# **Community Energy Innovation Summit**

## **Clean Energy and Manufacturing Ecosystem Tracks**

- 🗂 Dec. 4-5, 2024
- Our Chicago





Office of Energy Efficiency & Renewable Energy

# Lupe Villatoro

Senior Advisor, Integrated Strategies Office Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

American Made Challenge | Community Energy Innovation Prize

## Agenda – Day 1

- 9:00 a.m. Welcome Remarks
- 9:45 a.m. Pitch Presentations
  - Clean Energy Ecosystem Track (Illinois C)
  - Manufacturing Ecosystem Track (Fort Dearborn B)
- 11:45 a.m. Networking Lunch
- 12:45 p.m. Pitch Presentations (cont.)
- 2:15 p.m. Leave for Site Visits
- 5:30 p.m. Networking Reception



# Access the Summit Program

Get details on:

- Summit Agenda
- CEI Prize
- Ecosystem Track teams
- American Made program



bit.ly/cei-summit-dec

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See the full notice at the registration desk and speak with CEBN or NREL staff if you have any questions or concerns.

# **Power Connectors**

**VENTURES** 



Entrepreneur Futures Network

American Made Challenge | Community Energy Innovation Prize

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# Andy Mitchell

Asst. Vice Chancellor & Director of Sustainability Planning, Sustainability, and Project Management University of Illinois Chicago



# **Diana Bauer**

Deputy Director Advanced Materials and Manufacturing Technologies Office, U.S. Department of Energy



# Susan Hamm

Director of the Integrated Strategies Office Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy



# **Pitch Presentations**

Clean Energy Ecosystem Track:

Illinois C

Manufacturing Ecosystem Track: Fort Dearborn B

# Join us tonight for a Networking Reception!

When: 5:30-7:30p.m.

Where: Invenergy (1 S Wacker Dr)

Buses will pick up at the Club Quarters Hotel outside between 5:15 and 5:30.



# Invenergy

**Reception Sponsor** 

# **Site Tours**

- Buses will load in front of this building.
- Those who have registered have priority. Others may join buses 2 or 3 if space remains.
- Ensure you board the correct bus – they will be traveling to three separate locations.



- Bus 1 Cultivate Collective
- Bus 2 Switched Source
- Bus 3 Rebuilding Exchange

# Thanks for joining us!



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American Made Challenge | Community Energy Innovation Prize

# **Micaela Preskill**

Director of State Advocacy Environmental Entrepreneurs (E2)

American Made Challenge | Community Energy Innovation Prize

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- American Made program



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## Agenda – Day 2

- 9:00 a.m. Welcome Remarks
- 9:15 a.m. Orientation to DOE Clean Energy Programs
- 9:45 a.m. Community-Based Initiatives Panel
- 11:00 a.m. Speed Networking with Panelists, Experts & Attendees
- 12:00 p.m. Networking Lunch
- 12:45 p.m. Networking Roundtables
- 2:00 p.m. Award Ceremony, Closing



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# Susan Hamm

Director of the Integrated Strategies Office Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy





## Community **Energy Funding Opportunities**

**Community Energy Innovation Summit** December 2024



## THREE FORMS OF DIRECT SUPPORT THAT DOE/EERE PROVIDES TO COMMUNITIES



#### **Direct Funding Assistance**

**Technical Assistance** 

**DIY Resource Assistance** 

Providing information, tools, resources that stakeholders can use independently

Providing money through selective review process; includes prizes, PIAs (Partnership Intermediary Agreement), and NOFOs (Notification of Funding Opportunity)

EERE provides multiple types of direct assistance to communities.

Assistance types are not mutually exclusive.

Many programs combine multiple types of support to target different enduser needs.



### **EERE PROGRAM EXAMPLES**



#### Energy Transitions Initiative Partnership Project (ETIPP)

**Goal:** Transform energy systems and increase energy resilience of remote and island communities

Website: Energy Transitions Initiative Partnership Project



Good Jobs In Clean Energy Prize

**Goal:** Foster an equitable and inclusive workforce in clean energy sectors

Website: Good Jobs in Clean Energy Prize



Community Power Accelerator: Round 3

**Goal:** Expand efforts of new solar developers and co-developers to learn and grow their operations to support successful distributed solar projects

Website: Community Power Accelerator Prize – Round 3



## **ENERGY TRANSITIONS INITIATIVE PARTNERSHIP PROJECT (ETIPP)**



ETIPP is a competitive program providing technical assistance, capacity building, and limited compensation over 18-24 months to communities that are seeking to transform their energy systems and increase energy resilience.

#### Who is eligible?

 Island, coastal, and remote communities experiencing high energy burden, including local governments, tribes, utilities, and non-profits

- Prospective applicants must meet with an ETIPP Regional Partner to discuss their proposed project before applying to the program.
- Regional partners assist applicants in understanding their eligibility as well as how program offerings from DOE and the national laboratories can best meet their community needs.
- The Cohort 5 application period opens in March 2025



## **GOOD JOBS IN CLEAN ENERGY PRIZE**

The Good Jobs in Clean Energy Prize encourages coalition-building in communities across the country focused on quality job creation and equitable and inclusive workforce development.



### **Phase One: Coalition Formation**

Competitors will: 1) create place-based coalitions comprised of labor organizations, clean energy employers, community-based organizations, public agencies, and education/workforce training providers and 2) identify the target population and employment opportunities and workforce challenges in specific clean energy sectors.

Up to 15 coalitions will be awarded \$50,000 each. Must participate in Phase One for eligibility in following phases.



### **Phase Two: Coalition Action Plan**

Competitors will: 1) participate in DOE-provided training on "High Road" economic and workforce development strategies and 2) develop a robust Coalition Action Plan to create quality, accessible jobs, and training partnerships. Up to 10 coalitions will be awarded \$100,000 each.

#### X S X

### **Phase Three: Implementation & Impact**

Competitors will: 1) implement the Coalition Action Plan developed in Phase Two, 2) participate in community of practice and quarterly check-ins, and 3) report on impact.

Top 3 coalitions will be awarded \$200,000-\$300,000; up to 7 runner-up coalitions will receive \$125,000 each.



Phase One submissions due January 31, 2025! Learn more Good Jobs in Clean Energy Prize | HeroX

## **ADDITIONAL DOE PROGRAM EXAMPLES (NON-EERE)**



Communities Sparking Investment in Transformative Energy (C-SITE)

**Goal:** Advance community identified energy priorities.

Website: Local Government Energy Program



Energy Futures Grants (EFG)

**Goal:** Advance partnership efforts that will help scale local strategies that increase resiliency and improve access to affordable clean energy

Website: Energy Future Grants



Home Energy Rebates

**Goal:** Save money on American home energy efficiency improvements and thus lower energy bills

Website: Home Energy Rebates Programs



Weatherization Assistance Program

**Goal:** Reduce energy costs for low-income households by increasing the energy efficiency of their homes

Website: <u>Weatherization</u> Assistance Program



## **COMMUNITIES SPARKING INVESTMENT IN TRANSFORMATIVE ENERGY (C-SITE)**

The goal of C-SITE is to advance community identified energy priorities, such as building efficiency and/or electrification, electric transportation, energy infrastructure upgrades, microgrid development and deployment, renewable energy, resilience hubs, and workforce development.

#### Who is eligible?

Local governments and federally recognized tribes.

#### **Total Funding Pool?**

\$18 million grant funding for projects and programs on clean energy.

#### How to apply?

- Application deadline approximately May 2025.
- Apply through the program's SCEP webpage.



Communities Sparking Investment in Transformative Energy (C-SITE) Funding Opportunity Powered by the Local Government Energy Program (LGEP)

**\$18 million** in funding for clean energy projects and programs







Deliver Local Benefits

- **Advance Energy Priorities**
- Spark New Investments

- Tribes and Local Governments can apply through May 31, 2024
- Visit: energy.gov/scep/ local-government-energy-program



## **ENERGY FUTURES GRANTS (EFG)**

The purpose of EFG is to scale local strategies that increase resiliency and improve access to affordable clean energy in communities.

#### Who is eligible?

Local, state, and Tribal government-led partnerships with local communities.

### **Total Funding Pool?**

\$27 million in financial assistance and technical assistance.

- Application deadline approximately April 2025.
- Apply through the program's SCEP webpage.





## **STATE ENERGY PROGRAM**

The State Energy Program's goal is to support clean energy and address climate change by providing rebates for American home energy improvement projects to help reduce household energy bills

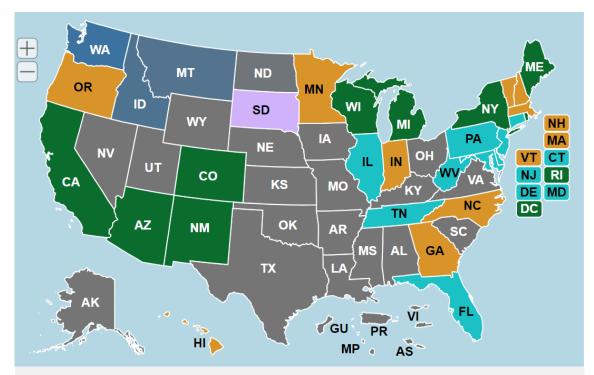
#### Who is eligible?

- Participating states/territories (all but SD)
- Currently those with rebates available: CA, AZ, NM, CO, WI, MI, NY, ME, DC, RI

### **Total Funding Pool?**

\$8.8 billion, dependent on state availability

- See State Energy Program Tracker
- Apply through state's program once launched



## WEATHERIZATION ASSISTANCE PROGRAM (WAP)

The WAP program reduces energy costs for low-income households by increasing the energy efficiency of their homes, while ensuring their health and safety.

#### Who is eligible?

Households at or below poverty income guidelines

#### **Total Funding Pool?**

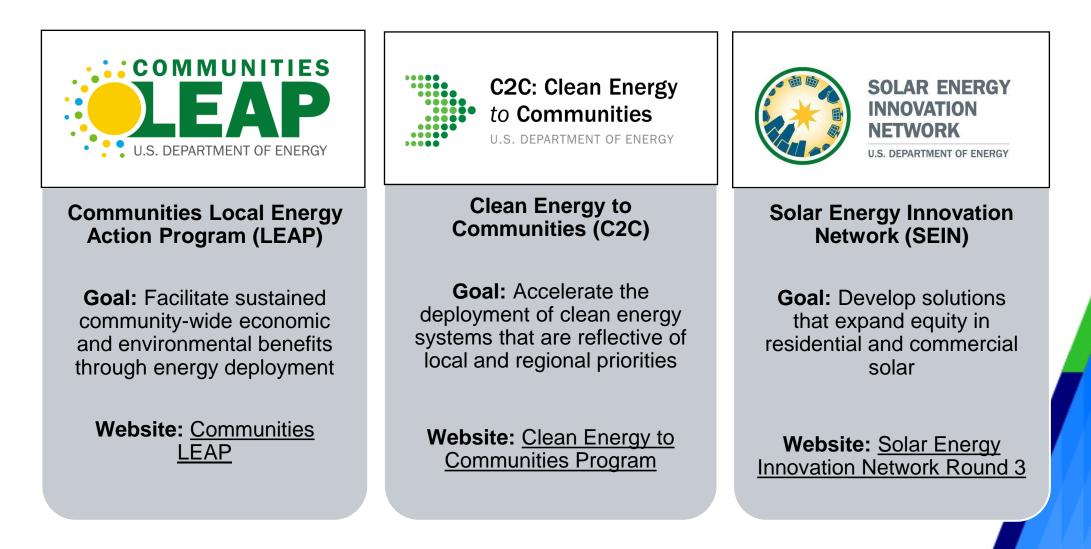
- Dependent on state rules and specific home upgrades and improvements
- The program supports 8,500 jobs and provides weatherization services to approximately 35,000 homes every year

- Rolling admissions
- Apply through your state weatherization administrator via the program website





## EERE TECHNICAL ASSISTANCE PROGRAMS





## EERE TECHNICAL ASSISTANCE PROGRAMS CONT.





Clean Cities and Communities

Clean Cities and Communities

**Goal:** Serve as coalition link to stakeholders on local interest in sustainable transportation

Website: <u>Clean Cities and</u> <u>Communities</u>



Interagency Working Group on Coal & Power Plant Communities & Economic Revitalization

#### Energy Communities Interagency Working Group

**Goal:** Steer funding and resources towards energy communities for rebuilding local economies

Website: <u>Home - Energy</u> <u>Communities</u>



### **COMMUNITIES LOCAL ENERGY ACTION PROGRAM (LEAP)**

LEAP aims to facilitate sustained community-wide economic and environmental benefits primarily through DOE's clean energy deployment work.

#### What opportunities are available?

DOE matches selected communities with technical assistance providers who assist them with bringing their clean energy planning and economic development vision to life

### Who is eligible?

Low-income, energy-burdened communities that are also disadvantaged and/or are experiencing direct economic impacts from a shift away from historical reliance on fossil fuels

**How to apply?** Application for Cohort 3 communities in 2025





## **CLEAN ENERGY TO COMMUNITIES (C2C)**



### **In-Depth Partnerships** ~3 years

Multi-year partnership made up of teams (local governments, community-based organizations, and electric utilities) that work alongside national laboratory staff to apply robust modeling and analysis tools and conduct hardware-in-the-loop testing of solutions to evaluate potential scenarios and strategies before full technology deployment.

Supports six communities currently. The request for proposals (RFP) likely to open April 2025.



### **Peer-Learning Cohorts** ~6 months

Multi-community engagements that convene regularly for approximately 6 months to exchange strategies and best practices, learn in a collaborative environment, and workshop plans and strategies to overcome challenges around a common clean energy transition topic. Eligibility varies by cohort topic.

Can support about 100 communities per year. The application period for the next round of cohorts is open until April 30.

## Expert Match ~3 months

Short-term, no-cost technical assistance for communities seeking to answer near-term clean energy questions. Eligible entities include local governments, utilities, community-based organizations, schools, and nonprofits. *Can support about 200 communities per year.* **Applications are accepted all year on a rolling basis**.



www.nrel.gov/c2c

## **SOLAR ENERGY INNOVATION NETWORK (SEIN)**

SEIN is a collaborative program that brings together diverse teams of stakeholders to research solutions on solar energy adoption, laying the groundwork for implementation and replication of these solutions.

#### What opportunities are available?

- Across 15 months, teams receive financial support, and technical assistance from national labs for development of innovative solutions regarding access to solar energy.
- All teams meet together for several multi-day work sessions to provide peer networking and to share insights, research, and ideas.

#### Who is eligible?

Project teams may include entities such as state and local governments, community-based organizations, electric utilities, companies, nonprofits, and universities.



#### How to apply?

Round 4 launch anticipated for 2025. See SEIN website for more details.



### **ENVIRONMENTAL JUSTICE THRIVING COMMUNITIES TECHNICAL ASSISTANCE CENTER (EJ TCTAC)**

The EJ TCTAC supports communities, particularly those adversely and disproportionately affected by environmental, climate, and human health harms and risks, to identify, access, and deploy resources to create transformative change for communities and individuals.

This organization is creating a Thriving Communities Network that connects and supports the local and regional leaders who are advancing environmental justice in communities across the country.

EJ TCTACs are now accepting technical assistance requests. Learn more and apply: <u>www.epa.gov/environmentaljustice/environmental-</u> justice-thriving-communities-technical-assistancecenters



# **EJ TCTAC**

Environmental Justice Thriving Communities Technical Assistance Centers Program

U.S. Environmental Protection Agency in partnership with the Department of Energy



## **CLEAN CITIES AND COMMUNITIES**

- The mission of Clean Cities and Communities is to foster the economic, environmental, and energy security of the United States by working locally to advance affordable, domestic transportation fuels and technologies.
- Serve as essential connection between national and local interests in sustainable transportation
  - From national to local: tools, resources, information, funding opportunity
  - From local to national: feedback on what technologies are/aren't working (research ideas), need for new tools and information
- Ability to serve a broad range of stakeholders with solutions that are locally responsive, drawing on national expertise.
- 2023 marked 30 years of Clean Cities and Communities.

Office of Energy Efficiency & Renewable Energy



## ENERGY COMMUNITIES INTERAGENCY WORKING GROUP (IWG)

The goal of the Interagency Working Group is to steer funding and resources towards energy communities, and to help rebuild/diversify their local economies.

#### What opportunities are available?

Federal funding, tax credits, and technical assistance

#### Who is eligible?

Eligibility is based on each funding opportunity, but generally prioritized for organizations in energy communities.

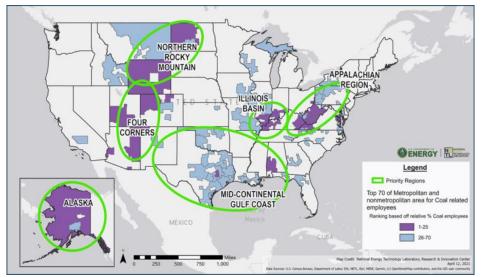
#### How to apply?

- Deadlines dependent on funding opportunity.
- Apply directly via portal on opportunity page through the IWG Funding Clearing House landing.



#### **Energy communities:**

Areas that have a high concentration of coal-dependent economic opportunities





## **DIY RESOURCE ASSISTANCE EXAMPLES**



#### System Advisor Model (SAM)

Goal: Investigate technical, economic, and financial feasibility of renewable energy projects

Website: <u>Welcome -</u> System Advisor Model -<u>SAM</u>



Renewable Energy Optimization (REOpt)

**Goal:** Evaluate how specific renewable energy technologies can be integrated into energy systems

Website: <u>REopt Web Tool</u> <u>| REopt Energy Integration</u> <u>& Optimization</u>



#### Local Infrastructure Hub

**Goal:** Guide local municipalities toward federal infrastructure funding opportunities

Website: Local Infrastructure Hub



## **SYSTEM ADVISOR MODEL (SAM)**

The System Advisor Model (SAM) is a free software for detailed performance and financial analysis for renewable energy systems.

SAM investigates technical, economic, and financial feasibility of renewable energy projects.

Training and online tutorials available at www.nrel.gov/reopt.

Sponsored by the National Renewable Energy Laboratory.



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### **RENEWABLE ENERGY OPTIMIZATION (REOPT)**

The Renewable Energy Optimization (REOpt) is a free webtool that evaluates how specific renewable energy technologies can be integrated into energy systems.

REOpt considers tradeoffs between ownership costs/savings across different value streams to identify the optimal system functions. It can also model energy outages and outline methods for energy resilience.

Tutorial videos available at www.nrel.gov/reopt.

Sponsored by the National Renewable Energy Laboratory.





## **LOCAL INFRASTRUCTURE HUB**

- The goal of the Local Infrastructure Hub is to connect cities and towns with the resources and expert advice they need to access federal infrastructure funding.
- Program partners help guide municipalities towards creating successive applications for federal grants.
- Provides federal grant repository and bootcamps (opportunities to help applicants with the federal funding process)

### **Local Infrastructure Hub**





This site is live and continuously updated with current open funding opportunities, many of which are applicable outside of coal communities



Interagency Working Group on **Coal & Power Plant Communities** & Economic Revitalization

# 12-Agency IWG effort led by DOE Advisor since 2021

Executive Order 14008 established the Interagency Working Group (IWG) on Coal and Power Plant Communities and Economic Revitalization (Energy Communities IWG).

The initiative is administered by the U.S. Secretary of Energy and co-chaired by the Director of the National Economic Council, the National Climate Advisor, and the Senior Advisor to the President for Clean Energy Innovation and Implementation.



Policy Council







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Services

the Treasury the Interior









U.S. Department of





U.S. Department of

Education



U.S. Environmental Appalachian Regiona Brian Anderson, Ph.D.

Executive Director, The Interagency Working Group on Coal and Power Plant Communities and

Economic Revitalization

Senior Advisor on Energy Communities, U.S. Department of Energy

#### ✓ Read More energycommunities.gov/funding-opportunities

#### **Competitive Funding**

Competitive funding is available to eligible recipients who submit an application for a funding opportunity. Each application is reviewed through a competitive evaluation process and awardees are selected based on the merits of their application and alignment with the agency's mission.

SEE COMPETITIVE FUNDING

#### Formula Funding

Formula funding is when the federal government allocates funds to a state agency or tribal entity which then has authority to re-allocate or award them to eligible groups and uses.

#### SEE FORMULA FUNDING

#### Tax Credits

Tax credits reduce the amount of income tax a taxpayer owes to the federal government. The Inflation Reduction Act created new tax credits and modified existing tax credits to help incentivize clean energy technologies and to be a vehicle for fostering economic opportunities, private investment, and job creation in energy communities. Several IRA tax credits also provide a bonus for energy communities

SEE TAX CREDITS

#### Funding Clearinghouse

The IWG maintains an online clearinghouse of federal funding relevant to coal, oil and gas, and power plant communities across the country. The clearinghouse allows potential applicants to browse open and planned funding opportunities on one easy-to-navigate webpage

EXPLORE CLEARINGHOUSE

45

U.S. Department of U.S. Department of Labor Health and Human

Transportation

U.S. Department of

Protection Agency

Commission

# Thanks!





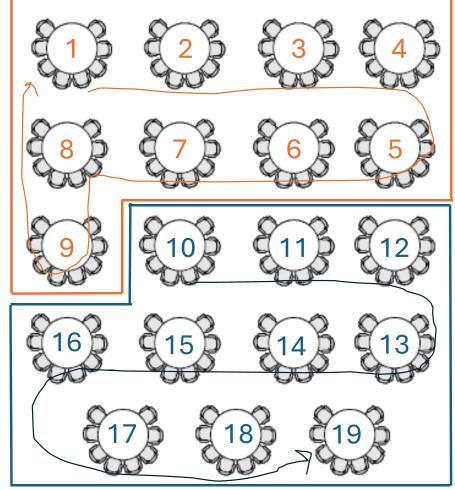
# Panel: Community-Based Initiatives

- Chris Castro, Senior Advisor, Office of Energy Efficiency & Renewable Energy, U.S. DOE
- Summer Sandoval, Environmental Justice Federal Funding Lead, Urban Sustainability Directors Network (USDN)
- Katherine Gajewski, Partner, City Scale
- Gregory Dierkers, Director of Stakeholder Engagement, Office of Clean Energy Deployment, U.S. DOE
- Ben Vickery, Group Manager of Network Knowledge Management, Manufacturing Extension Partnership, NIST
- Leanne Kaplan, Senior Partnerships and Program Manager, Communities First
- Moderators: Lupe Villatoro, Senior Advisor, Integrated Strategies Office, Office of Energy Efficiency and Renewable Energy, and Diane Bauer, Deputy Director, Advanced Materials and Manufacturing Technologies Office, U.S. DOE

# **Speed Networking**

- Experts stationed at tables around room with dots on their nametags.
- Start at any table in your section and move to next table every 6 minutes:
  - Manufacturing Teams: tables 1-9
  - Clean Energy Teams: tables 10-19
  - Other guests: Wherever you'd like
- Quick introductions:
  - Teams/audience: Broadly, what is your organization seeking to achieve?
  - Experts: Broadly, what are you aware of that can facilitate the team's vision?

#### Manufacturing Ecosystem Track (Technology Development/Deployment Programs)



Clean Energy Ecosystem Track (Community-Based Programs)

# Roundtables

### Structure:

- Goal is to promote organic conversations centered around discussion prompts.
- You may use the provided themes and questions as prompts but no hard rules – meant to be flexible.
- Consider splitting up from your team/colleagues to meet others.
- Notetakers will jot down anonymized takeaways and facilitate as needed.

### Themes:

- Workforce
- Resilience
- Weatherization
- Capacity-building
- Technology Innovation
- Manufacturing
- Open/General

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MADE

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Filter by technology, stage, resource type
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