

National Idling Reduction Network News

September 2011

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
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
Climate Trust	Greenhouse Gas Offset Projects	\$6 million (as of January 2011)	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	\$110,000 (as of August 23, 2011)	Rolling deadline until funds are awarded.	http://www.pca.state.mn.us/sbiz7d9
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
Utah Department of Environmental Quality	Utah Clean Diesel Program	Indeterminate	Rolling deadline until funds are awarded.	http://www.cleandiesel.utah.gov
U.S. Department of Transportation (DOT)	TIGER III (Transportation Investment Generating Economic Recovery)	\$527 million	October 3, 2011, for pre-applications; October 31, 2011, for final applications	http://www.dot.gov/tiger/

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California Energy Commission	Advanced Medium- and Heavy-Duty Vehicle Technologies Pre-Commercial Demonstrations (Alternative and Renewable Fuel and Vehicle Technology Program)	\$8.94 million	October 14, 2011	http://www.energy.ca.gov/contracts/index.html
Society of Automotive Engineers (SAE)	Environmental Excellence in Transportation (E2T) Award	N/A	October 15, 2011	http://www.sae.org/news/awards/list/e2t/
Washington State Department of Ecology	Washington State Clean Diesel Grant Program	\$7 million	October 17, 2011	http://www.ecy.wa.gov/programs/air/cars/DieselGrantPage.htm
Northeast Diesel Collaborative (NEDC)	Breathe Easy Awards	N/A	October 26, 2011	http://northeastdiesel.org/breathe-easy-program.html
Arkansas Department of Environmental Quality	Go RED! [Reduce Emissions from Diesels] Grant Program	\$110,000	October 31, 2011	http://www.adeq.state.ar.us/air/branch_planning/clean_diesel.asp
Indiana Department of Environmental Management	DieselWise (clean diesel projects)	~\$350,000	October 31, 2011	http://www.in.gov/idem/5255.htm
U.S. Environmental Protection Agency (EPA)	Environmental Education Grants Program	~\$1.5 million	November 8, 2011	http://www.epa.gov/education/grants.html
New York State Energy Research and Development Authority (NYSERDA)	New York State Clean Air School Bus Program, Round 3 (now includes coolant heaters)	~\$2.6 million	December 30, 2011 (or when all funds are exhausted)	http://www.nyserda.org/funding/1896summary.pdf
Climate Change Central	Trucks of Tomorrow Rebate Program (Alberta, Canada)	Can\$2 million	December 31, 2011	http://www.trucksoftomorrow.com/pages/trucking/index.php
Ohio EPA	Clean Diesel School Bus Fund Retrofit Grants Program	\$300,000	March 1, 2012	http://www.epa.ohio.gov/oef/schoolbus.aspx
Cascade Sierra Solutions	Shorepower Truck Electrification Project (STEP) Rebate Program	\$10+ million	March 31, 2013	https://csswebform.org/WebForm/TSE_home.aspx

REGULATORY NEWS

Obama Administration Withdraws Newly Proposed Ozone Standard

Early in September, the Obama administration withdrew the proposed revision of the Ozone National Ambient Air Quality Standards. The EPA's proposed revision called for a reduction from the current 80 parts per billion (ppb) for 8-hour ozone to 60–70 ppb. According to a press release issued by the White House, President Obama did not want to move toward implementing new standards when the science underlying those standards is already under review and revised standards are slated for 2013. (Under the EPA's Clean Air Act, the standards must be re-evaluated every 5 years.) In his

September 2, 2011, message, the President pointed to the importance of “reducing regulatory burdens and regulatory uncertainty, particularly as our economy continues to recover.”

For more information, please see <http://www.whitehouse.gov/the-press-office/2011/09/02/statement-president-ozone-national-ambient-air-quality-standards> and http://www.whitehouse.gov/sites/default/files/ozone_national_ambient_air_quality_standards_letter.pdf.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Chelsea Collaborative (Massachusetts) Green Space and Recreation Committee	U.S. EPA	Replacement of 11 diesel transport refrigeration units (TRU) with electric TRUs powered by main engine-driven onboard electric generation/battery storage systems; the TRUs will also have plug-in capacity	\$280,000
Fort Frye Local Schools (Washington County, Ohio)	Ohio EPA	Purchase and installation of one diesel particulate filter and idle reduction equipment on 15 buses	\$39,399
Harrison Hills City Schools (Harrison County, Ohio)	Ohio EPA	Purchase and installation of idle reduction equipment for 34 buses	\$74,550
Liberty Union-Thurston Local Schools (Fairfield County, Ohio)	Ohio EPA	Purchase and installation of idle reduction equipment for 13 buses	\$42,705
Minerva Local Schools (Stark County, Ohio)	Ohio EPA	Purchase and installation of idle reduction equipment for 9 buses	\$19,170
North Royalton City Schools (Cuyahoga County, Ohio)	Ohio EPA	Purchase and installation of idle reduction equipment for 23 buses	\$86,133

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Shaker Heights City Schools (Cuyahoga County, Ohio)	Ohio EPA	Purchase and installation of idle reduction equipment for 6 buses	\$15,906
Eaton Corporation (Milwaukee, Wisconsin)	U.S. Department of Energy (DOE)	Development and demonstration of advanced component technology for heavy-duty diesel-engine waste-heat recovery systems	\$2.5 million
Odyne Systems LLC	DOE, with cofunding from the South Coast Air Quality Management District	Installation of 7 Odyne hybrid power systems (with extended stationary engine-off technology for bucket trucks and underground utility trucks) and evaluation of their performance	\$2.9 million

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
American Transportation Research Institute (ATRI) and the Federal Highway Administration (FHWA)	FPM [Freight Performance Measures] Congestion Monitoring at 250 Freight Significant Highway Locations: Final Results of the 2010 Performance Assessment	http://www.atri-online.org/index.php?option=com_content&view=article&id=303&Itemid=70
CARB	Staff Report: Initial Statement of Reasons for the 2011 Amendments to the Transport Refrigeration Unit (TRU) Airborne Toxic Control Measure (ATCM)	http://www.arb.ca.gov/regact/2011/tru2011/tru2011.htm
DOE Inspector General	Management Alert: The Status of Energy Efficiency and Conservation Block Grant (EECBG) Recipients' Obligations	http://energy.gov/sites/prod/files/OAS-RA-11-16_0.pdf
Frost & Sullivan	North American Locomotive Market: A Strategic Analysis of Powertrain Technologies and Auxiliary Systems Considered by OEMs for EPA Emission Compliance	Summary and ordering information available at http://www.frost.com/prod/servlet/report-extended-toc.pag?repid=M64A-01-00-00-00
Pike Research	Hybrid, Plug-in Hybrid, and Battery Electric Medium and Heavy Trucks: Market Analysis and Forecasts	Summary and ordering information available at http://www.pikeresearch.com/research/hybrid-medium-and-heavy-duty-trucks
Texas Transportation Institute	2011 Urban Mobility Report	http://mobility.tamu.edu/ums/

UPCOMING MEETINGS AND EVENTS

[Brown text indicates a new entry since last month]

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
Hybrid Truck Users Forum (HTUF) National Conference 2011	Baltimore, Maryland	October 10–13, 2011	http://www.htuf2011.org/
Sustainable Shipping Conference	Vancouver, Canada	October 12–14, 2011	http://www.sustainableshipping.com/events/2011/vancouver/
CARB Diesel Vehicle Regulation Overview	Fresno, California (with webcast to Bakersfield and Modesto)	October 14, 2011	http://www.arb.ca.gov/training/courses.php?course=512
The 4th Diesel Emissions Conference & Diesel Exhaust Fluid Forum	Atlanta, Georgia	October 17–19, 2011	http://www.integer-research.com/conferences/dec-usa/2011/programme/
CARB Public Hearing To Consider Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate	Sacramento, California	October 20, 2011	http://www.arb.ca.gov/regact/2011/tru2011/tru2011.htm
2011 Railroad Environmental Conference	Champaign, Illinois	October 25–26, 2011	http://ict.illinois.edu/railroad/rrec/overview.asp
CARB Diesel Vehicle Regulation Overview	Otay Mesa, California	October 26, 2011	http://www.arb.ca.gov/training/courses.php?course=512
SAE 2011 Light-Duty Diesel Emissions Control Symposium	Ann Arbor, Michigan	November 2–3, 2011	http://www.sae.org/events/training/symposia/lddec/
Transportation Research Board's (TRB) 91st Annual Meeting	Washington, D.C.	January 22–26, 2012	http://www.trb.org/AnnualMeeting2012/AM2012Program.aspx
SAE Government/Industry Meeting (in conjunction with the Washington, D.C., Auto Show)	Washington, D.C.	January 25–27, 2012	http://www.sae.org/events/gim/
Green Truck Summit	Indianapolis, Indiana	March 5–6, 2012	http://www.calstart.org/Events/CALSTART-Events.aspx
Alternative Clean Transportation (ACT) Expo	Long Beach, California	May 14–17, 2012	http://www.actexpo.com/index.html

MANUFACTURERS' NEWS

ECOSMART System Reduces Ambulance Idling

Ambulances have a number of unique power needs. In addition to running warning lights, they must be able to maintain proper temperature in the patient compartment, not only for patient transport but for medications and sensitive medical equipment. Canada-based Demers Ambulances has debuted the ECOSMART system, an idling reduction technology that determines if the ambulance's engine needs to be on to power HVAC and electrical systems. If it does not, the engine is turned off. If the voltage in any battery bank drops, or if the temperature in the patient compartment exceeds preset limits, the engine is restarted. Demers Electrical Management System (DEMS) allows the user to set the criteria for when the

vehicle goes into ECOSMART mode. Additionally, whenever the vehicle is manually restarted or shifted out of park, the system disengages.

According to the manufacturer, the ECOSMART system displaces more than 40% of fuel used during ambulance idling. Reduced engine wear results in increased time between maintenance checks, longer engine life, and reduced CO₂ emissions. The ECOSMART is available on new vehicles or as a retrofit to some older vehicles. For more information, please see <http://www.demers-ambulances.com/news/article/demers-ambulances-introduces-the-ecosmart-system>.

Your Engine Has a Message for You, Courtesy of Inthinc

Inthinc Technology Solutions, a telematics company based in Salt Lake City, Utah, has announced a new product feature that, among other things, gives drivers audio alerts about engine idling duration. The fleet management technology package enables fleet managers to set alert intervals appropriate for vehicle type and duty. Managers also have the capacity to monitor fleet-vehicle idling time by means of inthinc's Web-based management and reporting software.

The "idle coach" feature is one of a number of driver-feedback features—including feedback on seatbelt use and aggressive driving events—available as part of the inthinc tiwiPro (light commercial fleet) and waySmart (heavy industry fleet) fleet-management packages. More information is available at <http://www.inthinc.com/company/news-releases/inthinc-idling-alerts>.

EDUCATION, OUTREACH, AND CAMPAIGNS

Idle-Free Tennessee Starts at Knox County Schools

The East Tennessee Clean Fuels Coalition (ETCleanFuels) has launched its Idle-Free Tennessee program, the goal of which is to promote cleaner air at schools through reduced vehicle idling.

Four schools in Knox County—West Hills, Norwood, Bearden, and Sequoyah elementary schools—are the first to join the effort, and several other schools have shown interest. Participating schools receive not only signs, with the necessary mounting hardware, free of charge, but a packet that includes idling reduction lesson plans, a fact sheet, and a fact sheet/pledge. Schools may encourage students to take home the fact sheet/pledge for their parents to read and sign. Additionally, the Idle-Free Tennessee program coordinator is available to give presentations to classrooms, grade-level groups, or the entire school.

The Idle-Free Tennessee program is made possible through a grant funded by the Department of Pediatric Pulmonology and Sleep Medicine at East Tennessee Children's Hospital and with support from the Knox County Safe Routes to School Partnership. ETCleanFuels is a DOE Clean Cities coalition. For more information, please go to http://eerc.ra.utk.edu/etcf/NR/IFSZ_PressRelease_Aug-2011.pdf. For more about ETCleanFuels, please click on <http://eerc.ra.utk.edu/etcf/index.html>.



OTHER NEWS OF INTEREST

ATRI Updates Idling Law Compendium

The American Transportation Research Institute (ATRI) has updated its compendium of idling regulations to include recent changes in the states of Texas and Oregon. In Texas, trucks with engines 2008 or newer that are certified to a nitrogen oxides idling emissions limit of 30 grams/hour are exempt from the Texas Commission on Environmental Quality's (TCEQ) 5-minute idling rule. In Oregon, truck idling will be restricted to 5 minutes or less beginning on January 1, 2012. Exemptions to the restriction include the need to run air conditioning or heating during a rest or sleep period when

the outside temperature is less than 50°F or greater than 75°F. Violating the law may result in a \$180 fine.

ATRI's online resource offers not only links to individual regulations but a file that can be downloaded for use as a cab card reference. To access the compendium, please go to <http://www.atri-online.org/> and click on the compendium link at the left.

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/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	<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†	<i>Massachusetts*</i>	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.
 †Effective January 1, 2012.

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/> (click on the compendium link at the left) 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.dieselmideatlantic.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/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>)
- 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/>)

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.

- 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/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 initiative offers 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 17 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 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 retyping the URL, in your browser window.

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