

National Idling Reduction Network News

September 2013

SOLICITATIONS FOR FUNDING AND AWARDS

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

ORGANIZATION	PROJECT	FUNDING	DEADLINE	WEBSITE
Bay Area Air Quality Management District (BAAQMD)	Carl Moyer Memorial Air Quality Standards Attainment Program	~\$15 million	First come, first served.	baaqmd.gov/?sc_itemid=08F9594F-BF34-4A2A-BD38-9A3D0CCFF8F8
Colorado Regional Air Quality Council	Congestion Mitigation and Air Quality (CMAQ) Funding for GPS Hardware To Support Idle Reduction (Denver Metro/North Front Range Area)	Indeterminate	First come, first served.	Kate Ruygrok, 303-629 5450, ext. 290
New York State Energy Research and Development Authority (NYSERDA)	New York State Electric Vehicle Voucher Incentive Fund (NYSEV-VIF)	\$9 million	First come, first served.	truck-vip.ny.gov/about.php
Arkansas Department of Environmental Quality	Business Assistance Program, Environmental Loans for Small Businesses	Indeterminate	Rolling deadline until funds are awarded.	adeq.state.ar.us/poa/sba/envloans.htm
California Air Resources Board (CARB)	On-Road Heavy-Duty Vehicle Loan Program	~\$48 million for loan guarantees	Rolling deadline until funds are awarded.	arb.ca.gov/ba/loan/on-road/documents/hdvloanprogram.pdf
Illinois Environmental Protection Agency (EPA)	Illinois Clean Diesel Grant Program	\$294,517	Rolling deadline until funds are awarded.	illinoisgreenfleets.org/
Illinois EPA	Illinois Clean Diesel Grant Program—school buses only	\$1 million annually through 2016	Rolling deadline until funds are awarded.	illinoisgreenfleets.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—Diesel Idle Reduction Campaign	Not applicable	Rolling deadline—the 15th of every month.	turnyouengineoff.org/campaign_recognition.html

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Minnesota Pollution Control Agency	Small Business APU (auxiliary power unit) Loan Program	\$110,000	Rolling deadline until funds are awarded.	pca.state.mn.us/index.php/topics/small-business-environmental-assistance-program/small-business-ombudsman/small-business-auxiliary-power-unit-apu-loan-program.html
San Joaquin Valley Air Pollution Control District (SJVAPCD)	SJVAPCD Hybrid Truck and Bus Voucher Incentive Project (HVIP) Plus-up Voucher Funding Program	~\$804,000	Rolling deadline until funds are awarded.	californiahvip.org/
Pennsylvania Department of Environmental Protection	Small Business Pollution Prevention Assistance Account Loan Program	\$2 million annually	Not applicable	portal.state.pa.us/portal/server.pt?open=514&objID=553247&mode=2
California Air Quality Management Districts (AQMD)	Proposition 1B: Goods Movement Emission Reduction Program	~\$150 million statewide	October 10, 2013 (see individual AQMD websites for "backup" solicitation periods)	arb.ca.gov/bonds/gmbond/gmbond.htm (scroll down for individual AQMD websites)
California Energy Commission	Centers for Alternative Fuels and Advanced Vehicle Technology	\$4.7 million	October 25, 2013	energy.ca.gov/contracts/PON-13-605/00_PON-13-605.pdf
NYSERDA	New York State Clean Air School Bus Program, Round 3	<\$1.7 million	December 30, 2013	nyserda.ny.gov/Funding-Opportunities/Current-Funding-Opportunities/PON-1896-New-York-State-Clean-Air-School-Bus-Program.aspx

REGULATORY NEWS

California Advances on \$2 Billion for Clean Transportation Programs

California lawmakers recently sent a bill to the Governor’s desk that would reauthorize funding—\$2 billion through the year 2023—for key clean transportation programs. Assembly Bill (AB) 8 provides funding for voluntary clean-vehicle incentive programs such as the Air Quality Improvement Program (AB 118) and the Carl Moyer and AB 923 programs.

According to CALSTART, Governor Jerry Brown has announced his intent to sign the bill into. For more information, please see calstart.org/News_and_Publications/CALSTART-in-the-news/CALSTART-Press-Releases/Calif-Legislature-Passes-Historic-Clean-Transport.aspx.

AWARDS AND RECOGNITION

RECIPIENT	SOURCE OF FUNDING	PURPOSE OF GRANT	FUNDING
American Idle Reduction LLC, distributor for AireDock (Trumbull County, Ohio)	Ohio EPA	Installation of 14 electrified truck-stop spaces at the Mr. Fuel on I-80 in Girard	\$187,280
American Idle Reduction LLC, distributor for AireDock (Trumbull County, Ohio)	Ohio EPA	Installation of 17 electrified truck-stop spaces at the Love’s Travel Stop on I-80 in Hubbard	\$266,080
American Idle Reduction LLC, distributor for AireDock (Wood County, Ohio)	Ohio EPA	Installation of 12 electrified truck-stop spaces at the Love’s Travel Stop on I-75 in North Baltimore	\$180,720
American Idle Reduction LLC, distributor for AireDock (Butler County, Ohio)	Ohio EPA	Installation of 25 electrified truck stop spaces at the Stony Ridge Travel Center on I-75 in Monroe	\$427,120
JARO Transportation Services, Inc. (Trumbull and other counties, Ohio)	Ohio EPA	Installation of APUs on 30 short-haul trucks	\$201,936
Sugar Creek Packing Company (Butler and other counties, Ohio)	Ohio EPA	Replacement of 20 diesel-powered trailer refrigeration units (TRUs) with 20 plug-in electric hybrid TRUs	\$464,560
Railserve, Inc. (Hamilton County, Ohio)	Ohio EPA	Repower of 1 pre-1973 switcher locomotive with gen-set technology	\$628,000
Norfolk Southern Railway Company (Ashtabula and other counties, Ohio)	Ohio EPA	Installation of electric layover heating systems in 26 switcher locomotives and 21 480-volt three-phase plug-in stations	\$1,484,736

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Savage Services (Lucas County, Ohio)	Ohio EPA	Repower of 1 switcher locomotive engine with a new diesel Tier 4i compliant engine and APU	\$688,000
Rutland Regional Medical Center (Rutland, Vermont)	Vermont Department of Environmental Conservation, Air Pollution Control Division	Installation of emergency-vehicle idle-reduction technology	\$32,000
Vermont Railway, Inc. (Vermont)	Vermont Department of Environmental Conservation, Air Pollution Control Division	Installation of locomotive idle-reduction technology	\$67,500
Albuquerque International Sunport	Federal Aviation Administration (FAA) Voluntary Airport Low Emission (VALE) Program	Installation of charging units for ground-support equipment	\$464,000
Birmingham-Shuttlesworth (Alabama) International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$2,847,790
Boston General Edward Lawrence Logan International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$2,000,000
Metropolitan Oakland International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$2,179,006
San Diego International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$3,109,162
Seattle-Tacoma International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$3,547,527
Syracuse Hancock International Airport	FAA VALE Program	Installation of low-emission equipment, such as preconditioned air units	\$2,885,400

REPORTS AND OTHER RESOURCES OF INTEREST

SOURCE	TITLE	WEBSITE OR CONTACT
Clean Energy Coalition	Fuel Forward Fleet Study Prepared for the City of Auburn Hills, Michigan	71.6.170.26/revize/auburnhills/document_center/AH_Fuel_Forward_Report.pdf
U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (DOE EERE)	Clean Cities Guide to Alternative Fuel and Advanced Medium- and Heavy-Duty Vehicles	afdc.energy.gov/uploads/publication/medium_heavy_duty_guide.pdf
Northeast Diesel Collaborative (NEDC)	NEDC 2013 Partners Meeting	northeastdiesel.org/presentations-2013-partners-meeting.html

UPCOMING MEETINGS AND EVENTS

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

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
High-Efficiency Truck Users Forum (HTUF) National Meeting 2013	Chicago, Illinois	October 7–9, 2013	conferences.stagedrightevents.com/htuf/
CARB Workshop: Updates to Mobile Source Emissions Inventory Tools	Sacramento, California (also webcast)	October 8, 2013	arb.ca.gov/msei/workshop-meetings.htm
CARB Course 520: How To Comply with CARB Diesel Regulations	Webinar	October 21–23, 2013	arb.ca.gov/training/courses.php?course=520 (link also shows multiple onsite classes on various dates and in multiple locations)
Greater Lansing Area Clean Cities (GLACC) Idle Reduction Workshop	Lansing, Michigan	October 24, 2013	michigancleancities.org/archives/1901
2013 Railroad Environmental Conference	Urbana, Illinois	November 5–6, 2013	ict.uiuc.edu/railroad/rrec/overview.php
Transportation Research Board (TRB): Airport Emission Inventories and Reduction Strategies	Webinar	November 7, 2013	trb.org/ElectronicSessions/Blurbs/169267.aspx
North American Natural Gas Vehicle Conference and Expo	Atlanta, Georgia	November 18–21, 2013	cleanvehicle.org/conference/2013/index.shtml
2014 TRB 93rd Annual Meeting	Washington, D.C.	January 12–16, 2014	trb.org/AnnualMeeting2014/AnnualMeeting2014.aspx

MEETING	LOCATION	DATE	WEBSITE OR CONTACT
SAE Government/Industry Meeting (in conjunction with the Washington, D.C., Auto Show)	Washington, D.C.	January 22–24, 2014	sae.org/events/gim/
Midwest Truck and Trailer Show	Peoria, Illinois	January 31–February 1, 2014	midwesttruckshow.com/
Green Truck Summit	Indianapolis, Indiana	March 4–5, 2014	ntea.com/greentrucksummit/about/
National Truck Equipment Association (NTEA) Work Truck Show	Indianapolis, Indiana	March 4–7, 2014	ntea.com/worktruckshow/index.aspx?id=938
Mid-America Trucking Show	Louisville, Kentucky	March 27–29, 2014	truckingshow.com/
Alternative Clean Transportation (ACT) Expo	Long Beach, California	May 5–9, 2014	actexpo.com/index.html
Government Fleet Expo & Conference (GFX)	San Diego, California	June 2–4, 2014	governmentfleetexpo.com/

MANUFACTURERS' NEWS

eNow Partners with Hercules for Solar-Powered Idling Reduction

eNow (Warwick, Rhode Island) has announced that two of its solar-powered idle-reduction products will be available for insulated and dry-freight delivery vehicles produced by Hercules Manufacturing Co. (Henderson, Kentucky).

eNow's SunTough Charge System is a solar-powered "trickle charge" system designed to keep vehicle batteries fully charged and conditioned while the vehicle's engine is off. This system is ideal for vehicles that sit idle for several days at a time or for delivery vehicles equipped with temperature-

monitoring equipment. The other product, eNow's SunLift System, is a solar-powered lift-gate accessory battery-charging system designed for trucks that have a heavy lift-gate duty cycle and stop frequently.

eNow designs, develops, and manufactures solar-based auxiliary power systems for the transportation industry. For more information, please see enowenergy.com/news/post/a-new-strategic-partnership-between-enow-inc.-and-hercules-mfg.-co.-will-pr.

Carrier Transicold Introduces Its Vector 8500 TRU

Carrier Transicold has launched the Vector 8500, a single-temperature hybrid TRU with improved fuel economy, greater refrigeration capacity, and reduced weight over its predecessor. The product complies with U.S. EPA's 2013 Tier 4 emissions requirements.

The Vector 8500's refrigeration and heating operations are 100% electric, powered over the road by an on-board generator driven by the unit's diesel engine. Electric-standby capability is built in, allowing vehicle operators to power systems with electricity rather than diesel fuel when parked. According to Carrier Transicold, the Vector 8500 can reduce operating costs

by up to 70% compared to diesel operations. More information is available at transicold.carrier.com/Carrier+Brand+Sites/Carrier+Transicold/Side+Bar+Links/

[Transicold+News+Archive/New+Carrier+Transicold+Vector%E2%84%A2+8500+Unit+Sheds+Pounds,+Beefs+Up+Performance](#) and truepowerofblue.com/.

TRUCK STOP ELECTRIFICATION

California Utility Undertakes New Shore-Power Pilot at Truck Stop

In a pilot program conducted about 10 years ago, the Sacramento Municipal Utility District (SMUD) installed 16 electrical shore-power hookups at the Sacramento 49er Truck Travel Plaza. The program's goal was to introduce truckers to "plugging in" as an alternative to idling for hotel load during their required rest periods. Now with 30 shore-power connections, SMUD has undertaken a new 18-month demonstration project. It seeks to collect technical data and determine the feasibility of a commercial project. During the current pilot, truck drivers have plugged in at no cost.

"Last decade, getting truckers to plug in instead of idling was challenging," said Tristen Griffith, president of the Sacramento 49er Truck Travel Plaza. "A lot has changed since then. We expect to see considerably more truckers plugging in now."

The cost of fuel alone for a 10-hour rest stop is about \$40. According to a SMUD press release, the actual cost of electricity for the same amount of time at the site is \$1. For more information, please go to smud.org/en/about-smud/news-media/news-releases/2013-07-30-truckers.htm. A video about the project is available at kcra.com/news/truckers-hook-up-to-save-money-environment/-/11797728/21278504/-/hcng3nz/-/index.html. (Photo: SMUD program

manager David Hatfield inspects a newly installed shore-power hookup at the 49er Travel Plaza. Photo courtesy of SMUD.)



OTHER NEWS OF INTEREST

Omaha Public Power District Tests Two Idling Reduction Systems

To reduce its vehicle idling time and fuel costs, the Omaha (Nebraska) Public Power District (OPPD) recently implemented two different kinds of idling reduction technology on its work trucks. The OPPD fleet team installed Energy Xtreme's EX Service Vehicle Independence Package power units with extended battery packages in two of its "trouble trucks," which are used for maintenance and repair calls. The Independence Package allows engine-off power for the vehicles' electrical accessories. According to Mike Donahue, OPPD's manager of transportation and construction, the reduced engine idling has, thus far, improved miles per engine hour from 12.6 to 16.9, a 34% improvement.

The OPPD fleet also purchased two Altec (Birmingham, Alabama) Jobsite Energy Management System (JEMS) units. The new hybrid-electric bucket trucks use stored electrical energy to power aerial devices and tools and

cab-comfort accessories. The energy storage system is recharged by plugging in to shore power or by the truck's running engine.

Reducing fuel costs is important to OPPD. Mr. Donahue told *Government Fleet* that over the last few years its annual transportation fuel spending had increased from around \$1.5 million to \$2.5 million. "I expect larger challenges if the economy really takes off," said the manager of the 1,400+ vehicle fleet.

The OPPD intends to evaluate the performance of each idle-reduction technology for optimal application. For more information about OPPD's fleet idle-reduction systems, please see government-fleet.com/article/story/2013/06/shutting-off-idling-engines.aspx?prestitial=1.

Alameda Equips Sheriff Patrol Cars with Energy Xtreme's IP2

The Alameda County, California, Sheriff's Office has equipped eight of its patrol vehicles with the Energy Xtreme's Independence Package (IP2)[®]. The IP2, which provides mobile electric auxiliary power, enables operation of vehicles' electrical systems in "engine off" mode, saving fuel, reducing emissions, and mitigating engine wear and tear. According to the manufacturer, the IP2 requires no maintenance and is recharged by the

vehicle's alternator while the vehicle is being driven, with payback varying from 10 to 18 months.

More information is available at prweb.com/releases/2013/8/prweb10986726.htm. For more information about Energy Xtreme's Independence Package series, please go to www.energyxtreme.net/solution/lawe.

RECURRING FEATURES

Currently Available Idling Reduction Equipment

The Alternative Fuels Data Center (AFDC) of the DOE's Office of Energy Efficiency and Renewable Energy (EERE) identifies types of heavy-duty idling reduction equipment and provides links to some manufacturers at afdc.energy.gov/afdc/vehicles/idle_reduction_equipment.html and

afdc.energy.gov/conserve/idle_reduction_related.html. For EPA-verified idling reduction technologies in eight categories, please visit EPA's SmartWay Transport website at 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. 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.]

We will update the following table 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 Auxiliary Power Unit Weight 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>	<i>MISSOURI</i>	<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	
<i>COLORADO</i>	Illinois	Massachusetts	<i>NEW HAMPSHIRE</i>	Oregon	Vermont	
<i>CONNECTICUT</i>	Indiana	Michigan	New Jersey	Pennsylvania	<i>VIRGINIA</i>	
Delaware	Iowa	<i>MINNESOTA</i>	New Mexico	<i>Rhode Island</i>	Washington	
Legend: Allows a 400-lb exemption by law; <i>ALLOWS A 550-LB EXEMPTION BY LAW</i> ; Allows a 400-lb exemption by enforcement policy rather than by law; <i>Does not permit an APU weight exemption.</i>						

Summary of State and Municipal Idling Regulations

Many states and municipalities restrict idling. The recently launched IdleBase (cleancities.energy.gov/IdleBase) contains information about laws for all classes of on-road vehicles. For laws specific to heavy-duty vehicles only, the American Transportation Research Institute (ATRI) has an excellent

resource (atri-online.org/2013/02/20/idling-regulations-compendium/). If your state, county, or municipality has made or is proposing changes, please let us know (idlingreduction@anl.gov) so that we may share the information with newsletter readers.

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 afdc.energy.gov/laws/. Let us know if any information needs to be changed or updated. Additionally, the U.S. EPA Diesel Collaboratives offer news of available grant and loan programs. For the Northeast Diesel Collaborative (Regions 1 and 2), see northeastdiesel.org/funding.html; Mid-Atlantic Diesel Collaborative

(Region 3), dieselmidatlantic.org/funding-opportunities; Southeast Diesel Collaborative (Region 4), southeastdiesel.org/; Midwest Clean Diesel Initiative (Region 5), epa.gov/midwestcleandiesel/grants/index.html; Blue Skyways Collaborative (Regions 6 and 7 plus Minnesota), blueskyways.org/funding/index.html; Rocky Mountain Clean Diesel Collaborative (EPA Region 8), epa.gov/region8/air/rmcdc/; and West Coast Collaborative (EPA Regions 9 and 10 plus Canada and Mexico), 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. We provide links to the calculators as tools of possible benefit but have not verified their accuracy. 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 (transportation.anl.gov/engines/idling.html)—choose a calculator from the right side of the Web page
- Bergstrom (us.bergstrominc.com/nite-calculate-savings/)
- DOE Clean Cities program (afdc.energy.gov/afdc/prep/)
- Dynasys (dynasysapu.com/savings-calculator)
- Energy Xtreme (energyxtreme.net/idle-reduction/calculator-quote)
- Espar (espar.com/html/service/calculator/calculator.html)
- Hotstart (hotstart.com/fuel-consumption-calculator/)
- Idle Free Systems (idlefreesystems.com/no-idle-elimination-solutions-for-sleepers.html)
- Idle Smart (idlesmart.com/calculator.html)
- Kohler Power Systems (kohlerpower.com/mobile/solutions/apucalculator.htm?sectionNumber=13361&nodeNumber=1&contentNumber=102)
- LifeForce (lifeforceapu.com/files/LifeforceCalculator.xls)

- Natural Resources Canada (oee.nrcan.gc.ca/transportation/tools/calculators/Idling/idlingimpact-workplace.cfm?attr=16)
- Odyssey Battery (odysseybattery.com/fleet.html)
- Thermo King (thermoking.com/tripac/)
- Webasto (techwebasto.com/redirect/calculators/heater/heater_fuel_calculator_us.htm)

Locations of Electrified Parking Spaces

In collaboration with the U.S. Department of Transportation (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 34 states. AireDock, CabAire, EnviroDock, IdleAir, and Shorepower Technologies installations are listed at 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 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 eere.energy.gov/vehiclesandfuels/resources/fcvt_national_idling.html. Additionally, the site has a compendium of all previous issues; 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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