

Bipartisan Infrastructure Law and Inflation Reduction Act

Arizona Clean Energy Investments

November Snapshot Report

The following are federal energy and climate related grants and opportunities in Arizona from Q4-Q1 (present thru January 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, businesses, nonprofits, 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	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: 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):	
<ul style="list-style-type: none"> 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:

- <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	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: 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:

- <https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9>
- <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	-Estimated application opening date, 3rd quarter 2022 -Notice of Intent: https://www.federalregister.gov/documents/2022/01/19/2022-00883/building-a-better-grid-initiative-to-upgrade-and-expand-the-nations-electric-transmission-grid-to
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.
<p>How to Apply: Comments on RFI due October 14, 2022 to DORFI@hq.doe.gov</p> <ul style="list-style-type: none"> - Office of Electricity - OEwebmaster@hq.doe.gov - 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 - 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 	
<p>Description: To demonstrate innovative approaches to transmission, storage, & distribution infrastructure to harden & enhance resilience & reliability; & to demonstrate new approaches to enhance regional grid resilience</p> <p>Example Project(s):</p> <ul style="list-style-type: none"> • 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:

- <https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3doc%3dDE-FOA-0002827%26agency%3dDOE&doc=DE-FOA-0002827&agency=DOE>
- <https://www.energy.gov/bil/program-upgrading-our-electric-grid-and-ensuring-reliability-and-resiliency>
- <https://www.federalregister.gov/documents/2022/01/19/2022-00883/building-a-better-grid-initiative-to-upgrade-and-expand-the-nations-electric-transmission-grid-to>
- <https://www.energy.gov/oe/office-electricity>

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

Open Date:	Important Dates:
N/A	Applications for funding expected to open by the end of 2022
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$3,000,000	TBD
Recipient(s): Utilities	Eligible Entities: Utilities

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:
<https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3doc%3dDE-FOA-0002827%26agency%3dDOE&doc=DE-FOA-0002827&agency=DOE>

Description: Funding & expansion of eligible activities under the Smart Grid Investment Matching Grant Program

Example Project(s):

- Qualifying Smart Grid investments including for installation, that allow buildings to engage in demand flexibility or Smart Grid functions

Links:

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

Battery Collection by Retailers	
Open Date:	Important Dates:
N/A	- Responses to Request for Information due October 14, 2022 (https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9) - Program rollout date TBD
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$15,000	TBD
Recipient(s): TBD	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.</p> <p>- Brian Cunningham – Vehicle Technologies Office – Batteries: brian.cunningham@ee.doe.gov</p>	
<p>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</p> <p>Example Project(s):</p> <ul style="list-style-type: none"> 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 <p>Links:</p> <ul style="list-style-type: none"> https://eere-exchange.energy.gov/Default.aspx#Foald1b505245-04d8-4b2a-bfab-46c5c8ad2de9 https://www.energy.gov/bil/battery-and-critical-mineral-recycling 	

Vehicle Technologies Office Program Wide Funding	
Open Date:	Important Dates:
July 2022	-Application deadline November 10, 2022

	- Award notifications & start of award negotiations March 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$96,000	TBD
Recipient(s): TBD	Eligible Entities: Open to Individuals, Institutions of higher education, For-profit entities, Non-profit entity & State, local, & Tribal Nations
How to Apply: Applications must be submitted via EERE Exchange at https://eere-Exchange.energy.gov	
<p>Description: To providing better, cleaner affordable mobility options. Specifically, this funding seeks innovative solutions for on-road & off-road vehicles to develop & accelerate the charging infrastructure & drastically reduced GHG emissions</p> <p>Example Project(s):</p> <ul style="list-style-type: none"> • Cost-effective deployment of EV charging for those without easy home charging; to improve mobility options for underserved communities; community engagement to accelerate clean transportation options in underserved communities; batteries & electrification; materials technologies; energy-efficient commercial off-road vehicle technologies; medium/heavy duty vehicle corridor charging & advanced engine & fuel technologies to improve fuel economy & reduce GHG emissions <p>Links:</p> <ul style="list-style-type: none"> • https://eere-exchange.energy.gov/Default.aspx#Foald8cf6d82c-c517-4db4-9bd7-778ba7232f8f 	

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

	<ul style="list-style-type: none"> - 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	
<p>Description: To support the development of at least 4 regional clean hydrogen hubs to improve clean hydrogen production, processing, delivery, storage, and end use</p> <p>Program Uses(s):</p> <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). <p>Links:</p> <ul style="list-style-type: none"> • 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	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: n/a	
<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>Links:</p> <ul style="list-style-type: none"> • 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 	

Industrial Emission Demonstration Projects	
Open Date:	Important Dates:
4/1/2022	Applications estimated to open 4th quarter 2022
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	
<p>Description: To fund demonstration projects that test and validate technologies that reduce industrial emissions. Specific industrial production technologies & processes that achieve emissions reductions.</p>	

Example Project(s):

- TBD

Links:

- <https://www.energy.gov/bil/industrial-emission-demonstration-projects>

Energy Efficiency and Renewable Energy Improvements at Schools

Open Date:

5/18/2022

Important Dates:

Applications for funding expected to be available **fall 2022**

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

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

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):

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

Links:

- <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://eere-exchange.energy.gov/Default.aspx#Foald2f565267-7810-4605-b85b-a48e6ef98708>
- <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 planned for Q4 of 2022 - 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	
<p>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</p> <p>Example Project(s):</p> <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 <p>Links:</p> <ul style="list-style-type: none"> • https://www.energy.gov/bil/energy-improvement-rural-or-remote-areas 	

Energy Storage Demonstration and Pilot Grant Program	
Open Date:	Important Dates:
n/a	Applications estimated to opening 3rd quarter 2022
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	

Description: To enter into agreements to carry out 3 energy storage system demonstration projects.

Program Uses(s):

- 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:

- 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))

How to Apply: - Brian Cunningham – Vehicle Technologies Office – Batteries:
brian.cunningham@ee.doe.gov
- 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.

- A teaming partnering list can be accessed at <https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba>

Applications to be submitted through [login.gov](https://www.energy.gov/bil/battery-manufacturing-and-recycling-grants) - see program guidance for details on how to obtain a [login.gov](https://www.energy.gov/bil/battery-manufacturing-and-recycling-grants) account.

Description: Grants to help ensure domestic battery manufacturing & recycling capability & a viable North American battery supply chain.

Program Uses(s):

- Demonstration projects, construction of commercial-scale facilities, and retrofit or retooling of existing facilities for battery component manufacturing, advanced battery manufacturing, and recycling

Links:

- 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))

How to Apply: - Brian Cunningham – Vehicle Technologies Office – Batteries:
brian.cunningham@ee.doe.gov

- 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.
- A teaming partnering list can be accessed at <https://eere-exchange.energy.gov/Default.aspx#Foald0596def9-c1cc-478d-aa4f-14b472864eba>

Applications to be submitted through login.gov - see program guidance for details on how to obtain a login.gov account.

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.

Program Uses(s):

- Demonstration projects, construction of commercial-scale facilities, and retrofit or retooling of existing battery material processing facilities

Links:

- FOA: <https://eere-exchange.energy.gov/Default.aspx#Foalddc53b6390-dfb8-480a-9265-3ffdec6c97b3>
- <https://www.energy.gov/bil/battery-materials-processing-grants>
- <https://eere-exchange.energy.gov/Default.aspx#Foalddc53b6390-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 Mitigation)

Open Date:	Important Dates:
May 2022	- Application deadline extended to March 31, 2023 (previous deadlines was September 30, 2022)
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$2,500,000	\$6,678 - FY 2022 \$33,389 FY 2022-2026
Recipient(s): States, Tribes (subgrantees include: electric grid operators, electricity storage operators, electricity generators, transmission owners or operators, distribution providers & fuel suppliers)	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
<p>How to Apply: Comments on 2nd RFI due October 14, 2022 to DORFI@hq.doe.gov</p> <ul style="list-style-type: none"> - Office of Electricity - OEwebmaster@hq.doe.gov - 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 - the following email was provided for input during the 5/5/22 webinar: 40101formulagrants@hq.doe.gov 	
<p>Description: To prevent outages and enhance the resilience of the electric grid</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • For activities supplemental to existing hardening efforts to reduce the risk of power lines causing a wildfire; or mitigate the risk disruptive events <p>Links:</p> <ul style="list-style-type: none"> • https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3doc%3dDE-FOA-0002736%26agency%3dDOE&doc=DE-FOA-0002736&agency=DOE • https://netl.doe.gov/bilhub/grid-resilience/formula-grants • https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3doc%3dDE-FOA-0002827%26agency%3dDOE&doc=DE-FOA-0002827&agency=DOE • https://netl.doe.gov/bilhub/grid-resilience • https://netl.doe.gov/bilhub/grid-resilience/formula-grants?utm_medium=email&utm_source=govdelivery • https://netl.doe.gov/bilhub/grid-resilience/formula-grants • https://www.energy.gov/articles/biden-administration-launches-23-billion-program-strengthen-and-modernize-americas-power • https://www.energy.gov/bil/preventing-outages-and-enhancing-resilience-electric-grid-grants • https://www.federalregister.gov/documents/2022/01/19/2022-00883/building-a-better-grid-initiative-to-upgrade-and-expand-the-nations-electric-transmission-grid-to • https://www.energy.gov/oe/office-electricity 	

Solar & Wind Grid Services & Reliability Demonstration	
Open Date:	Important Dates:
August 2022	<ul style="list-style-type: none"> - Submission deadline for full applications November 10, 2022 - Expected deadline for replies to reviewer comments December 8, 2022



	<p>- Expected date for EERE Selection (award) Notifications February 2, 2023</p> <p>- Expected award negotiation timeframe February 7 through June 22, 2023</p>
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.
<p>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</p>	
<p>Description: For solar & wind research, development, demonstration, & commercialization activities.</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> This includes establishing demonstration facilities and projects, conducting analyses & studies, & conducting education & outreach in support of solar & wind technologies. <p>Links:</p> <ul style="list-style-type: none"> https://www.grants.gov/web/grants/view-opportunity.html?oppld=342863 https://eere-exchange.energy.gov/Default.aspx#Foald06eb81bc-a88e-4560-89fa-d465a29fff62 https://eere-Exchange.energy.gov 	

Vehicle Technologies Office Program Wide Funding	
Open Date:	Important Dates:
July 2022	<p>- Application deadline November 10, 2022</p> <p>- Award notifications & start of award negotiations March 2023</p>
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$96,000	TBD

Recipient(s): TBD	Eligible Entities: Open to Individuals, Institutions of higher education, For-profit entities, Non-profit entity & State, local, & Tribal Nations
<p>How to Apply: -- jessica.adams@netl.doe.gov - 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 November 10th, 2022 (Nov 4th, 2022)</p>	
<p>Description: To providing better, cleaner affordable mobility options. Specifically, this funding seeks innovative solutions for on-road & off-road vehicles to develop & accelerate the charging infrastructure & drastically reduced GHG emissions</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> • Cost-effective deployment of EV charging for those without easy home charging; to improve mobility options for underserved communities; community engagement to accelerate clean transportation options in underserved communities; batteries & electrification; materials technologies; energy-efficient commercial off-road vehicle technologies; medium/heavy duty vehicle corridor charging & advanced engine & fuel technologies to improve fuel economy & reduce GHG emissions <p>Links:</p> <ul style="list-style-type: none"> • https://eere-exchange.energy.gov/Default.aspx#Foald8cf6d82c-c517-4db4-9bd7-778ba7232f8f 	

Industrial Research and Assessment Center Implementation Grants	
Open Date:	Important Dates:
N/a	<ul style="list-style-type: none"> - 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): Arizona State University	Eligible Entities: Institutions of Higher Education, Community College, Trade School, Or Union Training Program

How to Apply:

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): Arizona State University	Eligible Entities: Institutions of Higher Education, Community College, Trade School, Or Union Training Program

How to Apply:

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	
<p>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</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> 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 <p>Links:</p> <ul style="list-style-type: none"> https://www.energy.gov/bil/building-training-and-assessment-centers 	

Building Resilient Infrastructure & Communities	
Open Date:	Important Dates:
N/a	- FY22 BRIC applications open September 30, 2022 - FY22 BRIC applications due January 27, 2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$1,000,000	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	
<p>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</p> <p>Program Uses(s):</p>	

- 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"> - Full application deadline December 20, 2022 - Expected Submission Deadline for Replies to Reviewer Comments February 2, 2022 - 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): TBD	Eligible Entities: Open to for-profit entities, educational institutions, nonprofits, States, local governments, tribal governments & others as specified in the FOA
<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>	

- <https://eere-exchange.energy.gov/Default.aspx#Foald8cf6d82c-c517-4db4-9bd7-778ba7232f8f>

Critical Material Innovation, Efficiency, And Alternatives

Open Date:	Important Dates:
N/a	- As of 9/26/22 estimated program rollout & application date TBD
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	
Description: R&D, demonstration, & commercialization to develop alternatives to critical materials, to promote their efficient production and use & ensure a long-term supply	
Program Uses(s):	
<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. 	
Links:	
<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 	

Carbon Storage Validation & Testing

Open Date:	Important Dates:
N/a	<ul style="list-style-type: none"> - Questions on FOA must be submitted by 11/22/2022 (3 biz days prior to application deadline) through FedConnect - Applications due 11/28/2022 - Selection notifications expected approx. 3/13/2022

	- Expected Timeframe for Award Negotiations 7/31/2023
Federal \$ Available (\$Thousands):	AZ \$ Available (\$Thousands):
\$2,500,000	\$TBD
Recipient(s): Universities	Eligible Entities: Technology Developers, Industry, Utilities, Universities, National Laboratories, Engineering and Construction firms, and State and Local Governments
<p>How to Apply: Office of Clean Energy Demonstrations - DL-OCED-Engagement@hq.doe.gov; - Questions regarding FOA must be submitted through the FedConnect portal 3 business days prior to the application due date: https://www.fedconnect.net/</p>	
<p>Description: To establish a program of R&D & demonstration for carbon storage</p> <p>Program Uses(s):</p> <ul style="list-style-type: none"> Development or expansion of multiple stages of commercial large-scale carbon sequestration projects & associated carbon dioxide transport infrastructure <p>Links:</p> <ul style="list-style-type: none"> FOA: https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%3fagency%3dDOE%26doc%3dDE-FOA-0002711%26utm_medium%3demail%26utm_source%3dgovdelivery&agency=DOE&doc=DE-FOA-0002711&utm_medium=email&utm_source=govdelivery NETL: https://netl.doe.gov/carbon-management/carbon-storage OCED: https://www.energy.gov/bil/carbon-storage-validation-and-testing 	

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: - 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 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: Non-Profit Partnerships
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.

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>

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

Program Uses(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

Links:

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

Clean Energy Demonstration Program on Current and Former Mine Land

Open Date:

N/a

Important Dates:

- Request for Information published on **June 29, 2022**
- Comments on RFI due **August 15, 2022**
- Applications estimated to open in **2023**

Federal \$ Available (\$Thousands):

\$500,000

AZ \$ Available (\$Thousands):

\$TBD

Recipient(s): TBD

Eligible Entities: NIndustry Partners, Project Developers

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

Description: To establish a program to demonstrate the technical & economic viability of carrying out clean energy projects on current & former mine land

Program Uses(s):

- 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

Links:

- <https://www.energy.gov/bil/clean-energy-demonstration-program-current-and-former-mine-land>

Transmission Facilitation Program (Revolving Loans)

Open Date:

N/a

Important Dates:

- Notice of Intent issued on **1/19/2022**
- Comments on RFI are due to DOE by **June 13, 2022**
- Additional NOI & RFI expected to be issued in the **1st quarter of 2023**
- Program rollout **TBD**

Federal \$ Available (\$Thousands):

\$50,000

AZ \$ Available (\$Thousands):

\$TBD

Recipient(s): Businesses

Eligible Entities: Transmission Developers

How to Apply: - 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
 - Requests for additional information may be sent to: TransmissionFacilitation@hq.doe.gov.
 Questions about the NOI and RFI may be addressed to Carrie Cobb at (202) 586-1411.
 - Interested parties may submit comments on the RFI to the Federal eRulemaking Portal: <http://www.regulations.gov>.
 - Loan Programs Office - lpo@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):

- 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:

- <https://www.energy.gov/bil/transmission-facilitation-program>