

National Idling Reduction Network News

November 2010

SOLICITATIONS FOR FUNDING AND AWARDS

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

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
California Air Resources Board (CARB)	Clean Vehicle Rebate Project	\$4.1 million	First come, first served.	http://energycenter.org/index.php/incensive-programs/clean-vehicle-rebate-project
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
Climate Trust	Greenhouse Gas Offset Projects	\$8 million	Rolling deadline until funds are awarded.	http://www.climatetrust.org/apply.html
Efficiency Maine	Small Business Low Interest Loan Program	Indeterminate	Rolling deadline until funds are awarded.	http://www.energymaine.com/at-work-for-small-business/loan-programs
Minnesota Pollution Control Agency	Small Business Auxiliary Power Unit (APU) Loan Program	\$192,000	Rolling deadline until funds are awarded.	http://www.pca.state.mn.us/programs/sbomb_loan.html#evaluation
Owner-Operator Independent Drivers Association (OOIDA)	Financial assistance for the installation of ~240 APUs in U.S. Environmental Protection Agency's (EPA) Regions 6 and 7	\$1 million	Rolling deadline until funds are awarded.	http://www.ooida.org (800) 444-5791
Pittsburgh Public Schools, the Heinz Endowments, Clean Water Action, Group Against Smog and Pollution, and the Clean Air Task Force	Pittsburgh Healthy School Bus Fund	\$500,000	Rolling deadline until funds are awarded.	http://www.dieselfretrofitrebate.org
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—2010 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
EPA	National Clean Diesel Funding Assistance Program, FY 2011 Request for Proposals	~ \$32 million	January 13, 2011	http://www.epa.gov/cleandiesel/grantfund.htm#over
North Carolina Division of Air Quality	2011 Diesel Emission Reduction Grant Program	\$350,000	January 17, 2011	http://www.ncair.org/motor/DERG/
North Carolina Division of Air Quality	North Carolina State APU and 2010 Compliant Heavy-Duty Truck Rebate Program	\$141,500 (as of November 1, 2010)	March 31, 2011	http://www.ncair.org/motor/Rebates/
Cascade Sierra Solutions	Great SmartWay Rebate Program (Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut)	~\$600,000 (as of September 30, 2010)	May 31, 2011	https://secure.cascadesierrasolutions.org/
Climate Change Central	Trucks of Tomorrow Rebate Program (Alberta, Canada)	Can\$2 million	December 31, 2011	http://www.trucksoftomorrow.com/pages/trucking/index.php

RECOGNITION

Union Pacific Receives California Environmental Award for Gen-Set

California Governor Arnold Schwarzenegger recently recognized Union Pacific Railroad (UP) and 12 other companies and organizations with the California's Governor's Environmental and Economic Leadership Award. The railroad received this honor because of its ultra-low emitting genset locomotive technology, which reduces nitrous oxide emissions by 80% and particulate matter by 90%, while using as much as 30% less fuel compared to older switching locomotives.

The 13 winners, chosen from more than 100 applicants, were recognized for strengths in: results, transferability, environmental impact, resource conservation, economic progress, innovation and uniqueness, pollution prevention, and environmental justice. Please see http://www.uprr.com/newsinfo/releases/environment/2010/1117_geela.shtml and <http://gov.ca.gov/press-release/16489/> for more information.

REGULATORY NEWS

DERA Reauthorization Bill Introduced

On November 18, 2010, U.S. Senators George V. Voinovich (R-Ohio), chairman and ranking member of the Senate Subcommittee on Clean

Air and Nuclear Safety, and Tom Carper (D-Delaware) introduced Senate Bill 3873, "A Bill to Amend the Energy Policy Act of 2005 to

Reauthorize and Modify Provisions Relating to the Diesel Emissions Reduction Program [DERA].” The bill, which has garnered dozens of sponsors, would reauthorize DERA 2005 with some changes. The revision would broaden the definition of entities eligible to administer low-cost loan programs, and make rebates, in addition to grants and

loans, available. The bill requests \$200 million for each fiscal year from 2012 through 2016.

The bill is now in committee. For more information, please see <http://www.govtrack.us/congress/bill.xpd?bill=s111-3973>.

MassDEP Fines First Student for Idling Violations

The Massachusetts Department of Environmental Protection (MassDEP) has fined school bus company First Student (Cincinnati, Ohio) \$40,000 for idling violations. During inspections conducted in the fall of 2008 and spring of 2009, MassDEP found numerous instances of excessive idling in Springfield, Brockton, South Boston, Dorchester, Roxbury, and Roslindale, Massachusetts. In 2004, MassDEP had issued a notice of noncompliance to First Student for excessive idling. In 2005, MassDEP entered into a consent order with First Student.

First Student has agreed to the penalty and to undertake the following:

- Train all employees who operate, maintain, and supervise operation of buses;

- Post no-idling signs at all First Student locations;
- Install FOCUS (First On-board Component Utilization System) units with GPS on at least 75 buses, which will allow the company to monitor bus idling (MassDEP will also receive reports from the FOCUS units); and
- Have First Student managers conduct ongoing walking inspections of their parking lots to monitor bus operations.

If further violations occur, First Student will be required to pay \$2,000 per violation. More information is available at <http://www.mass.gov/dep/public/press/1010firs.htm>.

ATRI Updates Idling Law Compendium

The American Transportation Research Institute (ATRI) has updated its list of state and local idling regulations. The resource may be accessed online, with links to individual regulations, or downloaded as a cab card.

The compendium provides updated information on the expiration dates of some states' sleeper berth exemptions, including Florida (September 30,

2013), New Jersey (April 30, 2011), North Carolina (May 1, 2011), and West Virginia (May 1, 2012). It also notes that the sleeper berth exemption recently expired for Pennsylvania and Rhode Island. To access the compendium, please go to <http://www.atri-online.org/> and click on the compendium link at the left.

AWARDS AND RECOGNITION

ORGANIZATION	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Alaska Railroad Corporation	U.S. Department of Transportation (DOT)—Transportation Investment in Greenhouse Gas and Energy Reduction Program (TIGGER) II Grant	The retrofit of locomotives with emission reduction kits and anti-idle systems	\$1,035,000
Hawaii—City & County of Honolulu Department of Transportation Services	DOT (TIGGER II)	The purchase of turbine hybrid electric buses, which will be equipped with anti-idle technology	\$5,061,000
Illinois Department of Transportation	DOT (TIGGER II)	Installation of anti-idling system (automatic shut-down/start-up) on Metra locomotives	\$341,694
Minnesota—Metropolitan Council (Metro Transit)	DOT (TIGGER II)	Acquisition of hybrid buses equipped with MiniHybrid Thermal System (MH8) electrically operated engine cooling and air conditioning accessories	\$1.2 million
Missouri Department of Natural Resources	EPA	Diesel emission reduction projects, including idling reduction	\$352,941
North Carolina Solar Center	North Carolina Department of Commerce State Energy Division	Alternative Fuel /Advanced Vehicle Technology project, including an idling reduction pilot project and an idling reduction technology project	\$500,000
Port of Vancouver USA	DOT Transportation Investment Generation Economic Recovery (TIGER II)	Help fund construction for the West Vancouver Freight Access Project, which will separate vehicle and train traffic, reducing congestion	\$10 million

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
National Cooperative Freight Research Program, Transportation Research Board (TRB)	Identifying and Using Low-Cost and Quickly Implementable Ways To Address Freight-System Mobility Constraints	http://onlinepubs.trb.org/onlinepubs/ncfrp/ncfrp_rpt_007.pdf

UPCOMING MEETINGS AND EVENTS

[Brown text indicates a new entry since last month.]

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
CARB Public Meeting To Consider Changes to the Off-Road Equipment Replacement Program of the Carl Moyer Program Guidelines	Sacramento, California	December 8, 2010	http://www.arb.ca.gov/msprog/moyer/moyer.htm
CARB Public Hearing to Consider the Adoption of Proposed Amendments to the On-Road and Off-Road Regulations	Sacramento, California	December 16, 2010	http://www.arb.ca.gov/regact/2010/truckbus10/truckbus10.htm and http://www.arb.ca.gov/regact/2010/offroadlsi10/offroadlsi10.htm
TRB 90th Annual Meeting	Washington, D.C.	January 23–27, 2011	http://www.trb.org/AnnualMeeting2011/Public/AnnualMeeting2011.aspx
Society of Automotive Engineers Government/ Industry Meeting (in conjunction with the Washington, D.C., Auto Show)	Washington, D.C.	January 26–28, 2011	http://www.sae.org/events/gim/
Green Truck Summit	Indianapolis, Indiana	March 7–8, 2011	http://www.calstart.org/Events/CALSTART-Events/Green-Truck-Summit.aspx
Government Fleet Expo & Conference (GFX)	San Diego, California	June 6–8, 2011	http://www.governmentfleetexpo.com/

MANUFACTURERS' NEWS

Quallion Introduces Anti-Idling Battery for Heavy-Duty Trucks

At the recent Battery Show in San Jose, California, Quallion introduced a new battery-powered anti-idling heating, ventilation, and air conditioning (HVAC) device under development for Class 6–8 trucks. The lithium-ion battery system is designed to power HVAC for up to 10 consecutive hours. The system charges as the truck is being driven. The anti-idling system, currently in field testing, is based on the manufacturer's modular, scalable MATRIX technology, which has been used to provide backup power for a number of vehicular and other applications.

According to Quallion, the new battery system is 25% of the weight of an equivalent lead acid battery and has reduced temperature-related safety risks because of the small cell size. The U.S. Department of Energy (DOE) helped fund the development of this anti-idling technology. Please see http://www.quallion.com/images-pdf/Anit%20Idling%20Release_Final.pdf for more information.

PARKING SPACES FOR TRUCKS

Virginia Pilots New, Low-Cost Truck Parking Program

To address shortages of truck parking in Virginia, the Virginia Department of Transportation (VDOT) has developed a pilot program designed to put undeveloped VDOT property to use—at minimal cost. The first Truck Safety Rest Area, which opened November 4, 2010, in Warren County on I-66 near mile marker 4, is an unpaved lot. Portable toilets are provided.

According to Virginia Governor Bob McDonnell, the 90-day pilot period will be followed by a 60-day evaluation period, during which the rest area will continue to be available to truck drivers. If the pilot program is deemed a success, additional such parking areas may be made available. The link <http://www.governor.virginia.gov/news/viewRelease.cfm?id=455> contains more information.

ELECTRIFIED PARKING SPACES

TSE Site Operational in Maine

The truck stop electrification (TSE) facility in West Gardiner, Maine, funded with the assistance of a \$1.2 million EPA Recovery Act award to the Maine Turnpike Authority, is now operational. Craufurd Manufacturing provided the 30 stand-alone AireDock units at the site, which is located off I-95. Each unit offers heating and cooling, high-speed internet access, and an electrical

hookup via a universal window adaptor. According to a representative of the West Gardiner Service Plaza, the current cost is \$2.00/hour. More information is available at http://www.maineturnpike.com/traveler_services/electrification.php.

IdleAire, Now IdleAIR, Opens Three More Sites

IdleAIR, formerly IdleAire, has opened three more truck stop electrification locations: Bakersfield, California (Bruce's Truck Stop); Monee, Illinois (Petro Stopping Center); and Boonville, Missouri (Pilot Travel Center). That brings

the number of spots open to 17. For more information, please see <http://www.idleaire.com/>.

PORTS

Port of Tacoma: Shore Power for Cargo Ships

On October 27, 2010, the Port of Tacoma flipped the switch for cargo ship shore power capability, a first for the Pacific Northwest. The \$2.7 million shore power project was completed with the assistance of a \$1.5 million EPA Recovery Act award. Totem Ocean Trailer Express (TOTE), a shipping company that serves the Alaska trade, contributed approximately \$1.2 million to retrofit two ships and contribute to the terminal's infrastructure.

According to the Port, the shore power project will reduce diesel and greenhouse gas emissions by up to 90% during TOTE's 100 annual ship calls in Tacoma. The annual reduction amounts to about 1.9 tons of diesel particulates and 1,360 tons of greenhouse gas emissions. The link <http://www.portoftacoma.com/Page.aspx?cid=4773> contains more information. (Photo: The first cargo ship in the Pacific Northwest is being plugged in to shore power, October 27, 2010. Photo courtesy of the Port of Tacoma)



OTHER NEWS OF INTEREST

Chicago Tribune: Train and Bus Commuters Breathe Diesel-Fouled Air

In early November, the *Chicago Tribune* reported that it had conducted air quality testing on Chicago's Metra passenger train platforms and train cars. The newspaper stated that it found, with the use of a Magee handheld testing device, levels of black carbon an order of magnitude higher than background levels.

In one of the *Tribune's* testing events, the black carbon level measured on a Union Station platform was 21 micrograms per cubic meter of air (21 $\mu\text{g}/\text{m}^3$). Typical readings on U.S. city streets are 1–2 $\mu\text{g}/\text{m}^3$. Inside a

train bound for the western suburb of Downers Grove, the value rose to 39 $\mu\text{g}/\text{m}^3$. In the train car about 20 minutes later, the reading rose to 72 $\mu\text{g}/\text{m}^3$.

In response to the *Tribune's* findings, Metra has retained a firm to conduct air quality testing on its behalf and formed a task force to investigate air quality at its terminals and on its train cars. The task force will evaluate the ventilation systems at Chicago Union Station and Ogilvie Transportation Center, the air filtration system on the trains, alternative exhaust

treatments, and cleaner alternative fuels. Metra's Acting Director, Bill Tupper, warns, however, that budget shortfalls will be a constraint. Results of Metra's air quality tests are expected soon.

The *Tribune* subsequently reported on diesel pollution in the vicinity of idling diesel buses, where it found soot levels up to 30 times higher than

normal street levels. For more information, please see <http://www.chicagotribune.com/health/ct-met-dirty-diesel-20101105,0,7261777.story>, <http://www.chicagotribune.com/health/ct-met-diesel-idling-20101121,0,6066042.story>, and http://metrarail.com/metra/en/home/utility_landing/newsroom/newsroom.html.

Illinois Tollway and Argonne to Collaborate on Idling Reduction and More

The Illinois Tollway and Argonne National Laboratory have signed a memorandum of understanding (MOU) to collaborate on the development of energy-efficient and ecologically sensitive transportation-related technologies. Together, they will study: energy-efficient technologies (including solar); fuel efficient and idle reduction technologies; intelligent

transportation systems technology; and ecological and biological treatment strategies. The Tollway's fleet includes a variety of vehicles and equipment that operate in both urban and rural settings. Please see http://www.illinoistollway.com/portal/page?_pageid=54,2799712&_dad=portal&_schema=PORTAL for more information.

RECURRING FEATURES

Currently Available Idling Reduction Equipment

The Alternative Fuels and Advanced Vehicles Data Center (AFDC) of the DOE Office of Energy Efficiency and Renewable Energy (EERE) identifies manufacturers of idle 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 idle reduction technologies in eight categories, please visit EPA's SmartWay Transport website at <http://www.epa.gov/smartway/transport/what-smartway/verified-technologies.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	<i>District of Columbia</i>	Kansas	Mississippi*	New York	South Carolina	West Virginia
Alaska	Florida	<i>Kentucky</i>	Missouri	<i>North Carolina</i>	South Dakota*	Wisconsin
Arizona	Georgia	Louisiana*	Montana*	North Dakota	<i>Tennessee</i>	Wyoming*
Arkansas*	<i>Hawaii</i>	Maine	Nebraska	Ohio*	Texas*	
<i>California</i>	Idaho*	Maryland*	Nevada*	Oklahoma	Utah*	
Colorado	Illinois*	Massachusetts	New Hampshire*	Oregon	Vermont*	
Connecticut	Indiana	Michigan*	New Jersey*	Pennsylvania	Virginia	
Delaware	Iowa*	Minnesota	New Mexico	<i>Rhode Island</i>	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://atri-online.org/index.php?option=com_content&view=article&id=164&Itemid=70 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 program 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/grants.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 idle-reduction equipment. A site from Canada that quantifies the costs of workplace idling is also

- Argonne National Laboratory (<http://www.transportation.anl.gov/pdfs/TA/361.pdf>)
- Autotherm (<http://autothermusa.com/wordpress/calculate-idling-costs-savings/>)
- DOE Clean Cities program (<https://www.afdc.energy.gov/afdc/prep/index.php>)
- EPA (<http://www.epa.gov/otaq/smartway/calculator/loancalc.htm>)
- Espar (<http://www.espar.com/html/service/calculator/calculator.html>)
- Fraser Basin Council (<http://web.memberclicks.com/mc/page.do;jsessionid=d0301a9d9869fa88bfd51e50592a377d5d48?sitePagelId=40919&orgId=clcc>)
- Hotstart (<http://www.hotstart.com/fuel-consumption-calculator/>)
- Kenworth (<http://www.kenworth.com>)

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.

- 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/idling_impact-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. DOT, the DOE Clean Cities program has a website showing the locations of public truck stops that have idling reduction facilities for heavy-duty trucks. These facilities are available in at least 16 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, School Bus USA projects, ethanol (E-85) and biodiesel fueling station projects, and other related sources. The maps enable visualization of the location 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://www1.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 retype the URL in your browser window.

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