

National Idling Reduction Network News

November 2012

SOLICITATIONS FOR FUNDING AND AWARDS

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

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Alabama Department of Environmental Management	Diesel Emissions Reduction Grant Program	\$116,000	Rolling deadline until funds are awarded.	http://www.adem.alabama.gov/newsEvents/pressreleases/2012/DERAPublicServiceAnnouncement.pdf
Arkansas Department of Environmental Quality	Business Assistance Program, Environmental Loans for Small Businesses	Indeterminate	Rolling deadline until funds are awarded.	http://www.adeq.state.ar.us/poa/sba/envloans.htm
Bay Area Air Quality Management District (BAAQMD)	Carl Moyer Memorial Air Quality Standards Attainment Program	~\$15 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
CALSTART	California Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	~\$18.7 million	Rolling deadline until funds are awarded.	http://www.californiahvip.org/
Illinois Environmental Protection Agency (EPA)	Illinois Clean Diesel Grant Program	\$294,517	Rolling deadline until funds are awarded.	http://www.illinoisgreenfleets.org/
Illinois EPA	Illinois Clean Diesel Grant Program—school buses only	\$1 million annually through 2016	Rolling deadline until funds are awarded.	http://www.illinoisgreenfleets.org/
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

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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	Not applicable	Rolling deadline—the 15th of every month.	http://www.turnyourengineoff.org/campaign_recognition.html
Minnesota Pollution Control Agency (MPCA)	2012–13 Diesel Emissions Reduction Act (DERA) Grant Program	\$113,600	December 10, 2012	http://www.pca.state.mn.us/wfhy4c4
U.S. Navy	Request for information/Industry Day for the MTRV – Auxiliary Power Unit (APU)	Not applicable	December 12, 2012	https://www.fbo.gov/index?s=opportunity&mode=form&id=421d4acd6d1790bb91217f1828099112&tab=core&cvview=0
Indiana Department of Environmental Management	DieselWise Indiana	~\$800,000 for northern Indiana, ~\$220,000 for state	December 14, 2012	http://www.in.gov/idem/5255.htm
Mississippi Department of Environmental Quality	Mississippi Diesel Emissions Reduction Grant Program	Not available	December 19, 2012	http://www.deq.state.ms.us/MDEQ.nsf/pdf/Air_DERA201213Application/\$File/DERA%202012-13.pdf?OpenElement
Pennsylvania Department of Environmental Protection	Pennsylvania Clean Diesel Grant Program	\$177,611	December 19, 2012	http://www.paenvironmentdigest.com/newsletter/default.asp?NewsletterArticleID=23798
Texas Commission on Environmental Quality (TCEQ)	Emissions Reduction Incentive Grants (ERIG) Program	\$40 million	December 19, 2012 (extended)	http://www.tceq.texas.gov/airquality/terp
New York State Energy Research and Development Authority (NYSERDA)	New York State Clean Air School Bus Program, Round 3	~\$2.6 million	December 28, 2012	http://www.nyserda.ny.gov/Funding-Opportunities/Current-Funding-Opportunities/PON-1896-New-York-State-Clean-Air-School-Bus-Program.aspx
Ohio EPA	Ohio Diesel Emissions Reduction Grant (DERG) Program	\$10 million	January 16, 2013	http://www.epa.state.oh.us/oeef/derg.aspx
North Carolina Division of Air Quality	2013 Mobile Source Emission Reduction Grant Program	\$759,666	January 18, 2013	http://daq.state.nc.us/motor/ms_grants/
Ohio EPA	Clean Diesel School Bus Fund Retrofit Grants Program	~\$300,000	March 1, 2013	http://www.epa.ohio.gov/oeef/schoolbus.aspx

REGULATORY NEWS

School Bus Companies Settle Illegal Idling Claims with U.S. EPA

Two school bus companies, Ocean State Transit and STA of Connecticut, subsidiaries of Student Transportation of America (STA), have agreed to settle U.S. EPA’s claims of excessive idling in Connecticut and Rhode Island. Last year, EPA inspectors observed the companies’ school buses idling for extended periods—in some cases, for more than 30 minutes—at a number of locations in Rhode Island and Connecticut. Rhode Island limits idling to 5 minutes, and Connecticut limits it to 3 minutes.

Under the settlement, the companies will pay a \$35,000 penalty and perform environmental projects valued at \$131,000. The parent company, STA, has agreed to implement a national training and management program to prevent excessive idling in STA’s entire fleet of school buses. STA drivers, dispatchers, and managers will be trained to comply with state and local anti-idling regulations. Additionally,

STA supervisors will notify the school districts it serves of its anti-idling policy and monitor its own bus lots for excessive idling.

STA operates 7,500 buses in in Rhode Island, Connecticut, Maine, New Hampshire, Vermont, New Jersey, New York, Pennsylvania, South Carolina, Florida, Illinois, Wisconsin, Minnesota, Texas, Washington, and California. According to the EPA, by eliminating excessive idling, STA will reduce its fuel use by 135,000 gallons every year, avoiding the production of more than 3 million lb of carbon dioxide annually.

For more information, please see <http://yosemite.epa.gov/opa/admpress.nsf/0/6dae636c241afb7085257ac2006c0929?OpenDocument>.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Anna Local Schools (Shelby County, Ohio)	Ohio EPA	Purchase and installation of diesel oxidation catalysts (DOCs) and anti-idling equipment for 7 buses, and idling reduction technology for 7 additional buses	\$42,539
East Holmes Local Schools (Holmes County, Ohio)	Ohio EPA	Purchase and installation of DOCs and anti-idling equipment for 11 buses and idling reduction technology for an additional 6 buses	\$55,669
Greenville City Schools (Darke County, Ohio)	Ohio EPA	Purchase and installation of DOCs and anti-idling equipment for 7 buses, DOCs on 6 buses, and idling reduction technology for an additional 12 buses	\$63,653
Marion City School District (Marion County, Ohio)	Ohio EPA	Purchase and installation of DOCs for 17 buses and idle reduction technology for 2 buses	\$31,305

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RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Sylvania City Schools (Lucas County, Ohio)	Ohio EPA	Purchase and installation of DOCs and anti-idling equipment for 8 buses and idling reduction technology for an additional 8 buses	\$54,648

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
Environmental Defense Fund	Review of Texas' Clean School Bus Programs: How Far Have We Come and What Is Still Left To Do?	http://www.edf.org/sites/default/files/cleanbuses_13_screen.pdf
EPA	FY 2012 National Clean Diesel Funding Assistance Program Grantee Webinar	http://www.epa.gov/otaq/diesel/documents/fy12-dera-grantee-webinar.pdf
Government Fleet	How-To Video for Benchmarking: Graphing Vehicle Idle Time	http://www.government-fleet.com/channel/maintenance/video/detail/2012/11/how-to-video-for-benchmarking-graphing-vehicle-idle-time.aspx?ref=eNews-Monday-20121112&utm_source=Email&utm_medium=Enewsletter
Northeast Diesel Collaborative	Best Practices for Clean Diesel Construction: Successful Implementation of Equipment Specifications To Minimize Diesel Pollution	http://northeastdiesel.org/pdf/BestPractices4CleanDieselConstructionAug2012.pdf

UPCOMING MEETINGS AND EVENTS

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

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
Truck Parking Issues and Opportunities, Hosted by the Trucking Industry Mobility & Technology Coalition (TIMTC) and the U.S. Department of Transportation (DOT)	Webinar	December 6, 2012	www.freightmobility.com
Idle Free Fleets Conference, Hosted by Utah Clean Cities and Rio Tinto's Kennecott Utah Copper	West Valley City, Utah	January 15, 2013	http://utahcleancities.org/calendar/jan-15-2013/idle-free-fleets-conference
Society of Automotive Engineers (SAE) Government/Industry Meeting (in conjunction with the Washington, D.C., Auto Show)	Washington, D.C.	January 31–February 1, 2013	http://www.sae.org/events/gim/

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
Green Truck Summit	Indianapolis, Indiana	March 5–6, 2013	http://www.calstart.org/Events/CALSTART-Events/Green-Truck-Summit.aspx
2013 Mid-America Trucking Show	Louisville, Kentucky	March 21–23, 2013	http://www.truckingshow.com/
Energy Independence Summit 2013	Washington, D.C.	April 8–10, 2013	http://www.transportationenergypartners.org/events/eis2013
Alternative Clean Transportation (ACT) Expo	Washington, D.C.	June 24–27, 2013	http://www.actexpo.com/index.html

MANUFACTURERS' NEWS

An Idling Reduction System To Take to War

Energy Xtreme has developed a mobile energy management system (MEMS) for U.S. military vehicles and generators. With 4 kilowatt-hours of integrated energy storage, the Stealth Power 4 (SP4) MEMS can power communication and weapon systems for a variety of military vehicles.

The Army Expeditionary Warrior Experiment (AEWE), Spiral G, conducted by the U.S. Army Test and Evaluation Command, found that the SP4 MEMS decreased tactical vehicle idle time by up to 12 hours and reduced generator fuel consumption by up to 69%. The corresponding fuel savings is about 1,000 gallons of fuel annually for a single generator. With the cost of “in-theater fuel” estimated to be between \$50 and \$500 per gallon, the equivalent annual savings would be \$50,000 to \$500,000 per generator.

The SP4 also has no-to-low thermal and acoustic signatures, enhancing silent-watch capabilities and personnel safety.

AEWE is an experimental venue by which the military works with technology developers to test the on-the-ground viability of emerging technologies. At the most-recent AEWE, conducted at Fort Benning, Georgia, the SP4 MEMS received “Most Promising Solution” status and a “Take to War” designation. For more information, please see <http://www.energyxtreme.net/blog/2012/11/aewe-identifies-energy-xtreme-stealth-power-as-a-take-to-war-technology/> and <http://www.benning.army.mil/mcoe/cdid/aewe/>.

Thermo King TriPac Production Reaches 100,000 Units

Ingersoll Rand’s Thermo King division recently produced its 100,000th TriPac APU at its plant in Hastings, Nebraska. The company first introduced the TriPac in 2005. According to Thermo King, the TriPac has a typical payback of 13–24 months. For more information, please see

http://fleetequipmentmag.com/item/107100/thermo_king_produces_100000th_tripac_auxiliary_power_unit.aspx and <http://fleetowner.com/running-green/100000th-tripac-unit-produced>.

EDUCATION, OUTREACH, AND CAMPAIGNS

Breathing Easy in Arlington Heights, Illinois

The Village of Arlington Heights, Illinois, home of the Arlington International Race Course, has launched a kinder, gentler idle-free campaign. Early this year, the village's Environmental Commission proposed to the village Board the implementation of an educational campaign to reduce vehicle idling. The village, which promotes "green" policies and services as part of its mission, accepted the proposal.

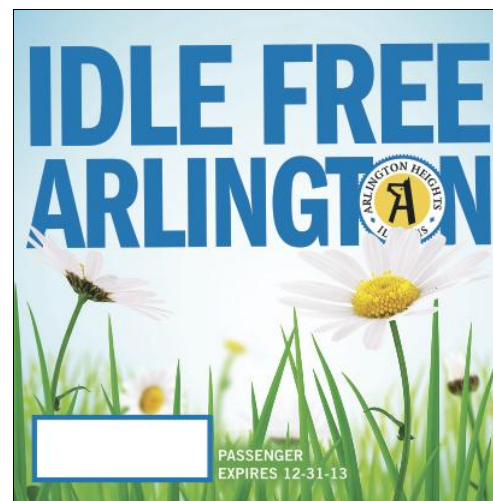
Officials decided early that they wanted a positive and encouraging campaign rather than one based on a "no" message. Key campaign elements include a website, brochure, and signs installed near schools, train stations, and parks in partnership with the schools or agencies responsible for the property.

Arlington Heights' Community Relations Coordinator Nancy Kluz believes that the village's request to partner with entities to install signs contributed significantly to the campaign's success. The village reached out to a number of governmental agencies and public schools, all of which mounted signs and shared costs. Additionally, some private businesses requested signs and window posters. (In these cases, the village provided electronic files for the artwork, and the businesses paid for production and installation.)

Arlington Heights has promoted its idle-free message through a variety of means, including on water bills and through its on-hold phone system, kiosk posters, and a session at its "Living Green" series at its public library. This fall, the village hosted a community bike ride, "Pedal Hard, Breathe Easy," for which participants received an Idle Free Arlington backpack. The

message will continue to be front and center in 2013 with the village's vehicle sticker, which incorporates the idle-free message.

According to Ms. Kluz, community response to the campaign has been positive. While a few residents have voiced their displeasure with the idle-free message—one said that he will cut off the idle-free message part of his vehicle sticker—village officials believe that the campaign's "soft," educational approach has promoted acceptance. More information about Arlington Heights' campaign is available at http://www.vah.com/residents/green/idle_free.aspx. (Image courtesy of the Village of Arlington Heights, Illinois.)



PORTS

California Ports Release Shore Power Regulations

Beginning on January 1, 2014, container ships, reefer vessels, and cruise ships must shut down their auxiliary engines while in port and plug into the electrical grid. The state is phasing in regulations between 2014 and 2020 and beyond. The regulations prescribe the percentage of the fleet required to plug in for each fleet's visit to California ports and require that if a ship is equipped for shore power and a shore power-ready berth is available, the ship must plug in. California ports will be constructing the landside

infrastructure, at a cost of \$65 million just for the Port of Long Beach for container berths. Shipping lines pay for modifications to their ships.

Penalties for noncompliance will range from \$1,000 to \$75,000 per violation, and a shipping line could incur multiple violations over the course of one ship's visit. More information is available at www.polb.com/civica/filebank/blobdload.asp?BlobID=10587.

OTHER NEWS OF INTEREST

ACR Approves Carbon Offset Methodology for TSE

The American Carbon Registry (ACR) has announced the approval of a carbon offset methodology to quantify emission reductions achieved through the use of truck stop electrification (TSE) for long-haul trucks. Developed jointly by ACR and TSE provider IdleAir, and approved through ACR's public consultation and scientific peer-review process, the methodology provides the opportunity to tap the carbon market to accelerate the reduction of long-haul trucking emissions.

TSE systems eligible under this methodology must use grid-connected electrical power and operate with the truck's main (diesel) engine off.

Baseline emissions from diesel idling are calculated using CARB emission factors. Emissions from electricity generation are calculated using EPA's Emissions and Generation Resource Integrated Database (eGRID) factors.

Ethan Garber, President and CEO of IdleAir, said that the carbon offset methodology "opens the door for us to harness the environmental benefits of TSE to help fund the expansion of our network." More information is available at <http://americancarbonregistry.org/carbon-accounting/carbon-accounting/ghg-emissions-reductions-through-truck-stop-electrification>.

RECURRING FEATURES

Currently Available Idling Reduction Equipment

The Alternative Fuels 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 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. On October 1, 2012, Moving Ahead for Progress in the 21st Century (MAP-21) became law, increasing this weight allowance from 400 lb to 550 lb. Each state can adopt this exemption, at its own discretion. We are not aware of any states that have increased the weight allowance to 550 lb. If you have information about planned or enacted changes, please

send a message to IDLINGREDUCTION@ANL.GOV so that we may share the news with our readers.]

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.

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/2012/07/20/idling-regulations-compendium/> and <http://www.afdc.energy.gov/laws/matrix/tech>.

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/laws/>. 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://us.bergstrominc.com/nite-calculate-savings/>)
- DOE Clean Cities program (<https://www.afdc.energy.gov/afdc/prep/>)
- 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/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 currently available in at least 23 states. AireDock, CabAire, EnviroDock, IdleAir, and Shorepower Technologies installations are listed at <http://www.afdc.energy.gov/afdc/locator/tse>. 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://www.afdc.energy.gov/afdc/locator/tse/>.

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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