpress/calculate-idling-costs-savings/)
- Bergstrom (http://www.nitesystem.com/html/idle_calculator.cfm)
- DOE Clean Cities program (https://www.afdc.energy.gov/afdc/prep/index.php)
- EPA (http://www.epa.gov/smartwaylogistics/transport/calculators/index.htm)
- Energy Xtreme (http://www.energyxtreme.net/resources/calculator)
- Espar (http://www.espar.com/html/service/calculator/calculator.html)
- Fraser Basin Council (http://web.memberclicks.com/mc/page.do;jsessionid=d0301a9d9869fa88bfd51e50592a377d5d48?sitePageId=40919&orgId=clcc)
- Hodyon (http://www.hodyon.com/calculator.aspx)
- Hotstart (http://www.hotstart.com/fuel-consumption-calculator/)
- Idle Free Systems (http://idlefreesystems.com/no-idle-elimination-solutions-for-sleepers.html)
- Kenworth (http://www.kenworth.com)
- Kohler Power Systems (http://www.kohlerpower.com/mobile/solutions/apucalculator.htm?sectionNumber=13361&nodeNumber=1&contentNumber=102)
- LifeForce (http://lifeforceapu.com/files/LifeforceCalculator.xls)
- Natural Resources Canada (http://oee.nrcan.gc.ca/transportation/tools/calculators/Idling/idlingimpact-workplace.cfm?attr=16)
- Odyssey Battery (http://www.odysseybattery.com/fleet.html)
- Thermo King (http://www.thermoking.com/tripac/)
- Webasto (http://www.techwebasto.com/calculators/heater/heater_fuel_calculator_us.htm)

Locations of Electrified Parking Spaces

In collaboration with the U.S. Department of Transportation (DOT), the DOE Clean Cities initiative offers a website showing the locations of public truck stops that have idling reduction facilities for heavy-duty trucks. These facilities are currently available in at least 21 states. AireDock, CabAire, EnviroDock, IdleAir, and Shorepower Technologies installations are listed at http://www.afdc.energy.gov/afdc/progs/tse_listings.php. Another resource is the EPA SmartWay Interactive Activity Map, which features data from SmartWay Partners, National Transportation Idle-Free Corridors, National

Clean Diesel Campaign Retrofit projects, Clean School Bus USA projects, ethanol (E-85) and biodiesel fueling station projects, and other related sources. The maps enable visualization of the locations of specific fuel consumption and pollution reduction projects. The maps also help users locate the nearest electrified truck stop and the nearest public alternative-fuel filling station. For more information, please go to http://epamap10.epa.gov/website/irim_us_map.asp.

How To Find Back Issues of *National Idling Reduction Network News*

All issues of *National Idling Reduction Network News* may be found at http://www.eere.energy.gov/vehiclesandfuels/resources/fcvt_national_idling.html. Additionally, a compendium of all previous issues is available on the site; this PDF file is especially useful for conducting searches of all issues of the newsletter.

Please be mindful that web links may expire or move over time and that some sources require registration. If you have trouble opening a link, try copying and pasting it, or retyping the URL, in your browser window.

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