

COMPENDIUM OF PROGRAMS AND MECHANISMS FOR FUNDING INFRASTRUCTURE RESILIENCE

Summary

This compendium catalogues federal, state, and non-governmental programs and funding mechanisms with potential to finance and support efforts to enhance infrastructure resilience and security.

The purpose of this compendium is to support state, local, tribal, and territorial communities as well as private sector owners and operators of infrastructure assets with their efforts to improve the security and resilience of their communities and infrastructure systems. Note that some funding opportunities are temporary or are not available annually. Due to the evolving nature of funding opportunities, this list is not exhaustive.

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I. Federal Programs

U.S. Department of Commerce

NOAA Regional Coastal Resilience Grants

Website

<https://www.coast.noaa.gov/resilience-grant/>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

To aid coastal communities address increasing risks from extreme weather through competitive grant awards. Awards are made for project proposals that advance resilience strategies, often through land and ocean use planning, disaster preparedness projects, environmental restoration, hazard mitigation planning, or other regional, state, or community planning efforts.

Eligibility

Eligible applicants include nonprofit organizations, institutions of higher education, regional organizations, private entities, and local, state, and tribal governments. Typical award amounts will range from \$250,000 to \$1 million for projects lasting up to three years. Cost-sharing through cash or in-kind contributions is expected. Projects must be located in one or more of the 35 U.S. coastal states or territories.

NOAA Coastal and Estuarine Land Conservation Program

Website

<https://coast.noaa.gov/czm/landconservation/>

Type of Financing

Matching Funds

Critical Infrastructure Sector

N/A

Overview

Provides matching funds to state and local governments to purchase threatened coastal and estuarine lands or obtain conservation easements.

Eligibility

State and local governments. To be considered, the land must be important ecologically or possess other coastal conservation values, such as historic features, scenic views, E5 or recreational opportunities.



NOAA Coastal Ecosystem Resiliency Grants Program

Website

<http://www.habitat.noaa.gov/funding/coastalresiliencyprojects.html>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

Investing in habitat restoration and ecosystem resiliency projects provides sustainable and lasting benefits that reduce risks posed to coastal communities from extreme weather events, changing environmental conditions, and known or potential climate change impacts.

Corporation for National and Community Service

AmeriCorps State and National Grants

Website

<https://www.nationalservice.gov/build-your-capacity/grants/ASNgrants>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

Grant funding for disaster services - improving community resiliency through disaster preparation, response, recovery, and mitigation.

Eligibility

The following Non-Federal entities who have DUNS numbers and are registered in System for Award Management (SAM) are eligible to apply: Indian Tribes, Institutions of higher education, Local governments, Nonprofit organizations, States.

U.S. Department of Energy

Smart Grid Investment Grants

Website

https://www.smartgrid.gov/recovery_act/overview/smart_grid_investment_grant_program.html

Type of Financing

Grant/Matching Funds



Critical Infrastructure Sector

Energy

Overview

To accelerate the modernization of the nation's electric transmission and distribution systems. The program targets electric providers across the nation with plans to upgrade their systems—through a merit-based, competitive solicitation.

Eligibility

Applications are being sought that apply "smart" technology to: appliances and electrical equipment, electricity distribution and transmission systems, and homes, offices and industrial facilities.

U.S. Department of Transportation

Congestion Mitigation and Air Quality Improvement Program

Website

www.fhwa.dot.gov/federalaid/guide/guide_current.cfm#c08

Type of Financing

Federal Fund Apportionment

Critical Infrastructure Sector

Transportation Systems

Overview

Flexible funding source to State and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act. Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).

Eligibility

Funds may be used for a transportation project or program that is likely to contribute to the attainment or maintenance of a national ambient air quality standard, with a high level of effectiveness in reducing air pollution, and that is included in the metropolitan planning organization's (MPO's) current transportation plan and transportation improvement program (TIP) or the current state transportation improvement program (STIP) in areas without an MPO

FHA Surface Transportation Block Grant Program

Website

<https://www.fhwa.dot.gov/fastact/factsheets/stbgfs.cfm>

Type of Financing

Grant



Critical Infrastructure Sector

Transportation Systems

Overview

Funding for highway and transit infrastructure construction and rehabilitation, highway operational improvements such as hazard elimination, bicycle and pedestrian transportation infrastructure, transportation planning, highway and transit research and development and technology transfer programs, and capital and operating costs for traffic monitoring, management, and control facilities and programs, including advanced truck stop electrification systems.

Interstate Maintenance (IM) Program

Website

<https://www.fhwa.dot.gov/safetealu/factsheets/im.htm>

Type of Financing

Formula Funding

Critical Infrastructure Sector

Transportation Systems

Overview

Provides formula funding for Interstate resurfacing, restoration, rehabilitation, and reconstruction; the reconstruction or new construction of bridges, interchanges, and crossings; capital costs related to operational, safety, traffic management, or intelligent transportation systems improvements; and preventive maintenance.

Eligibility

Projects on routes on the Interstate System, except those added under 23 USC 103(c)(4)(A) that were not previously designated future Interstate under former 23 UCS 139(b), as well as any segments that become part of the Interstate System under Section 1105(e)(5) of ISTEA are eligible for funding.

The Highway Bridge Program

Website

<https://www.fhwa.dot.gov/safetealu/factsheets/bridge.htm>

Type of Financing

Formula Funding

Critical Infrastructure Sector

Transportation Systems

Overview

Provides formula funding to states to improve structurally deficient and functionally obsolete highway bridges on public roads.



Eligibility

Eligible activities are expanded to include systematic preventative maintenance on Federal-aid and non-Federal-aid highway systems. States may carry out projects for the installation of scour countermeasures or systematic preventative maintenance without regard to whether the bridge is eligible for rehabilitation or replacement.

Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grants

Website

<https://www.transportation.gov/tiger>

Type of Financing

Grant

Critical Infrastructure Sector

Transportation Systems

Overview

Competitive grant program that supports innovative transportation projects, including multi-modal and multi-jurisdictional projects, which are difficult to fund through traditional federal programs.

Eligibility

Applicants must detail the benefits their project would deliver for five long-term outcomes: safety, economic competitiveness, state of good repair, quality of life and environmental sustainability. DOT also evaluates projects on innovation, partnerships, project readiness, benefit cost analysis, and cost share.

FHWA Emergency Relief Program

Website

<http://www.fhwa.dot.gov/programadmin/erelief.cfm>

Critical Infrastructure Sector

Transportation Systems

Overview

A special program from the Highway Trust Fund for the repair or reconstruction of Federal-aid highways and roads on Federal lands which have suffered serious damage as a result of (1) natural disasters or (2) catastrophic failures from an external cause.

Eligibility

It is the responsibility of individual States to request ER funds for assistance in the cost of necessary repair of Federal-aid highways damaged by natural disasters or catastrophic failures.

FTA Public Transportation Emergency Relief Program

Website

<https://www.transit.dot.gov/funding/grant-programs/emergency-relief-program/emergency-relief-program>



Critical Infrastructure Sector

Transportation Systems

Overview

Helps states and public transportation systems pay for protecting, repairing, and/or replacing equipment and facilities that may suffer or have suffered serious damage as a result of an emergency, including natural disasters such as floods, hurricanes, and tornadoes.

Eligibility

States and transit agencies that are affected by a declared emergency or disaster

Rail Line Relocation & Improvement Capital Grant Program (RLR)

Website

<https://www.fra.dot.gov/Page/P0090>

Type of Financing

Loan/Loan Guarantee

Critical Infrastructure Sector

Transportation Systems

Overview

Provides loans and loan guarantees to develop or rehabilitate railroad infrastructure. Eligible borrowers include state and local governments, government sponsored corporations, and joint ventures that include a railroad, and limited option freight shippers who intend to construct a railroad.

Eligibility

Only States, political subdivisions of States (such as a city or county), and the District of Columbia are eligible for grants under the program. Grants may only be awarded for construction projects that improve the route or structure of a rail line and: 1) are carried out for the purpose of mitigating the adverse effects of rail traffic on safety, motor vehicle traffic flow, community quality of life, or economic development; or 2) involve a lateral or vertical relocation of any portion of the rail line.

U.S. Environmental Protection Agency

The Clean Water State Revolving Fund (CWSRF)

Website

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

Type of Financing

Credit Financing

Critical Infrastructure Sector

Water and Wastewater Systems



Overview

Provides loans and loan guarantees to develop or rehabilitate railroad infrastructure. Eligible borrowers include state and local governments, government sponsored corporations, and joint ventures that include a railroad, and limited option freight shippers who intend to construct a railroad.

Eligibility

Eligible Projects include: Construction of publicly owned treatment works, Nonpoint source, National estuary program projects, Decentralized wastewater treatment systems, Stormwater, Water conservation, efficiency, and reuse, Watershed pilot projects, Energy efficiency, Water reuse, Security measures at publicly owned treatment works, Technical assistance.

The Drinking Water State Revolving Fund (DWSRF)**Website**

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

Type of Financing

Credit Financing

Critical Infrastructure Sector

Water and Wastewater Systems

Overview

A federal credit program administered by EPA for eligible drinking water treatment and distribution projects.

Eligibility

Eligible Projects include: Treatment; Transmission and distribution; Source; Storage; Consolidation; Creation of new systems

Urban Waters Small Grants**Website**

<https://www.epa.gov/urbanwaters/urban-waters-small-grants>

Type of Financing

Grant

Critical Infrastructure Sector

Water and Wastewater Systems

Overview

Helps protect and restore urban waters, improve water quality, and support community revitalization and other local priorities.



Eligibility

In general, projects should meet the following four program objectives: 1) Address local water quality issues related to urban runoff pollution; 2) Provide additional community benefits; 3) Actively engage underserved communities; and 4) Foster partnership

319 Grant Program for States and Territories

Website

<https://www.epa.gov/nps/319-grant-program-states-and-territories>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

States, territories and tribes receive grant money that supports a wide variety of activities including technical assistance, financial assistance, education, training, technology transfer, demonstration projects and monitoring to assess the success of specific nonpoint source implementation projects

Eligibility

If a state's funding plan is consistent with grant eligibility requirements and procedures, EPA then awards the funds to the state.

Wetland Program Development Grants

Website

<https://www.epa.gov/wetlands/wetland-program-development-grants>

Type of Financing

Grant

Critical Infrastructure Sector

Water and Wastewater Systems

Overview

Provides funding to projects that promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution.

Eligibility

States, tribes, local governments, interstate associations, and intertribal consortia are eligible to apply for the Regional WPDG Request for Proposals (RFPs). Nonprofits, interstate associations and intertribal consortia are eligible to apply for the National WPDG RFPs.



Brownfields Grant Funding

Website

<https://www.epa.gov/brownfields/types-brownfields-grant-funding>

Type of Financing

Grants

Critical Infrastructure Sector

N/A

Overview

- **Assessment Grants:** Assessment grants provide funding for a grant recipient to inventory, characterize, assess, and conduct planning and community involvement related to brownfield sites.
- **Revolving Loan Fund Grants:** The purpose of revolving loan fund grants is to enable states, political subdivisions, and Indian tribes to make low interest loans to carryout cleanup activities at brownfields properties.
- **Cleanup Grants:** Cleanup grants provide funding for a grant recipient to carry out cleanup activities at brownfield sites.
- **Area-Wide Planning Grants (AWP):** Grant funding to communities to research, plan and develop implementation strategies for an area affected by one or more brownfields. Developing an area-wide plan will inform the assessment, cleanup and reuse of brownfields properties and promote area-wide revitalization.
- **Environmental Workforce Development and Job Training Grants (EWDJT):** Environmental workforce development and job training grants are designed to provide funding to eligible entities, including nonprofit organizations, to recruit, train, and place predominantly low-income and minority, unemployed and under-employed residents of solid and hazardous waste-impacted communities with the skills needed to secure full-time, sustainable employment in the environmental field and in the assessment and cleanup work taking place in their communities.
- **Multi-Purpose Pilot Grants:** In FY2010, EPA piloted a new grant program that will provide a single grant to an eligible entity for both assessment and cleanup work at a specific brownfield site owned by the applicant.
- **Training, Research, and Technical Assistance Grants:** Training, research, and technical assistance grants provide funding to eligible organizations to provide training, research, and technical assistance to facilitate brownfields revitalization.



U.S. Department of Homeland Security

Building Resilient Infrastructure and Communities (BRIC) Grants

Website

<https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

The Federal Emergency Management Agency (FEMA) makes federal funds available through the new Building Resilient Infrastructures and Communities (BRIC) grant program to states, local communities, tribes and territories (SLTTs) for pre-disaster mitigation activities. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program. The Disaster Recovery Reform Act, Section 1234; amended Section 203 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act) and authorizes BRIC. The BRIC priorities are to:

- incentivize public infrastructure projects;
- incentivize projects that mitigate risk to one or more lifelines;
- incentivize projects that incorporate nature-based solutions;
- and, incentivize adoption and enforcement of modern building codes

Eligibility

State, local, tribal, and territorial government.

FEMA Homeland Security Grant Program (HSGP)

Website

<https://www.fema.gov/homeland-security-grant-program>

Type of Financing

Grant

Overview

Provide a primary funding mechanism for building and sustaining national preparedness capabilities. HSGP is comprised of three interconnected grant programs: 1) State Homeland Security Program (SHSP) 2) Urban Area Security Initiative (UASI) 3) Operation Stonegarden (OPSG). Together, these grant programs fund a range of preparedness activities, including planning, organization, equipment purchase, training, exercises, and management and administration.



FEMA Public Assistance Grant Program: Local, State, Tribal and Private Non-Profit

Website

<https://www.fema.gov/public-assistance-local-state-tribal-and-non-profit>

Type of Financing

Grant

Overview

Provides federal assistance in the form of grants to state, tribal, and local governments and certain private nonprofit organizations following a Presidential disaster declaration so that communities can quickly respond to and recover from major disasters or emergencies. Through the program, FEMA provides supplemental federal disaster grant assistance for debris removal, life-saving emergency protective measures, and the repair, replacement, or restoration of disaster-damaged publicly owned facilities, and the facilities of certain private non-profit organizations.

Eligibility

The federal share of assistance is not less than 75 percent of the eligible cost. The Recipient (usually the state) determines how the non-federal share (up to 25 percent) is split with the subrecipients (eligible applicants).

FEMA Tribal Homeland Security Grant

Website

<https://www.fema.gov/tribal-homeland-security-grant-program>

Type of Financing

Grant

Overview

This program provides funding to eligible Federally- recognized tribes to strengthen their capacity to prevent, protect against, mitigate, respond to, and recover from potential terrorist attacks and other hazards. Grants are awarded based on eligibility and effectiveness, the latter of which is determined by a peer review process.

Eligibility

“Directly eligible tribes” as defined in 6 U.S.C. § 601(4)

FEMA Hazard Mitigation Grant Program

Website

<https://www.fema.gov/hazard-mitigation-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Emergency Services



Overview

The purpose of the HMGP program is to help communities implement hazard mitigation measures following a Presidential major disaster declaration. HMGP funds can be used for a variety of infrastructure projects as well planning activities.

Eligibility

Consistent with requirements in 44 CFR Parts 201 and 206, a mitigation planning subaward must result in a mitigation plan adopted by the jurisdiction(s) and approved by FEMA, or it must result in a mitigation planning-related activity (eligible under HMGP only) approved by FEMA.

FEMA Flood Mitigation Assistance Grant Program

Website

<https://www.fema.gov/flood-mitigation-assistance-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Emergency Services

Overview

FMA provides funding to States, Territories, federally-recognized tribes and local communities for projects and planning that reduces or eliminates long-term risk of flood damage to structures insured under the NFIP.

Eligibility

States, Territories, federally-recognized tribes, Local governments

FEMA Preparedness (Non-Disaster) Grants

Website

<https://www.fema.gov/non-disaster-grants-management-system>

Type of Financing

Grant

Critical Infrastructure Sector

Emergency Services

Overview

Provides state and local governments with preparedness program funding to enhance the capacity of responders to prevent, respond to, and recover from a weapons of mass destruction terrorism incident involving chemical, biological, radiological, nuclear, and explosive devices and cyber-attacks.



FEMA Transit Security Grant Program

Website

<https://www.fema.gov/transit-security-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Transportation Systems

Overview

Provides funds to owners and operators of transit systems to protect and increase the resilience of critical surface transportation infrastructure and the traveling public from acts of terrorism.

Eligibility

Eligible transit agencies are determined based on daily unlinked passenger trips (ridership) and transit systems that serve historically eligible Urban Area Security Initiative (UASI) jurisdictions.

FEMA Emergency Management Performance Grant (EMPG) Program

Website

<https://www.fema.gov/emergency-management-performance-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Emergency Services

Overview

Provides grant funding to states to assist state, local, territorial, and tribal governments in preparing for all hazards, as authorized by the Stafford Act.

Eligibility

All 56 States and territories, as well as the Republic of the Marshall Islands and the Federated States of Micronesia, are eligible for FY 2016 EMPG Program funds.

FEMA Assistance to Firefighters Grant

Website

<https://www.fema.gov/welcome-assistance-firefighters-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Emergency Services



Overview

To enhance the safety of the public and firefighters with respect to fire-related hazards by providing direct financial assistance for critically needed resources to equip and train emergency personnel to recognized standards, enhance operations efficiencies, foster interoperability, and support community resilience

FEMA Community Disaster Loan Program**Website**

<https://www.fema.gov/community-disaster-loan-program>

Type of Financing

Direct Loans

Critical Infrastructure Sector

Emergency Services

Overview

To provide funds to any eligible jurisdiction in a designated disaster area that has suffered a substantial loss of tax and other revenue.

Eligibility

local governments who have suffered a substantial loss (greater than 5%) of tax and other revenues as a result of a major disaster, and which can demonstrate a need for federal financial assistance in order to perform its governmental functions.

FEMA Port Security Grant Program**Website**

<https://www.fema.gov/port-security-grant-program>

Type of Financing

Grant

Critical Infrastructure Sector

Transportation Systems

Overview

Supports the building, sustainment, and delivery of core capabilities essential to achieving the National Preparedness Goal (the Goal) of a secure and resilient Nation.



U.S. Department of Housing and Urban Development

Community Development Block Grant Program (CDBG)

Website

https://www.hud.gov/program_offices/comm_planning/communitydevelopment

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

Provides communities with resources to address a wide range of unique community development needs including neighborhood stabilization and disaster recovery assistance.

Eligibility

Over a 1, 2, or 3-year period, as selected by the grantee, not less than 70 percent of CDBG funds must be used for activities that benefit low- and moderate-income persons. In addition, each activity must meet one of the following national objectives for the program: benefit low- and moderate-income persons, prevention or elimination of slums or blight, or address community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community for which other funding is not available.

Community Development Block Grant Program Disaster Recovery Assistance (CDBG-DR)

Website

https://www.hud.gov/program_offices/comm_planning/cdbq-dr

Overview

Funds specially appropriated by Congress to provide flexible grants to help cities, counties, parishes, and states recover from a presidentially declared disaster, especially in low- and moderate-income areas. These noncompetitive, nonrecurring grants are awarded based on a formula that considers disaster recovery needs unmet by other Federal disaster assistance programs.

Eligibility

Appropriations language determines applicant eligibility, however grant recipients are typically state and local governments. Grant recipients may distribute grant money to state agencies, non-profit organizations, economic development agencies, citizens and businesses within a presidentially declared disaster area.



Rural Housing & Economic Development (RHED)

Website

<https://www.hudexchange.info/programs/rhed/>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

This grant program funds activities to build capacity at the state and local level and economic development in rural areas.

Eligibility

Rural nonprofits, community development corporations (CDCs), state housing finance agencies (HFAs), state community and/or economic development agencies, and federally recognized Indian tribes.

National Science Foundation

Decision, Risk, and Management Sciences Program (DRMS)

Website

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5423&org=SES

Overview

Provides funding to support scientific research directed at increasing the understanding and effectiveness of decision making by individuals, groups, organizations, and society.

Engineering for Natural Hazards (ENH) Program

Website

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505177

Overview

The Engineering for Natural Hazards (ENH) program supports fundamental research that advances knowledge for understanding and mitigating the impact of natural hazards on constructed civil infrastructure.



U.S. Small Business Administration

Disaster Loans

Website

<https://www.sba.gov/page/disaster-loan-applications>

Type of Financing

Direct Loans

Critical Infrastructure Sector

Emergency Services

Overview

Loans for home and personal, physical small businesses, and economic injury in Presidential declared disaster areas.

Eligibility

Located in a declared disaster area.

U.S. Department of the Interior

The Hurricane Sandy Coastal Resiliency Competitive Grant Program

Website

<http://www.nfwf.org/hurricanesandy/Pages/home.aspx>

Type of Financing

Competitive Grant

Critical Infrastructure Sector

Overview

Administered by the NFWF, the program supports projects that reduce communities' vulnerability to the growing risks from coastal storms, sea level rise, flooding, erosion and associated threats through strengthening natural ecosystems that also benefit fish and wildlife.

Bureau of Reclamation's WaterSMART Drought Response Program

Website

<http://www.usbr.gov/drought/>

Type of Financing

Competitive Funding

Critical Infrastructure Sector

N/A



Overview

Funding to develop a new drought contingency plan or to update an existing plan. Funding for drought resiliency projects that will build long-term resiliency into drought planning and mitigate impacts caused by drought.

Eligibility

Reclamation will fund drought resiliency projects that will help communities prepare for and respond to drought.

U.S. Fish and Wildlife Service Coastal Wetlands Conservation Grant Program**Website**

<https://www.fws.gov/coastal/coastalgrants/>

Type of Financing

Matching Grant

Critical Infrastructure Sector

N/A

Overview

Provides matching grants to states for acquisition, restoration, management or enhancement of coastal wetlands.

Eligibility

States receiving funds are California, Georgia, Massachusetts, New Hampshire, New Jersey, Maine, North Carolina, Texas, Washington and Wisconsin.

Gulf of Mexico Energy Security Act (GOMESA)**Website**

<https://www.boem.gov/oil-gas-energy/energy-economics/gulf-mexico-energy-security-act-gomesa>

Type of Financing

Cooperative Agreement

Critical Infrastructure Sector

Energy Sector

Overview

The Gulf of Mexico Energy Security Act of 2006 (Pub. Law 109-432) provides significant revenue sharing in the Gulf of Mexico (GOM). Currently, the Act: shares leasing revenues with Gulf producing states and the Land & Water Conservation Fund for coastal restoration projects; bans oil and gas leasing within 125 miles off the Florida coastline in the Eastern Planning Area, and a portion of the Central Planning Area, until 2022; and, mandates leasing of 8.3 million acres in the Central and Eastern Gulf of Mexico Planning areas.



Eligibility

The Gulf of Mexico Energy Security Act (GOMESA) of 2006 created a revenue-sharing model for oil- and gas-producing gulf states. Under the act, Alabama, Louisiana, Mississippi, and Texas receive a portion of the revenue generated from oil and gas production offshore in the Gulf of Mexico. The act also directs a portion of revenue to the Land and Water Conservation Fund.

U.S. Department of Agriculture***NRCS Agricultural Management Assistance Program*****Website**

<https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/ama/>

Type of Financing

Technical and Financial Assistance

Critical Infrastructure Sector

Food and Agriculture

Overview

Producers receive conservation technical and financial assistance to construct or improve water management or irrigation structures, plant trees for windbreaks or, in order to improve water quality and mitigate risk, diversify their operation and conservation practices including soil erosion control, integrated pest management or transition to organic farming.

Eligibility

AMA is available in 16 states where participation in the Federal Crop Insurance Program is historically low: Connecticut, Delaware, Hawaii, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Utah, Vermont, West Virginia, and Wyoming.

Strategic Economic and Community Development**Website**

<https://www.rd.usda.gov/programs-services/strategic-economic-and-community-development>

Critical Infrastructure Sector

N/A

Overview

Provides priority to projects that support strategic economic and community development plans through the alignment of resources with long-range and multi-jurisdictional challenges and needs by leveraging federal, state, local, or private funding.

Eligibility

To be eligible for SECD, a project must: Be eligible for the underlying program, be carried out solely in a rural area, and support a multi-jurisdictional strategic economic community development plan.



Rural Energy for America Program Renewable Energy Systems & Energy Efficiency Improvement Loans & Grants

Website

<https://www.rd.usda.gov/programs-services/rural-energy-america-program-renewable-energy-systems-energy-efficiency>

Type of Financing

Guaranteed Loans/Grant Funding

Critical Infrastructure Sector

Food and Agriculture

Overview

Provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements

Eligibility

Agricultural producers with at least 50% of gross income coming from agricultural operations, and small businesses in eligible rural areas.

Emergency Community Water Assistance Grants (ECWAG)

Website

https://www.rd.usda.gov/files/rdECWAG_Feb2014.pdf

Type of Financing

Grant

Critical Infrastructure Sector

Water and Wastewater Systems

Overview

Helps eligible rural communities recover from or prepare for emergencies that result in a decline in capacity to provide safe, reliable drinking water for households and businesses.

Eligibility

Eligible applicants include most State and local governmental entities, nonprofit organizations and federally recognized Tribes. Privately owned wells are not eligible. Projects must be located in rural areas and towns up with 10,000 or fewer people and with a median household income less than \$62,883.

Community Facilities Direct Loan & Grant Program

Website

<https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program>

Type of Financing

Loan and Grant Funding



Critical Infrastructure Sector

N/A

Overview

Provides affordable funding to develop essential community facilities in rural areas.

Eligibility

Rural areas including cities, villages, townships and towns including Federally Recognized Tribal Lands with no more than 20,000 residents according to the latest U.S. Census Data are eligible for this program.

Disaster Assistance Programs

Website

<https://www.fsa.usda.gov/programs-and-services/disaster-assistance-program/index>

Type of Financing

Grant/Loan

Critical Infrastructure Sector

Agriculture

Overview

USDA offers a variety of programs that are designed to help support those stakeholder impacted by natural disasters. Available programs include Livestock Assistance, Farm Loans, Farmland Damage, and Crop Losses.

Eligibility

Select farmers, ranchers, communities, and businesses that have been hard hit by natural disaster events.

U.S. Department of the Treasury

Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE)

Website

<https://home.treasury.gov/policy-issues/financial-markets-financial-institutions-and-fiscal-service/restore-act>

Type of Financing

Grant

Critical Infrastructure Sector

N/A



Overview

The RESTORE Act dedicates 80 percent of all administrative and civil penalties related to the Deepwater Horizon spill to a Gulf Coast Restoration Trust Fund (Trust Fund) and outlines a structure by which the funds can be utilized to restore and protect the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, coastal wetlands, and economy of the Gulf Coast region. The U.S. Department of the Treasury is responsible for issuing compliance and auditing procedures for the entire Act and procedures for two grant programs administered by Treasury.

Eligibility

Funds can be utilized to restore and protect the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, coastal wetlands, and economy of the Gulf Coast region.



II. State Programs

Arizona

GENERAL SOURCES OF INFORMATION

- **Arizona Finance Authority (AFA):** The AFA's water and public infrastructure financing authorities provide communities the opportunity to make smart investments through low-cost financing and incentives. <http://www.azcommerce.com/financing/water-and-public-infrastructure-financing>

Connecticut

PROGRAMS/FUNDING OPPORTUNITIES

- **Connecticut Institute for Resilience & Climate Adaptation (CIRCA)**
 - Municipal Resilience Grant Program: <http://circa.uconn.edu/funds-muni/>
 - Matching Funds Program: <http://circa.uconn.edu/funds/>

Florida

PROGRAMS/FUNDING OPPORTUNITIES

- **The Aviation Grant Program** provides financial assistance to Florida's airports in the areas of safety, security, preservation, capacity improvement, land acquisition, planning, and economic development. Program funds assist local governments and airport authorities in planning, designing, constructing, and maintaining public-use aviation facilities. <http://www.fdot.gov/aviation/fundinginfo.shtm>

Georgia

PROGRAMS/FUNDING OPPORTUNITIES

- **The Georgia Environmental Finance Authority:** The Water Resources Division supports the development of water, sewer and solid waste infrastructure projects, which help protect the environment, facilitate economic development, accommodate population growth and safeguard public health. <http://gefa.georgia.gov/water-resources>
- **The Georgia Transportation Infrastructure Bank:** provides financial assistance for transportation projects that improve mobility, sustain development and enhance communities throughout the state and is managed by the State Road and Tollway Authority (SRTA). <http://www.georgiatolls.com/qtib/>

Illinois

PROGRAMS/FUNDING OPPORTUNITIES

- **Illinois Environmental Protection Agency (IEPA) Wastewater/Storm Water and Drinking Water Loans:** IEPA programs provide financial assistance to eligible public or private applicants for the design and construction of a wide variety of projects that protect or improve the quality of Illinois' water resources or address human health and failing water infrastructure. <https://www2.illinois.gov/epa/topics/grants-loans/state-revolving-fund/Pages/default.aspx>



Louisiana

GENERAL SOURCES OF INFORMATION

- **Louisiana’s Strategic Adaptations for Future Environments (LA SAFE):** LA SAFE addresses community resilience holistically – integrating risk planning with planning for stormwater management, housing, transportation, economic development, education, recreation, and culture. <https://lasafe.la.gov/>

Maine

GENERAL SOURCES OF INFORMATION

- **List of grants from the Department of Agriculture, Conservation and Forestry:** <http://www.maine.gov/DACF/about/grants/index.shtml>
- **Main Grants Watch:** The website provides information on available grants, as well as guidelines for application as well as eligibility. <https://maine.grantwatch.com/>
- **The Grantsmanship Center – Maine:** This page provides a list of the top grant providers for the State of Maine <https://www.tgci.com/funding-sources/ME/top>
- **Maine Department of Transportation:** <http://www.maine.gov/mdot/about/funding/>

PROGRAMS/FUNDING OPPORTUNITIES

- **Maine Historic Preservation Commission (MHPC):**
<https://www.maine.gov/mhpc/programs/grants>
 - Historic Preservation Grant Funding

Maryland

- **Maryland Department of Natural Resources:**
<http://dnr.maryland.gov/ccs/Pages/funding/fundingopp.aspx>

Massachusetts

- **Executive Office of Energy and Environmental Affairs**
<http://www.mass.gov/eea/agencies/czm/program-areas/stormsmart-coasts/grants/>
 - Coastal Resilience Grant Program

Michigan

PROGRAMS/FUNDING OPPORTUNITIES

- **The Department of Agriculture and Rural Development** provides grant opportunities to promote the sustainability of land-based industries and support infrastructure that benefits rural communities. http://www.michigan.gov/mdard/0,4610,7-125-1570_51684_78392---,00.html
 - Michigan Rural Development Fund Grants



New Hampshire

GENERAL SOURCES OF INFORMATION

- **A chart to New Hampshire State and Federal Funding:**
<https://www.nh.gov/transparentnh/where-the-money-comes-from/>
- **Grant Watch – New Hampshire:** The website provides information on current grants, instructions for application, as well as eligibility. <https://newhampshire.grantwatch.com/>

PROGRAMS/FUNDING OPPORTUNITIES

- **New Hampshire Department of Safety:**
<https://www.nh.gov/safety/divisions/dmv/registration/municipal-agents/index.htm>
 - Municipal Agent Program

New Jersey

GENERAL SOURCES OF INFORMATION

- **New Jersey Governor’s Office of Recovery and Rebuilding:**
<http://nj.gov/gorr/>
 - Flood Hazard Mitigation Initiatives
 - Energy Resilience

New York

GENERAL SOURCES OF INFORMATION

- **Resources for Building Waterfront Resilience:**
<https://wri.cals.cornell.edu/hudson-river-estuary/climate-change-hudson-river-estuary/resources-resilience/>
- **New York State Citizens Guide:** The website provides information on available grants, as well as guidelines for application as well as eligibility.
<https://www.budget.ny.gov/citizen/index.html>
- **New York State Assembly – Grants Action News:** An up-to-date newsletter for grant seekers to become informed about newly established grants. The newsletter outlines eligibility guidelines, deadlines, and contains contact information for further questions.
<https://nyassembly.gov/gan/>
- **NYS Consolidated Funding Application:** New York State’s Consolidated Funding Application (CFA) allows communities to design comprehensive projects and with one application, apply to multiple state funding sources.
<https://apps.cio.ny.gov/apps/cfa/>



PROGRAMS/FUNDING OPPORTUNITIES

- **NYS Department of Environmental Conservation (DEC):**
<http://www.dec.ny.gov/pubs/grants.html>
 - Hudson River Estuary Grants
 - Climate Smart Communities Grants
 - Water Quality Improvements Program
- **New York State Energy Research and Development Authority (NYSERDA):**
<https://www.nyserdera.ny.gov/Funding-Opportunities/Current-Funding-Opportunities>
 - Clean Energy Communities Program
- **NYS Office of Parks, Recreation and Historic Preservation (OPRHP):**
<https://parks.ny.gov/grants/>
 - EPF Municipal Grant Program
- **NYS Hudson River Valley Greenway:**
<https://hudsongreenway.ny.gov/grants-funding>
 - Communities and Compact Grant Programs
- **Division of Homes and Community Renewal:** <https://hcr.ny.gov/>
- **Governor’s Office of Storm Recovery:** <https://stormrecovery.ny.gov/>
 - Funding Portal: <https://stormrecovery.ny.gov/funding/funding-portal>
- **NY Department of Transportation:** <https://www.dot.ny.gov/funding>

North Carolina

PROGRAMS/FUNDING OPPORTUNITIES

- **Charlotte-Mecklenburg, NC Stormwater Services Division:**
<http://charmeck.org/stormwater/Pages/default.aspx>
 - Local authority in charge of analyzing hazard risk and prioritizing properties for appropriate mitigation projects, ranging from buyouts to environmental restoration.
 - Program funded primarily through stormwater utility fees.



Ohio

PROGRAMS/FUNDING OPPORTUNITIES

- **Economic Development Loan and Public Infrastructure Grant Program:** creates and retains permanent, private-sector jobs, principally for low and moderate income persons, through the expansion and retention of business and industry in Ohio communities. Funds are granted to local government applicants for both economic development loan and public infrastructure projects. Public off-site infrastructure funds are retained as a grant by the local government. In the case of a loan, the local government grantee loans the funds to the beneficiary business for fixed asset financing projects and the funds are repaid to the local government Revolving Loan Fund. https://development.ohio.gov/cs/cs_edl.htm
- **Residential Public Infrastructure Program:** The Residential Public Infrastructure Grant Program creates safe and sanitary living environment for Ohio citizens, through the provision of safe and reliable drinking water and proper disposal of sanitary waste. https://development.ohio.gov/cs/cs_rpi.htm
- **Ohio Department of Public Safety:** Offers grants to law enforcement, fire, EMS and various other safety partners to help achieve its mission to save lives and reduce injuries and economic loss in the state of Ohio. <http://www.publicsafety.ohio.gov/grants.stm>
- **Ohio Development Services Agency:** The Community Development Program provides communities with flexible funding for housing and community development projects to address the needs of low- and moderate-income individuals and to eliminate slum and blight. The program also includes competitive grants for Neighborhood Revitalization, Downtown Revitalization, and Critical Infrastructure projects. <https://greencountydod.org/wp-content/uploads/2017/01/CDAllocationAndCompetitive.pdf>
- **Ohio Department of Transportation:** The Department maintains a direct loan and bond financing program through the State Infrastructure Bank. The money is used as a method of funding highway, rail, transit, intermodal, and other transportation facilities and projects. <http://www.dot.state.oh.us/Divisions/Finance/Pages/StateInfrastructureBank.aspx>

Oklahoma

GENERAL SOURCES OF INFORMATION

- **Historic Funding Perspective of all OKOHS Grant Programs:** Summary of grant funding Oklahoma receives and how the state allocates those grants. https://www.ok.gov/homeland/Grant_Information/index.html



Oregon

GENERAL SOURCES OF INFORMATION

- **Oregon Resilience Task Force:** <http://www.oregon.gov/OMD/OEM/Pages/Resilience-Taskforce.aspx>
- **Oregon Business:** Manages grant and loan programs designed to help communities improve the quality of life of their citizens. <http://www.orinfrastructure.org/>

Rhode Island

GENERAL SOURCES OF INFORMATION

- **Office of Internal Audit for Rhode Island:** Information and reports on state funding and state grants. <http://audits.ri.gov/reports/>
- **Rhode Island Grant Watch:** This website provides information, including descriptions, eligibility, and funding opportunities for Rhode Island grants. <https://rhodeisland.grantwatch.com/>

PROGRAMS/FUNDING OPPORTUNITIES

- **Local Open Space Grant:** <http://www.dem.ri.gov/programs/planning/grants/>
 - Facilitate land conservation
 - Land acquisition and development
 - Recreational Trail Grant Program
- **Rhode Island Department of Transportation:** <http://www.dot.ri.gov/business/govandutilities.php>

Texas

PROGRAMS/FUNDING OPPORTUNITIES

- **County Transportation Infrastructure Fund Grant Program:** <http://www.txdot.gov/government/funding/county-fund.html>
- **The Texas General Land Office (TXGLO):** <https://www.glo.texas.gov/>
 - The Infrastructure program - assists communities to recover from disasters by funding public facility projects such as roads and bridges, flood and drainage improvements, community centers/shelters, fire stations, and emergency back-up generators
 - The Disaster Recovery Program - provides funding for creative and substantive long-term planning studies and projects. This includes conducting resiliency studies to mitigate the effects of future disasters.



Vermont

GENERAL SOURCES OF INFORMATION

- **Department of Environmental Conservation Grant and Loan Programs:** <http://dec.vermont.gov/grant-loan-programs>
- **Vermont Grants Management Guide (GMP):** The website provides information on available grants, as well as guidelines for application as well as eligibility. <http://accd.vermont.gov/community-development/funding-incentives/vcdp/grants-management-guide>
- **Agency of Commerce and Community Development:** <http://accd.vermont.gov/community-development>
- **VT Department of Transportation:** <http://legislature.vermont.gov/assets/Legislative-Reports/Sec-10-Funding-Study-Report-final.pdf>

PROGRAMS/FUNDING OPPORTUNITIES

- **Brownfields Reuse and Environmental Liability Program (BRELLA):** <https://dec.vermont.gov/waste-management/contaminated-sites/brownfields/BRELLA>
 - Public investment to promote successful redevelopment projects
 - Reduce threats caused by brownfields
- **Vermont – Flood Ready:** <http://floodready.vermont.gov/node/777>
 - Developing local infrastructure
 - Protecting the functions of local watersheds
 - Adapting critical infrastructure
- **On-site Loan Program:** Loans for the repair and replacement of failed on-site wastewater and water supply systems
<https://dec.vermont.gov/water-investment/water-financing/on-site-loan>
- **Unsafe Dam State Revolving Fund:** <https://dec.vermont.gov/water-investment/dam-safety/unsafe-dam-srf>
- **Water Planning Loan:** Provides loans for the testing and creation of public water systems engineering
<https://dec.vermont.gov/water-investment/water-financing/dwsrf-water-planning-loan>
- **Vermont Emergency Relief and Assistance Fund:** Provides a 7.5 percent state match to FEMA Federal Public Assistance after declared disasters. Communities that take specific resilience steps are eligible to receive up to a 17.5 percent match
http://floodready.vermont.gov/find_funding/emergency_relief_assistance



Washington

PROGRAMS/FUNDING OPPORTUNITIES

- **State of Washington Transportation Improvement Board (TIB):**
<http://www.tib.wa.gov/grants/Grants.cfm>
 - Urban Arterial Program (UAP)



III. Non-Governmental Programs

The Kresge Foundation

Place-based, local systems, neighborhood, and environments funding

Website

<http://kresge.org/opportunities>

Type of Financing

Grant

Critical Infrastructure Sector

N/A

Overview

Funding and grants offered for communities seeking resilience from natural disasters.

The Wildlife Conservation Society

Climate Adaptation Fund

Website

<http://wscclimateadaptationfund.org/program-information>

Type of Financing

Award Funding

Critical Infrastructure Sector

N/A

Overview

Awards will be made to non-profit conservation organizations for applied, on-the-ground projects focused on implementing priority conservation actions for climate adaptation at a landscape scale.

Eligibility

This program provides grants to U.S.-based non-profit conservation organizations with approved IRS 501(c)(3) status. Grants can be awarded for projects only within the 50 U.S. states and six U.S. territories. The WCS Climate Adaptation Fund is unable to make grants to for-profit corporations, individuals, universities, public agencies, municipalities or other types of government entities.



Appendix: Additional Information Sources – Funding Resources

Resource		
FedCenter.gov	Contains information on various Federal, State and non-profit organization grant opportunities.	https://www.fedcenter.gov/opportunities/grants/
DisasterAssistance.gov	Provides access to disaster help and resources for the U.S. and territories and lists currently declared disaster states (and affected counties) that may allow for individual assistance.	www.disasterassistance.gov
U.S. Climate Resilience Toolkit	A listing of a number of federal government and NGO sources for technical assistance funding to promote increased climate resilience with hyperlinks to other organizations. It is a coordinated effort by NOAA, USDA, and the Department of the Interior.	https://toolkit.climate.gov/content/funding-opportunities
Federal Funding Compendium for Urban Heat Adaptation (2013)	Provides a list of federal funding sources for climate-related work.	https://www.georgetownclimate.org/files/report/Federal%20Funding%20Compendium%20for%20Urban%20Heat%20Adaptation.pdf
EPA Catalogue of Federal Funding Sources for Watershed Protection	A searchable database of financial assistance sources (grants, loans, cost-sharing) available to fund a variety of watershed protection projects.	https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockkey=20004044.TXT
Tribal Climate Change Guide for Funding, Science, Programs, and Adaptation Plans	A sortable spreadsheet that can help tribes find potential funding sources and other resources, maintained by University of Oregon.	http://tribalclimateguide.uoregon.edu/
Great Lakes Coastal Resilience	Coordinating organization with information on financing and technical resources on zoning and land use, infrastructure, habitat and environment, and public health and safety. Provides links to a number of resources and other organizations.	http://www.greatlakesresilience.org/



Resource

Federation of Canada: Green Municipal Fund	A unique program that provides funding and knowledge services to support sustainable community development. GMF-supported initiatives aim to improve air, water, and soil, and mitigate the impacts of climate change (for potential for cross-border initiatives).	http://www.fcm.ca/home/programs/green-municipal-fund.htm
Statelocalgov.net	List of state and local grant funding opportunities.	http://www.statelocalgov.net/50states-state-grants.cfm

