

CUSP Annual Meeting

September 10, 2024

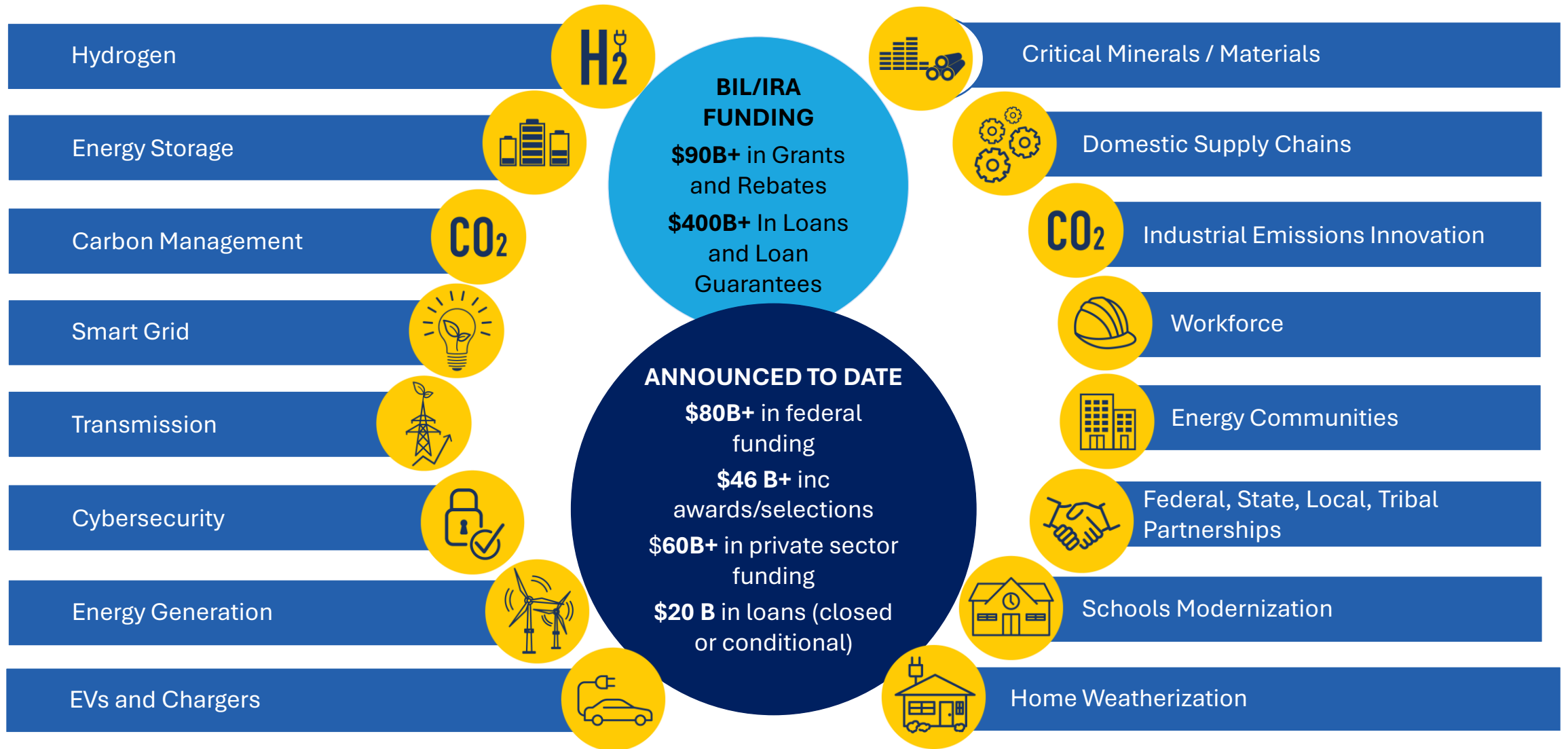
Peter Olivares

Fellow, DOE Office of Community Engagement



U.S. DEPARTMENT OF
ENERGY

Historic Funding Opportunities



Western Tribal Fossil Energy and Carbon Management Working Group

Purpose

- To empower the Western Tribes with fossil energy and carbon management resources to gain full access to the available funding and incentive opportunities.
- To accelerate the Western Tribes' pivot towards clean energy while developing their vast energy and carbon management potential.
- The Working Group will provide input, local knowledge, and expertise, and advise the Federal Government on the best ways to assist Western Tribes' decarbonization efforts, as well as the utilization of their natural resources.

Western Tribal Fossil Energy and Carbon Management Working Group

Topics/Issues (examples)

- Tribal Energy Sovereignty
- Bipartisan Infrastructure Law Funding and 45Q Tax Credit Enhancements
- CO2 Geologic Storage Opportunities
- CarbonSAFE Phased Approach and Technical Assistance Available
- Class VI Primacy Grants
- Funding/Financing Opportunities for Repurposing Energy Assets Set to Retire
- Critical Minerals

Western Tribal Fossil Energy and Carbon Management Working Group

Preliminary Membership

- Navajo Nation
- Hopi Tribe
- Crow Nation
- Ute Mountain Ute Tribe
- Southern Ute Indian Tribe of the Southern Ute Reservation
- Ute Indian Tribe of the Uintah & Ouray Reservation
- Jicarilla Apache Nation
- MHA Nation

Programs & Funding Opportunities

Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Regional Initiative

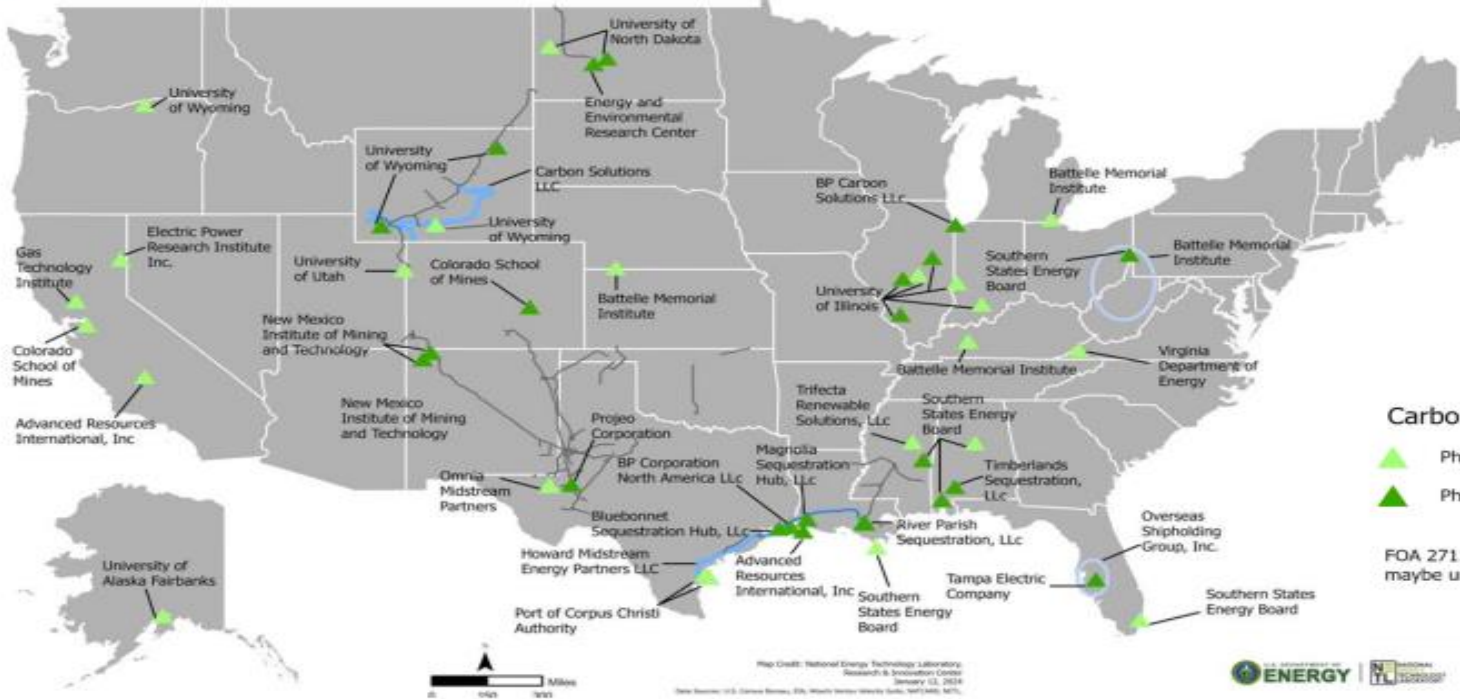


Figure 1: Nationwide map of CORE-CM Regions.

Learn more at: [Funding Notice: Regional Scale Collaboration to Facilitate a Domestic Critical Minerals Future: Carbon Ore, Rare Earth, and Critical Minerals \(CORE-CM\) Initiative | Department of Energy](#)

CarbonSAFE Overview

CarbonSAFE Projects Throughout the U.S.



BIL 40305—Storage Validation and Testing

\$2.25 billion over 5 years for **50 MMT Hubs** and **Large-Scale Storage**

To date, **\$686 million** in BIL selections announced

Learn more at: [CarbonSafe Initiative | netl.doe.gov](https://netl.doe.gov)

Funding Opportunity Announcement: Carbon Capture, Removal, and Conversion Test Center (FOA 3365)

- **Up to \$127.5 million in federal funding to support the development of carbon dioxide (CO₂) capture, removal, and conversion test centers for cement manufacturing facilities and power plants.**
 - The energy and capital cost associated with state-of-the-art carbon capture systems is a barrier to wide deployment.
 - This effort supports the establishment of test centers to cost-effectively research and evaluate carbon capture, removal, and conversion technologies in an industrial/utility environment
- **This FOA seeks applications from Tribal Nations, Institutions of Higher Education, For- and Non-profit Organizations, and State and Local governments.**
- Submission Deadline for Full Applications: October 31, 2024 by 5pm E.T.
 - No LOI/CP required.
- [Link to Program Webpage to learn more.](#)

Funding Opportunity Announcement: Carbon Capture, Removal, and Conversion Test Center (FOA 3365)

Areas of Focus

1. **Carbon Capture, Removal, and Conversion Test Center at an Electric Generating Unit** will focus on providing post-combustion flue gas testing capabilities representative of domestic coal and/or natural gas-based power systems.
2. **Enabling Capital Improvements at Existing Carbon Capture Test Facilities** will focus on providing enhanced capabilities and infrastructure improvements at existing flue gas testing centers representative of domestic fossil-based power systems.
3. **Carbon Capture, Removal, and Conversion Technology Test Center at a Cement Manufacturing Facility** will focus on providing flue gas testing representative of domestic cement manufacturing facilities.

[Link to Program Webpage to learn more.](#)

Funding Opportunity Announcement: Carbon Management (FOA 2614, Round 6)

- **Up to \$54.4 million** in additional funding to advance diverse carbon management approaches that reduce CO2 pollution.
- Projects will develop technologies that capture CO2 from industrial and power generation sources or directly from the atmosphere and transport it either for permanent geologic storage or conversion into valuable products such as fuels and chemicals.
- **DOE expects to make up to 36 awards between \$400,000 and \$5 million each with a minimum of a 20% cost-sharing from the awardees.**
- **Full Application Submission Deadline: October 14, 2024 by 5:00 PM ET**
- No LOI/CP required.
- **This FOA seeks applications from Tribal Nations, Institutions of Higher Education, For- and Non-profit Organizations, State and Local governments, and Individuals.**
- [Link to program page to learn more.](#)

Funding Opportunity Announcement: Carbon Management (FOA 2614, Round 6)

Areas of Focus

1. Carbon Conversion Technologies:

1. Reactive Carbon Capture Approaches for Point Source Capture or Atmospheric Capture with Integrated Conversion to Useful Products

2. Point Source Carbon Capture Technology:

1. Engineering-Scale Testing of Transformational Carbon Capture Technologies for Natural Gas Combined Cycle (NGCC) Power Plants
2. Engineering-Scale Testing of Transformational Carbon Capture Technologies in Portable Systems at Industrial Plants
3. Preliminary Front-End Engineering Design Studies (Pre-FEED) for Carbon Capture Systems at Existing (Retrofit) Domestic NGCC Power Plants
4. Preliminary Front-End Engineering Design Studies (Pre-FEED) for Carbon Capture Systems at Hydrogen Production Facilities Using Coal, Mixed Coal/Biomass, or Natural Gas Feedstock

3. Carbon Transport and Storage:

1. Enhancing CO2 Transport Infrastructure (ECO2Transport): Pre-FEED Studies for Multimodal CO2 Transfer Facilities.

[Link to Program Webpage to learn more.](#)

Notice of Intent: University Training and Research for Fossil Energy and Carbon Management (NOI 3436)

- **This is an upcoming (Q4 2024) Funding Opportunity for the University Training and Research Program. This program seeks to:**
 - Educate and train the next generation of engineers and scientists
 - Support novel, early-stage research at U.S. colleges and universities
 - Increase research and development opportunities for underrepresented and structurally marginalized communities
 - Ensure that students are being equipped with cutting-edge, translatable skillsets that will allow them to contribute to the U.S. workforce and greater economy over the course of a longstanding and enduring career.
- **Areas of Interest will include** – Curriculum to Grow Carbon Management Education Capacity; Critical Minerals Supply Chain Career Awareness Outreach Programs; Soil Carbon Sequestration Programs; and the Use of AI/ML to Advance Point Source Capture and Train the Next Generation of Engineers.
- Expected FOA Issue Date is during Q4 2024.
- [Link to Program Webpage to learn more.](#)

Notice of Intent: Advancing Technology Development for Securing a Domestic Supply of Critical Minerals and Materials (NOI 2955)

- This upcoming (Q3 2024) Funding Opportunity will fund additional processing research and development for the recovery and refining of critical minerals and materials, as required for critical supply chain use.
- If issued, this funding opportunity would focus on rebuilding the U.S. leadership role in the economically viable, environmentally benign critical minerals and materials extraction, separation, and refining technologies arena.
- Areas of Interest will include:
 - Coproduction of Critical Minerals and Materials and Carbon Manufacturing Precursor Materials from Unconventional Coal and Other Carbon-based Feedstocks
 - Recovery of Heavy Rare Earth Elements from Secondary and Unconventional Resources
 - Critical Mineral Recovery from Produced Water
 - Process Diversification: Production of Rare Earth Elements from Secondary/Unconventional Resources and Recycled Materials
- **Expected FOA Issue Date is during Q3 2024.**
- [Link to program page to learn more.](#)

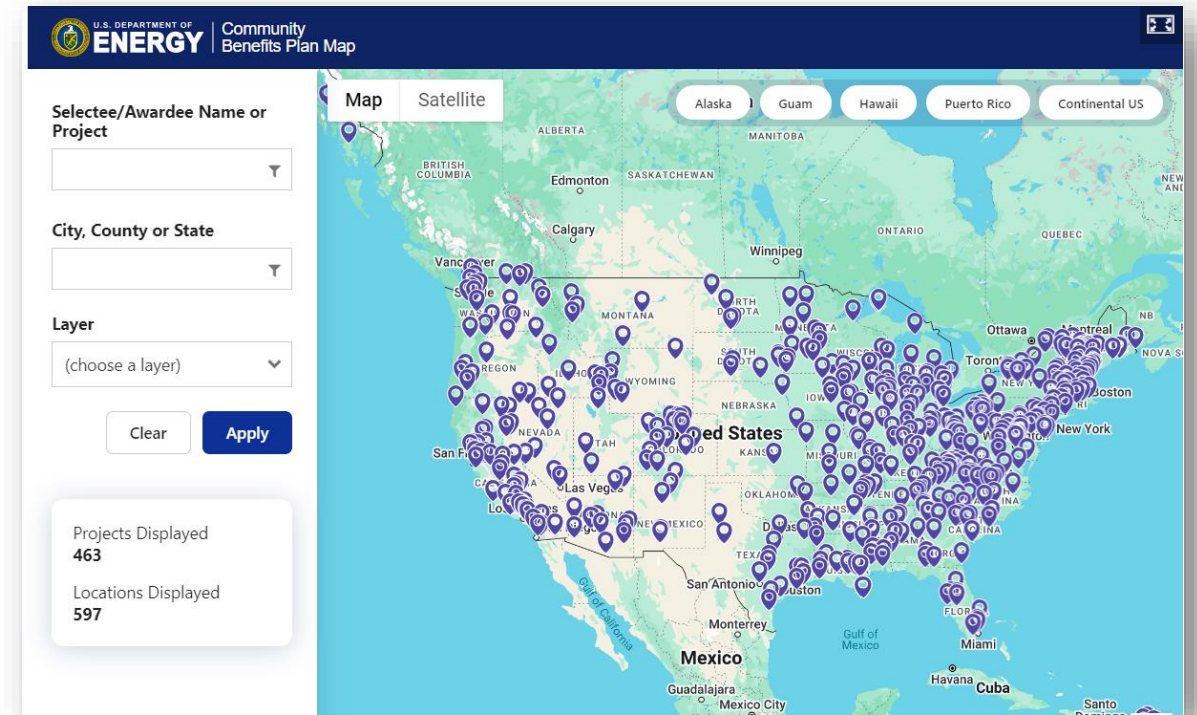
Additional Resources

Carbon Management Resource Portal

- DOE understands that communities and other impacted stakeholders need access to information grounded in science to better understand carbon management technologies and to represent themselves in project development conversations. Therefore, DOE has created this resource hub to meet that need and to address the following objectives:
 - Provide information on the different technology areas that fall under the umbrella term “carbon management” for different knowledge levels.
 - Provide information in different formats—including videos, infographics, fact sheets, frequently asked questions (FAQs), and research articles
 - Provide a mechanism for the public to ask DOE experts questions about the information in this portal
- Portal covers Carbon Capture; Hydrogen with Carbon Management; Carbon Transport, Storage and Conversion; and Carbon Dioxide Removal.
- Learn more here: [Carbon Management Resource Portal | Department of Energy](#)

Community Benefits Map for Demonstration & Deployment Projects

- Helpful when:
 - You want to learn about Bipartisan Infrastructure Law and Inflation Reduction Act Projects/Benefits
 - Data from 2019 to present
- Indicators include:
 - Community and workforce agreements – project labor agreements, collective bargaining agreements, community workforce agreements and community benefit agreements;
 - Community advisory councils
 - Other workforce benefits such as training, pre-apprenticeship and apprenticeship programs, local and targeted recruitment, public commitments to neutrality and supports like transportation and childcare
- [Visit at the link here.](#)

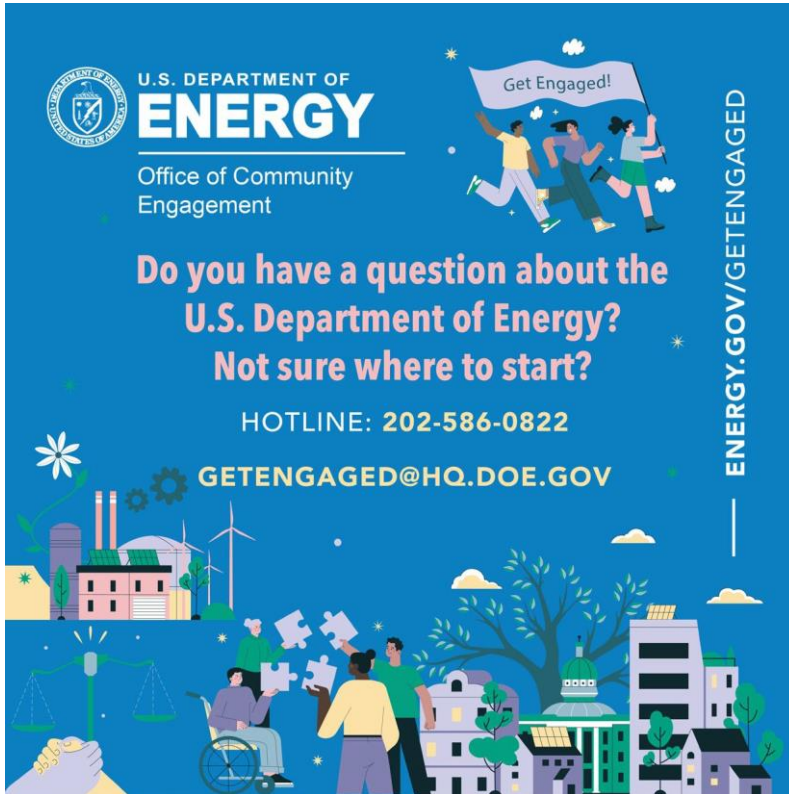


Office of Community Engagement

- Established at request of Secretary of Energy Jennifer Granholm
- Office of Community Engagement (OCE) serves as central hub for the U.S. Department of Energy's (DOE) engagement efforts.
- OCE helps connect communities with expertise & resources to advance THEIR clean energy goals.



GetEngaged



U.S. DEPARTMENT OF
ENERGY
Office of Community
Engagement

Get Engaged!

**Do you have a question about the
U.S. Department of Energy?
Not sure where to start?**

HOTLINE: 202-586-0822
GETENGAGED@HQ.DOE.GOV

ENERGY.GOV/GETENGAGED

The banner features an illustration of three people running with a 'Get Engaged!' banner, a factory, wind turbines, solar panels, a person in a wheelchair, and a hand holding a coin.

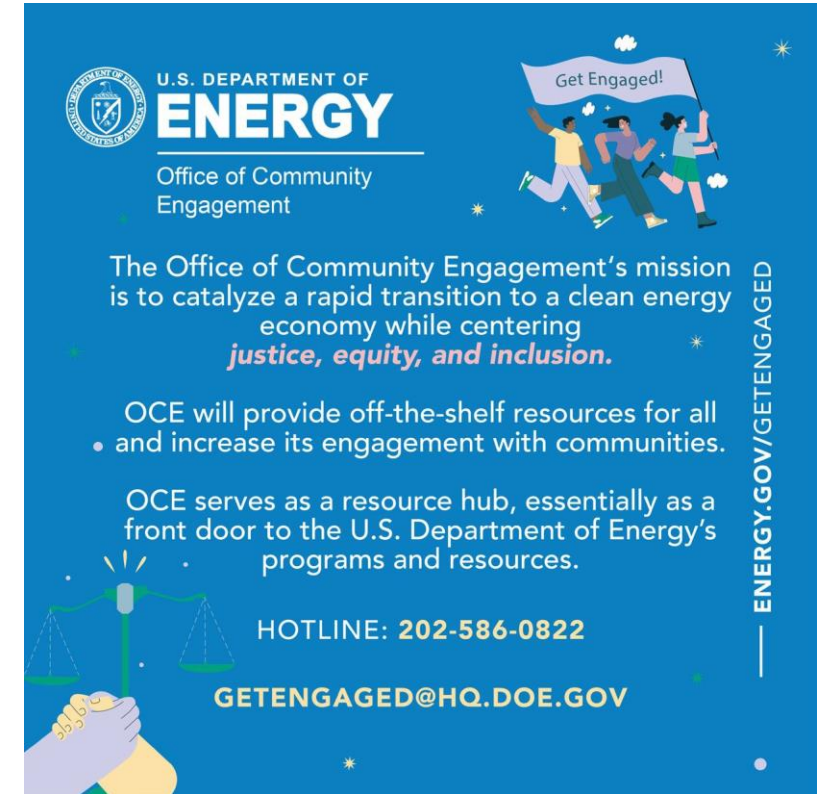
Get Engaged Hotline:
202-586-0822

Get Engaged Email Address:
getengaged@hq.doe.gov

Website:
[Office of Community Engagement
Homepage | Department of Energy](#)

Bi-Weekly Office Hours
Registration
[Meeting Registration - Zoom
\(zoomgov.com\)](#)

LinkedIn
<https://www.linkedin.com/company/doe-office-of-community-engagement/>



U.S. DEPARTMENT OF
ENERGY
Office of Community
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Get Engaged!

The Office of Community Engagement's mission is to catalyze a rapid transition to a clean energy economy while centering **justice, equity, and inclusion.**

- OCE will provide off-the-shelf resources for all and increase its engagement with communities.
- OCE serves as a resource hub, essentially as a front door to the U.S. Department of Energy's programs and resources.

HOTLINE: 202-586-0822
GETENGAGED@HQ.DOE.GOV

ENERGY.GOV/GETENGAGED

The banner features an illustration of three people running with a 'Get Engaged!' banner, a hand holding a coin, and a scale of justice.

Connect With Your Engagement Specialist

Northeast: Genevieve Kruse

Genevieve.Kruse@hq.doe.gov

Mid-Atlantic / Appalachia: Kerene Tayloe;

Kerene.Tayloe@hq.doe.gov

Midwest: Bobby Boyd; Bobby.Boyd@hq.doe.gov

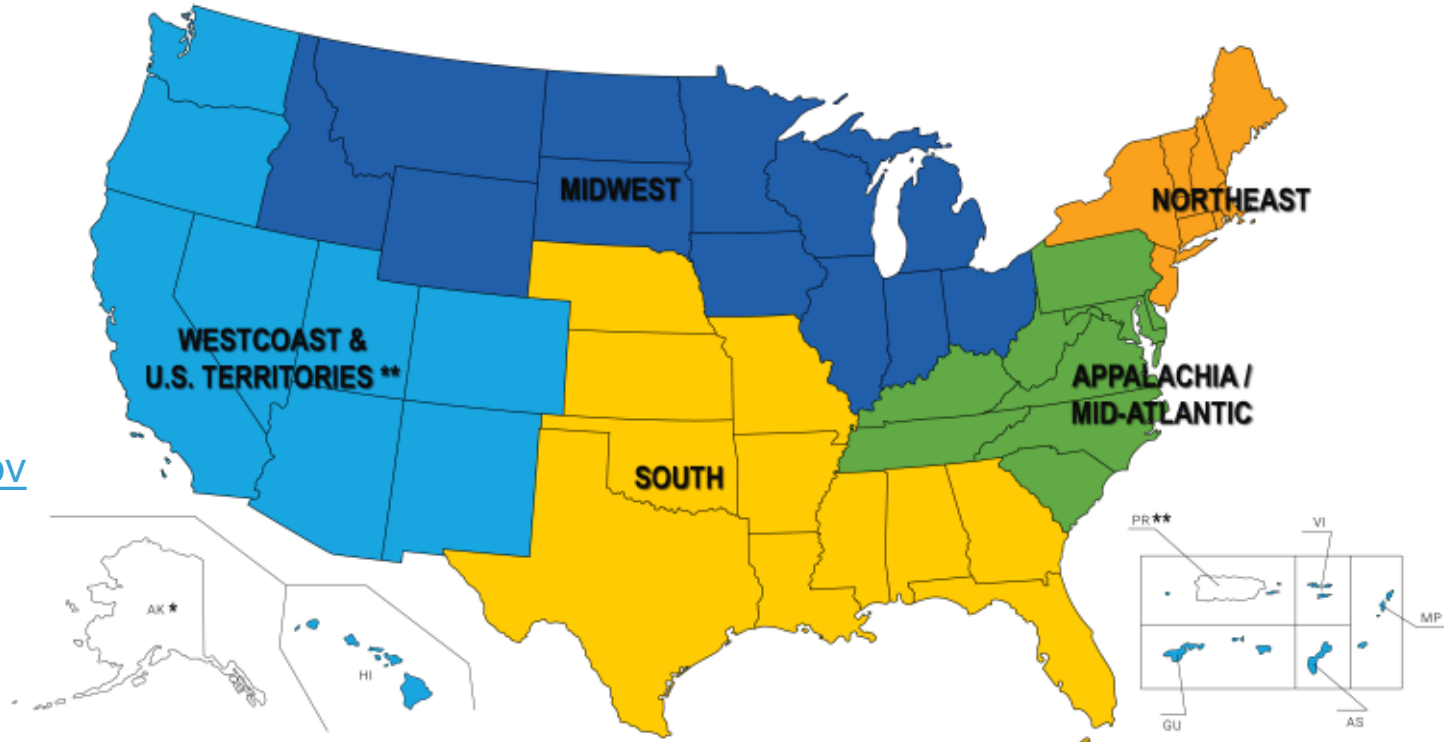
South: Jeremiah Rivera; Jeremiah.Rivera@hq.doe.gov

West & U.S. Territories: CeCe Horbat

Celina.Horbat@hq.doe.gov

Rural & Tribal: Peter Olivares

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* Alaska will be served by Arctic Energy Ambassadors

** Puerto Rico will be served by the dedicated team already assigned

Thank you!



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department-of-energy/](https://www.linkedin.com/company/u-s--department-of-energy/)



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