

Bipartisan Infrastructure Law and Inflation Reduction Act

Arizona Clean Energy Investments

April 2023 Snapshot Report

The following are federal energy and infrastructure related grants and opportunities in Arizona from present thru June 30, 2023, as part of the Bipartisan Infrastructure Law and the Inflation Reduction Act, to be shared with Technology Developers, Industry, Utilities, Universities, National Laboratories, Engineering and Construction firms, business trade associations, nonprofits, businesses, and more. **These are federal infrastructure funding opportunities available to the private sector.**

Advance Domestic Supply Chain for Critical Materials (Front-End Engineering Design Studies for Production of Critical Minerals and Materials from Coal-Based Resources)	
Open Date: TBD	Important Dates: _FOA is anticipated to be issued early in the first quarter of calendar year 2023 with applications due 60 days after issuance of FOA
Federal \$ Available (\$Thousands): \$32,000	AZ \$ Available (\$Thousands): TBD
Recipient(s): TBD	Eligible Entities: Industry
Grant Information & How to Apply: https://www.energy.gov/fecm/notice-intent-issue-funding-opportunity-bipartisan-infrastructure-law-front-end-engineering	
Key Federal Contact(s): TBD	

Description:

Supporting front-end engineering design (FEED) studies to produce rare earth elements (REEs) and other critical minerals and materials (CMMs) from domestic coal-based resources

Example Project(s):

Detailed engineering & cost studies for specific facilities from real-world feedstocks, that will identify risks, costs, & plans for projects to develop technologies that produce REEs and other CMMs from domestic coal-based resources & associated by-products, such as coal ash, mine waste, & acid mine drainage

Notes:

TBD

Advanced Energy Manufacturing and Recycling Grants

Open Date:

Feb-23

Important Dates:

_FOA Issue Date: 2/13/2023
_Submission Deadline for Concept Papers: 3/14/2023 5:00pm ET
_Submission Deadline for Full Applications: 6/8/2023 5:00pm ET
_Expected Timeframe for DOE Selection Notifications: November 2023

Federal \$ Available (\$Thousands):

\$750,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Businesses

Eligible Entities:

Manufacturing Firms: with annual revenues less than \$100M, less than 500 employees @ the plant site, and annual energy bills between \$100K and \$2.5M

Grant Information & How to Apply:

<https://www.energy.gov/bil/advanced-energy-manufacturing-and-recycling-grants>

Key Federal Contact(s):

_ If you have questions please contact us at 40209Program@hq.doe.gov.

_ If you have any questions, email Matthew.Ringer@nrel.gov

_ EERE Advanced Manufacturing Office _ R&D PROJECTS: Isaac Chan , Program Manager,
Isaac.Chan@ee.doe.gov

Description:

Grants to small/medium sized manufacturers to build or retrofit manufacturing & industrial facilities to produce or recycle advanced energy products in communities where coal mines or coal power plants have closed

Example Project(s):

To re-equip, expand, or establish a manufacturing or recycling facility for advanced energy technologies; or to re-equip an industrial or manufacturing facility with equipment designed to reduce greenhouse gas emissions.

Notes:

TBD

Applied Research and Development Projects to Drive Industrial Decarbonization

Open Date:

Mar-23

Important Dates:

_ FOA Issue Date: 03/15/2023

_ Submission Deadline for Concept Papers:
04/17/2023 5:00pm ET

_ Submission Deadline for Full Applications:
06/23/2023 5:00pm ET

_ Expected Submission Deadline for Replies to
Reviewer Comments: 07/25/2023 5:00pm ET

_ Expected Date for EERE Selection Notifications:
September 2023

_ Expected Timeframe for Award Negotiations:
September – December 2023

Federal \$ Available (\$Thousands):

\$156,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s): Institutions of higher education; For-profit entities; and Non-profit entities. State, local, and tribal government entities are eligible to participate as a	Eligible Entities: Institutions of higher education; For-profit entities; and Non-profit entities. State, local, and tribal government entities are eligible to participate as a
Grant Information & How to Apply: https://www.energy.gov/eere/amo/iedo-fy23-multi-topic-funding-opportunity-announcement	
Key Federal Contact(s): Questions regarding the FOA must be submitted to: IEDOMultiTopicFOA@ee.doe.gov	
Description: To advance high impact applied research, development, and demonstration (RD&D) projects to reduce greenhouse gas (GHG) emissions across the U.S. industrial sector	
Example Project(s): Topics: Decarbonizing Industrial Heat, Low-Carbon Fuels Utilization RD&D, Exploratory Cross-Sector R&D (includes subtopics: Enabling Flexible Industrial Energy Use & Enhanced Thermal Conductivity Materials), Decarbonizing Chemicals, Decarbonizing Iron and Steel, Decarbonizing Food and Beverage Products, Decarbonizing Cement and Concrete, Decarbonizing Forest Products	
Notes: TBD	

Building America Retrofit Field Validation and Demonstration	
Open Date: Mar-23	Important Dates: Original Published Date: Mar 20, 2023 RFP Offers Due: May 09, 2023
Federal \$ Available (\$Thousands): TBD, up to 8 agreements will be entered for between \$1 & \$4M for up to 5 years	AZ \$ Available (\$Thousands): TBD

Recipient(s): Teams of 4 entities/organizations, including private sector organizations	Eligible Entities: Teams of 4 entities/organizations, including private sector organizations
Grant Information & How to Apply: https://sam.gov/opp/087aec6c020547c7898d3d78ba13f67a/view	
Key Federal Contact(s): Kim.Tangler@nrel.gov	
Description: To develop the solutions & best practices needed to advance energy efficiency in homes	
Example Project(s): Teams will work to conduct collaborative R&D in real-world homes to accelerate local deployment of highly energy efficient, durable, healthy home upgrades & demonstrate equitable & scalable residential retrofit solutions to guide broader implementation in communities across the country.	
Notes: TBD	

Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT)

Open Date: Dec-22	Important Dates: _FOA released December 14, 2022 _Concept paper due February 7, 2023 _Full application due April 5, 2023 _Selection Notifications expected July 2023 https://www.energy.gov/eere/buildings/articles/bto-releases-benefit-202223-funding-opportunity-innovations-electrify
Federal \$ Available (\$Thousands): \$750,000	AZ \$ Available (\$Thousands): TBD
Recipient(s): corporations, universities, nonprofits, national labs	Eligible Entities: corporations, universities, nonprofits, national labs
Grant Information & How to Apply: https://www.energy.gov/eere/buildings/articles/doe-intends-issue-funding-opportunity-innovations-electrify-optimize-and	
Key Federal Contact(s): BENEFIT22@ee.doe.gov	
Description: Development, validation, and demonstration of novel building technologies and retrofit practices that have significant potential for equitable carbon savings through building electrification, energy efficiency, and demand flexibility	
Example Project(s): Areas of interest include: Heating, Ventilation, and Air Conditioning (HVAC) and Water Heating, Heating, Thermal Energy Storage, Battery Energy Storage Systems, Plug Loads/Lighting, Opaque Building Envelopes	
Notes: TBD	

Bus & Bus Facilities (Formula & Competitive Grants)

Open Date:

Jan-22

Important Dates:

_ Program rollout January 27, 2022
_ FY 2023 proposals due by April 13, 2023

Federal \$ Available (\$Thousands):

\$5,127,686

AZ \$ Available (\$Thousands):

66214

Recipient(s):

Businesses

Eligible Entities:

Manufacturing Firms: with annual revenues less than \$100M, less than 500 employees @ the plant site, and annual energy bills between \$100K and \$2.5M

Grant Information & How to Apply:

<https://www.energy.gov/bil/advanced-energy-manufacturing-and-recycling-grants>

Key Federal Contact(s):

_ If you have questions please contact us at 40209Program@hq.doe.gov.

_ If you have any questions, email Matthew.Ringer@nrel.gov

_ EERE Advanced Manufacturing Office _R&D PROJECTS: Isaac Chan , Program Manager, Isaac.Chan@ee.doe.gov

Description:

Grants to small/medium sized manufacturers to build or retrofit manufacturing & industrial facilities to produce or recycle advanced energy products in communities where coal mines or coal power plants have closed

Example Project(s):

To re-equip, expand, or establish a manufacturing or recycling facility for advanced energy technologies; or to re-equip an industrial or manufacturing facility with equipment designed to reduce greenhouse gas emissions.

Notes:

TBD

Clean School Bus Program

Open Date:

May-22

Important Dates:

_ EPA began accepting applications on May 20 2022 through August 19, 2022
_ EPA notifies applicants of selection status Mid- October 2022
_ Selectees submit Payment Request Forms with purchase orders to EPA October 2022 – April 2023
_ Receipt of buses, installation of infrastructure & grant closeout by October 2024

Federal \$ Available (\$Thousands):

\$5,000,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Local Education Agencies (LEA's) (i.e. school districts, charter schools)

Eligible Entities:

Local or state governmental entities; eligible contractors; nonprofit school transportation associations; Indian tribes

Grant Information & How to Apply:

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

Key Federal Contact(s):

_ Comments on the program can be submitted to cleanschoolbus@epa.gov.

Description:

50% of funds are for zero-emission school buses, and 50% for either alternative fuels or zero-emission school buses. Funds may be prioritized for rural or low-income communities and entities that have matching funds available. Covers up to 100% of the costs for the replacement of the bus

Example Project(s):

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Notes:

_ Due to high demand, EPA increased available funding for 1st round funding to \$965 million

_ Clean School Bus Listening Session October 5, 2022

https://usepa.zoomgov.com/webinar/register/WN_fg_iCJPWQ7emDhxUErKa

[jw](#)

_ Clean School Bus Annual Report to Congress due from EPA on January 31 each year.

Cost-effective implementation of updated building energy codes (Building Codes Implementation for Efficiency and Resilience)

Open Date:

Dec-22

Important Dates:

_ Funding Opportunity Announcement issued December 19, 2022

_ Submission Deadline for Concept Papers: January 31, 2023 by 5:00pm ET

_ Submission Deadline for Full Applications: March 27, 2023 by 5:00pm ET

_ Expected Submission Deadline for Replies to Reviewer Comments: April 17, 2023

Federal \$ Available (\$Thousands):

\$225,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Institutions of higher education; For-profit entities; Non-profit entities; & State and local governmental entities, & tribal nations.

Eligible Entities:

State building code agencies, state energy offices, or Tribal energy offices (can be in partnership with local building code agencies; codes & standards developers; associations of builders & design & construction professionals; local & utility energy efficiency programs; consumer, energy efficiency & environmental advocates; & other entities as determined by the Secretary

Grant Information & How to Apply:

<https://www.energy.gov/articles/biden-harris-administration-announces-45-million-bipartisan-infrastructure-law-support>

Key Federal Contact(s):

RECI_FOA@ee.doe.gov

Description:

A competitive grant program to enable sustained, cost-effective implementation of updated building energy codes to save customers money on their energy bills.

Example Project(s):

Partnerships to provide training and materials to builders, contractors, subcontractors, architects, & other design & construction professionals, building code officials on updated building energy codes and practices

Notes:

<https://www.energy.gov/clean-energy-infrastructure/building-codes-implementation-efficiency-and-resilience>

Diesel Emission Reduction Act, DERA (Air Pollution Reduction Investments, Diesel/ movement of goods emissions reductions))

Open Date:

TBD

Important Dates:

EPA anticipates NOFO for 2023 program will open early 2023:
<https://www.epa.gov/dera/national>

Federal \$ Available (\$Thousands):

\$60,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

TBD

Eligible Entities:

Regional, state, local, or tribal transportation or air quality agency; qualifying nonprofit organization or institution; or qualifying private individual/ entity (defined by Energy Policy Act of 2005, 42 U.S.C. § 16132)

Grant Information & How to Apply:

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

Key Federal Contact(s):

TBD

Description:

To identify & reduce diesel emissions resulting from goods movement facilities & vehicles servicing goods movement facilities, in low-income & disadvantaged communities to address the health impacts of such emissions on such communities.

Example Project(s):

Eligible equipment includes: School buses, Class 5 – Class 8 heavy-duty highway vehicles, Locomotive engines, Marine engines, Nonroad engines, equipment or vehicles used in construction, handling of cargo (including at ports or airports), agriculture, mining or energy production (including stationary generators and pumps). Eligible projects include: EPA verified technologies or certified engine configurations, California Air Resources Board (CARB) verified technologies or certified engines, Idle- reduction technologies that are EPA verified, Aerodynamic technologies and low rolling resistance tires that are EPA verified Early engine, vehicle, or equipment replacements with certified engine configurations

Notes:

Grants. Available through 9/30/2031. <https://www.epa.gov/inflation-reduction-act/delivering-cleaner-air>

Energy Efficiency and Renewable Energy Improvements at Schools (Renew America's Schools grant program)

Open Date:

Nov-22

Important Dates:

_RFI due 5/18/2022 @ 5:00PM ET (See links)
_Program opening _November, 2022
_Concept papers due January 26, 2023
_Applications for Energy CLASS Prizes due February 28, 2023:
<https://www.herox.com/energy-class>
_Full application due April 21, 2023
_Selection notifications expected June 16, 2023

Federal \$ Available (\$Thousands):

\$500,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Local Education Agencies (LEA's)
(i.e. school districts, charter schools)

Eligible Entities:

Consortium of one Local Education Agencies and one or more Schools, nonprofits, businesses, and community partners

Grant Information & How to Apply:

<https://www.energy.gov/bil/grants-energy-efficiency-and-renewable-energy-improvements-public-school-facilities>

Key Federal Contact(s):

SchoolsFOA@doe.gov

Description:

Competitive grants to make energy efficiency, renewable energy, & alternative fueled vehicle improvements at public schools

Example Project(s):

Energy efficiency (envelope, HVAC, lighting, controls, etc.), ventilation, renewable energy, alternative vehicles, & alternative fuel vehicle infrastructure improvements

Notes:

TBD

Energy Efficiency Career Skills Training

Open Date:

TBD

Important Dates:

_Applications for funding estimated to open 1st quarter of 2023

Federal \$ Available (\$Thousands):

\$10,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Nonprofits

Eligible Entities:

Nonprofit partnerships that include public or private employers and labor orgs, state and local veterans' agencies, small businesses, workforce investment boards, or ed institutions

Grant Information & How to Apply:

<https://www.energy.gov/bil/career-skills-training>

Key Federal Contact(s):

_State & Local Solutions (EERE) stateandlocal@ee.doe.gov

Description:

Grants to pay the Federal share of career skills training programs under which students concurrently receive classroom instruction & on-the-job training for the purpose of obtaining an industry-related certification to install energy efficient building technologies

Example Project(s):

Grants to pay the Federal share of career skills training programs under which students concurrently receive classroom instruction & on-the-job training for the purpose of obtaining an industry-related certification to install energy efficient building technologies

Notes:

DOE BIL Updates

<https://www.energy.gov/clean-energy-infrastructure/bipartisan-infrastructure-law-programs>

Energy Efficiency Materials Pilot Program (Nonprofit Energy Efficiency)

Open Date:

TBD

Important Dates:

_Estimated application opening date, 1st quarter 2023

Federal \$ Available (\$Thousands):

\$50,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s): Nonprofits	Eligible Entities: Non-Profit Organizations
Grant Information & How to Apply: https://www.energy.gov/bil/energy-efficiency-materials-pilot-program	
Key Federal Contact(s): Responses RFI must be submitted electronically to NonProfitRFI@doe.gov by December 22, 2022	
Description: To provide grants to supply nonprofit buildings with energy-efficiency materials	
Example Project(s): To provide non-profits with energy efficiency materials including a roof or lighting system or component of the system; a window; a door, including a security door; and a heating, ventilation, or air conditioning system or component of the system (including insulation and wiring and plumbing improvements needed to serve a more efficient system)	
Notes: _ RFI comments due December 22, 2022: https://eere-exchange.energy.gov/Default.aspx#Foaldd43d06fe-529c-4525-8fc5-90ca28368aef	

Energy Improvement in Rural or Remote Areas

Open Date: Mar-23	Important Dates: _Submission Deadline for (mandatory) Concept Papers: 04/14/2023, 5 p.m. ET _Energizing Rural Communities applications are due by May 24, 2023: https://www.herox.com/rural-energy _Submission Deadline for Applications: 06/28/2023, 5 p.m. ET
Federal \$ Available (\$Thousands): \$1,000,000	AZ \$ Available (\$Thousands): TBD
Recipient(s): Local Governments	Eligible Entities: Industry Partners, Utilities, National Laboratories, Universities, State and Local Governments, Community Based Organizations, Tribal, and Environmental Groups
Grant Information & How to Apply: https://www.energy.gov/bil/energy-improvement-rural-or-remote-areas	
Key Federal Contact(s): _Office of Clean Energy Demonstrations DL-OCED-Engagement@hq.doe.gov _Submit responses to RFI to ERA@hq.doe.gov by 12/5/22: https://oced-exchange.energy.gov/Default.aspx#Foald4fa22789-a7f5-462d-97a6-d6b4433c4627	
Description: To provide financial assistance to increase environmental protection from the impacts of energy use & improve resilience, reliability, safety, & availability of energy in rural or remote areas of the United States.	
Example Project(s): Cost-effectiveness of energy generation, transmission, or distribution systems; siting or upgrading transmission and distribution lines; reducing greenhouse gas emissions from energy generation by rural or remote areas; (D) providing or modernizing electric generation facilities; developing microgrids; & increasing energy efficiency	
Notes: _Watch program conference video here: https://www.youtube.com/watch?v=whJS_B6gVbA _Informational Webinar: 03/29/2023, 1 p.m. ET: https://www.energy.gov/oced/era-funding-opportunity-announcement-informational-webinar	

Environmental Justice Collaborative Problem-Solving (EJCPS) Cooperative Agreement Program

Open Date:

Jan-23

Important Dates:

_ \$30M for 2023 EJCPS rolled out on January 10, 2023

_ Application packages for EJCPS must be submitted on or before April 14, 2023

Federal \$ Available (\$Thousands):

\$3,000,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Community based nonprofit organizations (CBOs) or partnerships of CBOs

Eligible Entities:

Community based nonprofit organizations (CBOs) or partnerships of CBOs

Grant Information & How to Apply:

<https://www.epa.gov/environmentaljustice/environmental-justice-grants-funding-and-technical-assistance>

Key Federal Contact(s):

Capilla.Morgan@epa.gov, Burney.Jacob@epa.gov, Burrell.Omari@epa.gov

_ Pro-bono technical assistance: <https://www.environmentalprotectionnetwork.org/epn-tech-assis-work/>

<https://www.environmentalprotectionnetwork.org/community-outreach-associates/>

Description:

To support air pollution reduction; climate and health risk mitigation; and climate resiliency and adaptation. Awards from this Environmental Justice program will be made directly to nonprofit community based organizations. EPA will award approximately 50 awards in the amount of \$550,000 and 33 awards of \$150,000 to nonprofits with 5 or fewer full-time employees

Example Project(s):

Pollution monitoring, prevention, & remediation. Low & zero-emission resilient technologies & workforce development. Mitigating climate & health risks from urban heat islands, extreme heat, wood heater emissions, & wildfire events. Climate resiliency & adaptation. Reducing indoor air pollution & toxics. Facilitating community engagement in public processes. Technical assistance.

Notes:

_RFI comments due March 17, 2023: <https://www.epa.gov/inflation-reduction-act/inflation-reduction-act-environmental-and-climate-justice-program>

Environmental Justice Government to Government (EJ2G) Program

Open Date:

Jan-23

Important Dates:

_ \$70M for 2023 EJ2G rolled out on January 10, 2023

_ Application packages for EJ2G must be submitted on or before April 14, 2023

Federal \$ Available (\$Thousands):

\$3,000,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Partnerships between state, local, Tribal government & CBO(s)

Eligible Entities:

Partnerships between state, local, Tribal government & nonprofit CBO(s)

Grant Information & How to Apply:

<https://www.epa.gov/environmentaljustice/environmental-justice-grants-funding-and-technical-assistance>

Key Federal Contact(s):

Capilla.Morgan@epa.gov, Burney.Jacob@epa.gov, Burrell.Omari@epa.gov

_ Pro-bono technical assistance: <https://www.environmentalprotectionnetwork.org/epn-tech-assis-work/>

<https://www.environmentalprotectionnetwork.org/community-outreach-associates/>

Description:

To support air pollution reduction; climate and health risk mitigation; and climate resiliency and adaptation. Awards from this Environmental Justice program will be made to state, local or Tribal governments to partner with community based nonprofit organizations.

Example Project(s):

Pollution monitoring, prevention, & remediation. Low & zero-emission resilient technologies & workforce development. Mitigating climate & health risks from urban heat islands, extreme heat, wood heater emissions, & wildfire events. Climate resiliency & adaptation. Reducing indoor air pollution & toxics. Facilitating community engagement in public processes. Technical assistance.

Notes:

_ RFI comments due March 17, 2023: <https://www.epa.gov/inflation-reduction-act/inflation-reduction-act-environmental-and-climate-justice-program>

_ for 2023 cycle, \$20M available for States, \$20M for local government agencies, \$20M for Tribes, & \$10M for territories.

_ Awards will be approximately \$1M each

Environmental Justice Thriving Communities Grantmaking (EJ TCGM) Program

Open Date:

Feb-23

Important Dates:

_ \$550M for 2023 EJTCGM rolled out on February 23, 2023

_ EJ Thriving Communities Grantmaking Program applications are due May 31, 2023: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=346337>

_ National announcement of EJ TCGM awards October 2023

Federal \$ Available (\$Thousands):

\$3,000,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

EJ TCGM subrecipients: CBOs, Tribes, Intertribal consortia, Native American Organizations

Eligible Entities:

EJ TCGM: nonprofit CBO(s) or partnerships of CBOs with other CBOs, Tribes or institutions of higher education

Grant Information & How to Apply:

<https://www.epa.gov/environmentaljustice/environmental-justice-thriving-communities-grantmaking-program>

Key Federal Contact(s):

Capilla.Morgan@epa.gov, Burney.Jacob@epa.gov, Burrell.Omari@epa.gov

_ Pro-bono technical assistance: <https://www.environmentalprotectionnetwork.org/eptech-assis-work/>

<https://www.environmentalprotectionnetwork.org/community-outreach-associates/>

Description:

To support air pollution reduction; climate and health risk mitigation; and climate resiliency and adaptation. Awards from this grant will go to 11 selected organizations who will make subawards to nonprofit organizations to begin projects by November 1, 2023.

Example Project(s):

Pollution monitoring, prevention, & remediation. Low & zero-emission resilient technologies & workforce development. Mitigating climate & health risks from urban heat islands, extreme heat, wood heater emissions, & wildfire events. Climate resiliency & adaptation. Reducing indoor air pollution & toxics. Facilitating community engagement in public processes. Technical assistance.

Notes:

TBD

FY22 Advanced Materials & Manufacturing Technologies—Building Technologies Office Multi-topic Funding Opportunity

Open Date:

Jan-23

Important Dates:

_FOA Issue Date: 01/04/2023
_Submission Deadline for Concept Papers: 2/3/2023 5:00pm ET
_Submission Deadline for Full Applications: 4/7/2023 5:00pm ET
_Expected Deadline for Replies to Reviewer Comments: 5/11/2023
_Expected Date for EERE Selection Notifications: 8/7/2023
_Expected Timeframe for Award Negotiations: Aug-Sep 2023

Federal \$ Available (\$Thousands):

\$52,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

TBD

Eligible Entities:

Industry, small business, universities, national laboratories, state and local governments

Grant Information & How to Apply:

<https://www.energy.gov/eere/amo/ammto-fy22-multi-topic-foa>

Key Federal Contact(s):

TBD

Description:

To enhance manufacturing competitiveness through technological innovation in these areas: 1) Next Generation Materials & Manufacturing, 2) Secure & Sustainable Materials, & 3) Energy Technology Manufacturing & Workforce Development

Example Project(s):

Subtopics include: Increased Conductivity Metals, Harsh Environment Materials, AI/Machine Learning for Aerostructures, Materials Circularity Regional Pilot Demonstrations, Electric Vehicle Battery Manufacturing: cathode active materials (CAMs), Building Dehumidification Scaleup,

Notes:

TBD

Grid Resilience Utility and Industry Grants

Open Date:

Nov-22

Important Dates:

_ Program rollout November 18, 2022
_ Submission Deadline for Concept Papers December 16, 2022 (40101(c))
_ Submission Deadline for Full Applications for Grid Resilience Utility and Industry Grants portion of program April 6, 2023 (40101(c))
_ Expected Date for DOE Selection Notifications Summer 2023 (40101(c))
_ Expected Timeframe for Award Negotiations Fall 2023 (40101(c))

Federal \$ Available (\$Thousands):

\$2,500,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

TBD

Eligible Entities:

Electric Grid Operators, Electricity Storage Operators, Electricity Generators, Transmission Owners and Operators, Distribution Providers, Fuel Suppliers (40101(c))

Grant Information & How to Apply:

<https://www.energy.gov/gdo/grid-resilience-utility-and-industry-grants>

Key Federal Contact(s):

_ Office of Electricity OEwebmaster@hq.doe.gov

_ Ms. Michelle Manary, Acting Deputy Assistant Secretary, Electricity Delivery Division, Office of Electricity; Telephone: (202) 586-1411 or ElectricityDelivery@hq.doe.gov

_ the following email was provided for input during the 5/5/22 webinar:

40101formulagrants@hq.doe.gov

_ Q&A related to FOA will be posted on the FedConnect portal at: <https://www.FedConnect.net>

Description:

To prevent outages and enhance the resilience of the electric grid

Example Project(s):

For activities supplemental to existing hardening efforts to reduce the risk of power lines causing a wildfire; or mitigate the risk disruptive events

Notes:

GRIP Topic Area 1:

<https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%3dDE-FOA-0002740%26agency%3dDOE&doc=DE-FOA-0002740&agency=DOE>

High-Efficiency Electric Home Rebate Program

Open Date:

TBD

Important Dates:

_ States may request early administrative funding on an ongoing basis:
https://www.energy.gov/sites/default/files/2023-03/Home_Energy_Rebates_ALRD.pdf

_ Funding anticipated to be available by Mid 2023 according to 12/8/22 informational webinar

Federal \$ Available (\$Thousands):

\$4,275,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Individuals and owners of multifamily building; Eligible recipients must fall below 150% of the area median income

Eligible Entities:

Individuals and owners of multifamily buildings; administered by State Energy Offices

Grant Information & How to Apply:

<https://www.energy.gov/articles/biden-harris-administration-announces-state-and-tribe-allocations-home-energy-rebate>

Key Federal Contact(s):

IRAHomeRebates@hq.doe.gov

Description:

To provide rebates for high-efficiency electrification projects (state administered)

Example Project(s):

To develop & implement State high-efficiency electric home rebate program. \$14,000 per household including \$8,000 for heat pumps, \$1,750 for heat pump water heaters, & \$840 for electric stoves. Includes rebates for improvements to electrical panels or wiring and home insulation or sealant.

Notes:

Available through 9/30/2031. New program

_Caps: \$1,750 for heat pump water heater, \$8,000 for heat pump for space heating or cooling, \$840 for electric stove, cooktop, range, oven or electric heat pump clothes dryer, \$4,000 for electric load service center upgrade,

\$1,600 for insulation, air sealing & ventilation, \$2,500 for electric wiring

_Capped at 50% of cost for residents with annual income 80% or above, but not greater than 150% of area median income

_Capped at total of \$14,000 in rebates per entity

HOMES Rebate Program (Home Energy Performance-Based Whole House Rebates)

Open Date:

TBD

Important Dates:

_States may request early administrative funding on an ongoing basis:

https://www.energy.gov/sites/default/files/2023-03/Home_Energy_Rebates_ALRD.pdf

_Full Funding anticipated to be available by Spring of 2023

Federal \$ Available (\$Thousands):

\$4,300,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s): Individuals and owners of multifamily buildings	Eligible Entities: Individuals and owners of multifamily buildings; Administered by State Energy Offices
Grant Information & How to Apply: https://www.energy.gov/articles/biden-harris-administration-announces-state-and-tribe-allocations-home-energy-rebate	
Key Federal Contact(s): _ DOE prefers RFI responses that are submitted via this online form: https://forms.office.com/g/iuwKCbKpJK _ Responses may also be submitted by email to IRAHomeRebates@hq.doe.gov	
Description: To provide rebates for whole-house energy saving retrofits (state administered)	
Example Project(s): To provide rebates to homeowners & aggregators for whole-house energy saving retrofits begun on or after August 16, 2022. Additional funding available to individuals who earn less than 80% of area median income.	
Notes: Covers: lesser of \$2k or 50% for projects with energy savings 20% or above, less than 35% _ lesser of \$4k or 50% on projects with savings 35%+ _ a set rate per Kwh saved or 50% of project cost for savings above 15% but less than 20% _ Available through 9/30/2031. New program _ RFI Comments due by March 3, 2023: https://eere-exchange.energy.gov/Default.aspx#Foald01172e95-5645-4356-8f3b-96fd144f9213	

Industrial Decarbonization and Emissions Reduction Demonstration-to-Deployment (Advanced Industrial Facilities Deployment Program)

Open Date: Mar-23	Important Dates: _Funding Opportunity Announcement Issue Date: 03/08/2023 _Submission Deadline for Concept Papers: 04/21/2023 / 5:00pm ET _Informational Webinar: 05/2023 / Date and Time TBD _Submission Deadline for Applications: 08/04/2023 / 5:00pm ET
Federal \$ Available (\$Thousands): \$4,300,000	AZ \$ Available (\$Thousands): TBD
Recipient(s): Technology Developers, Industry, Manufacturers, Universities, National Laboratories, Engineering & Construction firms, State & Local Governments, Environmental Groups, & Community Based Organizations	Eligible Entities: Technology Developers, Industry, Manufacturers, Universities, National Laboratories, Engineering and Construction firms, State and Local Governments, Environmental Groups, and Community Based Organizations. Owner or operator of a nonpower, energy-intensive industrial or manufacturing facility
Grant Information & How to Apply: https://oced-exchange.energy.gov/Default.aspx#Foald3d36f88c-0527-4539-b90b-41895ad5edb2	
Key Federal Contact(s): OCED_Industrial@hq.doe.gov DL-OCED-Engagement@hq.doe.gov	
Description: Projects aimed at reducing emissions from energy intensive industries. Prioritizes projects with greatest GHG reduction benefit & greatest benefit to largest number of people at facility location. To fund demonstration projects that test and validate technologies that reduce industrial emissions	
Example Project(s): Specific industrial production technologies & processes that achieve emissions reductions. Engineering, retrofits, upgrades, improvements, purchase, installation or implementation of advanced industrial technology to reduce emissions. Includes iron, steel, concrete, glass, pulp, paper, ceramics, and chemical production	
Notes: Available through 9/30/2026	

Industrial Efficiency and Decarbonization

Open Date:

Sep-22

Important Dates:

_ Program rollout (2022 round) September 7, 2022
 _ Concept papers (2022 round) due October 12, 2022
 _ Full application deadline (2022 round) January 4, 2023
 _ Notice of Intent for new 2023 round of funding issued March 2, 2023: <https://www.energy.gov/eere/amo/articles/departmen t-energy-issues-notice-intent-fund-applied-research- and-development-0>
 _ Funding Opportunity Announcement for 2023 round is expected in March 2023
 _ Award selection notifications (2022 round) April 2023

Federal \$ Available (\$Thousands):

\$104,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Open to for-profit entities, educational institutions, nonprofits, States, local governments, tribal governments & others as specified in the FOA. ADOA, a state energy office or ACA could potentially support grant program.

Eligible Entities:

Open to for-profit entities, educational institutions, nonprofits, States, local governments, tribal governments & others as specified in the FOA

<https://www.energy.gov/articles/biden-harris-administration-releases-bold-agenda-reduce-emissions-across-america>

Key Federal Contact(s):

TBD

Description:

Applied R&D, prototype or pilot-scale technology validation & demonstration projects to expedite adoption of transformational industrial technology to increase energy efficiency across industry & in high GHG-emitting industrial subsectors, reducing both energy usage & GHG emissions

Example Project(s):

Includes cross-sector industrial decarbonization approaches via opportunities in energy efficiency; industrial electrification; low carbon fuels, feedstocks & energy sources; & industrial carbon capture & utilization

Notes:

TBD

Rural Energy for America Program (REAP)

Open Date:

Dec-22

Important Dates:

_ Program rollout December 16, 2022
 _ Energy Audit & Renewable Energy Development Assistance (EA/REDA) applications due 1/31/2023
 _ Renewable Energy Systems and Energy Efficiency Improvement grant applications (RES/EEI) due 3/31/2023: <https://www.rd.usda.gov/programs-services/energy-programs/rural-energy-america-program-renewable-energy-systems-energy-efficiency-improvement-guaranteed-loans>
 _ Guaranteed Loan applications open on ongoing basis

Federal \$ Available (\$Thousands):

\$1,721,633

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Rural small businesses, agricultural producers

Eligible Entities:

Rural small businesses, agricultural producers

Grant Information & How to Apply:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=344872>

Key Federal Contact(s):

_ Jessie Huff, USDA Rural Development, 230 N. 1st Avenue, Suite 206, Phoenix, AZ 85003-1706, Tel: (602) 280-8767, jessie.huff@usda.gov

<http://www.rd.usda.gov/az>

_ Jonathan Burns, Program Management Division, Rural Business-Cooperative Service, United States Department of Agriculture, 774-678-7238 or email CPgrants@usda.gov

Description:

Develop energy efficiency and renewables for agricultural producers and rural small business

Example Project(s):

For renewable energy systems, energy efficiency improvements, hydrogen & fuel cell technologies & underutilized renewable energy technologies

Notes:

Grants. Available through 9/30/2031: <https://www.rd.usda.gov/inflation-reduction-act#fn>

RFI comments due November 28, 2022:

<https://www.federalregister.gov/documents/2022/10/28/2022-23519/inflation-reduction-act-listening-session>

Rural Energy for America Program (REAP) Renewable Energy and Energy Efficiency Loans and Grants

Open Date:

Nov-21

Important Dates:

_Program rollout November 22, 2021

_USDA Announced awards on August 24, 2022

_Applications for set aside due on October 31, 2022

_Application for subsequent round due March 31, 2023

Federal \$ Available (\$Thousands):

TBD

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

East Valley Flank Vineyards, AZCA Drilling & Pump, Arizona Autowash #10, Crossroads Self Storage, CC Deer Trail, GLF9 Route 66 Ranch LLC, Echo Canyon Vineyard LLC, Intention Property Management, Page Springs Cellars Inc

Eligible Entities:

State, local governments, tribes, institutions of higher education, rural electric cooperatives, public power entities, a resource Conservation & Development Council. Funding is used for assistance to rural small businesses & agricultural producers

Grant Information & How to Apply:

Federal Register Announcement:

<https://www.govinfo.gov/content/pkg/FR-2021-11-22/pdf/2021-25326.pdf>

Key Federal Contact(s):

TBD

Description:

Assists rural small businesses and agricultural producers by conducting and promoting energy audits and providing Renewable Energy Development Assistance

Example Project(s):

Energy audits.
Renewable energy technical assistance.
Renewable energy site assessments.

Notes:

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

Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR)

Open Date:

Aug-22

Important Dates:

For FY 2023 Cycle _1st Release
_FOA Issued: Monday, August 8, 2022
_Application Due Date: Tuesday, October 11, 2022
_Award Notification Date: Tuesday, January 10, 2023
For FY 2023 Cycle _2nd Release
_Topics document released November 7, 2022
_FOA Issue Date (\$13M total): December 12, 2022
_Letter of Intent Due Date: January 3, 2023
_Application Due Date: February 23, 2023
_Award Notification Date: May 15, 2023

Federal \$ Available (\$Thousands):

\$137,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s):

Small, independent U.S. businesses with not more than 500 employees

Eligible Entities:

Small, independent U.S. businesses with not more than 500 employees

Grant Information & How to Apply:

2023 Phase 2 FOA: https://science.osti.gov/-/media/grants/pdf/foas/2023/SC_FOA_0002903.pdf

Key Federal Contact(s):

_Contacts vary depending on Topic Area. Contacts can be found in this document for topic areas: <https://science.osti.gov/-/media/sbir/pdf/TechnicalTopics/FY23-Phase-I-Release-1-Combined-TopicsV207152022.pdf>

_For questions about budgets and eligibility: Carl Hebron, (301) 903-5707, SBIR-STTR@science.doe.gov

Description:

To transform DOE-supported science and technology breakthroughs into viable products & services. The awards also support the development of specialized technologies & instruments that aid in scientific discovery

Example Project(s):

Covers multiple mission areas, including: Advanced Materials and Manufacturing Technologies; Fuel Cell and Electrolyzer Recycling; Decarbonization of Agriculture, Buildings, Transport, Industry and their Communities; Industrial Efficiency and Decarbonization

Notes:

<https://science.osti.gov/sbir>

Solar & Wind Grid Services & Reliability Demonstration

Open Date:

Aug-22

Important Dates:

_Program rollout August 2, 2022
_Concept Papers due September 15, 2022
_Submission deadline for full applications November 17, 2022
_Expected deadline for replies to reviewer comments December 15, 2022
_Expected date for EERE Selection (award) Notifications Mid-April 2023
(See Q&A Log @ <https://eere-exchange.energy.gov/Default.aspx#FoalId06eb81bc-a88e-4560-89fa-d465a29fff62>)

**Federal \$ Available
(\$Thousands):**

AZ \$ Available (\$Thousands):

TBD

\$100,000	
Recipient(s): Institutions of higher education; For-profit entities; Non-profit entities; & State & local governmental entities, & Tribal Nations.	Eligible Entities: Institutions of higher education; For-profit entities; Non-profit entities; & State & local governmental entities, & Tribal Nations.
Grant Information & How to Apply: https://www.energy.gov/eere/solar/articles/funding-notice-solar-and-wind-grid-services-and-reliability-demonstration	
Key Federal Contact(s): _ For questions about FOA email SI.Grid-FOA.SETO@ee.doe.gov _ To apply to FOA, applicants must register with & submit application materials through EERE Exchange at https://eere-Exchange.energy.gov	
Description: For solar & wind research, development, demonstration, & commercialization activities.	
Example Project(s): This includes establishing demonstration facilities and projects, conducting analyses & studies, & conducting education & outreach in support of solar & wind technologies.	
Notes: https://www.energy.gov/eere/solar/solar-energy-technologies-office	

Underserved and Indigenous Community Microgrids	
Open Date: TBD	Important Dates: _ Funding Opportunity Announcement expected by the end of January 2023

Federal \$ Available (\$Thousands): \$9,100	AZ \$ Available (\$Thousands): TBD
Recipient(s): TBD	Eligible Entities: Indigenous communities. Other groups of individuals, households & businesses in geographic proximity to one another that meet the following criteria: _ 30% of the community population is classified as low income _ Median spending of household income on energy bills ≥6%
Grant Information & How to Apply: https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%3fagency%3dDOE%26doc%3dDE-FOA-0002933%26utm_medium%3demail%26utm_source%3dgovdelivery&agency=DOE&doc=DE-FOA-0002933&utm_medium=email&utm_source=govdelivery	
Key Federal Contact(s): TBD	
Description: Coordinated R&D of microgrid-related technologies, with a focus on underserved and Indigenous communities	
Example Project(s): Research on development & deployment of advanced microgrid-enabling technologies, including renewable generation & storage systems, multi-nodal small-scale high-voltage direct current, advanced demand-side management strategies, & microgrid control systems	
Notes: https://www.energy.gov/indianenergy/current-funding-opportunities	

Zero-Emission Heavy-Duty Vehicle Investments (Clean Heavy-Duty Vehicles)

Open Date: TBD	Important Dates: _IRA sets deadline of 180 days after enactment (February 2023) for EPA to implement this grant/ rebate program _Funding availability notice expected Q1 2023
Federal \$ Available (\$Thousands): \$1,000,000	AZ \$ Available (\$Thousands): TBD
Recipient(s): TBD	Eligible Entities: State, municipality, Tribe, nonprofit school transportation association. Entities with capacity to arrange financing, sell, lease, license or contract for service or charging of zero-emission vehicles are eligible to participate as contractors.
Grant Information & How to Apply: https://www.epa.gov/air-and-radiation/inflation-reduction-act-non-regulatory-dockets-public-input	
Key Federal Contact(s): You may submit feedback on program to cleanhdvehicles@epa.gov .	
Description: Contribute to purchase of zero-emission clean heavy-duty vehicles. \$400m set-aside for non-attainment areas (with high levels of air pollution)	
Example Project(s): Zero-emission vehicles. Purchase, installation, maintenance & operation of zero-emission vehicle infrastructure. Workforce development & training to support zero-emission operations. Planning & technical activities to support zero-emission adoption & deployment	
Notes: _Grants. Available through 9/30/2031. New program. Heavy duty vehicles include vehicles such as school buses & garbage trucks _\$400M for non-attainment areas _RFI comments due January 18, 2023: https://www.regulations.gov/docket/EPA-HQ-OAR-2022-0874/document _EPA environmental justice IRA grants: https://www.epa.gov/inflation-reduction-act/advancing-environmental-justice	