

National Idling Reduction Network News

December 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
North Carolina Department of Environment and Natural Resources	2011 Idle Reduction Devices Rebate Program	\$273,000 (as of November 16, 2011)	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
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	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/
Ohio Environmental Protection Agency (EPA)	Diesel Emission Reduction Grant Program	\$10 million	TBA, March and September 2012	http://www.epa.state.oh.us/oeef/derg.aspx

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
CARB	Hybrid Truck and Bus Voucher Incentive Project (HVIP)	\$11 million	January 16, 2012	http://www.arb.ca.gov/msprog/aqip/solicitations.htm
U.S. Environmental Protection Agency (EPA) Region 2	Environmental Quality Awards	N/A	February 21, 2012	http://www.epa.gov/region2/eqa
Ohio EPA	Clean Diesel School Bus Fund Retrofit Grants Program	\$300,000	March 1, 2012	http://www.epa.ohio.gov/oef/schoolbus.aspx
Maryland Energy Administration	Maryland Idle Reduction Grant Program	\$225,000	June 1, 2012	http://www.energy.state.md.us/Transportation/idle/index.html
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
Cascade Sierra Solutions	Shorepower Truck Electrification Project (STEP) Rebate Program	\$10+ million	March 31, 2013	https://csswebform.org/WebForm/TSE_home.aspx

REGULATORY NEWS

Michigan Lawmakers Propose Idling Limits

Michigan legislators have introduced a bill that would limit the idling of 8,500+-pound road vehicles. As introduced, Senate Bill (SB) 819 would restrict the idling of such vehicles, whether gasoline or diesel-powered, to 5 minutes in any 60-minute period. Exemptions include passenger buses, including school buses, which may idle for up to 15 minutes in a 60-minute period for passenger comfort, and delivery trucks, which may idle up to 30 minutes while drivers are waiting to load or unload. Idling would also be permitted to power medical devices, such as continuous positive airway pressure (CPAP) machines, used during rest periods.

In the 6 months after the law's effective date, violations of the 5-minute rule would be met with fines of up to \$250, and violations of the 30-minute loading/unloading rule with fines of \$75. After the grace period, fines would double. SB819 is currently in the Committee on Transportation. Please go to http://www.landlinemag.com/todays_news/Daily/2011/Nov11/112811/112911-04.shtml for more information. To read the text of the bill as introduced, please click on <http://www.legislature.mi.gov/documents/2011-2012/billintroduced/Senate/pdf/2011-SIB-0819.pdf>.

Oregon Idling Law Goes into Effect

A law passed by Oregon legislators last summer, House Bill 2081, goes into effect on January 1. In Oregon, heavy-duty vehicles must now limit idling to no more than 5 minutes in a 60-minute period. Numerous exemptions include those for loading and unloading and rest periods when the outside

temperature is less than 50°F or more than 75°F. The penalty for violations is a \$180 fine. For more information about the law, please go to <http://www.oregon.gov/ODOT/MCT/docs/911.pdf?ga=t>.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
Greenaction for Health and Environmental Justice (Kettleman City and Avenal Kings County, California)	EPA	Creation of a replicable diesel emissions education program model that includes community outreach to encourage both behavior changes (compliance with idling laws) and equipment changes for reduced emissions	\$25,000
National School Transportation Association (Alexandria, Virginia)	EPA	Replacement of 3 older diesel school buses, retrofit of 40 older school buses with emission-control and idling-reduction technologies, and installation of technologies on an additional 118 school buses	\$460,753
Southeastern Pennsylvania Transportation Authority (SEPTA)	EPA	Repower of a conventional diesel locomotive with two gen-sets and installation of a diesel particulate filter	\$1.2 million
Metra (northeast Illinois commuter rail system)	U.S. Department of Transportation (DOT), Transit Investments for Greenhouse Gas and Energy Reduction (TIGGER)	Installation of idling-reduction technology on 10 of Metra's Rock Island District and Milwaukee District locomotives	\$2.2 million
Crooksville Exempted Village School District (Perry County, Ohio)	Ohio EPA	Installation of diesel oxidation catalysts on 10 buses and idling-reduction equipment on 12 buses	\$45,405
Eastern Local School District (Meigs County, Ohio)	Ohio EPA	Installation of idling-reduction equipment on 13 buses	\$24,310
Granville Exempted Village School District (Licking County, Ohio)	Ohio EPA	Installation of idling-reduction equipment on 26 buses	\$62,655
West Holmes Local School District (Holmes County, Ohio)	Ohio EPA	Installation of idling-reduction equipment on 29 buses	\$61,770
Wooster City Schools (Wayne County, Ohio)	Ohio EPA	Installation of idling-reduction equipment on 13 buses	\$37,611

Energy Xtreme and Navman Wireless Make *Forbes* Top 100 List

Two companies that offer idling reduction–related products have been named to *Forbes* magazine’s list of America’s Most-Promising Companies. The companies made the list based on the strength of their business models, management teams, strategic partners, and investment capital.

Energy Xtreme, headquartered in Austin, Texas, provides idling-reduction solutions for the emergency-vehicle and utility-vehicle markets. Products provide power to run vehicles’ electrical needs, such as warning lights, computers, and hydraulics, without engaging the vehicle’s engine. Energy Xtreme’s products are used by AT&T, as well as by a number of city and state government agencies nationwide. In March, the company received the 2011 National Truck Equipment Association’s Green Truck Award. Energy Xtreme was also recently named a finalist for the Platts Energy Commercial Technology of the Year Award, which focuses on new technologies in the clean-energy sector.

Navman Wireless (Glenview, Illinois) produces GPS fleet-tracking systems that enable corporate and construction vehicle fleet managers to analyze and reduce fuel, labor, and vehicle operating costs. The company’s OnlineAVL2 fleet-tracking platform monitors vehicle location and driver behavior, including excessive idling, in real time. In November, Navman Wireless won a Chicago Innovation Award for developing a combined on- and off-road vehicle-tracking platform that combines its OnlineAVL2 software with the new GPS-based Qtanium 300 in-vehicle hardware, which is designed to withstand the harsh construction environment.

For more information, please see http://www.forbes.com/lists/2011/28/most-promising-companies-11_Energy-Xtreme_PPZS.html and http://www.forbes.com/lists/2011/28/most-promising-companies-11_Navman-Wireless_65NO.html.

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
EPA	DERA: Technologies, Fleets, and Projects Information: Working Draft Version 1.0	http://www.epa.gov/cleandiesel/documents/420p11001.pdf
Pike Research	Fuel Cells for Auxiliary Power Unit Applications: Marine, Trucking, Aviation, and RV Applications: Market Analysis and Forecasts	Summary and ordering information available at http://www.pikeresearch.com/research/fuel-cells-for-auxiliary-power-unit-applications
Transportation Research Board (TRB)	A Guidebook for Sustainability Performance Measurement for Transportation Agencies	http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_708.pdf

UPCOMING MEETINGS AND EVENTS

[Brown text indicates a new entry since last month]

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
Green Transportation Conference	Salem, Oregon	January 11, 2012	http://www.cascadesierrasolutions.org/Documents/Green_Transportation_Conference_Agenda.pdf
TRB's 91st Annual Meeting	Washington, D.C.	January 22–26, 2012	http://www.trb.org/AnnualMeeting2012/AM2012Program.aspx
Society of Automotive Engineers (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/
CARB Public Workshop: Development of the AB 118 Air Quality Improvement Program (AQIP) Funding Plan for Fiscal Year 2012–13	Sacramento, California	February 2, 2012	http://www.arb.ca.gov/msprog/aqip/fundplan/fundplan.htm
Green Truck Summit	Indianapolis, Indiana	March 5–6, 2012	http://www.calstart.org/Events/CALSTART-Events.aspx
2012 Mid-America Trucking Show	Louisville, Kentucky	March 22–24, 2012	http://www.truckingshow.com/
Alternative Clean Transportation (ACT) Expo	Long Beach, California	May 14–17, 2012	http://www.actexpo.com/index.html
2012 Department of Energy (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/
Green Fleet Conference	Schaumburg, Illinois	October 2–3, 2012	http://www.greenfleetconference.com/Page/Overview.aspx

MANUFACTURERS' NEWS

CARB Approves Terex HyPower for PTO Applications

CARB has approved Terex Utilities (Watertown, South Dakota) HyPower hybrid system for use in power take-off–equipped (PTO) heavy-duty, diesel-fueled, 10,000+-pound vehicles. The absorbed glass mat (AGM) battery-powered system, which is charged with the use of a standard (110-volt, 15-amp) outlet, is designed to power vehicles' nonpropulsion functions, such as booms. If the battery charge falls below a certain level, the system

automatically starts the engine to recharge it. According to the Terex, the technology can save up to 1,500 gallons of fuel per year based on 7,000 travel miles and 1,250 job-site hours annually and can be retrofitted onto older trucks. For more about the HyPower system, please go to <http://www.terexhypower.com/>.

Havis Launches IdleRight2

Havis (Warminster, Pennsylvania), which produces power-management tools for law-enforcement, emergency, construction, and utility vehicles, is launching a new generation of its idling-reduction and fuel management system. According to Havis, the IdleRight2 improves on the original IdleRight with a reduced price (approximately \$150, down from \$450), simplified installation, a diagnostics system, and a return-on-investment calculator. Vehicles that might have consumed 4 gallons of fuel while idling at an emergency scene or construction site would, with the device, use less than one-quarter gallon of fuel, according to the company's website. The IdleRight2 works with both gasoline- and diesel-powered vehicles.

Havis also manufactures the ChargeGuard auto shut-off timer, which prevents battery drain and provides voltage protection for electronics. More information about Havis's power-management products is available at <http://www.havis.com>. (Photo courtesy of Havis, Inc.)



ELECTRIFIED PARKING SPACES

Delaware Distribution Facility Ditches Diesel for Electricity

At Trinity Distribution Services, in New Castle, Delaware, 20 diesel generators used to power refrigerated storage containers have given way to the use of electricity.

The electrification project is the result of an agreement between the Delaware Department of Natural Resources and Environmental Control (DNREC) and DuPont. As a condition of its Delaware Coastal Zone permit, DuPont provided \$225,000 to replace Trinity's diesel generators with electrified outlets to offset air emissions from two new boilers at the

company's Wilmington facility. DuPont paid an additional \$25,000 to fund the project's technical and administrative oversight by the Clean Air Council, a nonprofit environmental organization.

According to DNREC, the use of electricity to power refrigerated storage containers at the Trinity facility is expected to eliminate up to 120 tons of air pollutants annually. More information is available at <http://www.dnrec.delaware.gov/News/Pages/DNREC-Clean-Air-Council-and-DuPont-Announce-.aspx>.

RAILROADS

It's Lean, It's Green, and It's a Locomotive

Tube City IMS, a Gary, Indiana, provider of pre- and post-production mill services for the steel industry, is set to receive a repowered locomotive designed to sharply reduce idling time.

According to a South Shore Clean Cities white paper, the repowered locomotive is expected to yield fuel savings of 60% to 70% and annually reduce emissions of fine particulates and nitrogen oxides by 1,000 pounds and 40,000 pounds, respectively. These air quality benefits are estimated to be the equivalent of permanently removing 20 heavy-duty diesel trucks from the road, according to Shawn Seals, administrator of the Indiana

Department of Environmental Management's (IDEM) DieselWise program. Tube City IMS, with assistance from South Shore Clean Cities, received a \$215,000 grant from IDEM for the repower project.

For more information about Tube City's acquisition of the locomotive, please see http://www.nwitimes.com/business/local/lean-and-green-locomotive-coming-to-gary/article_0660d936-6658-58c7-b1ee-05975c311020.html. More information about Lean and Green Locomotive may be found at <http://www.leanandgreenlocomotive.com/>.

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	<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. †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.atr-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.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

- 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?sitePageId=40919&orgId=clcc>)

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.

- Hotstart (<http://www.hotstart.com/fuel-consumption-calculator/>)
- Kenworth (<http://www.kenworth.com>)
- Kohler Power Systems (<http://www.kohlerpower.com/mobile/solutions/apucalculator.htm?selectionNumber=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 19 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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