

Funding Opportunities, Training, and Resources Relevant to Advance Efforts¹

Upcoming Funding and Assistance Opportunities – Stay Tuned!

Environmental Protection Agency

Diesel Emission Reduction Act (DERA) Tribal Grants

A 2017 Request for Proposals for tribal grants is planned for **later this summer**. U.S. tribal agencies or intertribal consortia with jurisdiction over transportation or air quality are eligible to apply for Clean Diesel Tribal Grants.

More information: <https://www.epa.gov/cleandiesel/clean-diesel-tribal-grants>

Clean Energy Resource Teams

Seed Grants for Energy Efficiency/Renewable Energy Projects in Minnesota

This funding opportunity is expected to open in **early Sept. 2017**. The grants can support labor costs only. Information is available regarding the application process and projects that were funded in the past.

More information:

http://www.cleanenergyresourceteams.org/rfp?mc_cid=3a0c71593d&mc_eid=7982cab0f0

Environmental Protection Agency

Diesel Emission Reduction Act (DERA) School Bus Rebate Program

EPA expects to offer a new Diesel Emission Reduction Act (DERA) school bus rebate program in **fall 2017**. Six Advance areas received funds totaling \$1.56 million via the 2016 DERA school bus rebate program (**South Carolina; Lakeview, OR; Alexandria, LA; Springfield, MO, Omaha, NE, and Hampton Roads, VA**).

More information: <https://www.epa.gov/cleandiesel/clean-diesel-rebates>

Environmental Protection Agency

Volkswagen Mitigation Trust

- The VW mitigation trust will present opportunities for NOx reductions across the U.S.
- The partial VW settlement addressing vehicles with 2.0 liter diesel engines will likely become effective in the second half of 2017 and funds would be available to beneficiaries about 6 months later.

¹ These announcements include information from third parties not associated with the Environmental Protection Agency (EPA). The information, including web links, does not constitute an endorsement of these organizations or their programs by EPA and is provided solely as a service to our Advance Program partners and others who are interested in reducing ozone and/or PM2.5. The information is provided for your reference only. In doing so, EPA does not endorse any non-government websites, companies, or applications. EPA is not responsible for the content of the individual organization web pages found at the links provided in this document.

- To be funding-eligible, states, territories, and tribes must file to become beneficiaries within 60 days of the final trust agreement signing.
- Of the \$14.7 billion settlement, up to \$10.033 billion will be used to achieve the 85 percent recall rate, \$2 billion will promote the use of zero emission vehicles and related technology (11 cities including one Advance area (**Houston**) will receive targeted investments), and \$2.7 billion will fund an environmental mitigation trust supporting projects that reduce NOx emissions using eligible mitigation actions.
- With respect to the trust, an independent trustee has been appointed (Wilmington Trust N.A.), and each state will receive an allocation.
- Eligible mitigation actions are focused on large mobile sources of NOx pollution across the country, and involve reducing NOx from older, dirtier diesel engines, vehicles, equipment, and vessels. Appendix D-2 to the Consent Decree details the 10 eligible mitigation actions and expenditures. Eligible actions include truck stop electrification, fuel efficiency and idle reduction equipment, and other types of cleaner cargo handling equipment, construction equipment, smaller marine vessels, and diesel generators.
- Eligible mitigation action 10 is the DERA option that allows for beneficiaries to use trust funds for their non-federal voluntary match for DERA funding. For more information on this option, see <https://www.epa.gov/cleandiesel/volkswagen-vw-settlement-dera-option>.
- States have been reaching out to stakeholders to get input on how the funds should be spent. E.g., Minnesota: <https://www.pca.state.mn.us/air/volkswagen-settlement>; Virginia: <http://www.deq.virginia.gov/Programs/Air/VWMitigation.aspx>; Delaware: <http://www.dnrec.delaware.gov/air/Pages/VWMitigationPlan.aspx>; Oregon: <https://www.oregon.gov/deq/aq/programs/Pages/VW-Diesel-Settlement.aspx>.
- ZEV Infrastructure Investment – VW’s National Zero Emission Vehicle (ZEV) Investment Plan: Cycle 1 can be found here: www.epa.gov/sites/production/files/2017-04/documents/nationalzevinvestmentplan.pdf. This Cycle 1 plan is the first of four 30 month cycles planned for infrastructure investment. Comments on the ZEV Investment Plans can be submitted here: www.electrifyamerica.com/our-plan.
- See <https://www.epa.gov/vw>. More information including a presentation and FAQs about the trust agreement and the zero emission vehicle investment: <https://www.epa.gov/enforcement/volkswagen-clean-air-act-civil-settlement>.

Arbor Day Foundation

TD Green Streets

This grant program supports innovative practices in community forestry. Through the program municipalities are eligible to receive grants in support of local forestry projects in low- to moderate-income (LMI) neighborhoods. Advance areas in **Delaware, South Carolina**, and

Vermont were eligible for funding last year. If a 2018 program is offered, it would potentially be announced in **fall 2017**.

<https://www.arboday.org/programs/tdgreenstreets/>

Currently Open Opportunities That May Relate to Advance Areas' Work - Apply Now!

Federal Aviation Administration

Voluntary Airport Low Emissions Program (VALE)

Several airports located in Advance areas are included on a fairly short list of airports that are eligible to apply for funds for low emission vehicles, refueling and recharging stations, gate electrification, and other airport air quality improvements. Advance areas that have eligible airports include **Delaware, Louisville KY, Baton Rouge LA, Minnesota, Butte-Silver Bow MT, Clark County NV, Washoe County NV, Houston TX, El Paso TX, and Yakima WA**. It would be worth encouraging your local airport authority to apply!

Deadline for project proposals: **November 2017**.

More information: <https://www.faa.gov/airports/environmental/vale/>

Centers for Disease Control, Environmental Protection Agency, Forest Service, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, National Park Service, Tall Timbers Research Station

Wildland Fire Sensors Challenge

Do you have ideas on new air pollution measurement strategies for wildfire events? The Wildland Fire Sensors Challenge seeks an accurate, lower-cost and low-maintenance air quality monitoring system that can be used during a wildfire or controlled fire. The data provided will help federal, state, local, and tribal agencies protect the health of first responders and communities affected by smoke. Developers are encouraged to submit prototypes meeting certain criteria. The challenge will award \$60,000 in cash prizes, and laboratory testing reports will be provided to submitters. The maximum prize for a solution meeting all challenge requirements is \$60,000. If no solution meets all requirements, partial awards from \$10,000 - \$50,000 may be given. Prize winner(s) will be selected following the conclusion of judging in summer 2018.

Deadline for written submissions: **November 22, 2017**.

Deadline for prototypes: **January 5, 2018**.

More information: <https://www.challenge.gov/challenge/wildland-fire-sensors-challenge/>

Patagonia

Environmental Grants

This grant opportunity is available to small activist organizations working to protect the environment. Projects must be action-oriented, build public involvement and support, be strategic, focus on root causes, accomplish specific goals and objectives. One proposal per

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group will be accepted each fiscal year (May 1-April 30), and the funding amount will range between \$2,500-\$15,000.

Deadline for applications is **April 30, 2018** and each April 30 thereafter.

<http://www.patagonia.com/grant-guidelines.html>

**Dept. of Transportation, Federal Highway Administration (FHWA)
Accelerated Innovation Deployment (AID) Demonstration**

The FHWA AID Demonstration provides incentive funding for any project activities eligible for assistance under title 23, U.S.C. in any phase of a highway transportation project between project planning and project delivery including planning, financing, operation, structures, materials, pavements, environment, and construction that address the program goals. One of the goals is to improve highway efficiency, safety, mobility, reliability, service life, environmental protection, and sustainability. The notice of funding opportunity requests grant applications and provides selection criteria, application requirements, and technical assistance with Grants.gov during the grant solicitation period. Applications are accepted on a rolling basis. Estimated total funding is \$50 million, with individual awards ranging from \$50,000 to \$1 million.

Deadline for applications is **Sept. 30, 2020**.

More information: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=288651> and <https://www.fhwa.dot.gov/innovation/grants/>. Examples of past projects across the country: <https://www.fhwa.dot.gov/innovation/grants/projects/> (includes dynamic signage for safety and congestion mitigation, geospatial data projects, energy efficient lighting, recycled road materials, etc.)

**Dept. of Transportation, Build America Bureau
Transportation Infrastructure Finance and Innovation Act (TIFIA)**

The Fixing America's Surface Transportation (FAST) Act authorizes \$1.435 billion in capital over five years for the TIFIA credit assistance program; assistance supports critical infrastructure projects with national or regional significance. Letters of interest may be submitted by states and cities for direct loans, loan guarantees, and standby lines of credit. Transit-oriented development (including pedestrian and cycle facilities) and other projects may be eligible for assistance.

Ongoing, on a rolling basis.

Notice of funding availability: <https://www.transportation.gov/tifia/notice-funding-availability>

**Dept. of Energy
Property Assessed Clean Energy (PACE) Program**

PACE is an innovative mechanism for financing energy efficiency, solar, and related improvements on private property. PACE programs allow local and state governments and other inter-jurisdictional authorities, when authorized by state law, to fund the up-front cost of energy improvements on commercial and residential properties, which are paid back over time

by the property owners. PACE financing for clean energy projects is generally based on an existing “land-secured financing district,” or assessment district, where the local government issues bonds to fund projects with a public purpose such as street lights, sewer systems, or underground utility lines. PACE was recently extended to energy efficiency and renewable energy, which allows property owners to implement improvements without a large up-front cash payment. Property owners who opt to participate in a PACE program can repay their improvement costs over a set time period (typically 10-20 years) through property assessments which are secured by the property itself and paid as an addition to the owners’ property tax bills. The repayment obligation may transfer with property ownership depending on state legislation. Residential PACE financing from 2009-2017 totalled \$3.67 billion for 158,000 home upgrades; commercial PACE financing from 2009-2017 totalled \$454 million for 1033 projects. More information: <http://energy.gov/eere/slsc/property-assessed-clean-energy-programs>
List of current PACE programs: <http://www.pacenation.us/resources/all-programs/>

City of Louisville, KY

Cool Roof Rebates

This new rebate program is one way Louisville is combating urban heat island impacts. Property owners who install cool roofs (lighter-colored or reflective materials) are eligible to apply for \$1 for every square foot of roof, up to \$2,000 for a new residential roof. Commercial building owners can receive up to \$5,000 for a flat or low-sloped roof and up to \$10,000 for a steep-sloped roof. Using lighter roofing materials can reduce a roof’s temperature by more than 50 degrees F, and if both surface paving and city roofs were lightened, it could reduce the average daily temperature across the city by one to three degrees.

Ongoing; first come, first served. Another cycle could be funded again next year.

More information: <https://louisvilleky.gov/government/sustainability/incentives>

City of Louisville, KY

Go Green Loan Program

Small businesses can take advantage of a below market rate incentive program aimed at increasing energy efficiency and creating “green” jobs. These loans can be used for energy efficiency upgrades, or businesses creating green products or services.

Ongoing

More information: <https://louisvilleky.gov/government/louisville-forward/local-loan-programs>

Dept. of Agriculture

Rural Energy for America Program (REAP)

USDA is making funding available to help agricultural producers and rural small businesses reduce energy costs and consumption through energy efficiency and renewable energy. The Renewable Energy Systems and Energy Efficiency Improvement Assistance provides grants and guaranteed loans to agricultural producers and rural small businesses to purchase and install renewable energy systems and make energy efficiency improvements to their operations. The

Energy Audit and Renewable Energy Development Assistance grants are designed to evaluate energy efficiency and renewable energy potential. Total program funding may be \$50 million, depending on the amount of funds made available, and the estimated number of awards is 1,000.

Ongoing; although the application deadline for FY17 grants was announced Oct. 18, 2016 and ended March 31, 2017, loan guarantees are competed continuously throughout the year. More information: <https://www.gpo.gov/fdsys/pkg/FR-2016-10-18/pdf/2016-25163.pdf> and <https://www.rd.usda.gov/programs-services/rural-energy-america-program-renewable-energy-systems-energy-efficiency>

Smart Growth America

2017 Federal Financing Toolkit for Transportation-Oriented Development

Includes 90 Federal financing opportunities that are designed to help real estate developers and investors as well as elected officials achieve their development goals. Available free (LOCUS members; LOCUS is a national coalition of real estate developers and investors who advocate for sustainable, equitable, walkable development in metropolitan areas) or purchase (non-members - \$60) here: <https://smartgrowthamerica.org/resources/2017-federal-financing-toolkit/>

State of Utah

Funding Programs and Credits

Opportunities include:

- A clean fuel and vehicle technology grant and loan program for government vehicles and private sector business vehicles, as well as refueling equipment that dispenses a clean fuel,
- A State tax credit for motor vehicles that meet certain air quality and fuel economy standards,
- A State tax credit for the qualified purchase of a natural gas heavy duty vehicle (category 7 or 8 vehicle) that has never been titled or registered, and
- A business assistance program (BizHelp) that provides information about pollution prevention practices, environmental permits, sustainability resources, and the Clean Utah business recognition program.

<http://www.ucair.org/other-funding/>

Southeast Louisiana Clean Fuel Partnership

Clean Fuel Transition Fund for Public Fleets (includes idling reduction)

Funding is available for 80% of the cost to convert an existing vehicle to an alternative fuel vehicle (AFV) including natural gas, propane, electric, or hybrid electric; 80% of the incremental cost difference when purchasing a new AFV; and 80% of the cost of idle reduction technologies

to add to existing or new AFVs. Public fleets in Jefferson, Orleans, St. Bernard, and St. Charles Parishes are eligible.

Ongoing, first come, first served funding available; total amount is \$909,200.

http://cleanfuelpartnership.weebly.com/uploads/1/4/4/8/14487114/rpc_clean_fuel_transition_fund_for_public_fleets_information.pdf

Minnesota Pollution Control Agency

Small Business Environmental Improvement Loan Program

MPCA recognizes that environmental issues often have a significant financial impact on small businesses. This program provides low-interest loans to small businesses to finance environmental projects such as capital equipment upgrades that meet or exceed environmental regulations, and costs associated with the investigation and cleanup of contaminated sites.

Ongoing, throughout the year.

<https://www.pca.state.mn.us/about-mPCA/small-business-environmental-improvement-loan-program>

City of Austin, Texas

Urban Forest Grant

This grant program was established to promote conservation and improvement projects that benefit Austin's urban forest. The program supports projects associated with tree planting, education, public service announcements, award programs, disease control, inventorying, and other related efforts. Individuals, businesses, institutions, homeowners associations, youth groups, and nonprofits may apply.

Ongoing, but should be submitted for review a minimum of 3 months prior to the proposed initiation of the project to allow for sufficient review. Proposals less than \$30,000 may be administratively approved; proposals ranging between \$30,000-\$58,000 require a longer review period.

<http://www.austintexas.gov/page/urban-forest-grant-program>

Louisiana Liquefied Petroleum Gas Commission

Commercial Propane Mower & Automobile Incentives

Propane mower incentives are available to private or public commercial mowing fleets in Louisiana. New dedicated liquified petroleum gas (LPG) mowers and conversions of existing mowers are eligible for \$1,500 per vehicle (new), up to \$800 per conversion, and up to 4 awards and \$5,000 per year per entity.

Ongoing funding opportunity; first-come, first-served.

More information:

<http://www.louisianapropane.com/pdfs/LPGC%20Mower%20and%20Auto%20Incentive%20Guidelines.pdf>

Propane Council of Texas (ProCOT)

Funds for Propane Mowers

ProCOT is offering incentives for newly purchased factory-direct propane commercial mowers or gasoline mowers converted to propane. ProCOT will pay \$1,000 per mower, and applicants are eligible for up to \$7,000 in mower incentive awards per entity throughout the lifetime of the program. Eligible entities include landscapers, parks departments, school districts, universities, businesses, and farmers in Texas that use at least 500 gallons of propane each year. Other eligibility criteria apply.

Ongoing funding opportunity, most recently publicized in 2016; first-come, first-served.

More information:

http://media.wix.com/ugd/1c5584_847aebd0e64b406e95eeffa38ce35986.pdf

<http://www.propanecounciloftexas.org/#!mower-incentives/h5hr2>

Propane Education & Research Council

Funds for Propane Mowers

Launch your propane savings with \$1,000 per qualifying new mower purchase or \$500 per qualifying conversion while funds last.

More information: www.propane.com/mower-incentive and

http://www.propane.com/uploadedFiles/PropaneMain/Propane/Commercial_Landscape/Programs_and_Incentives/Mower_Incentive_Program/Contents/PMIPFlyer.pdf and

<http://www.propane.com/commercial-landscape/programs-and-incentives/propane-mower-incentive-program/>

Propane Vehicle Incentives for Texas (ProCOT)

Propane Vehicle Incentives

Funds are available to private fleets in Texas with three or more vehicles for the purchase of new, factory-direct LPG, engine, and/or aftermarket conversions to propane. Incentives available for the incremental cost between gas/diesel vehicles and a LPG vehicle up to \$7,500, with a \$30,000 perpetual cap per fleet. Other eligibility criteria apply.

Ongoing funding opportunity, most recently publicized in 2016; first-come, first-served.

More information: <http://www.propanecounciloftexas.org/#!fleet-incentives/c1gk3>

http://media.wix.com/ugd/1c5584_98b893c05a584d95990a9dc48dbae376.pdf and

<http://www.propanecounciloftexas.org/fleet-incentives>

Houston-Galveston Area Council, Environmental Protection Agency, Environmental Defense Fund and Port of Houston Authority

Drayage Loan Program

Funds to reduce emissions from diesel-powered heavy-duty port (drayage) trucks by replacing older, dirtier trucks with newer, cleaner models. Targeting truck owners and distribution operators that conduct business at Houston-area ports, this program provides financing for the difference between the cost of a new truck and the amount of grant funding the owner

receives from state and regional grant program. The program has replaced over 200 trucks and reduced Houston-area NOx pollution by over 150 tons since 2010.

Ongoing funding opportunity.

More information: <http://www.mysolutionis.com/fleet-resources/dravage-loan-program/default.aspx>
<http://www.h-gac.com/taq/airquality/dravage-loans.aspx>

South Central Kansas Economic Development District Kansas Weatherization Assistance Program

This program provides housing improvements that increase energy efficiency in income-eligible, single- or multi-family dwellings in certain counties in Kansas, including Segwick and Sumner (Wichita Advance area).

Ongoing funding opportunity.

<http://www.sckedd.org/grants/weatherization-grant>

Dept. of Energy

Low Income Housing Energy Assistance Program (LIHEAP)

Assuming funding is authorized, this opportunity may be of particular interest to Advance areas that are interested in energy efficiency programs and/or that have concerns about wood smoke. LIHEAP has provided assistance to families for costs associated with home energy bills, energy crises, and weatherization and energy-related minor home repairs. LIHEAP has provided, on average, more than \$3 billion a year to communities and includes a provision that allows grantees to access 15-25% of their annual funding for low cost weatherization and energy efficiency improvements. HHS and DOE have offered technical assistance to LIHEAP grantees to increase their ability to use their funding to support the deployment of renewable energy.

Ongoing funding opportunity.

<http://www.acf.hhs.gov/ocs/programs/liheap/about>

LIHEAP webinar recordings: <http://www.acf.hhs.gov/ocs/resource/liheap-trainings>

Dept. of Energy

SolSmart Technical Assistance – Nationally Distinguished, Locally Powered

SolSmart is a national recognition and a no-cost technical assistance program for local governments. The program is designed to drive greater solar deployment and help make it possible for more homes and businesses to access affordable and renewable solar energy to meet their electricity needs. SolSmart experts will design personalized action plans for communities that outline a path to designation as a SolSmart community, along with a rough timeline. SolSmart is federally funded for a three-year period, but is expected to persist beyond this timeframe. Stakeholder and community benefits are described on the program website. Several Advance areas have SolSmart designations, i.e.: **Oklahoma City OK** (bronze), **Duluth MN** (silver), **Minneapolis MN** (gold), **St. Paul MN** (gold), **Austin TX** (gold), **El Paso TX** (gold), **San**

Antonio TX (bronze), **Charleston County SC** (gold), **Kansas City MO** (gold), **Louisville KY** (gold).

Eight Minnesota and two Iowa communities are working together to achieve SolSmart designation by the end of Oct. 2017; a “fast track” to bronze process is now available as described in this article: <http://www.cleanenergyresourceteams.org/blog/reducing-barriers-solar-greater-minnesota-through-solsmart>.

Ongoing technical assistance opportunity.

<http://www.gosparc.org/>

Sunnova

Zero Money Down Solar Program

Sunnova, a provider of residential solar services, has expanded its EZ Own Plan program, which allows customers to purchase solar power systems with no down payments or maintenance fees. Sunnova customers may be located in Advance areas in **New Mexico, South Carolina, and Texas**.

Ongoing loan program.

<http://www.sunnova.com/service/solar-as-a-service/our-plans/ez-own/>

National Park Service and Clean Cities

National Parks Initiative

Supports transportation projects that educate park visitors on the benefits of cutting petroleum use and vehicle emissions. Since 2010, 35 projects have deployed alternative fuel and fuel-efficient vehicles to the road, reduced vehicle idling, and improved vehicle efficiency. Four of these projects were located in Advance areas, i.e. **Minnesota** (installed 12 electric vehicle charging stations at 11 sites), **Springfield, MO** (added a propane truck, four propane lawnmowers, and propane refueling infrastructure to park fleet), **San Antonio, TX** (replaced two gas-powered trucks with propane-fueled trucks, installed two electric vehicle charging stations and a propane vehicle refueling site), and **Kansas City** (replaced a gas-powered truck and mower with propane-fueled truck and mower, launched an idle-reduction education and outreach initiative).

Ongoing opportunity. To learn more and to propose new projects for funding, go to:

<https://cleancities.energy.gov/national-parks/>

The Fruit Tree Planting Foundation (FTPF)

Orchard Donation Program

FTPF is a nonprofit charity dedicated to planting fruit trees and plants to alleviate world hunger, combat global warming, strengthen communities, and improve the surrounding air, soil, and water. FTPF programs strategically donate orchards where the harvest will best serve communities for generations, at places such as community gardens, public schools, city/state parks, low income neighborhoods, and Native American reservations.

Ongoing opportunity; applications accepted on a rolling basis.

<http://www.ftpf.org/apply.htm>

Recently Awarded Funds/Technical Support/Recognition – Advance Area

Recipients

Dept. of Energy

Property Assessed Clean Energy (PACE) Program

The St. Paul Port Authority's MinnPACE program recently secured over \$6.7 million in PACE financing for energy efficiency upgrades as part of a conversion from vacant retail space into a mixed-use space. The project is expected to save 40-60% of the center's energy costs, decreasing from \$1.2 million per year to between \$480,000-\$720,000 per year. **Minnesota** is an Advance participant.

http://pacenation.us/state-hockey-goes-wild-pace-financing/?utm_source=PACENation+newsletter&utm_campaign=9b18481c06-Aug_newsletter&utm_medium=email&utm_term=0_834a7b4685-9b18481c06-119370253&mc_cid=9b18481c06&mc_eid=f0ae618b93 pace

Environmental Protection Agency, Office of Transportation and Air Quality

Travel Efficiency Assessment Method (TEAM) Support

Travel efficiency strategies are emission reduction strategies that affect travel activity, such as travel demand management (e.g., telecommuting, transit subsidies), public transit fare changes and service improvements, road and parking pricing, and land use/smart growth. **Lake Charles, LA** was one of the areas selected to work with EPA as part of a pilot program to analyze travel efficiency strategies.

<https://www.epa.gov/state-and-local-transportation/estimating-road-greenhouse-gas-emissions>

Environmental Protection Agency, Office of Air Quality Planning and Standards

Air Quality Flag Program

Current statistics have been gathered for flag program participants; as of June 2017 1,154 schools and organizations in 40 states are participating in the program; Advance program areas are well represented. Participants are recognized on the program website and are displayed on a new story map: https://gispub.epa.gov/OAR_OAQPS/FlagProgram/

To register a new program:

<https://www.airnow.gov/index.cfm?action=airnow.schoolflagprogram>

Environmental Protection Agency, Office of Transportation and Air Quality

Kickoff of EPA Capacity Building Pilot – New Orleans

New Orleans, an Advance area, was the site of a series of meetings involving the Port of New Orleans and near-port community organizations at the inaugural Near-port Community Capacity Building Pilot Project in April 2017. Technical assistance is being provided by EPA to

support effective engagement between ports and nearby communities and to promote development of collaborative solutions.

Capacity building tools: https://www.epa.gov/ports-initiative/near-port-communities?utm_source=Ports+Initiative+Newsletter+April+2017+Final+Correction&utm_campaign=Ports+Initiative+Newsletter+April+2017+Correction&utm_medium=email

Pilot projects webpage: https://www.epa.gov/ports-initiative/pilot-projects-port-and-near-port-community-collaboration?utm_source=Ports+Initiative+Newsletter+April+2017+Final+Correction&utm_campaign=Ports+Initiative+Newsletter+April+2017+Correction&utm_medium=email

Smart Growth America

Technical Assistance Workshops

Smart Growth America will be conducting workshops on a variety of topics in Advance areas – in **Tulsa, OK** on July 18-19 (Foundations of Smart Growth workshop), **Denver, CO** and **Greenville, SC** on Aug. 29-31 and Nov. 14-16 (Amazing Place Ideas Forum – exploring place-based economic development; includes leaders from **Columbia, SC, Macon, GA, and Wichita, KS**, among others), **St. Paul, MN** on Sept. 13-15 (National Walking Summit).

<https://wsmartgrowthamerica.org>

Smart Growth America, Transportation for America

Technical Assistance with Transportation Performance Measures

Six metro areas were selected in April 2017 to receive in-depth, hands-on assistance with transportation performance measures; these include two Advance partners (the Imperial Calcasieu Regional Planning and Development Commission in **Lake Charles/Southwest Louisiana** and the Rapides Area Planning Commission in **Alexandria/Pineville, Louisiana**). These areas will receive assistance over the coming year that will help them better measure and assess their transportation spending to bring the greatest return for their residents. In addition to meeting the new federal requirements related to measures, these areas will develop measures that address their other goals such as improving public health, supporting social equity, increasing access to jobs and other services, etc.

<http://www.t4america.org/2017/04/20/six-metro-areas-selected-receive-depth-hands-assistance-performance-measures/>

Smart Growth America and John S. and James L. Knight Foundation

The Amazing Place Ideas Forum

Leadership teams from five communities (including three Advance areas – **Columbia SC, Macon GA and Wichita KS**) have been selected to participate in the 2017 Amazing Place Ideas Forum. The teams will be brought together in August and November 2017 to build common understanding, a sense of purpose, a plan of action, and a committed network to help participants bring smart growth strategies back to their home cities.

<https://smartgrowthamerica.org/announcing-the-amazing-place-ideas-forum-two-cities-five-communities-unlimited-ideas/>

Wichita, KS Amazing Place efforts: <https://smartgrowthamerica.org/wichita-ks-business-becoming-amazing-place/>

Federal Transit Administration

FY16 Low or No-Emission (Low-No) Bus Program Projects

Twenty transit providers around the nation were awarded a total of \$55 million for transit buses and related technology that replaces aging diesel fuel buses with battery-electric or fuel cell-powered vehicles. Three providers in Advance areas will receive approximately \$10 million total through this grant program, i.e. **Delaware** (Delaware Transit Corp. in Dover will purchase all electric buses and charging infrastructure that will include en-route fast-charging stations and depot plug-in chargers), **Shreveport LA** (the City will purchase zero emission electric buses, depot chargers, and an en-route fast charger; the buses will use an overhead fast charger located at a new central intermodal facility for range extension), and **South Carolina** (Clemson Area Transit will purchase zero emission battery electric buses that will replace aging diesel buses).

<https://www.transit.dot.gov/funding/grants/fiscal-year-2016-low-or-no-emission-low-no-bus-program-projects>

Transportation for America

Complete Streets Policies

Complete Streets policies were passed by 222 communities in 2016; see web link below for a subset of these areas. At least six Advance areas encompass cities/towns that passed new policies in 2016; these would be worth noting in the areas' Advance updates this year. They include: **New Orleans** (St. Bernard Parish), **Minnesota** (Hawley, Minneapolis, and MN DOT), **Springfield, MO** (Pineville), **Hampton Roads, VA** (Norfolk), **Kittitas County, WA** (Cle Elum, Ellensburg), and **Yakima, WA** (Moxee, Naches, Tieton, Yakima). Complete Streets are designed to enable safe access for all users, including pedestrians, bicyclists, motorists, and transit riders of all ages and abilities. Complete Streets requirements/policies can improve air quality by reducing congestion and promoting alternative forms of transportation.

<https://smartgrowthamerica.org/2016-communities-in-the-running/>

Training and Resources

(1) GENERAL

Environmental Protection Agency Webinars

Updated EJSCREEN Environmental Justice Screening and Mapping Tool – Aug. 21 3pm EST, Sept. 7 1pm EST, Sept. 14 4pm EST

EPA updates the EJSCREEN tool annually; a newly updated version is now available. The updated version uses the most up to date demographic and environmental data and responds

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to feedback from users. Highlights include (1) a revised water data layer that improves the ability to screen for potential for surface water pollution, (2) the ability to look at municipalities as distinct geographic areas in addition to states, counties, and census boundaries, and (3) new map layers including schools and public housing.

Aug. 21 webinar – register [here](#)

Sept. 7 webinar – register [here](#)

Sept. 14 webinar (focused on the revised water indicator) – register [here](#)

More information on EJSCREEN: www.epa.gov/ejscreen

National Institutes of Health (NIH) Webinar

Community-Based Air Monitoring – August 24, 2017, 12:30-2pm EST

Residents in communities are often curious about the quality of the air they breathe and how it may affect health. While many locations have air monitors, those monitors are sometimes not in communities of concern. With the advent of smaller, low-cost sensors, residents have become increasingly engaged in monitoring the air quality in their neighborhoods so as to understand and reduce potential health risks. This webinar will highlight two community-based air monitoring projects; the presenters will discuss their approaches, the benefits of those approaches, and future opportunities.

To register:

<https://nih.webex.com/nih/onstage/g.php?MTID=e60c698c12471539bb7104fca9a7a2667>

Environmental Protection Agency Webinars

National Ambient Air Quality Standards – Aug. 30, 2017 1-2:30pm EST

EPA is hosting a three-part webinar series on the NAAQS for communities. Under the Clean Air Act (CAA), EPA is required to set the NAAQS and review the standards every five years for six common air pollutants (ground-level ozone, particulate matter, carbon monoxide, lead, sulfur dioxide, and nitrogen dioxide).

Webinar #1: NAAQS 101 - This session occurred on June 27 and provided a general overview of the CAA and how the NAAQS are set, reviewed & revised and why this is important to the community.

Webinar #2: NAAQS – Designations - This session occurred on July 25 and discussed the designations process, the different categories (i.e., attainment, nonattainment, and unclassifiable), what it means if your area does not meet the NAAQS and what role the community can play in the designations process.

Webinar #3: NAAQS – Implementation - This session will discuss how to attain and maintain the NAAQS and what role the community can play in the implementation process.

- Wednesday, **August 30, 2017**, 1:00 -2:30 PM EST
- Participant Dial-in Number: (800) 309-5450
- Conference ID: 30986885

- Webinar Link: <https://epawebconferencing.acms.com/naaqs-implement>

How to Participate: You do not need to register in advance for these webinars. To participate, simply click on the webinar link at the date and time shown above. Audio for the webinar will be delivered through the phone line. To Join a Webinar: click on the link and then:

1. Click "Enter as a Guest"
2. Type in your first & last name and organization
3. Click "Enter Room"

If you have never attended an Adobe Connect meeting before, test your connection beforehand:

http://epawebconferencing.acms.com/common/help/en/support/meeting_test.htm

We look forward to your participation and encourage you to share this invitation with others in your community who may be interested. Information about the NAAQS can be found at:

<https://www.epa.gov/criteria-air-pollutants> and <https://www.epa.gov/criteria-air-pollutants/process-reviewing-national-ambient-air-quality-standards>.

Environmental Protection Agency

BenMAP Quarterly Webinar – Sept. 5, 2017 11am EST

This online meeting is an opportunity to learn about the features of the Environmental Benefits Mapping and Analysis Program - Community Edition (BenMAP-CE) software and receive answers to questions. This month, presentations will include using BenMAP-CE to estimate human health and economic impacts of ozone reductions by income group and the use of BenMAP-CE to estimate wildfire smoke health costs associated with a southwestern US “mega fire.”

To register: <https://register.gotowebinar.com/register/2338627532159695361>

Environmental Protection Agency

National Air Quality Conference – September 11-13, 2017, Austin, TX

This annual conference is an opportunity for air quality professionals from federal, state, local and tribal air pollution organizations, metropolitan and regional planning organizations, environmental and research organizations, and industry representatives to learn the latest information on air quality forecasting and mapping, air quality and your health, and innovative outreach programs. Two tracks will feature air quality forecasting and mapping, and communicating air quality.

Register and view draft agenda: <https://projects.erg.com/conferences/airquality/2017/register-air17.asp>

AirNow website: <https://www.airnow.gov/>.

Questions about registration and logistics: 781-674-7260 or erin.pittorino@erg.com, subject line: National Air Quality Conference.

Environmental Protection Agency

Archived Webinars

Advance Program Webinar Recordings: <https://www.epa.gov/advance/webinars-and-training>
Environmental Benefits Mapping and Analysis Program – Community Edition (BenMAP-CE) Webinar Recordings: <https://www.epa.gov/benmap/benmap-ce-applications-articles-and-presentations#presentations>

Environmental Protection Agency

Updated Avoided Emissions and geneRation Tool (AVERT)

New features include: (1) added PM2.5 emissions to the outputs, which already include NOx, SO2, and CO2, (2) added 2016 regional data files, (3) modified all regional data files from 2007 to 2016 to reflect net rather than gross electricity generation, (4) updated the statistical module to be compatible with the updated regional data files.

Download the latest version here: <https://www.epa.gov/statelocalenergy/download-avert>

Federal Grants.gov System

Free Online Resources for Federal Grant Applicants

The Grants.gov system houses information on over 1,000 Federal grant programs. The Community Blog features resources that may be helpful as you navigate the process to apply for a grant. Resources available through the Community Blog include: where to find free online resources for Federal grant applicants, grant writing basics, #FundingFriday blog series, and grants learning center. In addition, the Introduction to Grants.gov Video Series covers the complete application process, from registering and creating a Grants.gov account to finding funding opportunities and completing an application package.

<https://blog.grants.gov>

Environmental Protection Agency Webinar Recordings

EPA Grants Award Process

EPA's Office of Grants and Debarment periodically hosts webinars for the EPA grants community. If you are interested in applying for EPA grants or are currently managing an EPA grant, please consider listening to recent webinar recordings which cover how to find and apply for grants, EPA's Grants.gov requirement, and preparing a proper budget detail.

<https://www.epa.gov/grants/epa-grants-award-process-webinars>

Environmental Protection Agency

Ozone Designations Mapping Tool

EPA designed a mapping tool to assist air quality planners with designations for the 2015 ozone NAAQS; the tool provides features that may be of interest to Advance areas as well. These

include air quality data and trends, emissions data, source and monitor locations, population by county and Census tract, etc.

Ozone Designations Mapping Tool and explanatory webinar: <https://www.epa.gov/ozone-designations/ozone-designations-guidance-and-data> (bottom of page)

Environmental Protection Agency

Office of Research and Development

The Health Impact Assessment Resource and Tool Compilation

The HIA is a comprehensive list of resources and tools that can be used as a guide through the health impact assessment process.

https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=334197&simpleSearch=0&showCriteria=2&searchAll=health+impact+assessment&TIMSType=&dateBeginPublishedPresented=02%2F14%2F2015

Sustainable City Network

Live and Online Training Opportunities

Courses on a variety of sustainability topics are available, along with a library of on-demand videos, many of which can be accessed free of charge.

http://www.sustainablecitynetwork.com/topic_channels/policy/article_e7d69ebe-cab9-11e5-b943-3b976faba2e1.html?utm_source=SCN+InBox+e-Newsletter&utm_campaign=400488c333-Newsletter+2-3-2016+Muni&utm_medium=email&utm_term=0_11e7ac761c-400488c333-188859017&mc_cid=400488c333&mc_eid=76907d0b36

Free downloadable webinars include topics such as measuring sustainability, green infrastructure (cutting energy costs in wastewater treatment), energy efficient lighting retrofits, design guidelines for transit supportive communities, and sustainability efforts in a number of cities (including several Advance areas – **Dubuque, IA, Austin, TX, Las Vegas, NV**):

http://www.sustainablecitynetwork.com/webinars/?utm_source=SCN+InBox+e-Newsletter&utm_campaign=821ce3e4f3-SCN+Newsletter&utm_medium=email&utm_term=0_11e7ac761c-821ce3e4f3-188859017&mc_cid=821ce3e4f3&mc_eid=76907d0b36

(2) MOBILE SOURCES

North American Council for Freight Efficiency

Run on Less Campaign

This competition will demonstrate how Class 8 trucks can achieve the best fuel economy possible based on driver skill and a range of commercially available technology applications. The Run on Less competition will feature six to ten Class 8 trucks that will kick off from multiple locations across the U.S. and culminate at the North American Commercial Vehicle inaugural show in Atlanta, taking place **Sept. 24-28, 2017**. Driver progress, as well as dollars saved and

August 21, 2017

emissions reduced, will be tracked and reported in real time via www.runonless.com. For more information, including sponsorship or applying to join in the race, visit the website.

Smart Growth America

Federal Funding Options for Transportation Oriented Development

July 2017 webinar recording: <https://todresources.org/blog/recorded-federal-tod-financing/>

For a copy of the LOCUS Federal Financing Toolkit providing information about the 90 federal programs that support community development, environment, housing, transportation, brownfields, and rural development, contact the LOCUS team at

locus@smartgrowthamerica.org.

Federal Transit Administration

Funding Options for Bicycle-Related Programs

<https://www.transit.dot.gov/regulations-and-guidance/environmental-programs/livable-sustainable-communities/fta-program-bicycle>

Federal Highway Administration

Bicycle and Pedestrian Program - Guidance for State and Local Governments

https://www.fhwa.dot.gov/environment/bicycle_pedestrian/guidance/index.cfm

Smart Growth America

Images Available for Use

Flickr photo galleries are available for use; these include photos related to transit oriented development (TOD), supporting businesses, walkability, and community engagement. The galleries are Creative Commons licensed and ready to be shared. The galleries currently include images from a variety of areas including two Advance areas, **Twin Cities, MN** and **Greenville, SC**. <https://www.flickr.com/photos/152112533@N04/galleries>

Environmental Protection Agency

Recommendations for Constructing Roadside Vegetation Barriers to Improve Near-Road Air Quality

This report summarizes research on the best practices for building roadside vegetative barriers to improve air quality. These recommendations can be used by states, communities and individuals interested in reducing roadside pollution. <https://www.epa.gov/air-research/recommendations-constructing-roadside-vegetation-barriers-improve-near-road-air-quality>

Environmental Protection Agency, Smart Growth Program

Infrastructure Financing Options for Transit-Oriented Development

https://www.epa.gov/sites/production/files/2014-02/documents/infrastructure_financing_options_for_transit-oriented_development.pdf

**Environmental Protection Agency, Office of Transportation and Air Quality
Resources for Ports and Surrounding Communities**

Ports Initiative

Includes technical resources, news links, resources for collaboration, best practices for port operations, funding sources, educational events and more!

<https://www.epa.gov/ports-initiative>

Shore Power Technology Assessment

Includes an assessment of shore power at U.S. ports and a calculator for estimating emissions benefits: these resources can be used for DERA projects. Shore power typically produces zero onsite emissions and can be used by marine vessels to plug into the local electricity grid and turn off auxiliary engines while at dock.

https://www.epa.gov/ports-initiative/shore-power-technology-assessment-us-ports?utm_source=Ports+Initiative+Newsletter+April+2017+Final+Correction&utm_campaign=Ports+Initiative+Newsletter+April+2017+Correction&utm_medium=email

Primer for Communities – New Website

This new web area provides guidance to near-port communities interested in becoming more involved in decisions that may impact local land use, the environment and quality of life. The Ports Primer pages are intended to help community members participate effectively in decision-making processes.

https://www.epa.gov/ports-initiative/draft-ports-primer-communities-2?utm_source=Ports+Initiative+Newsletter+February+2017+Final&utm_campaign=Ports+Initiative+Newsletter+February+2017&utm_medium=email

**American Trucking Research Institute (ATRI), National Assn. of Truck Stop Operators (NATSO),
American Trucking Assns.**

“Park My Truck” Mobile App

A new, free mobile app is available to help commercial truck drivers, fleets, and others identify available parking. Truck parking providers can establish an account to share parking availability information by contacting the NATSO Foundation at (703) 549-2100 or

hello@parkmytruck.com.

Dept. of Transportation and Smart Growth America

Transit-Oriented Development (TOD) Technical Assistance

This website provides information about TOD projects, including a data base of research, information about funding/financing options for projects, and opportunities for professionals to connect. <https://TODresources.org>

Environmental Protection Agency

SmartWay Program

More than 500 companies joined SmartWay in 2016. This included nearly 350 carriers, more than 150 logistics and shipper companies, and several affiliate organizations that share a goal for cleaner, more efficient freight. The program is a public-private partnership that provides tools to assess freight activity and incentives to improve the efficiency and environmental performance of how your goods move. More information: <https://www.epa.gov/smartway>
Upcoming and recorded webinars: <https://www.epa.gov/smartway/smartway-webinars-events>

Dept. of Energy

Vehicle Technologies Office

Idle reduction resources, including a savings calculator, locations of electrified parking spaces, status of the weight exemption for idling reduction devices, back issues of the National Idling Reduction Network News, IdleBox (an electronic, modular toolkit to facilitate idling reduction outreach and implementation), IdleBase (a database of idling regulations for all classes of on-road vehicles), and the Alternative Fuels Data Center idle reduction page.

<https://energy.gov/eere/vehicles/vehicle-technologies-office-idle-reduction>

Transportation for America Reports, Mapping Tools, Books, Other Resources

Information about innovative transportation policies states can consider, funding and policy resources, case studies and lessons learned, etc.

<http://transportationforamerica.org/maps-tools/>

Guidebook for innovative Metropolitan Planning Organizations: <http://t4america.org/maps-tools/the-innovative-mpo/>

Support for bus rapid transit projects: <http://transportationforamerica.org/2016/01/12/new-study-finds-positive-economic-development-benefits-associated-with-bus-rapid-transit-projects/>

The report includes a review of several existing BRT systems, including those in Advance areas **Las Vegas, NV** and **Kansas City, MO**.

Case studies on prioritizing public health to build prosperous regions:

<http://t4america.org/maps-tools/mpo-case-studies/>

(3) ENERGY EFFICIENCY, RENEWABLE ENERGY

Environmental Protection Agency, ENERGY STAR Webinars

Portfolio Manager: Ask the Expert, August 23, 30, 2017 at 12 EST

Each Wednesday, the ENERGY STAR program holds a live webinar that gives all Portfolio Manager users an opportunity to ask questions.

To register: <https://esbuildings.webex.com/mw3100/mywebex/default.do?siteurl=esbuildings>

Environmental Protection Agency, ENERGY STAR Webinars

Portfolio Manager 101, 201, 301, at 1pm EST – Aug. 22 (201), Aug. 29 (301), 2017

Learn about EPA's ENERGY STAR Portfolio Manager tool. The 101 level presentation introduces the core functionality of the Portfolio Manager tool. The 201 level presentation will be a deeper dive into functionalities such as editing property data, correcting/updating property use details, using the data quality checker, and sharing property data. The 301 level presentation will discuss advanced features such as using spreadsheet upload templates to update property data, setting goals and targets to plan energy improvements for properties, creating custom reports, and using the Sustainable Buildings Checklist. To register for any/all of the sessions:

<https://esbuildings.webex.com/mw3100/mywebex/default.do?siteurl=esbuildings>

Portfolio Manager overview: www.energystar.gov/benchmark

Environmental Protection Agency, ENERGY STAR Webinars

Track Electric Demand with EPA's Portfolio Manager, August 24, 2017 1pm EST

Learn about Portfolio Manager's newest enhancement, electric demand tracking. Many utilities establish billing rates based on a property's highest measured demand, relative to when the utility experiences overall peak demand on their system. Better understand your buildings' demand rates and costs can inform energy management strategies and lead to reduced utility costs.

To register: <https://esbuildings.webex.com/mw3200/mywebex/default.do?siteurl=esbuildings>

Dept. of Energy, Office of Indian Energy Webinar

Expanding Tribal Energy Development Through Partnerships: Powering Your Community with Tribal Energy, August 30, 2017, 11am EST

Developing an energy project involved many different parties, including utilities, government agencies, developers, grid operators, and financing parties. Speakers will address the steps to developing a 1 to 2- megawatt energy project located on property owned or controlled by a tribe to serve the energy needs of the tribal community. These steps include identifying an economically feasible site or building structure, assessing the environmental regulations impacting the project, determining the local, state, and federal permits required to construct and operate the project, selling the electricity produced, leveraging government incentives, and determining how the project will be connected to the grid, operated, maintained, and utilized to the fullest benefit of the tribe.

To register: <https://register.gotowebinar.com/register/3497678808812707843>

Midwest Renewable Energy Association

28th Annual Energy Fair, St. Paul, MN – Sept. 9-10, 2017

Free access to workshops and exhibits.

More information: https://www.theenergyfair.org/?mc_cid=3a0c71593d&mc_eid=7982cab0f0

Univ. of Minnesota; Minnesota Energy Storage Alliance

2017 Midwest Energy Storage Summit, Minneapolis, MN – Sept. 15, 2017 7:30am-6pm CST

The Summit will include over 300 participants from throughout the midwest representing the energy industry, public sector, academia, and nonprofits. The event is open to the public, with registration.

More information: http://www.cleanenergyresourceteams.org/event/2017-midwest-energy-storage-summit?mc_cid=3a0c71593d&mc_eid=7982cab0f0

Environmental Protection Agency, ENERGY STAR Webinars

10-Minute Takes from ENERGY STAR Partners, Nov. 14, 2017 1pm EDT

Join us to hear 10-minute case studies from ENERGY STAR commercial real estate partners. Hear their take on why they focused on waste, what they did, and how it worked. Gain ideas you can implement in your organization to cut waste and improve sustainability.

To register: <https://esbuildings.webex.com/mw3200/mywebex/default.do?siteurl=esbuildings>

Dept. of Energy, Office of Indian Energy

No-Cost Technical Assistance for Tribes

DOE provides federally recognized Indian tribes, tribal energy resource development organizations, and other organized tribal groups and communities with technical assistance to advance tribal energy projects. Technical assistance may relate to energy planning, housing and building energy efficiency, project development, policy and regulation, resilience, and village power.

More information: <https://energy.gov/indianenergy/technical-assistance/request-technical-assistance>

Dept. of Energy

Better Buildings Financing Navigator

Use this website to explore energy efficiency financing options and see how they compare to each other, and connect with financial allies who can finance your projects.

Website: <https://betterbuildingsolutioncenter.energy.gov/financing-navigator/>

Dept. of Energy

State and Local Energy Data (SLED) Website

This new website provides planning tools for cities. Provides city-specific data for 23,400 cities across the U.S., including estimates of electricity and natural gas use and costs by sector, energy market profiles that provide data on fuel types, and the fuel economy of vehicles registered in each city. The profiles also provide an estimate of vehicle fuel consumption, vehicle miles traveled, rooftop solar energy potential for small buildings, a building stock characterizations, and a snapshot of the top energy consuming industries in each city.

The website also includes a local energy toolbox, where communities can access a customizable list of actions to help make strategic energy decisions. The more than 500 searchable resources

in the toolbox are technology-neutral, actionable energy strategies based on the energy activities cities are currently pursuing.

<http://apps1.eere.energy.gov/sled/#/>

Dept. of Energy

Building Energy Software

The Building Energy Asset Scoring Tool (the Asset Score) generates a simple energy efficiency rating that enables comparison among commercial and multifamily residential buildings, helps identify building energy improvement opportunities and can reduce utility expenses.

More information: <http://energy.gov/eere/buildings/building-energy-asset-score> and <http://www.energymanagertoday.com/does-building-energy-asset-score-platform-a-useful-first-step-to-efficiency-0122941/>

Dept. of Energy, Office of Energy Efficiency & Renewable Energy

Five Things You Should Know About Geothermal Heat Pumps

<https://energy.gov/eere/articles/5-things-you-should-know-about-geothermal-heat-pumps>

Dept. of Energy

Better Buildings Initiative

Better Buildings Solution Center:

https://betterbuildingssolutioncenter.energy.gov/search?f%5b0%5d=field_sector%3A39

Energy Data Accelerator Resources Toolkit: A compilation of case studies, guidance and real-world best practices adopted by cities and utilities to help building owners measure and track energy use, and benchmark the energy performance of their buildings.

<http://betterbuildingssolutioncenter.energy.gov/toolkits/energy-data-access-blueprint-action> and <http://energy.gov/eere/articles/energy-department-announces-publication-better-buildings-energy-data-accelerator>

Local Governments - Energy Efficiency Savings at Courthouses:

<https://betterbuildingsinitiative.energy.gov/beat-blog/verdict-local-governments-look-courthouses-energy-efficiency-savings>

(4) GREEN INFRASTRUCTURE

Some green infrastructure programs (tree planting, green roofs, etc.) can result in air quality benefits and would be worth noting in Advance plans.

Forest Service, National Urban Forest Technology & Science Delivery Team Webinars (Topics TBD) Sept. 13, and Oct. 11, 2017 1-2:15pm EST

To register: https://www.fs.fed.us/research/urban-webinars/?utm_source=May+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email&utm_source=May1+Urban+Forest

[+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email](#)

CitiesAlive

15th Annual Green Roof & Wall Conference, Seattle, WA Sept. 13-21, 2017

This conference will highlight resilience techniques such as green roofs and walls; content will be specific to the Pacific Northwest.

<https://citiesalive.org/>

Environmental Protection Agency

Water Finance Clearinghouse

This database contains information about an array of resources and funding options, some of which relate to green infrastructure projects.

[https://ofmpub.epa.gov/apex/wfc/f?p=165:1::::](https://ofmpub.epa.gov/apex/wfc/f?p=165:1:::)

Environmental Protection Agency

Green Infrastructure Program

Green Infrastructure Wizard (GIWiz):

This interactive web application connects communities to a wealth of tools and resources to help manage stormwater runoff. <https://cfpub.epa.gov/giwiz/>

Webinar Recordings:

<https://www.epa.gov/green-infrastructure/green-infrastructure-webcast-series>

Soak Up the Rain Outreach Tools: <https://www.epa.gov/soakuptherain/soak-rain-ready-use-outreach-tools>

Watershed Management Optimization Support Tool (WMOST): This tool can be used to screen a wide range of potential water resources management options for cost effectiveness as well as environmental and economic sustainability. <https://www.epa.gov/exposure-assessment-models/wmost>

Green Infrastructure in Parks: A Playbook for Collaboration, Funding, and Community Engagement: <https://www.epa.gov/nps/green-infrastructure-parks>

Environmental Protection Agency

Water Finance Clearinghouse

The Clearinghouse is an easily navigable web-based portal to help communities locate information and resources that will assist them in making informed decisions for their water-related needs, including stormwater/green infrastructure projects. Two searchable data sets are available, one focused on funding sources and the other containing resources such as reports, tools, webinars, etc., on financing mechanisms.

<https://www.epa.gov/waterfinancecenter/water-finance-clearinghouse>

Environmental Protection Agency

Office of Research and Development

EPA's EnviroAtlas provides users with interactive tools, geospatial data, and resources for exploring the benefits people receive from nature, also known as ecosystem goods and services. Such benefits are critically important to health and well-being, but are easy to overlook due to a lack of information. The EnviroAtlas resources help fill this information gap.

<https://www.epa.gov/enviroatlas>

Dept. of Agriculture Webinar Recordings

Urban Forest Connections

This webinar series brings experts together to discuss the latest science, practice, and policy on urban forestry and the environment.

<https://www.fs.fed.us/research/urban-webinars/>

U.S. Forest Service Resources

Data and Decision Tools

Includes the i-Tree software suite, the urban tree canopy assessment, the Stewardship Mapping and Assessment Project, and a Tree Carbon Calculator, among other things.

https://www.fs.fed.us/research/urban/tools.php?utm_source=April+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

Urban Watershed Forestry Manual

Part 1: Methods for Increasing Forest Cover in a Watershed -

https://www.treesearch.fs.fed.us/pubs/19916?utm_source=Copy+of+January+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

Part 2: Conserving and Planting Trees at Development Sites -

https://www.treesearch.fs.fed.us/pubs/19936?utm_source=Copy+of+January+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

Part 3: Urban Tree Planting Guide -

https://www.treesearch.fs.fed.us/pubs/10500?utm_source=Copy+of+January+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

i-Tree Hydro

Simulates the effects of changes in urban tree cover and impervious surfaces on the hydrological cycle.

http://www.itreetools.org/hydro/index.php?utm_source=Copy+of+January+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

**Georgetown Climate Center
Green Infrastructure Toolkit**

Designed to help local governments find the resources and examples that are most helpful to them. The toolkit analyzes common trends in the approaches cities are taking to planning, implementing, and funding green infrastructure to manage stormwater. The kit contains a variety of resources including best practices information, financing strategies and sources of funding, communication strategies, etc.

<http://www.georgetownclimate.org/adaptation/toolkits/green-infrastructure-toolkit/introduction.html>

**Environmental Protection Agency
Smart Growth Program – “City Green: Innovative Green Infrastructure Solutions for
Downtowns and Infill Locations”**

This report is a collection of 12 case studies of projects in cities overcoming challenges to implementing green infrastructure. Potential benefits of green infrastructure include reduced municipal water use, reduced ozone and PM, reduced air temperatures in developed areas, and reduced energy use.

https://www.epa.gov/sites/production/files/2016-06/documents/city_green_0.pdf

(5) HEAT ISLAND

**Environmental Protection Agency Webinar
Understanding Your City’s Heat Island: Considerations and Approaches, Sept. 7, 2017 2-3:30pm EST**

How can you tell if your city is an urban heat island? Where are the “hot spots” and cooler areas within the city? Do your vulnerable populations tend to live in warmer neighborhoods? More and more communities across the U.S. are asking these questions. This webinar will explore approaches to conducting a heat island assessment, starting with overarching considerations to guide the study design and finishing with case studies of two cities that have used different methods to characterize their heat islands.

To register: <https://register.gotowebinar.com/register/9214186001952973571>

**Environmental Protection Agency Webinar Recordings
Heat Island Program**

<https://www.epa.gov/heat-islands/heat-island-webcasts>

Trust for Public Land and Urban Climate Lab at Georgia Institute of Technology

The Benefits of Green Infrastructure for Heat Mitigation and Emissions Reductions in Cities

This report offers a review of the literature outlining the demonstrated effectiveness of green infrastructure in providing heat mitigation and emissions reductions in cities and identifies key design strategies for maximizing these services.

https://www.tpl.org/benefits-green-infrastructure-heat-mitigation-and-emissions-reductions-cities#sm.00009n3r0e149ge7gugcv882cf7p9?utm_source=April+Urban+Forest+Connections+Webinar+Follow+Up&utm_campaign=Urban+Forest+Connections+Webinar&utm_medium=email

(6) WOOD SMOKE

Environmental Protection Agency

BurnWise Program

<https://www.epa.gov/burnwise>

A BurnWise Health and Safety Awareness Kit is available to state, local, and tribal air agencies interested in reducing residential wood smoke pollution. It includes best burn tips, infographics, social media messages, a fast facts one pager and an article template. These materials will make it easier for you/your agency to add facts to your website, post information on social media, or conduct a health and safety awareness campaign.

<https://www.epa.gov/burnwise/burn-wise-awareness-kit>

(7) EDUCATION/AWARENESS

Environmental Protection Agency

Environmental Education Training for Communities, Biloxi, MS, August 23-24, 2017

This community training will give participants the opportunity to (1) discuss the efforts underway to help improve and protect the environment within their communities, (2) learn how collaborative problem solving among the federal, state, local, industry, community and other stakeholders can be used to address environmental issues, and (3) understand the benefits of early and meaningful public engagement and how active participation can influence environmental decisionmaking.

More information: <https://www.eventbrite.com/e/us-epas-mississippi-environmental-education-training-tickets-34889986890>

North Carolina Dept. of Environmental Quality

Air Quality Curriculum for High School Students

This new curriculum will be used throughout the State of NC; Advance areas may be interested in taking a look and gleaning ideas for use in their communities/states.

www.itsourair.org

Air Quality Resources for Teachers

Includes curriculum resources, information about past and upcoming teacher workshops, links to web sites for teachers and students, and activities and materials for students.

<https://www.airnow.gov/index.cfm?action=learning.forteachers>

APTI-Learn Portal

APTI-Learn is the EPA's technical training portal for federal, state, tribal, and local air pollution professionals. Supported by the Air Pollution Training Institute (APTI) – a partnership of EPA, instructors, and regional multi-jurisdictional organizations – APTI-Learn is where these professionals can find the knowledge they need to implement environmental programs and policies. Courses include topics such as: introduction to air pollution, permitting, enforcement, monitoring and data analysis. Courses are available in several formats: classroom, videos, webinars, self-instructional. To see course offerings and classroom course schedules and to register, go to: <http://www.apti-learn.net>

Free Environmental Education Materials

EPA's National Service Center for Environmental Publications offers materials grouped by grade range.

- Teachers can order environmental education materials for students: <http://www.epa.gov/nscep/teacher-order-forms-epa-environmental-materials>
- Explore lesson plans, activity books, posters, videos, project ideas, student awards, and more: <http://www.epa.gov/students>
- Learn more about how Environmental Education increases public awareness and knowledge about environmental issues or problems: <http://www.epa.gov/education>

The National Environmental Education Foundation also provides free materials and educator toolkits through its Learning Center: <https://www.neefusa.org/greening-stem-learning-center>