

National Idling Reduction Network News

January 2012

SOLICITATIONS FOR FUNDING AND AWARDS

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

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Bay Area Air Quality Management District (BAAQMD)	Carl Moyer Memorial Air Quality Standards Attainment Program	\$14 million	First come, first served.	http://www.baaqmd.gov/?sc_itemid=08F9594F-BF34-4A2A-BD38-9A3D0CCFF8F8
North Carolina Department of Environment and Natural Resources	2011 Idle Reduction Devices Rebate Program	\$273,000 (as of January 27, 2012)	First come, first served.	http://daq.state.nc.us/motor/Rebates/
California Air Resources Board (CARB)	On-Road Heavy-Duty Vehicle Loan Program	~\$48 million for loan guarantees	Rolling deadline until funds are awarded.	http://www.arb.ca.gov/ba/loan/on-road/documents/hdvloanprogram.pdf
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.turnyouengineoff.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

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Baltimore Regional Transportation Board	Congestion Mitigation and Air Quality (CMAQ) Funded Transportation Emission Reduction Projects	~\$800,000	February 15, 2012	http://www.baltometro.org/content/view/1480
U.S. Department of Transportation (DOT)	TIGER IV (Transportation Investment Generating Economic Recovery)	\$500 million	February 20, 2012, for pre-applications; March 19, 2012, for final applications	http://www.dot.gov/tiger/
U.S. Environmental Protection Agency (EPA) Region 2	Environmental Quality Awards	N/A	February 21, 2012	http://www.epa.gov/region2/eqa
California Energy Commission	Energy Innovations Small Grant Transportation Program—Electricity	Indeterminate	February 29, 2012	http://www.energy.ca.gov/contracts/smallgrant/index.html
U.S. EPA	Environmental Justice Small Grants Program	\$1 million	February 29, 2012	http://www.epa.gov/compliance/environmentaljustice/grants/ej-smgrants.html
Ohio EPA	Clean Diesel School Bus Fund Retrofit Grants Program	\$300,000	March 1, 2012	http://www.epa.ohio.gov/oeef/schoolbus.aspx
North Central Texas Council of Governments (NCTCOG)	North Central Texas Clean School Bus Program	~\$500,000	March 16, 2012	http://www.nctcog.org/trans/air/vehicles/investments/funding/index.asp
Tennessee Department of Environment and Conservation	Clean Tennessee Energy Grant Program	~\$5.28 million	March 30, 2012	http://eerc.ra.utk.edu/etcfcdocs/2012/ctegp/CTEGP_Application-Manual.pdf
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

ATRI Updates Compendium of Idling Regulations

The American Transportation Research Institute (ATRI) has updated its compendium of idling regulations to include recent changes, including those in Oregon and Utah. Oregon’s new law restricting truck idling to 5 minutes or less took effect January 1, and Salt Lake City, Utah, now limits idling to 2 minutes or less. Additionally, an exemption to West Virginia’s 15-minute

idling limit—the exemption allowing truck operators to power HVAC during a sleep or rest period—is scheduled to expire on May 1, 2012. ATRI’s online resource offers links to not only individual regulations but to a printable cab-reference file. To access the resource, please go to <http://www.atri-online.org/> and click on the compendium link at the left.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
CARB	U.S.EPA	Emissions reduction projects, including the replacement of 18 older locomotives with gen-set locomotives in Southern California	\$14 million
Curlew School District (Ferry County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 5 school buses	\$14,223
Entiat School District (Chelan County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 5 school buses	\$20,151
Lind School District (Adams County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 8 school buses	\$46,978
Methow Valley School District (Okanogan County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 10 school buses	\$42,366
Mount Vernon School District (Skagit County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 35 school buses	~\$137,000
Oak Harbor School District (Island County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 38 school buses	\$150,408
White Salmon School District (Klickitat County, Washington)	Washington Department of Ecology	Purchase and installation of idling reduction technology for 12 school buses	\$50,887

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
Clean Air at Schools: Engines Off (CASEO)	Caution: Children Breathing—An Overview of Air Pollution and Idling Vehicles at Colorado Schools	http://enginesoff.com/pdfs/CASEO-Background-Report.pdf
Frost and Sullivan	Strategic Analysis of Alternative Powertrain Technologies in the European Diesel Locomotive and Railcar Market	Summary and ordering information available at http://www.frost.com/prod/servlet/report-toc.pag?repid=M6DB-01-00-00-00
Transportation Research Board (TRB)	Handbook for Considering Practical Greenhouse Gas Emission Reduction Strategies for Airports	http://onlinepubs.trb.org/onlinepubs/acrp/acrp_rpt_056.pdf
U.S. EPA West Coast Diesel Collaborative	Diesel Emission Reduction Act (DERA) 2008–2011: Grant Benefits in USEPA Regions 9 and 10	http://www.epa.gov/region9/mediacenter/sjv-tour/dera-total-grants_nov11.pdf

UPCOMING MEETINGS AND EVENTS

[Brown text indicates a new entry since last month]

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
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
Mid-West Truck Show	Peoria, Illinois	February 3–4, 2012	http://www.midwesttruckshow.com/
CalHEAT Forum 2012	Stockton, California	February 22, 2012	http://www.calstart.org/Projects/CalHEAT.aspx
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

PARKING SPACES FOR TRUCKS

Maryland Launches Emergency Truck Parking Program

The Maryland DOT, in collaboration with the Maryland Motor Truck Association (MMTA) and the I-95 Corridor Coalition, has created a pilot program to help truck drivers find safe parking in heavy (6+ inches) snowfall. The program, which offers drivers six emergency locations, will reduce the number of truck operators who need to park on ramps and shoulders in such weather. The list of locations, which includes the 38 regular truck parking locations, is available electronically and may be downloaded as a

PDF. Users accessing the application through newer mobile devices will be able to see which available lots are nearest and click for distance and directions. For more information, please see http://www.landlinemag.com/todays_news/Daily/2011/Dec11/122611/122711-06.shtml. Maryland's Emergency Truck Parking Portal is available at <http://www.roads.maryland.gov/Pages/Emergencytruckparking.aspx?PageId=856>.

ELECTRIFIED PARKING SPACES

West Coast's Interstate 5 To Be the First Completed TSE Corridor

In 2012, Interstate 5, a 1,000+ mile route running from northern Washington through Oregon to southern California, will become the first well-equipped truck stop electrification (TSE) freight corridor. Long-haul truck drivers will find TSE installations at intervals of no more than every 200 miles.

The DOE-funded Shorepower Truck Electrification Project (STEP), administered by Cascade Sierra Solutions in partnership with Shorepower Technologies, is advancing toward its goal of completing electrification of this corridor this year. The new installations will be located in Bakersfield, Dunnigan, Lebec, Lodi, and Weed, California, and Canyonville, Oregon. Each will have between 24 and 48 parking spaces.

Shore power, or wayside power, allows drivers of trucks equipped with electric-standby capability to turn off their engines during rest periods and pull power from an electric pedestal for HVAC, communication devices, and other needs.



STEP is funded through the American Recovery and Reinvestment Act (ARRA). When the project is complete, power pedestals will be available at 50 truck stops on 10 interstate freight corridors. For more information, please see <http://www.the-step-project.org/blog/i-5-tse-network-comes-into->

[view/](#). More about the STEP program, including information about TSE equipment rebates for trucks, is available at <http://www.the-step-project.org/>. (Image: Courtesy of Shorepower Technologies)

RAILROADS

Fuel Savings for Locomotive APUs Exceed Expectations in Missoula

Fuel savings associated with APUs installed on Montana Rail Link locomotives in Missoula, Montana, have far exceeded expectations. According to the Missoula Office of Planning and Grants (OPG), between July 2010 and July 2011, the use of the Hotstart APUs on 34 locomotives yielded a 951,500-gallon fuel savings; the estimated savings had been 471,676 gallons.

Before the installation of the APUs, annual locomotive idling hours were calculated at 248,200. After installation, locomotive idling hours fell to 49,342, for an 80% reduction. Based on actual performance, the estimated lifetime (~11 years) fuel savings has been revised from 4.8 million gallons to 10.7 million gallons.

The Hotstart APU circulates oil and water through the locomotive engine to keep it warm while it is shut down. While a locomotive engine has 20 cylinders and consumes 4–5 gallons of fuel per hour, the two-cylinder Hotstart APU uses just half a gallon per hour.

The locomotive APU project was funded by a \$1.13 million EPA National Clean Diesel grant awarded to the Missoula Metropolitan Planning Organization in 2010. The link <http://www.ci.missoula.mt.us/DocumentView.aspx?DID=7891> contains more information. For more information about Hotstart APUs, please go to <http://www.hotstart.com/>.

EDUCATION, OUTREACH, AND CAMPAIGNS

Engines Off! Colorado

Through its Engines Off! campaign, the Denver Department of Environmental Health is seeking to reduce “voluntary idling”—the idling that occurs while we wait in drive-through lines or near schools to pick up our children. The campaign reminds us that unless we drive an old classic

equipped with a carburetor (late 1980s and earlier), idling for even 10 seconds uses more fuel than restarting the engine. The campaign suggests that motorists who expect to be stopped for more than 30 seconds turn off their vehicles.

Clean Air at Schools: Engines Off (CASEO), a partnership between federal and local governments, county school districts, regional air quality planners and nonprofit organizations, focuses on improving air quality near schools. CASEO has launched a pilot program to reduce air pollution through education, collecting no-idling pledges from school employees and families, and installing emissions reduction devices, including engine preheaters to reduce idling, on school buses. According to Colorado Springs' *The Gazette*, Cindy Hardin, an area school district transportation director, says that since the no-idling signs were installed near the district transportation buildings, "even visitors dropping off payments or bus applications are turning off their engines."

In Denver, idling is restricted to 5 minutes in a 60-minute period. Engines Off!, the goal of which is to foster voluntary behavior change so that enforcement is necessary only as a last resort, is made possible by federal CMAQ grant funds received through the Colorado Department of Transportation. To learn more about Engines Off!, please go to <http://enginesoff.com/>. For more information about CASEO's work, please see <http://www.gazette.com/articles/district-130619-around-turning.html> and <http://www.denvercleancities.org/CASEO.html>. Denver's idling ordinance is available at <http://enginesoff.com/about-ordinance.html>. (Image: Courtesy of the Denver Department of Environmental Health)



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.

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/funding-opportunities.htm>.

Tools Available to Calculate the Cost of Idling Reduction Equipment

There are a number of tools available to workplace and truck fleet managers, owner-operators, and locomotive engineers to help determine the costs and benefits of paying for and installing idling reduction equipment. A site from Canada that quantifies the costs of workplace idling

is also included. The calculators are provided as tools of possible benefit; their accuracy has not been verified. Any new entry this month is shown in brown. If you are aware of other sources of information that may be of possible interest to newsletter readers, please let us know.

- Argonne National Laboratory (<http://www.transportation.anl.gov/engines/idling.html>—choose a calculator from the right side of the Web page)
- Autotherm (<http://autothermusa.com/wordpress/calculate-idling-costs-savings/>)
- Bergstrom (http://www.nitesystem.com/html/idle_calculator.cfm)
- DOE Clean Cities program (<https://www.afdc.energy.gov/afdc/prep/index.php>)
- EPA (<http://www.epa.gov/smartwaylogistics/transport/calculators/index.htm>)
- 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/>)
- 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 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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