

Bipartisan Infrastructure Law and Inflation Reduction Act

Arizona Clean Energy Investments

January 2023 Snapshot Report

The following are federal energy and infrastructure related grants and opportunities in Arizona from present thru March 31, 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.**

Battery Recycling, Research, Development & Demonstration Grants (Battery & Critical Mineral Recycling)	
Open Date:	Important Dates:
May 2022	- Responses to Request for Information due October 14, 2022 (https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9) - Estimated application opening date, 4th quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$60,000	TBD
Recipient(s): applications not open yet.	Eligible Entities: Institutions of higher education, national laboratories, federal & state research agencies, nonprofits, industrial entities; manufacturing entities, private battery-collection entities, entities operating battery recycling activities; state or municipal government entities, battery producers & retailers, a consortium of 2 or more entities as described in the bill
How to Apply: TBD	
Key Federal Contact: -Responses to RFI must be submitted to bil-batterymanufacturing@hq.doe.gov and include "BIL-Battery Recycling RFI" in the subject line no later than 5:00pm (ET) on October 14, 2022. - Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov	
Description: To award grants for research, development, and demonstration projects to create innovative and practical approaches to increase the reuse and recycling of batteries.	

Example Project(s):

- R&D/demonstration projects to address battery recycling activities; development of methods to promote development of batteries designed to be recyclable/reusable/recoverable. Includes variety of activities such as increasing consumer participation in recycling; developing markets for recycled & recovered materials; safe disposal; protection of health and safety; mitigation of environmental impacts; & protection of data privacy

Links:

- RFI comments due October 14, 2022: <https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9>
- <https://www.energy.gov/bil/battery-and-critical-mineral-recycling>

State Battery Collection, Recycling & Reprocessing (Battery & Critical Mineral Recycling)

Open Date:	Important Dates:
May 2022	- Responses to Request for Information due October 14, 2022 (https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9) - Estimated application opening date, 4th quarter 2022.
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$50,000	TBD
Recipient(s): Utilities	Eligible Entities: Institutions of higher education, national laboratories, federal & state research agencies, nonprofits, industrial entities; manufacturing entities, private battery-collection entities, entities operating battery recycling activities; state or municipal government entities, battery producers & retailers, a consortium of 2 or more entities as described in the bill
How to Apply: TBD	
Key Federal Contact: - Responses to RFI must be submitted to bil-batterymanufacturing@hq.doe.gov and include "BIL-Battery Recycling RFI" in the subject line no later than 5:00pm (ET) on October 14, 2022. - Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov	

Description: Grants for R&D and demonstration projects to create innovative & practical approaches to increase the reuse & recycling of batteries

Example Project(s):

- R&D/demonstration projects to address battery recycling activities; development of methods to promote development of batteries designed to be recyclable/reusable/recoverable. Includes variety of activities such as increasing consumer participation in recycling; developing markets for recycled & recovered materials; safe disposal; protection of health and safety; mitigation of environmental impacts; & protection of data privacy

Links:

- RFI comments due October 14, 2022: <https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9>
- <https://www.energy.gov/bil/battery-and-critical-mineral-recycling>

Battery Collection by Retailers

Open Date:	Important Dates:
	- Responses to Request for Information due October 14, 2022 (https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9) - Estimated application opening date, 4th quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$15,000	TBD
Recipient(s): n/a	Eligible Entities: Retailers that sell covered batteries or covered battery-containing products
<p>How to Apply: -Responses to RFI must be submitted to bil-batterymanufacturing@hq.doe.gov and include "BIL-Battery Recycling RFI" in the subject line no later than 5:00pm (ET) on October 14, 2022. - Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov</p>	
Key Federal Contact:	

Description: To establish and implement a system for the acceptance and collection of covered batteries and covered battery-containing products, as applicable, for reuse, recycling, or proper disposal

Links:

- <https://www.energy.gov/bil/battery-and-critical-mineral-recycling>

Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency (Grid Innovation)

Open Date:	Important Dates:
May 2022	<ul style="list-style-type: none"> - Submission Deadline for Concept Papers January 13, 2023 - Submission Deadline for Full Applications May 19, 2023 - Expected Date for DOE Selection Notifications Fall 2023 - Expected Timeframe for Award Negotiations Winter 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$5,000,000	TBD
Recipient(s): Universities, Utilities	Eligible Entities: State, combination of 2 or more States; Indian Tribes; units of local government, and/or public utility commissions.

How to Apply:

- Office of Electricity - OEwebmaster@hq.doe.gov
- Ms. Michelle Manary, Acting Deputy Assistant Secretary, Electricity Delivery Division, Office of Electricity, (202) 586-1411 or ElectricityDelivery@hq.doe.gov
- Office of Clean Energy Demonstrations - DL-OCED-Engagement@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 demonstrate innovative approaches to transmission, storage, & distribution infrastructure to harden & enhance resilience & reliability; & to demonstrate new approaches to enhance regional grid resilience

Example Project(s):

- To coordinate & collaborate with electric sector owners & operators to demonstrate innovative approaches to transmission, storage, & distribution infrastructure to harden & enhance resilience & reliability; & to demonstrate new approaches to enhance regional grid resilience, implemented through States by public & rural electric cooperative entities

Links:

- GRIP Topic Area 3:
<https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%3dDE-FOA-0002740%26agency%3dDOE&doc=DE-FOA-0002740&agency=DOE>
- <https://www.energy.gov/gdo/grid-innovation-program>

Smart Grid Investment Matching Grant Program (Deployment of Technologies to Enhance Grid Flexibility)

Open Date:	Important Dates:
N/A	<ul style="list-style-type: none"> - Submission Deadline for Concept Papers December 16, 2022 - Submission Deadline for Full Applications March 17, 2023 - Expected Date for DOE Selection Notifications Summer 2023 - Expected Timeframe for Award Negotiations Fall 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$3,000,000	TBD
Recipient(s): Utilities, Institutions of higher education; For-profit entities; Non-profit entities; and State and local governmental entities, and tribal nations	Eligible Entities: Utilities, Institutions of higher education; For-profit entities; Non-profit entities; and State and local governmental entities, and tribal nations
<p>How to Apply: -Comments on RFI to coordinate this program with other grid grants programs in sections 40101 & 40107 due October 14, 2022 to DORFI@hq.doe.gov - Q&A related to FOA will be posted on the FedConnect portal at: https://www.FedConnect.net</p>	
<p>Description: Funding & expansion of eligible activities under the Smart Grid Investment Matching Grant Program</p> <p>Example Project(s):</p> <ul style="list-style-type: none"> • Qualifying Smart Grid investments including for installation, that allow buildings to engage in demand flexibility or Smart Grid functions <p>Links:</p>	

- GRIP Topic Area 2:
<https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%3dDE-FOA-0002740%26agency%3dDOE&doc=DE-FOA-0002740&agency=DOE>
- <https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%3dDE-FOA-0002827%26agency%3dDOE&doc=DE-FOA-0002827&agency=DOE>
- <https://www.energy.gov/bil/deployment-technologies-enhance-grid-flexibility>

Regional Clean Hydrogen Hubs	
Open Date:	Important Dates:
Program rollout September 22, 2022	<ul style="list-style-type: none"> - Concept papers due November 7, 2022 - Notifications to encourage or discourage application based on concept papers December 2022 - Submission deadline for full applications April 7, 2023 - Expected Submission Deadline for Replies to Reviewer Comments May 31, 2023 - Pre-Selection Interviews Summer 2023 - Expected Date for DOE Selection Notifications Fall 2023 - Expected Timeframe for Award Negotiations Winter 2023 - 2024
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$8,000,000	\$TBD
Recipient(s): N/A (Arizona does not appear to currently be part of a regional hydrogen hub)	Eligible Entities: Technology Developers, Industry, Utilities, Universities, National Laboratories, Engineering and Construction firms, State and Local Governments, Tribal, Environmental Groups, and Community Based Organizations.
How to Apply: TBD	
Description: To support the development of at least 4 regional clean hydrogen hubs to improve clean hydrogen production, processing, delivery, storage, and end use	
Program Uses(s):	
<ul style="list-style-type: none"> • Projects that demonstrate the production, processing, delivery, storage, and end-use of, clean hydrogen through regional clean hydrogen hubs (networks of clean hydrogen producers, potential clean hydrogen consumers, and connective infrastructure located in close proximity). 	

Links:

- Request for Information Announced: <https://eere-exchange.energy.gov/Default.aspx#Foald5d96172f-e9b6-48ff-94ac-5579c3531526>. Applications for funding will open in the Summer of 2022.
- <https://www.energy.gov/bil/regional-clean-hydrogen-hubs>
- <https://eere-exchange.energy.gov/Default.aspx#Foald5d96172f-e9b6-48ff-94ac-5579c3531526>

Long-Duration Energy Storage Demonstration Initiative and Joint Program

Open Date:	Important Dates:
N/A	<p>-1-Page Letter of Intent due on (for lab calls) November 2, 2022 https://oced-exchange.energy.gov/Default.aspx#Foaldffa05d6b-7d3f-4b8d-99ff-8e60dcc39552</p> <p>- FOA issued November 10, 2022: https://oced-exchange.energy.gov/Default.aspx#Foald2cde5bff-2781-4219-b65d-8f04a63f47cf</p> <p>- Letter of Intent due on December 15, 2022</p> <p>- Submission deadline for full applications March 3, 2023</p> <p>- Selection notifications Summer 2023</p> <p>- Award negotiations Fall 2023</p>
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$505,000	\$TBD
Recipient(s): N/A (part of a Federal program between DOD & DOE)	Eligible Entities: Technology Developers, Industry, State and Local Governments, Tribal Organizations, Community Based Organizations, National Laboratories, Universities, and Utilities
How to Apply: n/a ; Key Federal Contact: Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov	
<p>Description: To establish a demonstration initiative composed of demonstration projects focused on the development of long-duration energy storage technologies. Projects that demonstrate long-duration energy storage technologies and help new long-duration energy storage technologies become commercially viable.</p> <p>- \$39 million is for lithium-based energy storage systems</p>	

- \$310 million is for non-lithium-based energy storage systems
RFI announcement: https://www.energy.gov/articles/biden-administration-launches-bipartisan-infrastructure-laws-505-million-initiative-boost?utm_medium=email&utm_source=govdelivery

Links:

- <https://www.energy.gov/long-duration-energy-storage-demonstration-initiative-and-joint-program>

Industrial Emission Demonstration Projects

Open Date:	Important Dates:
4/1/2022	- Applications estimated to open in 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$500,000	\$TBD
Recipient(s): Application not open yet	Eligible Entities: Technology Developers, Industry, Manufacturers, Universities, National Laboratories, Engineering and Construction firms, State and Local Governments, Environmental Groups, and Community Based Organizations
How to Apply: TBD	
Key Federal Contacts: - Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov	
Description: To fund demonstration projects that test and validate technologies that reduce industrial emissions. Specific industrial production technologies & processes that achieve emissions reductions.	
Example Project(s):	
<ul style="list-style-type: none"> • TBD 	
Links:	
<ul style="list-style-type: none"> • https://www.energy.gov/bil/industrial-emission-demonstration-projects 	

Energy Efficiency and Renewable Energy Improvements at Schools (Renew America's Schools grant program)	
Open Date:	Important Dates:
5/18/2022	<ul style="list-style-type: none"> - RFI due 5/18/2022 @ 5:00PM ET (See links) - Formulas for allocating program funds to Local Governments, States, & Tribes published on June 29, 2022 (See notes) - 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
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$500,000	\$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
How to Apply: Responses to RFI must be submitted electronically to SchoolsRFI@ee.doe.gov no later than 5:00pm (ET) on May 18th, 2022	
Key Federal Contacts: Responses to RFI must be submitted electronically to SchoolsRFI@ee.doe.gov no later than 5:00pm (ET) on May 18th, 2022	
Description: Competitive grants to make energy efficiency, renewable energy, & alternative fueled vehicle improvements at public schools. Energy efficiency (envelope, HVAC, lighting, controls, etc.), ventilation, renewable energy, alternative vehicles, & alternative fuel vehicle infrastructure improvements.	
Example Project(s): <ul style="list-style-type: none"> • Energy efficiency (envelope, HVAC, lighting, controls, etc.), ventilation, renewable energy, alternative vehicles, & alternative fuel vehicle infrastructure improvements 	
Links: <ul style="list-style-type: none"> • Allocation Formula: https://www.federalregister.gov/documents/2022/06/29/2022-13859/notice-of-availability-of-state-local-and-tribal-allocation-formulas-for-the-energy-efficiency-and • https://www.energy.gov/bil/grants-energy-efficiency-and-renewable-energy-improvements-public-school-facilities 	

Energy Improvement in Rural or Remote Areas	
Open Date:	Important Dates:
9/1/2022	- Request for Information comments due November 28, 2022: https://oced-exchange.energy.gov/Default.aspx#Foald4fa22789-a7f5-462d-97a6-d6b4433c4627 - Planning a funding announcement in Q2 of 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$1,000,000	\$TBD
Recipient(s): Local Governments	Eligible Entities: Industry Partners, Utilities, National Laboratories, Universities, State and Local Governments, Community Based Organizations, Tribal, and Environmental Groups
How to Apply: Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov	
Key Federal Contact: - Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov - Submit responses to RFI to ERA@hq.doe.gov by 11/28/22: 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. 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	
Example Project(s): <ul style="list-style-type: none"> • 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 	
Links: <ul style="list-style-type: none"> • GRIP Topic Area 3: https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%3dDE-FOA-0002740%26agency%3dDOE&doc=DE-FOA-0002740&agency=DOE • https://www.energy.gov/bil/energy-improvement-rural-or-remote-areas 	



Energy Storage Demonstration and Pilot Grant Program	
Open Date:	Important Dates:
n/a	- Feedback on RFI is due June 16, 2022 - Estimated application opening date is the 3rd quarter of Calendar Year 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$355,000	\$TBD
Recipient(s): TBD	Eligible Entities: Technology Developers, Industry, State and Local Governments, Tribal Organizations, Community Based Organizations, National Laboratories, Universities, and Utilities.
How to Apply: Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov - Feedback on RFI should be submitted to EnergyStorage41001RFI@ee.doe.gov by June 16, 2022	
Description: To enter into agreements to carry out 3 energy storage system demonstration projects.	
Program Uses(s): <ul style="list-style-type: none"> • Critical infrastructure security, emergency response systems, transmission & distribution system reliability, optimization, quality & longevity. Advance power conversion systems. Ancillary services for grid stability & management. Integration of renewable energy resource production. Increasing microgrids feasibility. Other than electric stored energy to support the natural gas system & industrial processes. Integration of EV fast charging 	
Links: <ul style="list-style-type: none"> • RFI: https://www.energy.gov/sites/default/files/2022-05/41001%20RFI%205.2.22_EOP_v2%20CLEAN%20No%20Watermark%20PDF.pdf • https://www.energy.gov/sites/default/files/2022-05/41001%20RFI%205.2.22_EOP_v2%20CLEAN%20No%20Watermark%20PDF.pdf • https://www.energy.gov/bil/energy-storage-demonstration-and-pilot-grant-program 	

Long-Duration Energy Storage Demonstration Initiative and Joint Program	
Open Date:	Important Dates:



n/a	Applications estimated to open 3rd quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$150,000	\$TBD
Recipient(s): N/A (part of a Federal program between DOD & DOE)	Eligible Entities: Technology Developers, Industry, State and Local Governments, Tribal Organizations, Community Based Organizations, National Laboratories, Universities, and Utilities.
How to Apply: Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov	
<p>Description: To enter into agreements to carry out 3 energy storage system demonstration projects.</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Critical infrastructure security, emergency response systems, transmission & distribution system reliability, optimization, quality & longevity. Advance power conversion systems. Ancillary services for grid stability & management. Integration of renewable energy resource production. Increasing microgrids feasibility. Other than electric stored energy to support the natural gas system & industrial processes. Integration of EV fast charging <p>Links:</p> <ul style="list-style-type: none"> RFI announcement: https://www.energy.gov/articles/biden-administration-launches-bipartisan-infrastructure-laws-505-million-initiative-boost?utm_medium=email&utm_source=govdelivery https://www.energy.gov/articles/biden-administration-launches-bipartisan-infrastructure-laws-505-million-initiative-boost?utm_medium=email&utm_source=govdelivery https://www.energy.gov/long-duration-energy-storage-demonstration-initiative-and-joint-program 	

Battery Manufacturing and Recycling Grants	
Open Date:	Important Dates:
May 2022	- Award negotiations expected between October 2022 & April 2023 - Potential applicants should register ASAP on the EERE exchange, FedConnect, SAM, and obtain a DUNS number

Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$3,000,000	\$TBD
Recipient(s): TBD	Eligible Entities: Institutions of higher education, national laboratories, businesses and nonprofits, state/local governments, consortia of entities as described in bill (paragraphs (1) through (4))
<p>How to Apply: - Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov</p> <p>- To apply to this FOA, applicants must register with and submit application materials through EERE Exchange at https://eere-Exchange.energy.gov, EERE’s online application portal.</p> <p>- A teaming partnering list can be accessed at https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba</p> <p>Applications to be submitted through login.gov - see program guidance for details on how to obtain a login.gov account.</p>	
<p>Description: Grants to help ensure domestic battery manufacturing & recycling capability & a viable North American battery supply chain.</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Demonstration projects, construction of commercial-scale facilities, and retrofit or retooling of existing facilities for battery component manufacturing, advanced battery manufacturing, and recycling <p>Links:</p> <ul style="list-style-type: none"> FAQ Doc: https://eere-exchange.energy.gov/FAQ.aspx?Foald=0596def9-c1cc-478d-aa4f-14b472864eba https://www.energy.gov/bil/battery-manufacturing-and-recycling-grants https://eere-exchange.energy.gov/Default.aspx#Foaldc53b6390-dfb8-480a-9265-3ffdec6c97b3 https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba https://eere-exchange.energy.gov/FAQ.aspx?Foald=0596def9-c1cc-478d-aa4f-14b472864eba 	

Battery Materials Processing Grants	
Open Date:	Important Dates:

May 2022	- Award negotiations expected between October 2022 & April 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$3,000,000	\$TBD
Recipient(s): TBD	Eligible Entities: Institutions of higher education, national laboratories, businesses and nonprofits, state/local governments, consortia of entities as described in bill (paragraphs (1) through (4))
<p>How to Apply: - Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov</p> <p>- To apply to this FOA, applicants must register with and submit application materials through EERE Exchange at https://eere-Exchange.energy.gov, EERE’s online application portal.</p> <p>- A teaming partnering list can be accessed at https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba</p> <p>Applications to be submitted through login.gov - see program guidance for details on how to obtain a login.gov account.</p>	
<p>Description: Grants for battery materials processing to ensure a viable battery materials processing industry in the U.S & to expand domestic battery manufacturing and enhance processing capabilities.</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Demonstration projects, construction of commercial-scale facilities, and retrofit or retooling of existing battery material processing facilities <p>Links:</p> <ul style="list-style-type: none"> FOA: https://eere-exchange.energy.gov/Default.aspx#Foaldc53b6390-dfb8-480a-9265-3ffdec6c97b3 https://www.energy.gov/bil/battery-materials-processing-grants https://eere-exchange.energy.gov/Default.aspx#Foaldc53b6390-dfb8-480a-9265-3ffdec6c97b3 https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba 	

Preventing Outages and Enhancing the Resilience of the Electric Grid Grants (Grid Resilience or Grid Resilience Utility and Industry Grants)

Open Date:	Important Dates:
May 2022	<ul style="list-style-type: none"> - Additional (3rd) RFI issued on October 7, 2021, comments due November 21, 2022: https://www.energy.gov/gdo/grid-resilience-planning-and-resource-hub?utm_medium=email&utm_source=govdelivery - Submission Deadline for Concept Papers December 16, 2022 - Submission Deadline for Full Applications April 6, 2023 - Expected Date for DOE Selection Notifications Summer 2023 - Expected Timeframe for Award Negotiations Fall 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$2,500,000	\$6,678 - FY 2022 \$33,389 FY 2022-2026
Recipient(s): ADOA (Tribes (subgrantees include: electric grid operators, electricity storage operators, electricity generators, transmission owners or operators, distribution providers & fuel suppliers are also eligible))	Eligible Entities: 50% for States & Tribes, 50% for the following entities: Electric Grid Operators, Electricity Storage Operators, Electricity Generators, Transmission Owners and Operators, Distribution Providers, Fuel Suppliers
How to Apply: - https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf	
Federal Contact: -Comments on 3rd RFI due November 21, 2022 to 40101TA@hq.doe.gov https://www.energy.gov/gdo/grid-resilience-planning-and-resource-hub?utm_medium=email&utm_source=govdelivery - 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	
Key State Contact: Thomas Sahhar ADOA Energy Programs Manager	

Arizona Department of Administration
(602) 694-8343
thomas.sahhar@azdoa.gov

Description: To prevent outages and enhance the resilience of the electric grid

Program Uses(s):

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

Links:

- - 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>
- - Additional (3rd) RFI issued on October 7, 2021, comments due November 21, 2021:
https://www.energy.gov/gdo/grid-resilience-planning-and-resource-hub?utm_medium=email&utm_source=govdelivery
- <https://www.energy.gov/gdo/grid-resilience-utility-and-industry-grants>

Solar & Wind Grid Services & Reliability Demonstration

Open Date:	Important Dates:
August 2022	<ul style="list-style-type: none"> - 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 February 9, 2023 - Expected award negotiation timeframe February 7 through June 22, 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$100,000	TBD
Recipient(s): TBD	Eligible Entities:
	Institutions of higher education; For-profit entities; Non-profit entities; & State & local governmental entities, & Tribal Nations.

How to Apply: - 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.

Program Uses(s):

- This includes establishing demonstration facilities and projects, conducting analyses & studies, & conducting education & outreach in support of solar & wind technologies.

Links:

- <https://www.energy.gov/eere/solar/articles/funding-notice-solar-and-wind-grid-services-and-reliability-demonstration>

Industrial Research and Assessment Center Implementation Grants

Open Date:	Important Dates:
N/a	- Program rollout 4th Quarter 2022 - Estimated application opening date for Centers for Excellence restricted eligibility opportunity for current IHE IACs, 4th Quarter 2022 - Estimated application opening date for IAC expansion to community colleges, trade schools, and union training programs, 4th Quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$400,000	TBD
Recipient(s):	Eligible Entities:
Arizona State University	Institutions of Higher Education, Community College, Trade School, Or Union Training Program

How to Apply: TBD

Key Federal Contacts:

John Smegal
Industrial Assessment Centers (IAC) Coordinator
Phone: (202) 287-6225

Michael Muller
IAC Technical Field Manager

Phone: (732) 445-5540

Description: To fund upgrades for small- and medium-sized manufacturers. Recipient manufacturers are recommended by assessment from an Industrial Assessment Center or Combined Heat and Power Technical Assistance Partnership

Program Uses(s):

- To improve energy efficiency; material efficiency; cybersecurity; or productivity; or reduce waste production; greenhouse gas emissions; or non-greenhouse gas pollution

Links:

- <https://www.energy.gov/bil/industrial-research-and-assessment-centers>
- <https://www.energy.gov/articles/biden-administration-launches-7-million-bipartisan-infrastructure-law-initiative-further>

Industrial Research and Assessment Centers

Open Date:	Important Dates:
N/a	- Program rollout End of 2022 - Estimated application opening date for Centers for Excellence restricted eligibility opportunity for current IHE IACs, 4th Quarter 2022 - Estimated application opening date for IAC expansion to community colleges, trade schools, and union training programs, 4th Quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$150,000	TBD
Recipient(s):	Eligible Entities:
Arizona State University	Institutions of Higher Education, Community College, Trade School, Or Union Training Program
How to Apply: TBD	
Key Federal & State Contacts: John Smegal Industrial Assessment Centers (IAC) Coordinator Phone: (202) 287-6225 Michael Muller	

IAC Technical Field Manager
Phone: (732) 445-5540

ARIZONA STATE UNIVERSITY
Director: Dr. Patrick Phelan
Phone: (480) 727-6098
E-mail: phelan@asu.edu
Assistant Director: Dr. Ryan Milcarek

Description: To provide funding for institutions of higher education-based industrial research & assessment centers to identify opportunities for optimizing energy efficiency & environmental performance at manufacturing and other industrial facilities.

Program Uses(s):

- Assessments of small/medium-sized manufacturer plant sites to identify opportunities for optimizing energy efficiency & environmental performance, to promote applications of emerging technologies in this space; to promote R&D for the use of alternative energy sources for energy-intensive industries; to provide a clearinghouse for industrial process & energy efficiency technical assistance resources; & specific coordination activities

Links:

- More info on IAC's: <https://www.energy.gov/eere/amo/industrial-assessment-centers-iacs>
- <https://www.energy.gov/eere/amo/industrial-assessment-centers-iacs>
- <https://www.energy.gov/bil/industrial-research-and-assessment-centers>

Building, Training, & Assessment Centers

Open Date:	Important Dates:
N/a	Estimated application opening date, 4th quarter 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$10,000	TBD
Recipient(s): Universities	Eligible Entities: Institutions of Higher Education
How to Apply: N/A	

Description: Grants to institutions of higher education to establish building training and assessment centers to educate and train building technicians and engineers on implementing modern building technologies

Program Uses(s):

- Identifying opportunities for optimizing energy efficiency and environmental performance in buildings; promoting the application of emerging concepts and technologies in commercial and institutional buildings; training in energy-efficient design and operation; promoting R&D for the use of alternative energy sources and distributed generation for buildings & other coordination activities

Links:

- <https://www.energy.gov/bil/building-training-and-assessment-centers>

Building Resilient Infrastructure & Communities

Open Date:

N/a

Important Dates:

- FY22 BRIC applications open **September 30, 2022**
- FY22 BRIC applications due **January 27, 2023**

Federal \$ Available (\$Thousands):

\$1,000,000

AZ \$ Available (\$Thousands):

TBD

Recipient(s): Arizona Department of Emergency & Military Affairs, Division of Emergency Management

Eligible Entities: -States, territories, and tribal governments (Homeowners, business operators, & non-profit organizations cannot apply directly to FEMA, but can be included in a sub application)

How to Apply: FEMA Region 9 Contact, General: 510-627-7100

Description: To support states, local communities, tribes and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards

Program Uses(s):

- To support communities through capability & capacity-building; encouraging & enabling innovation; promoting partnerships; enabling large projects; maintaining flexibility; & providing consistency

Links:

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

- <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities/after-apply/fy-2021-subapplication-status>

WaterSMART Grants	
Open Date:	Important Dates:
N/a	<ul style="list-style-type: none"> - Environmental Water Resources Projects applications to open Fall 2022 - Water Marketing Strategy Grants expected to open November 2022 - Water Marketing Strategy Grants expected applications close January 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$400,000	\$560
Recipient(s): Local governments & water authorities (primarily)	Eligible Entities: Open. Awards as of 6/23/22 consist of project funding, primarily for local governments & water authorities
How to Apply: N/A	
<p>Description: Water management improvements that contribute to water supply sustainability, increase drought resilience, and that have environmental benefits. (See sec 9504(a) of the SECURE Water Act)</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • Grant projects that support water management improvements that contribute to water supply sustainability, increase drought resilience, and that have environmental benefits <p>Links:</p> <ul style="list-style-type: none"> • https://www.usbr.gov/watersmart/ • https://www.usbr.gov/watersmart/weeg/docs/2023/FY23WEEGWebinar.pdf • https://www.usbr.gov/newsroom/news-release/4247 • https://www.usbr.gov/newsroom/#/news-release/4261 • https://www.doi.gov/pressreleases/president-bidens-bipartisan-infrastructure-law-provide-255-million-water-efficiency • https://www.grants.gov/web/grants/view-opportunity.html?oppld=339953 • https://www.grants.gov/web/grants/view-opportunity.html?oppld=338924 • https://www.grants.gov/web/grants/view-opportunity.html?oppld=338320 	

Industrial Efficiency and Decarbonization	
Open Date:	Important Dates:
N/a	<ul style="list-style-type: none"> - Program rollout September 7, 2022 - Concept papers due October 12, 2022 - Full application deadline January 4, 2023 - Expected Submission Deadline for Replies to Reviewer Comments February 10, 2023 - Award selection notifications April 2023 - Expected award negotiation timeframe April 2023 - July 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$104,000	\$N/A
Recipient(s): Direct federal grant.	Eligible Entities: 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 programs.
<p>How to Apply: jessica.adams@netl.doe.gov</p> <p>- Question related to FOA should be submitted to DE-FOA-0002611@netl.doe.gov no later than 3 business days before the application due date of December 14, 2022</p>	
<p>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</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • Includes cross-sector industrial decarbonization approaches via opportunities in energy efficiency; industrial electrification; low carbon fuels, feedstocks & energy sources; & industrial carbon capture & utilization <p>Links:</p> <ul style="list-style-type: none"> • https://www.energy.gov/articles/biden-harris-administration-releases-bold-agenda-reduce-emissions-across-americas 	

Critical Material Innovation, Efficiency, And Alternatives	
Open Date:	Important Dates:
N/a	- Responses to RFI due September 9, 2022 - Estimated application opening date end of year, 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$600,000	\$N/A
Recipient(s): General public, private sector	Eligible Entities: General public, private sector
How to Apply: Responses to RFI due to CriticalMaterialsProgramRFI@ee.doe.gov September 9, 2022	
<p>Description: R&D, demonstration, & commercialization to develop alternatives to critical materials, to promote their efficient production and use & ensure a long-term supply</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Various uses related to ensuring long-term supply of critical materials such as development of process that utilizing alternate materials or use those materials more efficiently. Grant uses include purposes relevant to the clean energy community such as alternative energy technologies or designs that save critical materials and critical material production technologies that decrease energy consumption. <p>Links:</p> <ul style="list-style-type: none"> RFI Link: https://eere-exchange.energy.gov/Default.aspx#Foaldd694b93b-17f8-467f-ba88-86a24f04bde5 https://www.energy.gov/bil/critical-material-innovation-efficiency-and-alternatives 	

Advanced Energy Manufacturing and Recycling Grants	
Open Date:	Important Dates:
N/a	- DOE announced the launch of the program on May 18, 2022 - Responses to RFI due September 16, 2022 - Applications estimated to open 1st quarter of 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):

\$750,000	\$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
<p>How to Apply: Manufacturing firms should use the form at the link below to show interest in this program and receive technical assistance from the National Renewable Energy Laboratory: https://www.nrel.gov/manufacturing/recycling-grant-program.html</p>	
<p>Key Federal Contacts:</p> <ul style="list-style-type: none"> - 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 - Submit responses to RFI as email attachments to 40209Program@hq.doe.gov no later than 5:00PM (ET) on 09/16/2022 & include "40209 Grant Program RFI Response" in the subject line. 	
<p>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</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • To re-equip, expand, or establish a manufacturing or recycling facility for advanced energy technologies; or to re-equip an industrial of manufacturing facility with equipment designed to reduce greenhouse gas emissions. <p>Links:</p> <ul style="list-style-type: none"> • Program announcement: https://www.energy.gov/eere/articles/us-department-energy-offers-targeted-technical-assistance-manufacturers-former-coal • https://www.energy.gov/bil/advanced-energy-manufacturing-and-recycling-grants 	

Energy Efficiency Career Skills Training	
Open Date:	Important Dates:
N/a	- Applications for funding estimated to open 1st quarter of 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):

\$10,000	\$TBD
Recipient(s): Non-Profits	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
<p>How to Apply: - 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 - Submit responses to RFI as email attachments to 40209Program@hq.doe.gov no later than 5:00PM (ET) on 09/16/2022 & include "40209 Grant Program RFI Response" in the subject line.</p> <p>Manufacturing firms should use the form at the link below to show interest in this program and receive technical assistance from the National Renewable Energy Laboratory: https://www.nrel.gov/manufacturing/recycling-grant-program.html</p>	
<p>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</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> 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 <p>Links:</p> <ul style="list-style-type: none"> https://www.energy.gov/bil/career-skills-training 	

Clean Energy Demonstration Program on Current and Former Mine Land	
Open Date:	Important Dates:
N/a	<ul style="list-style-type: none"> - Request for Information published on June 29, 2022 - Comments on RFI due August 15, 2022 - Applications estimated to open in 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):

\$500,000	\$TBD
Recipient(s): TBD	Eligible Entities: NIndustry Partners, Project Developers
<p>How to Apply: - Clean Energy Demonstrations on Former Mine Land - mineland@hq.doe.gov - Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov - Responses to RFI must be submitted electronically to mineland@hq.doe.gov no later than 5:00pm (ET) on 08/15/2022</p>	
<p>Description: To establish a program to demonstrate the technical & economic viability of carrying out clean energy projects on current & former mine land</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Solar, micro-grids, geothermal, direct air capture, fossil-fueled electricity generation with carbon capture, utilization, & sequestration, energy storage, including pumped storage hydropower & compressed air storage, advanced nuclear technologies <p>Links:</p> <ul style="list-style-type: none"> https://www.energy.gov/bil/clean-energy-demonstration-program-current-and-former-mine-land 	

Transmission Facilitation Program (Revolving Loans)	
Open Date:	Important Dates:
N/a	- Notice of Intent issued on 1/19/2022 - RFP Issued November 18, 2022: https://www.energy.gov/sites/default/files/2022-11/TFP%20-%20Request%20for%20Proposals%20%28Capacity%20Contracts%29%20-%2011.21.22.pdf - Application Submission Deadline for Part 1 February 1, 2023 - Application Submission Deadline for Part 2, 45 days from invitation to apply, TBD - Expected Date for DOE Selection Notification, Summer 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$2,500,000	\$TBD

Recipient(s): Businesses	Eligible Entities: Transmission Developers
How to Apply: TBD	
Key Federal Contacts: - Ms. Michelle Manary, Acting Deputy Assistant Secretary, Electricity Delivery Division, Office of Electricity, Mailstop OE-20, Room 8H-033, 1000 Independence Avenue SW, Washington, DC 20585; Telephone: (202) 586-1411 or ElectricityDelivery@hq.doe.gov - Loan Programs Office - lpo@hq.doe.gov - Any questions on RFP should be submitted to transmissionfacilitation@hq.doe.gov.	
Description: To facilitate the construction of electric power transmission lines and related facilities to enable greater clean energy growth and provide low-cost clean energy to more Americans. Program Uses(s): <ul style="list-style-type: none"> Capacity contracts with the goal of reselling capacity once financial viability of project is been established; loans for the costs of carrying out an eligible project; participating with an eligible entity in designing, developing, constructing, operating, maintaining, or owning an eligible project Links: <ul style="list-style-type: none"> https://www.energy.gov/bil/transmission-facilitation-program Program Site: https://www.energy.gov/bil/transmission-facilitation-program RFP: https://www.energy.gov/sites/default/files/2022-11/TFP%20-%20Request%20for%20Proposals%20%28Capacity%20Contracts%29%20-%2011.21.22.pdf 	

Critical Material Innovation, Efficiency, And Alternatives	
Open Date:	Important Dates:
N/a	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

	<ul style="list-style-type: none"> - FOA Issue Date (\$13M total): December 12, 2022 - Letter of Intent Due Date: January 3, 2023 - Application Due Date: February 21, 2023 - Award Notification Date: May 15, 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$600,000	\$TBD
Recipient(s): General public, private sector	Eligible Entities: General public, private sector
How to Apply: TBD	
<p>Key Federal Contacts:</p> <ul style="list-style-type: none"> - 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.go 	
<p>Description: R&D, demonstration, & commercialization to develop alternatives to critical materials, to promote their efficient production and use & ensure a long-term supply</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • Various uses related to ensuring long-term supply of critical materials such as development of process that utilizing alternate materials or use those materials more efficiently. Grant uses include purposes relevant to the clean energy community such as alternative energy technologies or designs that save critical materials and critical material production technologies that decrease energy consumption. <p>Links:</p> <ul style="list-style-type: none"> • August 12, 2022 Presentation Slide Deck: https://science.osti.gov/-/media/sbir/pdf/funding/2023/FY23-PIR1-FOA-Webinar_ZA_EEC.pdf • https://science.osti.gov/sbir/Funding-Opportunities?utm_medium=email&utm_source=govdelivery 	

Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR)
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 21, 2023**
 - Award Notification Date: **May 15, 2023**

Federal \$ Available (\$Thousands):

AZ \$ Available (\$Thousands):

\$137,000

\$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

How to Apply: TBD

Key Federal Contacts:

- 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

Program Uses(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

Links:

- https://science.osti.gov/sbir/Funding-Opportunities?utm_medium=email&utm_source=govdelivery
- August 12, 2022 Presentation Slide Deck: https://science.osti.gov/-/media/sbir/pdf/funding/2023/FY23-PIR1-FOA-Webinar_ZA_EEC.pdf

Clean Energy Smart Manufacturing Innovation Institute (CESMII) Smart Manufacturing Technologies Grants	
Important Dates:	
<ul style="list-style-type: none"> - Request for Proposals Issue Date Nov 3, 2022 - Proposal Submission deadline Dec 30, 2022 - Anticipated Project Selection Date Feb 2023 - Anticipated Project Start Date Apr-May, 2023 	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$1,000	\$TBD
Recipient(s): Teams led by an industry participant that can showcase the demonstration are highly recommended	Eligible Entities: TBD
How to Apply:	
Key Federal Contacts:	
<p>Description: To help manufacturers adopt smart manufacturing technologies & processes that will increase productivity, save energy, & boost competitiveness across energy-intensive industries (i.e. cement, chemicals, food, & steel).</p> <p>Program Uses(s): Focusing areas are “Extended Impact Projects”, which seeks projects that use, augment, or extend existing SM technologies, and “Energy Demonstration Projects”, which seeks projects that use existing CESMII SM technologies to demonstrate energy benefits.</p> <p>Links:</p> <ul style="list-style-type: none"> • https://www.energy.gov/eere/amo/cesmii-rfp-4-advanced-sensors-controls-platforms-and-modeling-manufacturing 	

Lithium Extraction & Conversion
Important Dates:
<ul style="list-style-type: none"> - NOI issued 10/3/2022: https://eere-exchange.energy.gov/Default.aspx#FoalDc658abe1-56a8-477d-ab65-1917f2cb16ae - FOA expected to be issued 11/9/2022 - Concept Papers due 12/9/2022 - Full applications due 1/31/2023

<p>- EERE selection notifications expected March 2023 - Award negotiations expected September 2023</p>	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$12,000	\$TBD
<p>Recipient(s): Direct Federal Grant. ADOA, ACA, a state energy office or Universities could play a supporting role in the grant.</p>	<p>Eligible Entities:</p> <ol style="list-style-type: none"> 1. Institutions of higher education; 2. For-profit entities; 3. Non-profit entities; 4. DOE National Laboratories; 5. Non-DOE National Laboratories; 6. State, local and tribal governments; and 7. Federal agencies and instrumentalities other than DOE. <p>(Domestic entities only)</p>
<p>How to Apply: Parties interested in being included on a teaming partner list should email AMO-GTO-LithiumFOA@ee.doe.gov</p>	
<p>Key Federal Contacts: Parties interested in being included on a teaming partner list should email AMO-GTO-LithiumFOA@ee.doe.gov</p>	
<p>Description: To support research on the extraction and conversion of lithium from geothermal brines for use of lithium batteries in electric vehicles and clean energy storage</p> <p>Program Uses(s): Field Validation of Lithium Hydroxide Production from Geothermal Brines Area of Interest, Applied Research & Development for Direct Lithium Extraction from Geothermal Brines</p> <p>Links:</p> <ul style="list-style-type: none"> • https://www.energy.gov/eere/amo/articles/fy22-ammtto-gto-joint-foa-lithium-extraction-and-conversion-geothermal-brines 	

<p>Address Key Deployment Challenges for Offshore, Land-Based, and Distributed Wind</p>
<p>Important Dates:</p>

<ul style="list-style-type: none"> - Applicants must submit a concept paper by 5 p.m. ET on Jan. 20, 2023 - Submission Deadline for Full Applications: March 10, 2023 - Expected Date for DOE Selection Notifications: July 2023 - Expected Timeframe for Award Negotiations: July - October 2023 	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$28,000	\$TBD
Recipient(s): Institutions of higher education For-profit entities Non-profit Entities State and local Government Entities Tribal nations	Eligible Entities: Institutions of higher education For-profit entities Non-profit Entities State and local Government Entities Tribal nations
How to Apply: TBD	
Key Federal Contacts: TBD	
<p>Description: To enable the innovations needed to advance U.S. wind systems, reduce the cost of electricity, and accelerate the deployment of wind power, maximize the benefits of the clean energy transition as the nation works to curb the climate crisis, empower workers, and advance environmental justice</p> <p>Program Uses(s):</p> <ol style="list-style-type: none"> 1. High-Voltage Direct Current (HVDC) for Offshore Wind 2. Advancing Deployment of Distributed Wind (ADD) 3. Wind Energy Social Science Research 4. Bat Deterrent Technology Development <p>Links:</p> <ul style="list-style-type: none"> • Comments on RFI due to WindEnergyRFI@ee.doe.gov December 19, 2022: https://eere-exchange.energy.gov/Default.aspx#Foald7f14ee13-09fa-4ee3-b6bc-7a67325351dd • https://www.energy.gov/eere/wind/articles/weto-releases-28-million-funding-opportunity-address-key-deployment-challenges 	

<p>Advance Domestic Supply Chain for Critical Materials (Front-End Engineering Design Studies for Production of Critical Minerals and Materials from Coal-Based Resources)</p>
<p>Important Dates:</p>

- 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):	AZ \$ Available (\$Thousands):
\$32,000	\$TBD
Recipient(s): TBD	Eligible Entities: TBD
How to Apply: TBD	
Key Federal Contacts: TBD	
<p>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.</p> <p>Program Uses(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</p> <p>Links:</p> <ul style="list-style-type: none"> https://www.energy.gov/fecm/notice-intent-issue-funding-opportunity-bipartisan-infrastructure-law-front-end-engineering 	

Energy Efficiency Materials Pilot Program (Nonprofit Energy Efficiency)	
Important Dates:	
Estimated application opening date, 1st quarter 2023	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$50,000	\$TBD
Recipient(s): TBD	Eligible Entities: TBD
How to Apply: Responses RFI must be submitted electronically to NonProfitRFI@doe.gov by December 22, 2022	
Key Federal Contacts: TBD	

Description: To provide grants to supply nonprofit buildings with energy-efficiency materials

Program Uses(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)

Links:

- RFI comments due December 22, 2022: <https://eere-exchange.energy.gov/Default.aspx#Foaldd43d06fe-529c-4525-8fc5-90ca28368aef>
- <https://www.energy.gov/bil/energy-efficiency-materials-pilot-program>

Tribal Energy Loan Guarantees

Important Dates:

Estimated application opening date, **1st quarter 2023**

Federal \$ Available (\$Thousands):

\$75,000

AZ \$ Available (\$Thousands):

\$TBD

Recipient(s):

TBD

Eligible Entities:

Financial institutions, Tribes or Tribal energy development organizations

How to Apply: Applications are open on an ongoing basis for this program:

https://www.energy.gov/sites/default/files/2022-10/DOE-LPO_TELGP_Solicitation_30Sept22.pdf

Key Federal Contacts: TELGP@hq.doe.gov

Description: Tribal Energy Loan Guarantee Program (TELGP)

Program Uses(s):

Direct loans & loan guarantees for Tribal energy development

Links:

- <https://www.energy.gov/lpo/tribal-energy-loan-guarantee-program>

Greenhouse Gas Reduction Fund (Zero-Emission Technology)	
Important Dates:	
- IRA sets deadline of 180 days after enactment (February 12, 2023) for EPA to make grants under this program - Funding availability notice expected Q1 2023	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$7,000,000	\$TBD
Recipient(s): TBD	Eligible Entities: States, municipalities, Tribal governments, & eligible non-profit recipients
How to Apply: Applications are open on an ongoing basis for this program: https://www.energy.gov/sites/default/files/2022-10/DOE-LPO_TELGP_Solicitation_30Sept22.pdf	
Key Federal Contacts: TELGP@hq.doe.gov	
Description: To support deployment of zero-emission technologies, greenhouse gas reduction activities. Seed capital for regional, local, state, or Tribal green banks that provide financial support for low or zero emission projects.	
Program Uses(s): To enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies, including distributed technologies on residential rooftops, and to carry out other greenhouse gas emission reduction activities (targeted to multiple recipients, specifically for low-income & disadvantaged communities)	
Links: <ul style="list-style-type: none"> - Grants. Available through 9/30/2024. New program - Comments on RFI due December 5, 2022: https://www.regulations.gov/docket/EPA-HQ-OA-2022-0859 https://www.epa.gov/inflation-reduction-act/greenhouse-gas-reduction-fund 	

Greenhouse Gas Reduction Financial & Technical Assistance for Non-Profits

Important Dates:	
- IRA sets deadline of 180 days after enactment (February 12, 2023) for EPA to make grants under this program	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$11,970,000	\$TBD
Recipient(s): TBD	Eligible Entities: Non profit organizations that leverage private capital and other forms of financial assistance to deploy low- and zero-emission products, technologies, and services.
How to Apply: Applications are open on an ongoing basis for this program: https://www.energy.gov/sites/default/files/2022-10/DOE-LPO_TELGP_Solicitation_30Sept22.pdf	
Key Federal Contacts: TELGP@hq.doe.gov	
Description: To provide financial and technical assistance to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies and other GHG reduction activities	
Program Uses(s): To provide financial and technical assistance to eligible non-profits to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies and other GHG reduction activities (targeted to non-profits)	
Links:	
<ul style="list-style-type: none"> Grants. Available through 9/30/2024. New program. Comments on RFI due December 5, 2022: https://www.regulations.gov/docket/EPA-HQ-OA-2022-0859 	

Greenhouse Gas Reduction Financial & Technical Assistance for Non-profits for Low-income & Disadvantaged Communities	
Important Dates:	
- IRA sets deadline of 180 days after enactment (February 12, 2023) for EPA to make grants under this program	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):

\$8,000,000	\$TBD
Recipient(s): TBD	Eligible Entities: Non profit organizations that leverage private capital and other forms of financial assistance to deploy low- and zero-emission products, technologies, and services
How to Apply: Applications are open on an ongoing basis for this program: https://www.energy.gov/sites/default/files/2022-10/DOE-LPO_TELGP_Solicitation_30Sept22.pdf	
Key Federal Contacts: TELGP@hq.doe.gov	
Description: Financial and technical assistance in low-income and disadvantaged communities	
Program Uses(s): To provide financial and technical assistance to eligible non-profits to enable low-income and disadvantaged communities to deploy or benefit from zero-emission technologies and other GHG reduction activities (targeted to non-profits, specifically in low-income & disadvantaged communities)	
Links: <ul style="list-style-type: none"> Grants. Available through 9/30/2024. New program. Comments on RFI due December 5, 2022: https://www.regulations.gov/docket/EPA-HQ-OA-2022-0859 	

Healthy Homes and Weatherization Cooperation Demonstration	
Important Dates:	
<ul style="list-style-type: none"> - Program rollout November 10, 2022 - Application deadline January 5, 2023 	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$5,000	\$TBD
Recipient(s): Department of Housing, AZ WAP Subgrantees and local or nonprofit recipients of a Healthy Homes Production Grant are eligible applicants	Eligible Entities: Holders of a WAP or Healthy Homes Program grant, including special districts, Tribal governments, nonprofits, counties, states, cities. Nonprofit institutions of higher education are not eligible.

How to Apply: TBD
Key Federal Contacts: Brenda M. Reyes, MD, MPH Brenda.m.reyes@hud.gov
Description: For housing interventions in lower-income households to determine whether coordination between healthy homes & weatherization programs achieves cost-effectiveness & better outcomes in improving the safety & quality of homes.
Program Uses(s): Goals and objectives: <ol style="list-style-type: none"> (1) Demonstrate effective strategies for coordination ... (2) Reduce WAP deferrals ... (3) Demonstrate sustainable models cooperation (data sharing, reporting, & targeting/recruiting clients) (4) Demonstrate effective models for the sustainable financing (5) Support the collection of data to evaluate housing interventions ...
Links: <ul style="list-style-type: none"> • https://www.grants.gov/web/grants/view-opportunity.html?oppld=344463

Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT)	
Important Dates:	
- Funding Opportunity Announcement expected late December 2022 or early January 2023	
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$TBD	\$TBD
Recipient(s): corporations, universities, nonprofits, national labs	Eligible Entities: corporations, universities, nonprofits, national labs
How to Apply: TBD	
Key Federal Contacts: 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	
Program Uses(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

Links:

- <https://www.energy.gov/eere/buildings/articles/doe-intends-issue-funding-opportunity-innovations-electrify-optimize-and>

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

Open Date:	Important Dates:
n/a	<ul style="list-style-type: none"> - 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):	AZ \$ Available (\$Thousands):
\$TBD	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
How to Apply: TBD	
Key Federal Contact: TBD	
Key State Contact: Charlene Fernandez, State Director 230 North First Avenue, Suite 206 Phoenix, AZ 85003-1706 Voice: (602) 280-8701	

Fax: (855) 699-8035

Description:

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

Program Use(s):

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

Links:

- Rural Arizona small businesses awarded funding:
https://www.rd.usda.gov/sites/default/files/Climate-Change-Chart_FINAL_08.24.2022.pdf