

# Opportunities for Energy Communities in the Biden Administration & Through the Bipartisan Infrastructure Law

Regional Carbon Management Workshop - April 7, 2022



# Interagency Working Group (IWG) on Coal and Power Plant Communities and Economic Revitalization



- The Interagency Working Group (IWG) was established by [Executive Order 14008](#), Sec. 218, on Jan. 27
- The IWG released an [Initial Report](#) with recommendations to catalyze robust economic activity and support workers in America's energy sector



*Initial Report to the President on Empowering Workers Through Revitalizing Energy Communities, Released April 23, 2021*



# Prioritizing Those Most In Need of Support

- Identified 25 priority Energy Communities
- Coal communities identified as immediately challenged
- **Work now expanding into oil & gas communities**

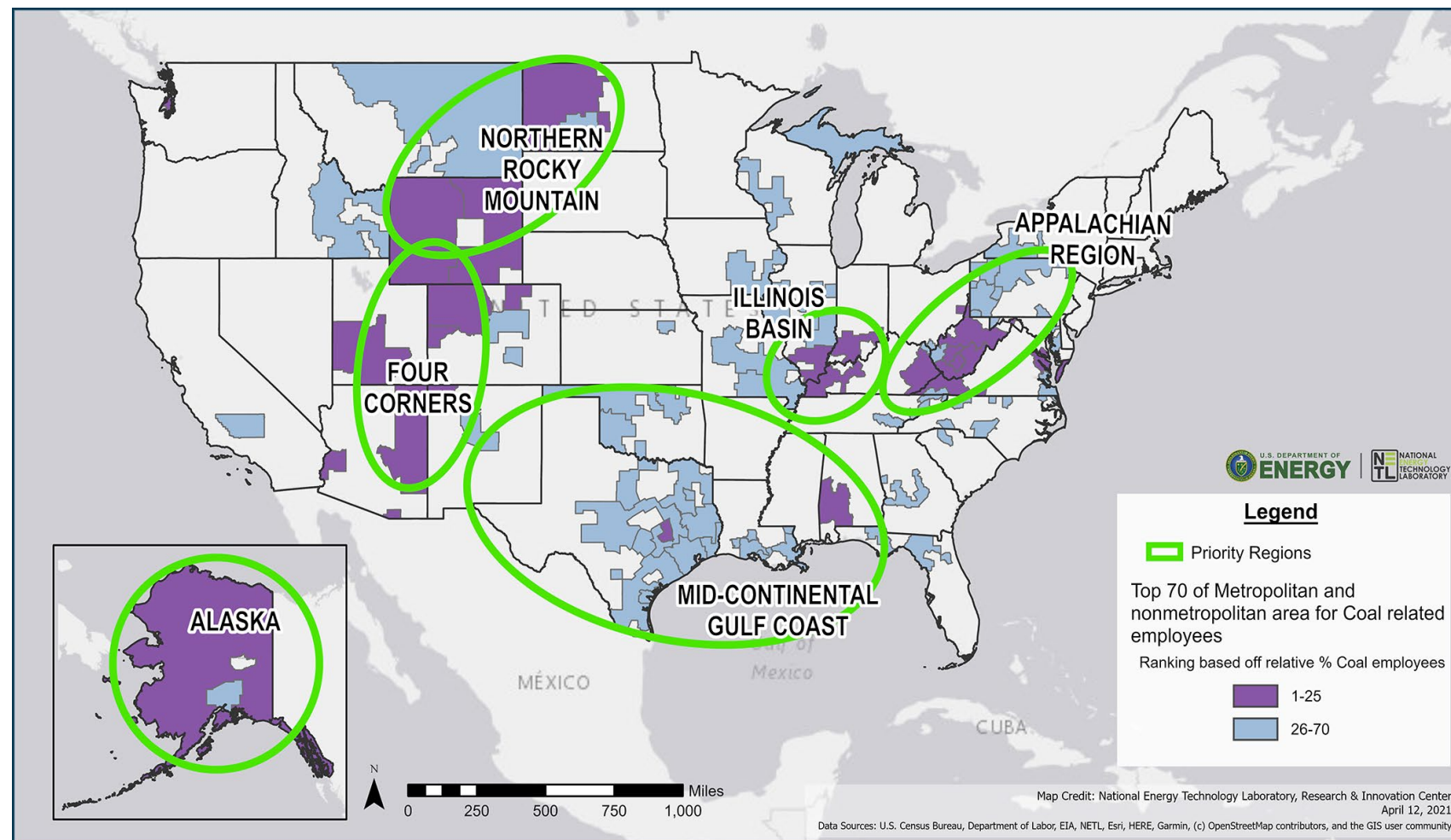


Figure 2 in the report. The IWG recommends focusing initial federal investments in areas with high concentrations of coal-dependent jobs.

# Key Learnings from Energy Communities

- Need to **think ahead**: “Plan for transition or be run over by it.”
- **Economic diversification** is as important as energy transition.
- Every community brings different challenges and opportunities.
  - There is **no “one size fits all”** approach to energy transition.
  - There are **no “silver bullets”** or 1:1 industry replacement.
- **Meaningful community engagement** matters.
- Need for immediate **high-quality** jobs, equitable access to these jobs, AND long-term economic strategies.
- Basic infrastructure matters: **transportation, transmission, workforce, water.**



# Federal Clearinghouse: [energycommunities.gov](https://energycommunities.gov)



We are delivering federal resources to help revitalize America's energy communities

**GET FUNDING**

Find out what your community or organization might be eligible to receive in grants, loans, technical assistance, or other support

[EXPLORE FUNDING CLEARINGHOUSE](#)

**124**

Open/Planned Opportunities Currently Available

(Last updated: 2/24/22)

**49**

Opportunities Don't Require Matching Funds

(Last updated: 2/24/22)

**\$199B+**

Open/Planned Funding Available

(Last updated: 2/24/22)

Learn about new Bipartisan Infrastructure Law funding →

\$199B+

Value of Open/Planned Ongoing Appropriation Opportunities

Title	Status	Funding Type	Department/Agency	Program Purpose	Eligible Recipients
<a href="#">Abandoned Mine Land (AML) Reclamation Program</a>	Open	Grant - no match	U.S. Department of the Interior	Infrastructure, Water & Environment	Indian Tribe, State
<a href="#">Abandoned Mine Land Economic Revitalization (AMLER) Program</a>	Open	Grant - no match	U.S. Department of the Interior	Infrastructure, Water & Environment	Indian Tribe, State
<a href="#">Advanced Biofuel Payment Program</a>	Closed	Payment Program	U.S. Department of Agriculture	Infrastructure	Private Sector
<a href="#">Advanced Technology Vehicle Manufacturing Loan Program</a>	Open	Loan	U.S. Department of Energy	Economic Development	Private Sector
<a href="#">American Rescue Plan Act (ARPA) Funding - Coal Community Commitment</a>	Open	Grant - match required	U.S. Department of Commerce	Economic Adjustment, Economic Development, Infrastructure, Technical Assistance, Workforce Development	District Organization, Educational Institution, Indian Tribe, Local Government, Non-profit, State

124

Open/Planned Ongoing Appropriation Opportunities

12

Agencies Represented

49

Opportunities w/ no cost share

Dozens of new opportunities coming with the new Bipartisan Infrastructure Law (BIL)

<https://energycommunities.gov/funding>

# Bipartisan Infrastructure Law – DOE Programs

<https://www.energy.gov>

<https://build.gov>

The screenshot shows the Energy.gov website with a green header and navigation menu. The main content area features a large banner with the title "Bipartisan Infrastructure Law Programs" and a collage of images related to energy infrastructure. Below the banner, there is a section titled "More Information" with a call to action to learn more about the law and DOE programs.

ENERGY.GOV

SCIENCE & INNOVATION ENERGY ECONOMY SECURITY & SAFETY SAVE ENERGY, SAVE MONEY

## Bipartisan Infrastructure Law Programs

Department of Energy

Energy.gov » Bipartisan Infrastructure Law Programs

For the next five years, the Bipartisan Infrastructure Law will stand up 60 new DOE programs, including 16 demonstration and 32 deployment programs, and expands funding for 12 existing Research, Development, Demonstration, and Deployment (RDD&D) programs.

DOE looks forward to being a partner for states, communities, and industry as we move the U.S. economy towards a clean energy, lower carbon emissions future by strengthening the nation's outdated energy infrastructure.

HAVE QUESTIONS?

**More Information**

Learn more about the Bipartisan Infrastructure Law and the Department of Energy



# Clean Energy Demonstrations

The deal will provide **\$21.5 billion** in funding for clean energy demonstrations and research hubs, including:

- **\$8 billion** for clean hydrogen
- **More than \$10 billion** for carbon capture, direct air capture and industrial emission reduction
- **\$2.5 billion** for advanced nuclear
- **\$1 billion** for demonstration projects in rural areas and **\$500 million** for clean energy demonstration projects on current or former mine lands

# Delivering Reliable, Clean, and Affordable Power to More Americans

## Bringing the electrical grid into the 21st century

- Invest **\$11 billion** in grants for states, tribes, and utilities to enhance the resilience of the electric infrastructure against disruptive events such as extreme weather and cyber attacks
- Establish a **\$2.5 billion** Transmission Facilitation Program for DOE
- Back a **\$3 billion** expansion of the Smart Grid Investment Matching Grant Program

## Maintaining our existing clean generation fleet

- Allocate **\$6 billion** for the Civilian Nuclear Credit program to prevent premature retirement of existing zero-carbon nuclear plants
- Invest more than **\$700 million** in existing hydropower facilities



# Investing in American Manufacturing and Workers

## Revitalizing domestic supply chains and America's manufacturing leadership

- Invest more than **\$7 billion** in the supply chain for batteries
- Provide an additional **\$1.5 billion** for clean hydrogen manufacturing and advancing recycling RD&D
- Create a new **\$750 million** grant program to support advanced energy technology manufacturing projects in coal communities
- Expand the authority of DOE's Loan Program Office

## Investing in America's workforce

- Requires all construction workers on projects funded by the BIL to be paid prevailing wages
- Invests **hundreds of millions** in workforce development
- Establishes a multi-agency Energy Jobs Council

# Expanding Access to Energy Efficiency and Clean Energy

- Invest **\$3.5 billion** in the Weatherization Assistance Program that will reduce energy costs for low-income households by hundreds of dollars every year
- Invest **\$500 million** to provide cleaner schools for our children and teachers
- Invest **\$550 million** in the Energy Efficiency and Conservation Block Grant Program and **\$500 million** in the State Energy Program to provide grants to develop and implement clean energy programs and projects that will create jobs

# BIL Programs Especially Relevant

- **For specific geographies–**
  - \$1 billion: Energy Improvement in Rural and Remote Areas
    - Funding available for communities of less than 10,000 people.
- **For communities in energy-producing or mining areas–**
  - \$500 million: clean energy demonstration activities on current or former mine land
  - \$750 million: advanced energy manufacturing or recycling, or reducing emissions from industrial facilities in communities with retired coal mines or power plants
  - \$140 million: demonstration facility producing rare earth elements from waste material
  - \$6 billion: battery materials processing and battery manufacturing and recycling

# BIL Programs Especially Relevant

Program Name	Funding Amount	Next Milestones
R&D to Support Orphan Well Plugging	\$30,000,000	More information will be released Spring of 2022.
Clean Energy Demonstration Program on Current and Former Mine Land	\$500,000,000	Estimated application opening date, 2023.
Critical Materials Supply Chain Research Facility; Innovation, Efficiency, Alternatives	\$675,000,000	More information will be released Spring of 2022.
Rare Earth Demonstration Facility; Rare Earth Mineral Security	\$267,000,000	Request for Information open until 3/31/2022
Advanced Energy Manufacturing and Recycling Grant Program	\$750,000,000	More information will be released Spring of 2022.
Battery Material Processing Grants; Manufacturing and Recycling Grants	\$6,000,000,000	Notice of Intent issues 2/10/2022; estimated application opening spring/summer 2022





# Find updates at energy.gov/bil

The screenshot shows a web browser window displaying the DOE Bipartisan Infrastructure Law Program & Funding Opportunity Announcements page. The browser's address bar shows the URL [energy.gov/bil/bipartisan-infrastructure-law-programs](https://energy.gov/bil/bipartisan-infrastructure-law-programs). The page title is "DOE Bipartisan Infrastructure Law Program & Funding Opportunity Announcements". Below the title, there is a "Show 10 entries" dropdown menu and a "Search:" input field. The main content is a table with 5 columns: "BIL PROVISION NAME", "TYPE OF ANNOUNCEMENT", "STATUS", "ANNOUNCEMENT DATE", and "RESPONSE DUE DATE". The table contains 6 rows of data. At the bottom of the table, there are "Previous", "1", and "Next" buttons, and the text "Showing 1 to 6 of 6 entries". The Windows taskbar is visible at the bottom of the screenshot, showing the search bar, taskbar icons, and system tray with the time 8:49 AM on 2/22/2022.

BIL PROVISION NAME	TYPE OF ANNOUNCEMENT	STATUS	ANNOUNCEMENT DATE	RESPONSE DUE DATE
<a href="#">Regional Clean Hydrogen Hubs</a>	Request for Information	Open	2/15/2022	3/8/2022
<a href="#">Rare Earth Elements Demonstration Facility</a>	Request for Information	Open	2/14/2022	3/31/2022
<a href="#">Electric Drive Vehicle Battery Recycling and Second-Life Applications Program</a>	Notice of Intent	N/A	2/10/2022	N/A
<a href="#">Clean Hydrogen Electrolysis Program</a>	Request for Information	Open	2/15/2022	3/29/2022
<a href="#">Civil Nuclear Credit Program</a>	Request for Information	Open	2/10/2022	3/17/2022
<a href="#">Battery Materials Processing Grants; Battery Manufacturing and Recycling Grants</a>	Notice of Intent	N/A	2/10/2022	N/A

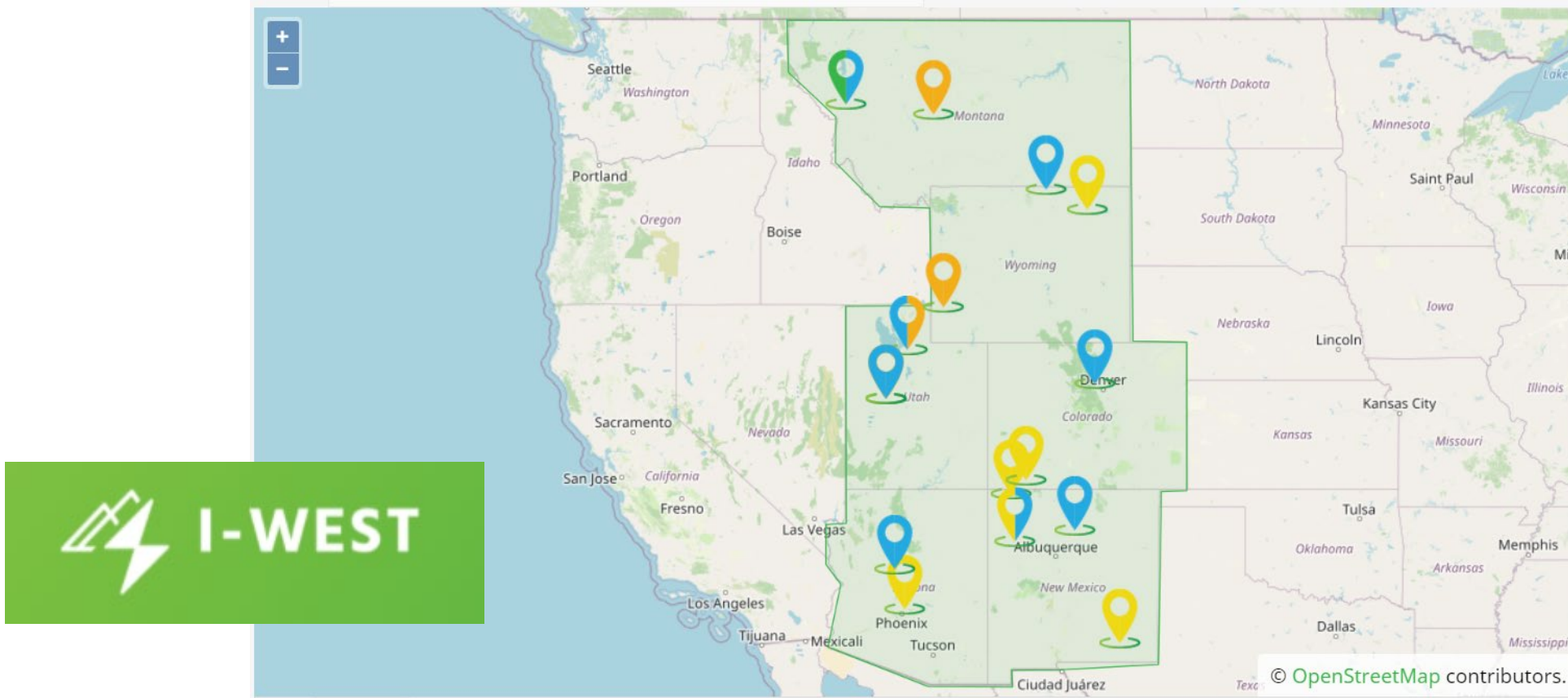


# Regional Specialists: Directing BIL Traffic

[DL-RegionalSpecialists@hq.doe.gov](mailto:DL-RegionalSpecialists@hq.doe.gov)



# Additional I-West: Regional Energy Transition Initiative (iwest.org)



# Fossil Asset Repurposing



- *Key Strategy for Energy Community Revitalization*



# Options for Repurposing Fossil Assets



- **Built-in infrastructure and components can be repurposed for new industry:**
  - Transportation: access to roads, rail, ports and waterways
  - Transmission: Pre-existing direct grid connection at the power plant
  - Water: existing access and water rights
- **Options for Conversion to Clean Energy Assets:**
  - Nuclear (SMRs and Microreactors)
  - Hydrogen
  - Battery Energy Storage System (BESS)
  - Solar and Wind
  - Thermal Energy Storage (TES)
  - Carbon storage
  - And more...



# Examples of Repurposed Fossil Assets



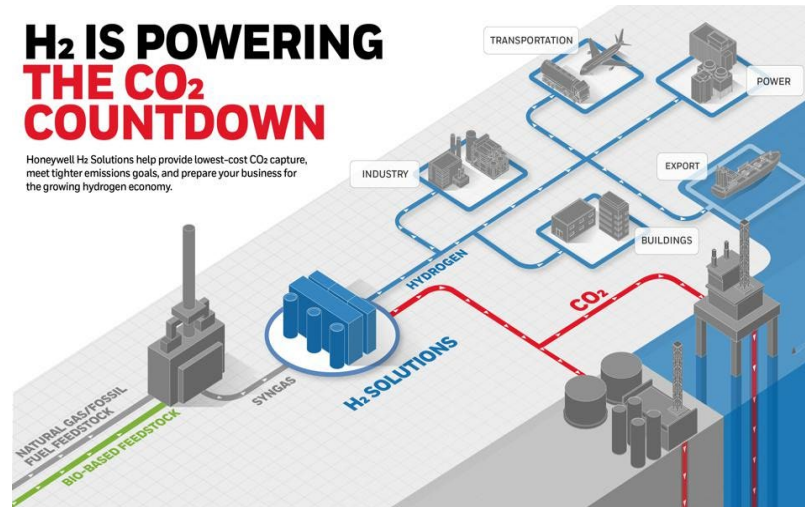
**Mockup of the TerraPower 345 MW nuclear demonstration project:** A former coal generation site in Wyoming.



**ENGIE North America and Holyoke Gas & Electric:** The largest energy storage system (with solar) in Massachusetts, located at the site of the old Mt. Tom power plant.



**The Powerhouse Eatery:** A former coal powerplant turned into a restaurant in Pennsylvania.



**Former gasification plant in West Terre Haute, Indiana:** Wabash Valley Resources and Honeywell are converting the plant into a hydrogen facility. The fuel will be sold to power generators and chemical makers.

# Thank You!

## Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization

*For all Infrastructure Bill-related question please reach  
out to our regional specialists:  
[DL-RegionalSpecialists@hq.doe.gov](mailto:DL-RegionalSpecialists@hq.doe.gov)*



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