Community Energy Innovation Summit

Collegiate Track Pitches and Ecosystem Tracks Workshops

🗂 June 25, 2024

Washington, DC







Lynn Abramson

President

Clean Energy Business Network



Access the Summit Program

Get details on:

- Today's Agenda
- The CEI Prize
- Collegiate Track teams
- Ecosystem Track teams
- American Made program





Thank you to our sponsors!



Good for the Economy.

Good for the Environment.









Agenda

- 9:30 a.m. ET Welcome Remarks
- 10:00 a.m. ET Pitch Presentations (Collegiate Track Teams)
- 12:15 p.m. ET Networking Lunch
- 1:15 p.m. ET Federal Funding for Community-Based Clean Energy Initiatives
- 3:15 p.m. ET Participant Roundtables
- 4:45 p.m. ET Awards Ceremony (Collegiate Track Teams)



Notice of Video and Photography

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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.

The Community Energy Innovation Prize

DOE's American-Made Challenges





EERE has run 65+ prize programs across four main categories since 2018, awarding over \$200 million









- 26 Competitions are running now
- 7 Prizes are currently open for applications









\$400M

in cash prizes and support



75+
prizes



What is the Community Energy Innovation Prize?

- \$7.49 million in cash prizes
- Successor of the <u>Community Clean Energy</u>
 <u>Coalition Prize</u> and the <u>Inclusive Energy</u>
 Innovation Prize
- Support capacity building, innovation, entrepreneurship, and economic development disadvantaged communities in:
 - Academic Programs
 - Workforce Development
 - Clean Energy Technology
 - Clean Energy Manufacturing

Pathways to a Clean Energy Future

- The Community Energy Innovation Prize aims to fund organizations for ongoing and/or proposed activities related to climate and clean energy that support, build trust, and strengthen relationships and partnerships with disadvantaged communities.
- The prize directly supports the Justice 40 Initiative, which directs 40% of the overall benefits of certain federal investments to flow to disadvantaged communities, including:
 - Clean energy and energy efficiency
 - Clean transit
 - Affordable and sustainable housing
 - Training and workforce development
 - The remediation and reduction of legacy pollution
 - The development of clean water infrastructure

Who is behind the Community Energy Innovation Prize?











- The Community Energy Innovation Prize was established by:
 - The <u>U.S. Department of Energy's</u> (DOE's) <u>Office of Energy Efficiency and Renewable Energy (EERE)</u>
 - Office of Economic Impact and Diversity (ED)
 - EERE's <u>Advanced Materials and Manufacturing</u> <u>Technologies Office (AMMTO)</u>.
- The prize is part of the <u>American-Made</u>
 <u>Challenges</u> family of prizes
- Administered by the <u>National Renewable Energy</u> <u>Laboratory (NREL)</u>.

Community Energy Innovation Prize Tracks

Clean Energy Ecosystem Track

Support communities and organizations who have been historically underserved in advancing community-based clean energy transition programs from a wide range of clean energy initiatives and technologies.

Manufacturing Ecosystem Track

Support communities and organizations that have been historically underserved and further the development of clean energy manufacturing innovation ecosystems.

Collegiate Track

Inspire and support the next generation of climate leaders to make an impact in their communities and support community-based clean energy transition programs.

Introducing the Power Connectors

Free Resources for CEI Teams





Policy Support



Market & Technology Education



Business Development Assistance



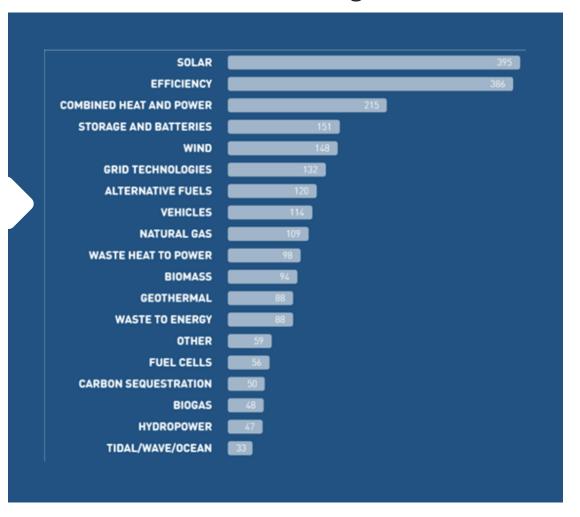


Our Reach

8,000+ small business and community leaders across the United States



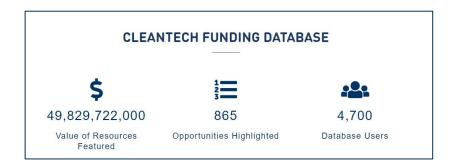
Diverse technologies





Resources to Help You Navigate Policy and Funding

- U.S. Cleantech Funding Database
- Ecosystem Resource List
- Weekly Newsletter & Monthly Email Digests
- Blog Series
 - Inflation Reduction Act
 - Bipartisan Infrastructure Law
 - Other Federal Programs
 - Latest: <u>Insight into the Greenhouse Gas</u>
 Reduction Fund











Recruiting

ADL was involved in the recruitment and applicant support of Manufacturing and Clean Energy Ecosystem Track teams for the CONCEPT Phase of the CEI Prize

Team Support

ADL has Collegiate Track teams throughout PROGRESS and IMPACT Phases.

We have supported 5 Clean
Energy Ecosystem Track teams
through the PROGRESS Phase
and will continue through the
IMPACT Phase

Event Support

ADL has collaborated with Power Connectors *yet2* and CEBN for Peer Exchange and Pitch Practice Events

ADL is planning Peer Exchange and Learning Module events for Clean Energy Track teams in the IMPACT Phase



Contact: eduardo@adlventures.com; ceip@adlventures.com;



yet2's Global Team of Open Innovation & Technology Scouting Consultants



Our **mission** is to harness Open Innovation to facilitate collaboration and bring innovation to market.

Backed by 25 years of experience in technology scouting, IP, business development, and ventures, with Science & Engineering PhD-led delivery teams spanning the technology spectrum.

yet2 has supported 10+ American Made Prize Challenges by harnessing our network and scouting expertise to encourage participation from teams outside of NREL's network.

yet2 continues supporting CEI Prize through:

- Regular mentoring sessions with Phase 1 Winners
- Prize submission review and feedback
- Peer-Exchange Sessions Idea Exchange Roundtable





- Entrepreneur Futures Network is a national non-profit dedicated to empowering communities and innovators.
 We provide training, advice, and funding development programs powered by 20 years of experience and our network in every state. Learn more at entrepreneurfutures.org.
- As a Power Connector for the Community Energy Innovation Prize, we provided outreach, info sessions, and office hours to potential teams in the Concept Phase, guided the Collegiate Track through the Progress Phase, and are currently supporting the Manufacturing Ecosystem Track in the Progress and Impact Phases. We are hosting individual office hours with several options weekly and 2 peer exchange sessions in each phase. We are advising teams on their projects, giving feedback, making referrals to experts, potential partners and collaborators, and sharing leads on new funding opportunities.
- Questions? Reach out to our Engagement Director, Cassie Coravos at ccoravos@entrepreneurfutures.org

Acknowledgements It Takes a Community! American Made Challenge | Community Energy Innovation Prize

Introducing our Speakers

Sarah Mason

Deputy Executive Director
Clean Energy for America
Education Fund



Jeff Marootian

Principal Deputy Assistant Secretary
Office of Energy Efficiency and
Renewable Energy (EERE),
U.S. Department of Energy





Georgia Tech Zero Energy Collaborations

Atlanta, GA

Georgia Tech Zero Energy Collaborations

(a.k.a. Solar Decathlon at Georgia Tech)

Department of Energy Community Energy Innovation Prize Jackie Zong and Frank Wickstead June 25th, 2024





Jackie Zong GTZEC Team Lead



Frank Wickstead GTZEC Faculty Advisor





Shannon Goodman

Executive Director,

Lifecycle Building Center

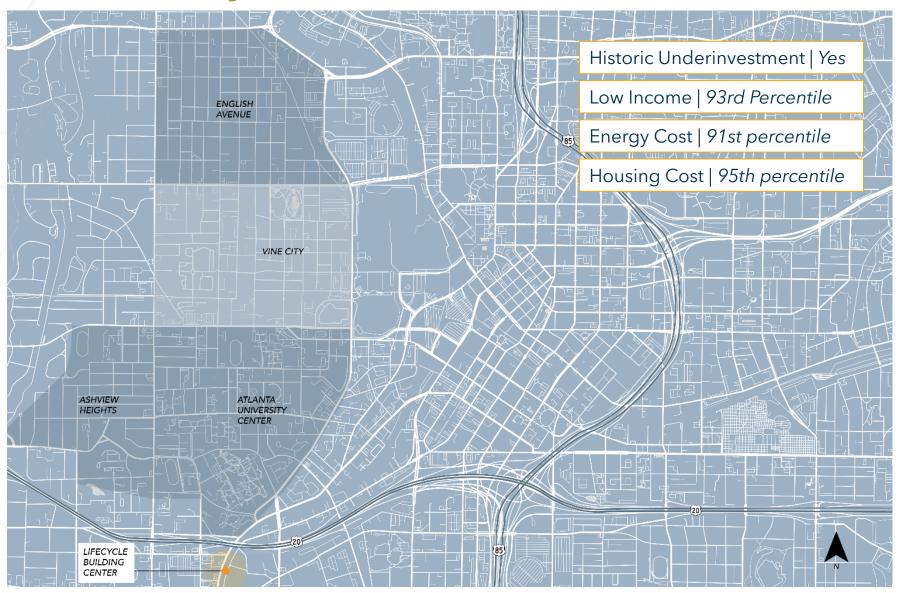


Lee Harrop
VP of Real Estate Development,
Westside Future Fund





Community Partners









What Prize Support Means to the Project



Club formation & meeting expenses

Development of Club social media, website & content to attract sponsorship



What Prize Support Means to the Project

1st place in SD Residential Division

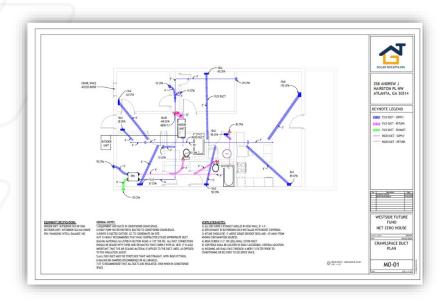




Team expenses traveling to Golden, Colorado



What Prize Support Means to the Project



Professional engineering, architecture expenses & permitting expenses

Close the gap between a to-code home & our Solar Decathlon home





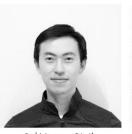
Goal 1 | Academic Program



Registered Student Organization



Faculty Advisor, Professor of the Practice, Licensed GC **Frank Wickstead**



3rd Year - Civil Engineering **Jackie Zong**



3rd Year - Civil Engineering **Arya Desai**



3rd Year - Building Construction **Charles Morris**



Masters -Architecture **Rachel Witherspoon**



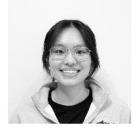
Masters - Building Construction **Aidan Risey**



4th Year -Architecture Yona (Yuhan) Wang



Masters - Business Administration and Environmental Engineering **Wyatt Williams**



3rd Year -Architecture **Julie Chen**



4th Year -Architecture **Anushka Kibria**



1st Year -Architecture **Kiki (Jingqi) Ruan**



4th Year - Building Construction **Nader Osman**



3rd Year - Building Construction **Joel Jimenez**



1st Year - Building Construction **Mahlon Sale**



3rd Year - Building Construction Carlos Hernandez



PhD - Civil Engineering **Arjun Thangaraj Ramshankar**



Community Engagement

Community outreach & project PR events

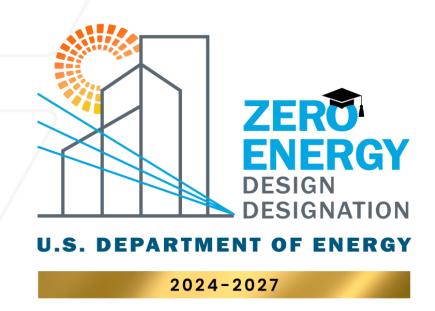




Workshops with community partners



Zero Energy in the Classroom



- Anticipated DOE ZEDD for Georgia Tech's School of Building Construction for the 2024-2027 designation phase
- Designation associated with BC6675, Residential Design & Construction
- The course also aligns with 13 of the 17 United Nations Sustainable Development Goals
- An independent study course that offers 3 elective credit hours for student's annual Solar Decathlon efforts



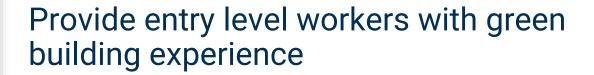
Goal 2 | Workforce Development



Workforce Development



Serve as a training site for Lifecycle Building Center's *Breaking Barrier through Deconstruction* Program





Workforce Development



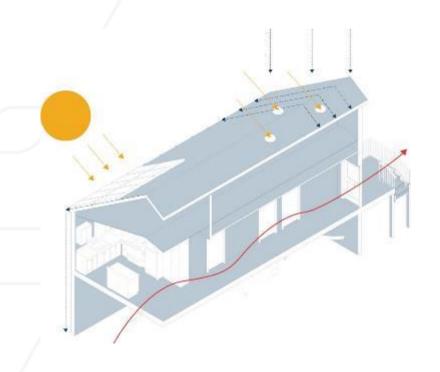
Subcontract with and purchase from:

- 1. Local to the neighborhood businesses
- 2. Minority owned businesses
- 3. Woman owned businesses



Goal 3 | Clean Energy Technology

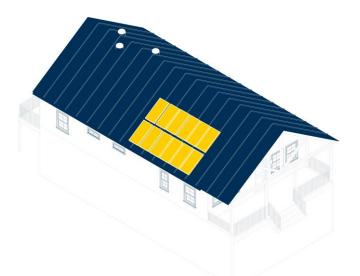




Passive Design and Tight Envelope



Efficient MEP
Equipment & Appliances



Rooftop Solar System

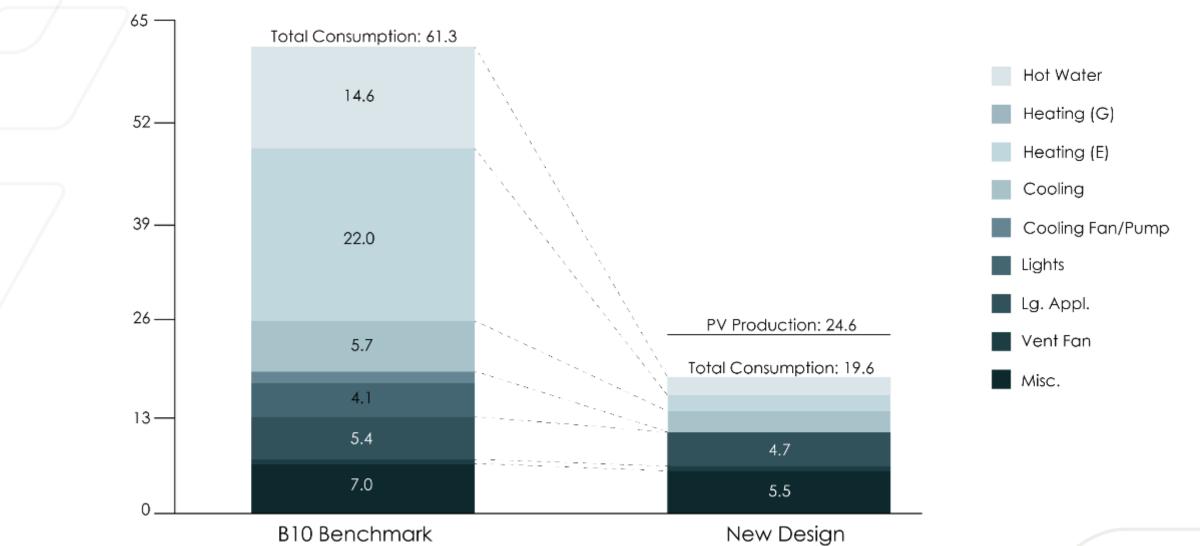


National Renewable Energy Laboratory 15013 Denver West Parkway Golden, CO 80401 www.nrel.gov

≅NREL



Site Energy Use (MBtu/yr) - B10 Benchmark vs. New Design





Replicability

Maintain Neighborhood Character

Land Use Framework Plan

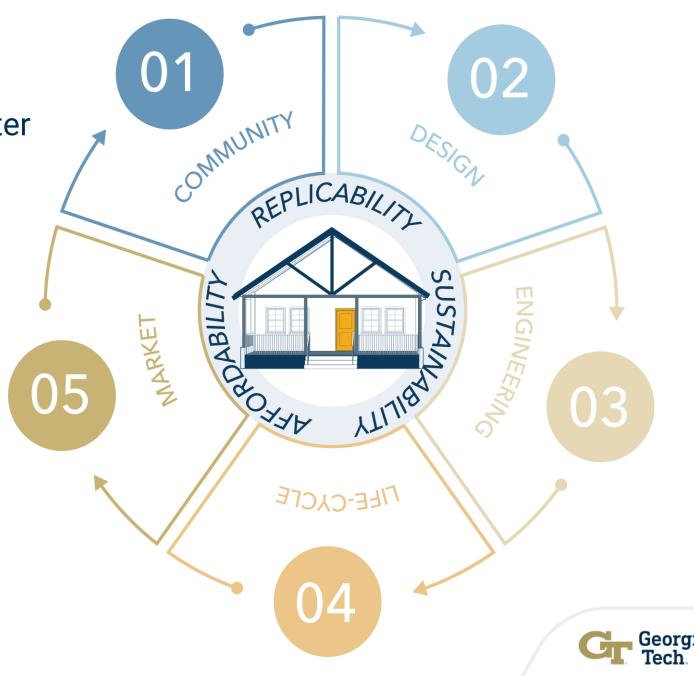
Local Reuse Centers

Sustainability

- Low Embodied Carbon
- Envelope Efficiency
- Net Zero with PV

Affordability

- Reclaimed Materials
- Energy Savings
- Downpayment Assistance





Project Timeline





Project Timeline





Partnerships































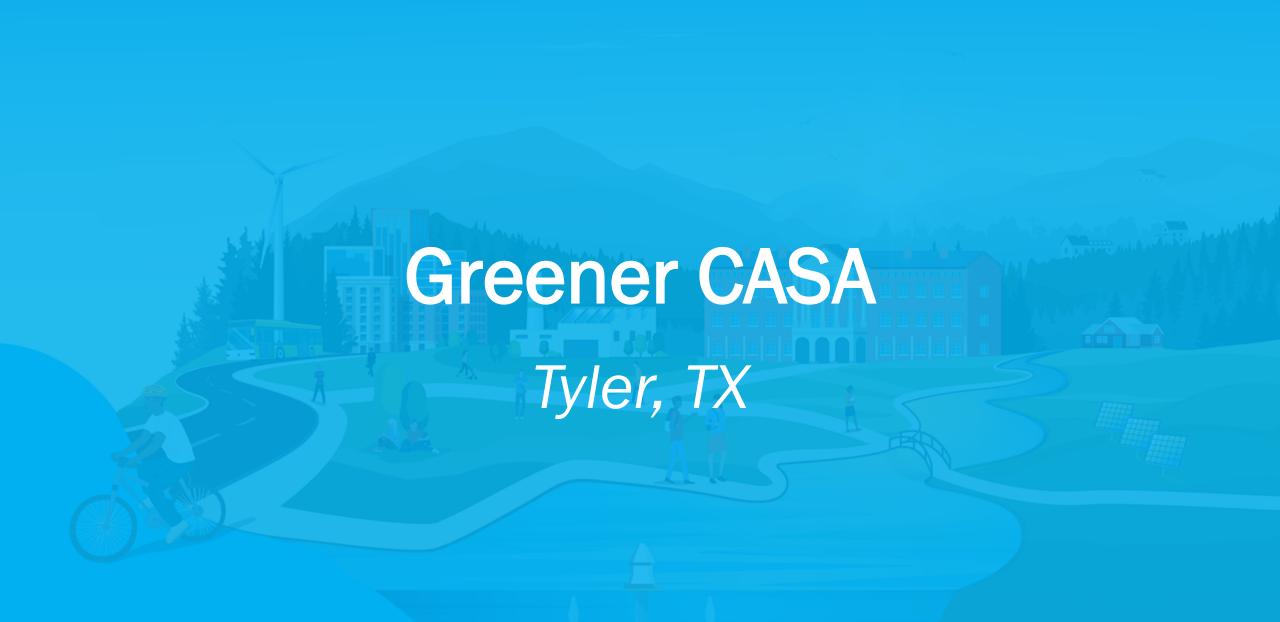


Current Project – 258 Andrew J Hairston













COMMUNITY ADVANCED SAVING ALTERNATIVES

PRESENTED BY NELSON FUMO & LORENA REBAGLIATI



AGENDA

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- 02 DEMOGRAPHICS OF THE AREA SERVED
- 03 COMMUNITY CHALLENGES
- 04 ENGAGING WITH THE COMMUNITY
- 05 MEDIA OUTREACH
- **06** ENERGY AUDITS
- 07 METRICS
- 08 KEY LEARNINGS
- 69 FUTURE PRIORITIES & STEPS
- **10** TESTIMONIALS





An academia-community partnership to bring free energy audits to disadvantaged communities to promote energy efficiency.

COLLEGIATE PARTNER



COMMUNITY PARTNER



Monarca Initiative empowers immigrants and disadvantaged individuals to transform their lives through economic, educational, and social opportunities, fostering financial stability and personal growth.





DEMOGRAPHICS OF THE AREA SERVED



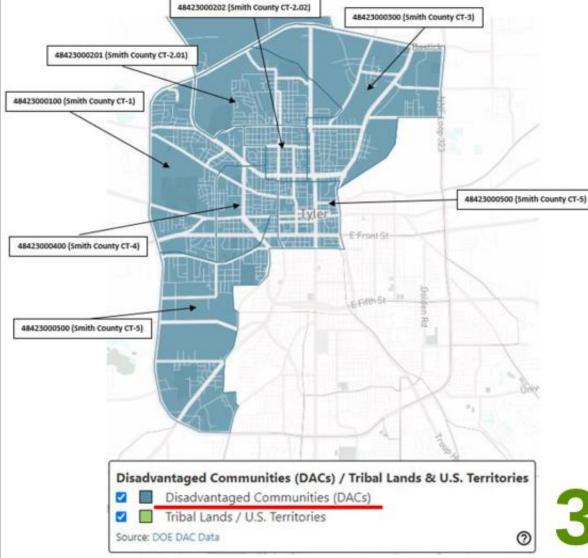
AREA SERVED: TYLER, TEXAS

DEMOGRAPHIC HIGHLIGHTS:

- TRACTS POPULATION: 29,250
- HISPANIC POPULATION: 12,900 (44%)
- HISPANIC POPULATION BELOW POVERTY LINE: 5,380 (18%)

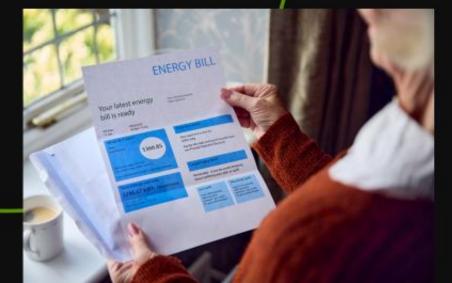


Area Served: Tyler, Texas





- HIGH ENERGY BILLS
- DETERIORATED ENVELOPE
- OUTDATED HVAC SYSTEMS
- LACK OF ENERGY EFFICIENCY AWARENESS
- LANGUAGE BARRIER





COMMUNITY CHALLENGES

ENGAGING WITH THE COMMUNITY



 HOSTED WORKSHOP AND MINI-WORKSHOPS ON ENERGY EFFICIENCY AND CONSERVATION

SURVEYS:

 CONDUCTED TO GATHER INPUT ON ENERGY CHALLENGES AND COMMUNITY NEEDS







GREENER CASA TEAM

NELSON FUMO, PEDRO MONTANO, RAFAEL REYES, JOSEFINA VAZQUEZ AND LORENA REBAGLIATI



ENGAGING WITH THE COMMUNITY &

COLLABORATION WITH COMMUNITY BUSINESS

BAAZAR 69 (HISPANIC MARKET)



PARTICIPANTS WORKED ON UNDERSTANDING AND ANALYZING THEIR ELECTRIC BILLS. Professor Dr. Fumo assisting participants.



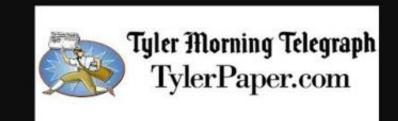
MEDIA OUTREACH



- MEDIA OUTLETS HAVE PLAYED A CRUCIAL ROLE IN RAISING AWARENESS ABOUT OUR ENERGY-SAVING INITIATIVES.
- COLLABORATIONS WITH LOCAL RADIO STATIONS, NEWSPAPERS, AND TV CHANNELS TO PROMOTE WORKSHOPS AND PROGRAM

KEY CONTRIBUTIONS









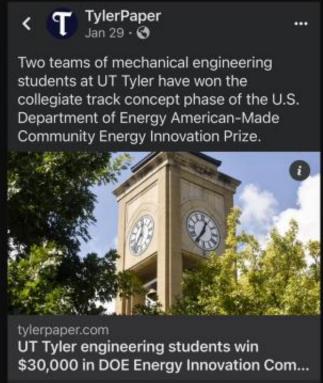
KEY CONTRIBUTIONS MEDIA OUTREACH



CBS 19 - UNIDOS LOCAL TV STATION



TYLER MORNING TELEGRAPH ONLINE LOCAL PAPER



LA INVASORA LOCAL RADIO STATION



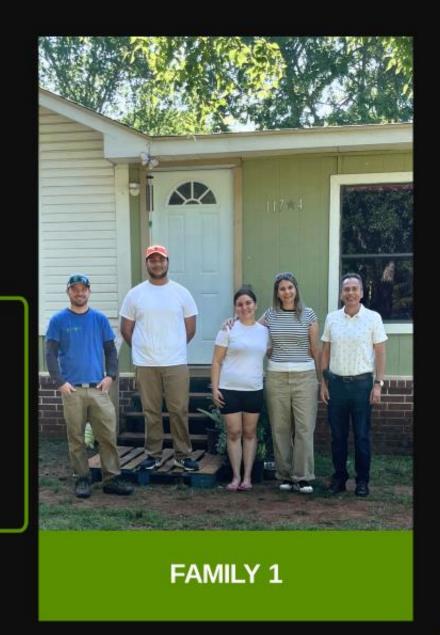
ENERGY AUDITS 6





ANALYZING UTILITY BILLS HELPS TO IDENTIFY potential energy savings and offers recommendations on appropriate electricity providers.





ENERGY AUDITS 6





THE BLOWER DOOR TEST HELPS TO IDENTIFY the magnitude and location of air infiltrations to pinpoint critical envelope spots.





FAMILY 2

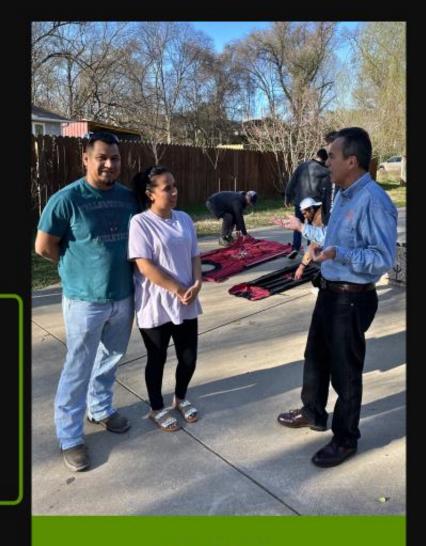
ENERGY AUDITS 6





THERMAL IMAGING HELPS TO IDENTIFY envelope weaknesses and guide the team on potential low-cost actions like caulking.





FAMILY 3



METRICS

COMMUNITY OUTREACH

96%

COMMUNITY OUTREACH GOAL: 50 PARTICIPANTS

ACHIEVED: 46 PARTICIPANTS

- 17 Participants through a workshop
- 6 Participants through one-on-one mini-workshops
- 23 Participants through activities offered by Monarca Initiative (such as case management and classes)

1 WORKSHOP PLANNED FOR FALL 2024





METRICS

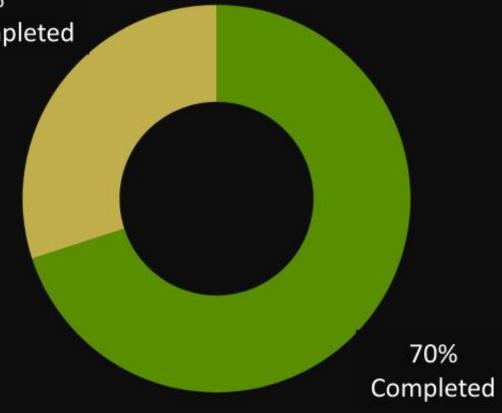
30% To be completed

HOME ENERGY AUDITS GOAL: 10

- 7 HOME AUDITS CONDUCTED
- 3 HOME AUDITS PLANNED FOR SUMMER

Energy Kits





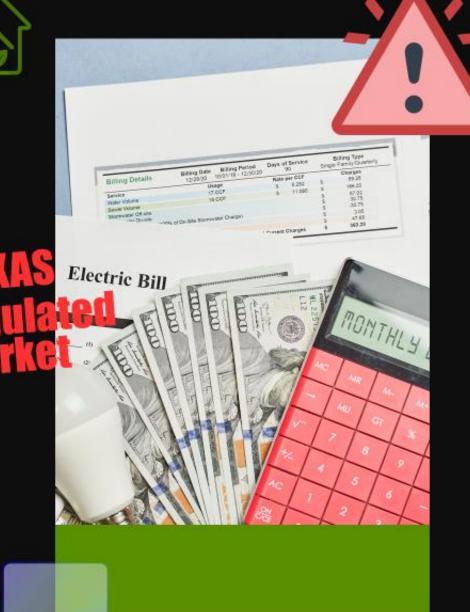
KEY LEARNINGS FROM CONCEPT PHASE & PROGRESS PHASE

LACK OF INFORMATION ON ENERGY PLANS:

 DIFFICULTY IN CHOOSING THE MOST COST-EFFECTIVE RETAIL ELECTRIC PROVIDER AND PLAN.

LACK OF UNDERSTANDING OF THE ENVELOPE:

 DIFFICULTY IN UNDERSTANDING THE IMPLICATIONS OF THE ENVELOPE ON THERMAL LOADS.



KEY LEARNINGS FROM CONCEPT PHASE & PROGRESS PHASE

LACK OF AWARENESS:

 MANY COMMUNITY MEMBERS ARE UNAWARE OF BASIC ENERGY-SAVING PRACTICES.



LACK OF UNDERSTANDING OF A/C:

 LIMITED KNOWLEDGE ON HOW TO OPERATE A/C UNITS EFFICIENTLY WITH IMPROPER THERMOSTAT SETTINGS AND INFREQUENT FILTER CHANGES.





FUTURE PRIORITIES & NEXT STEPS

When families are subscribed to inappropriate plans, it imposes an additional economic burden. Changing the plan, however, incurs a cancellation fee of \$150 or more.

A new priority is to help cover the

cancellation FEE



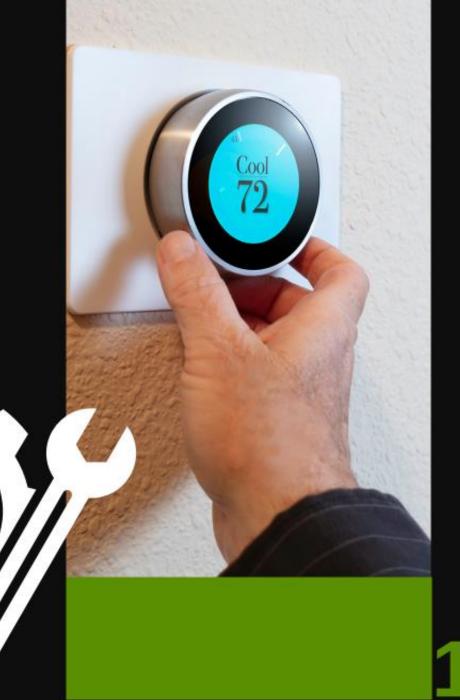


FUTURE PRIORITIES & NEXT STEPS

From energy audits learnings, the team will:

• INSTALL AND TEACH HOMEOWNERS TO USE SMART THERMOSTATS, WHICH EFFECTIVELY REDUCE ENERGY CONSUMPTION.

ARRANGE FREE A/C TUNE-UP SERVICE
 FOR HOMES BASED ON AUDIT
 RECOMMENDATIONS.







"El taller y la auditoría ha sido de mucha ayuda porque estábamos pagando mucho por que no tener el plan correcto y **Geener CASA** nos ayudaron a encontrar el mejor plan para nuestra casa! También detectaron si había fugas de aire acondicionado como grietas en ventanas etc. Nos proporcionaron nuevos focos de luz y taparon todos los lados que se nos escapaba el aire acondicionado. Muchas gracias al profesor Nelson, los muchachos y a Monarca por su labor y trabajo!"



AUDIT & WORKSHOP Participant

TESTIMONIAL 1



"The workshop and audit were very helpful. We were overpaying due to the wrong plan, and Greener CASA helped us find the best one for us. They also found air conditioning leaks, provided new light bulbs, and sealed all the gaps. Thanks to Professor Nelson, the students, and Monarca for their hard work!"

TESTIMONIAL 2

"Gracias por explicar cómo elegir el mejor plan eléctrico. Su orientación ha sido muy importante y ha marcado una gran diferencia en mi factura de electricidad. Aprecio mucho su ayuda y dedicación. ¡Gracias!



AUDIT & WORKSHOP Participant

"Thank you for explaining how to choose the best electricity plan. Your guidance has been very important and has made a big difference in my electricity bill. I greatly appreciate your help and dedication. Thank you!"





"El programa del profesor Nelson, sus alumnos y Monarca me pareció estupendo y muy interesante. Me gustó mucho los consejos que me dieron de como mantener mi hogar fresco sin gastar mucho y de cómo elegir un buen plan de electricidad. Al seguir sus consejos he visto resultados en mi factura de electricidad muchas gracias por su ayuda y su tiempo."

AUDIT & MINI-WORKSHOP Participant

TESTIMONIAL 3



"The Greener CASA program with Professor Nelson, his students and Monarca, was fantastic and very interesting. I appreciated the tips on keeping my home cool and choosing a good electricity plan.

Following their advice has improved my electricity bill. Thank you for your help and your time."











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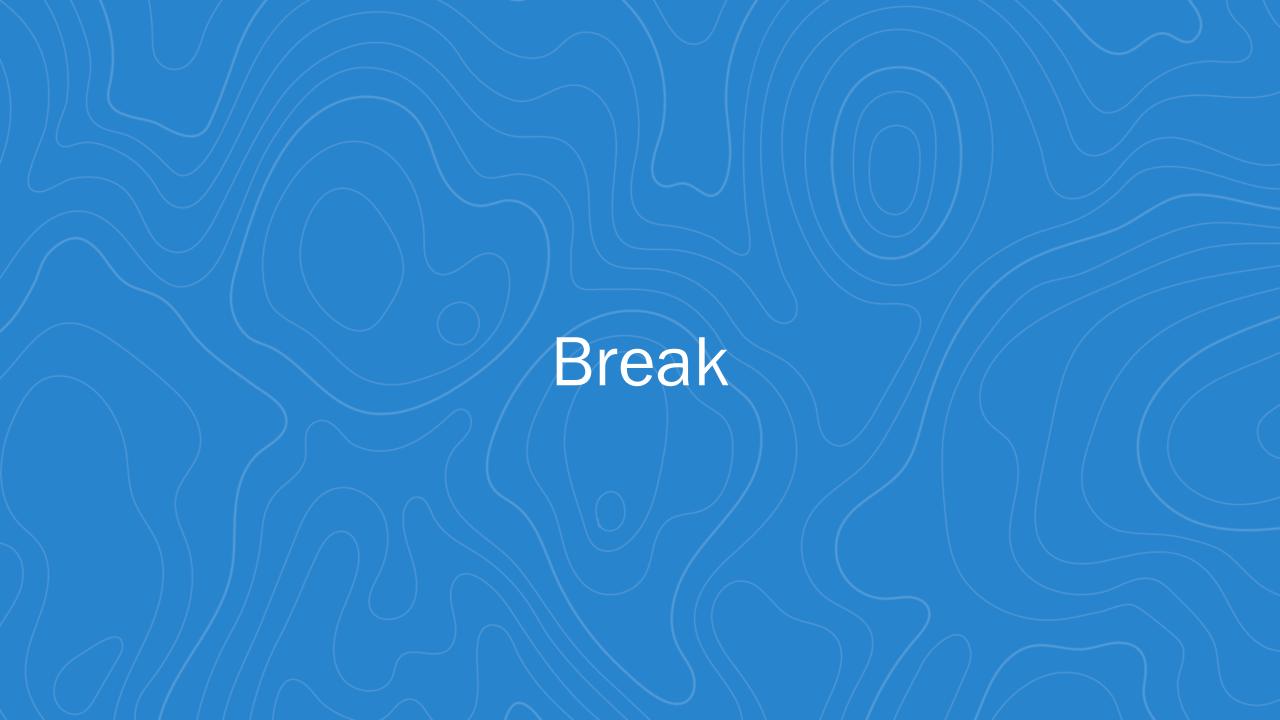


NFUMO@UTTYLER.EDU



iGRACIAS!

QUESTIONS?









Community Energy Innovation Prize

GreenSynergy – Community Energy Innovation Prize (Solar Power Charging stations at Houston Community College)



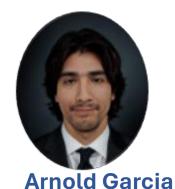
Oswaldo Garcia (Captain)



Peter De Vries (Co-Captain)



Muhammad Khan (Team Member)



(Team member)

Dept. of Mechanical Engineering, University of Texas at Tyler, HEC;



Outline

- Introduction
- Community Partner
- Project Implementation
- Prototype
- Community Engagement
- Testimonials from Community Members
- Project Outcomes
- Challenges Faced
- Professional Skill Development
- Ongoing and Future Plans
- Key Takeaways
- Questions
- Thank you

Introduction

Project Overview:

➤ The GreenSynergy team is developing a solar power charging station at Houston Community College (HCC) for the Community Energy Innovation Prize.

> This initiative focuses on enhancing clean energy access and promoting renewable energy education among

underserved students.

Significance:

- ➤ The project addresses awareness of renewable energy to disadvantaged communities at HCC.
- ➤ It provides practical learning opportunities and encourages the adoption of sustainable practices for STEM students



Figure 1. Rendering of a Solar charging station



Community Partner

Houston Community College (HCC):

- ➤ **HCC Mission**: The College District will equitably deliver relevant, high-quality education and training, ensuring success for all students.
- ➤ Why HCC: To enhance STEM education and promote renewable energy technology to disadvantaged students. The project provides hands-on experience relevant to the renewable industry for all the team members.
- ➤ Collaboration: HCC worked with the GreenSynergy team to engage the student community, gather feedback, and tailor the project to meet needs. Provided access to labs, workshops, and tools across Alief and Katy Campus.







Figure 2. The team presenting the project to HCC and UTT faculty



Project Implementation

- ➤ Design and Testing: Development of a solar-tracking and non-tracking system for micro-mobility devices. Creation of a user-friendly interface for remote data access. Involvement of STEM students from HCC in focus groups.
- ➤ Community Awareness: Conducted renewable energy awareness sessions and classroom visits in the spring semester. Posters displayed across the HCC Alief campus.
- ➤ Engineering Week Participation: Demonstrated the working charging station at UT Tyler Houston Engineering Center. Educated the community about renewable energy.
- ➤ Community Feedback: Conducted focus groups to analyze the response of the HCC student community to further improve design of the system.



Figure 3. Team building solar charging station with HCC student interns.



Team-A: Prototype



Figure 4. Team-A solar tracking charging cart

Team-B: Prototype



Figure 5. Team-B solar charging cart



Educational Outreach:

- ➤ HCC facilitated educational outreach and engagement with students through their career fairs and events.
- ➤ HCC engineering leadership hired two HCC summer research interns along with an HCC engineering faculty to acquire knowledge about building and operating the station

Awareness Sessions:

➤ HCC Classroom visits conducted by Dr. Mohammad Biswas and Peter de Vries focusing on clean energy initiatives and their importance.

Surveys and Focus Groups:

➤ Gathered feedback on HCC STEM student interest in renewable energy and refined project approaches based on insights.



Figure 6. Flyer for Engineers week



Awareness Event (Engineers Week):

➤ The prototype was showcased at HCC Engineers Week at the Alief campus.

Student Participation:

> Students received a quick overview of the system as a whole and how it operates. The students then rode the E-scooter.

Demonstration:

➤ Charging station functionality was demonstrated by having the students plug in the E-scooter to charge.



Figure 7. Charging station being displayed at Engineers week





Figure 8. HCC students engaging with the prototype at E-Week.



Figure 9. HCC Interns learning hands-on engineering skills to assist with the build at HCC Katy campus.



Survey Results (85 Responses)

- 88% Were aware of the renewable resources.
- 52% Have participated in STEM programs with a renewable energy component.
- 65% were likely to be interested in Renewables education.

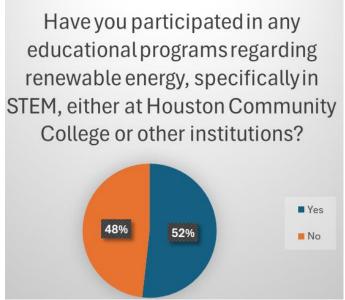


Figure 10. Survey question during E-Week

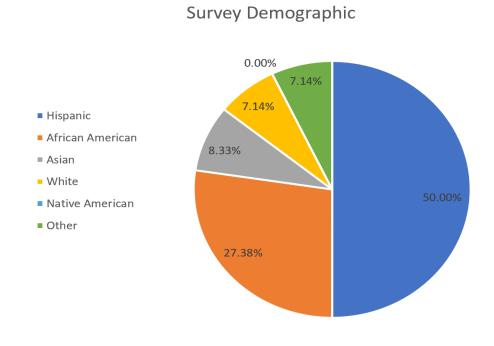


Figure 11. Demographic of the HCC students at the Alief campus during the survey.



Testimonials from Community Members

The impact of our initiatives on the community is tangible, as described by those directly benefiting from our efforts:

Testimonial 1: "The solar charging station is an excellent way to understand how power is produced and delivered to be used. The explanation itself was very educational and conveyed the main features clearly and concisely." – HCC STEM Student

Testimonial 2: "Clear containers/ casing for wiring connections for students to be able to see the connections between components." – HCC STEM student

Their words affirm that our efforts are not only making a difference but are also empowering individuals to embrace sustainable practices for a brighter future."

To what extent does the station enhance students' understanding of science, technology, engineering, and mathematics (STEM) concepts?



Figure 12. Response to how the station enhanced the students understanding of renewable energy.



Project Outcomes

Educational Impact: Students and community members gained practical knowledge about clean energy. Increased interest in STEM fields related to renewable energy.

Environmental Benefits: Promotion of renewable energy and sustainable practices within the community.

Workforce Development: Preparation of students for careers in the renewable energy industry.

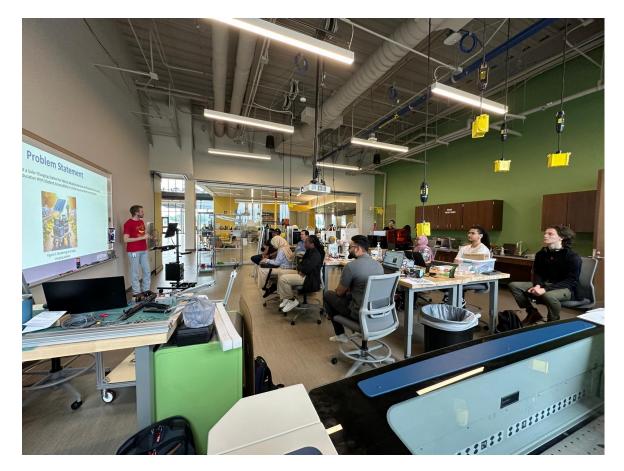


Figure 13. The team engaging with a focus group of HCC STEM students.



Challenges Faced

Scheduling Difficulties: Aligning schedules for focus group meetings and other activities posed logistical challenges.

> **Solution:** Was to use HCC's events and fairs to publicize the project and our mission to educate the students through the prototype. Also allowing a flexible schedule for the focus group to be assembled.

Technical Issues: Initial prototyping faced technical challenges such as equipment malfunctions.

> **Solution:** Troubleshooting sessions with advisors and industry members helped overcome these issues.

Lessons Learned: Importance of flexibility and resilience in project implementation. The Value of external support and expertise in overcoming technical challenges.



Professional Skill Development

This project has significantly influenced the future careers and professional goals of the students involved key impacts on the team members include:

- ➤ Enhanced Technical Skills: Continued focus on developing technical expertise in renewable energy systems.
- ➤ Leadership and Management: Building on leadership and project management experiences gained.
- ➤ Community Engagement: Sustaining and expanding community involvement. Exploring new ways to engage and educate the community.
- ➤ Long-term Benefits: Prepares students for renewable energy careers, enhances job market competitiveness, and supports Texas's growing energy industry.



Figure 14. The team working with HCC STEM student interns on the project.



Ongoing and Future Plans

Deliver Solar Stations: Deliver both completed tracking and non-tracking stations along with operations manuals to HCC Alief campus.

Commitment to Mentorship: Engaging HCC STEM students with UT Tyler HEC students throughout the projects reinforced commitment to mentorship. As most of the team members graduate and advance in their careers, the aim is to mentor future engineers and give back to the HCC community.

Prospective Funding: With more funding these prototypes are easily replicated to be used in multiple courses throughout the STEM programs at HCC. With the HCC community being spread over the Houston area more of these prototypes can be available at all the campuses.



Figure 15. The stations could be put in the commons area when not in use by classes.



Key Takeaways

- •Importance of Engagement: Continuous interaction with the community is crucial for project success.
- •Educational Integration: Aligning project activities with academic curricula enhances learning and innovation.
- •Sustainable Practices: Promoting clean energy solutions has long-term environmental and social benefits.

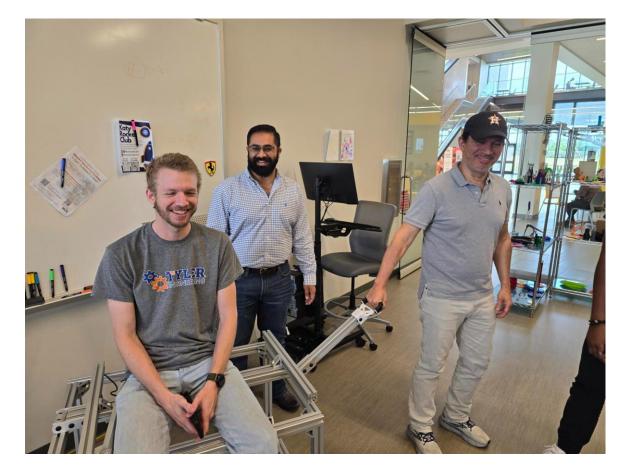


Figure 16. Showing the strength of the frame of HEC-B to students.

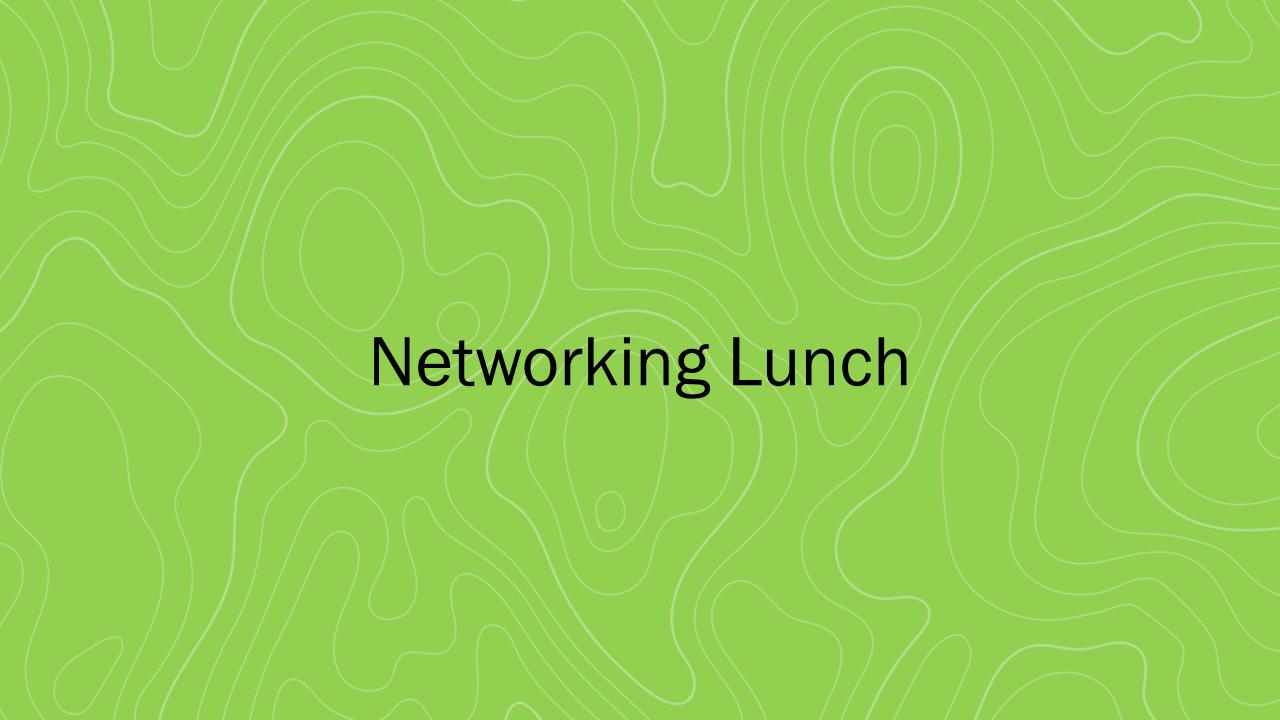


Thank You



Questions?





Thank you to our sponsors!



Good for the Economy.

Good for the Environment.









Download the Summit Program



Community Energy Innovation Summit Collegiate Track Pitches and Ecosystem Tracks Workshops June 25, 2024 | Washington, DC

AMERICAN



- Filter by technology, stage, resource type





Federal Funding for Community-Based Clean Energy Initiatives

Rob Sandoli

Deputy Director
Integrated Strategies Office
U.S. Department of Energy



Resources

Interagency Work Group on Coal and Power Plant Communities (https://energycommunities.gov/)

- Includes sources of funding and technical assistance from across the Federal government
- Many resources a broadly available, not just for coal communities

DOE State and Local Solution Center

(https://www.energy.gov/scep/slsc/about-state-and-local-solution-center)

Targeted resource for local funding and technical assistance, as well as tools and events

World Resources Institute (https://cityrenewables.org/ffold)

- Searchable database of "America's Federal Funding Opportunities and Resources for Decarbonization"
 - Not a U.S. government website



Diana Bauer

Advanced Materials and Manufacturing
Technologies Office (AMMTO)
U.S. Department of Energy





Advanced Materials & Manufacturing Technologies Office (AMMTO)

Federal Funding for Community-Based Clean Energy Initiatives

About AMMTO

Mission

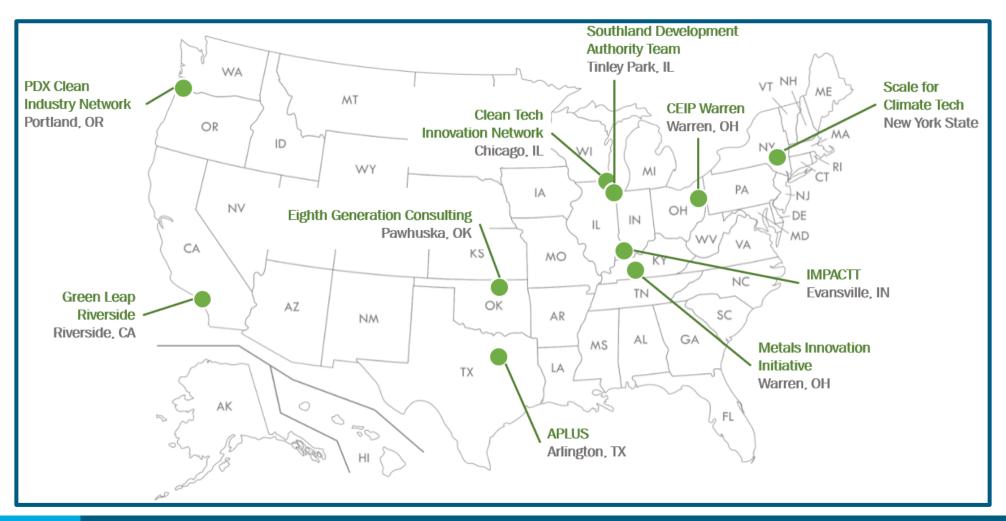
We inspire people and drive innovation to transform materials and manufacturing for America's energy future.

Vision

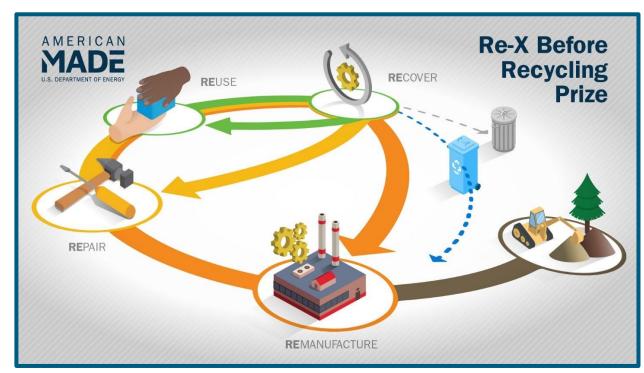
A globally competitive U.S. manufacturing sector that accelerates the adoption of innovative materials and manufacturing technologies in support of a clean, decarbonized economy.

Manufacturing Ecosystem Track (CEI Prize)

Support communities and organizations that have been historically underserved and further the development of clean energy manufacturing innovation ecosystems.



Re-X Before Recycling Prize



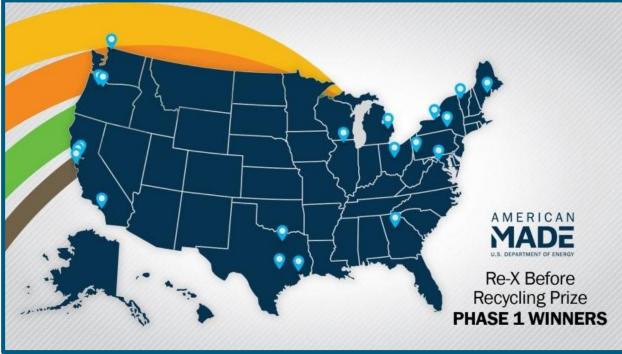
Focuses on extending the useful lifetimes of products or parts to reduce life cycle energy use and emissions Increasing the recovery and reuse rate of end-of use products can deliver multiple benefits

- reduces embodied energy and carbon of manufactured goods,
- strengthens regional manufacturing supply chains,
- increases U.S. supply security
- reduces environmental burdens related to landfilling, incineration, and extraction

PHASE 2 OPEN NOW

Phase 1 winning teams include those that plan to...

- use salvageable lumber from Georgia's film industry to mass produce nail-laminated panels for reuse in affordable housing projects,
- work to reroute surplus business materials to classrooms in Fort Worth, Texas, leveraging community partnerships so teachers have the supplies they need to provide free curriculum-enhancing experiences,
- expand a workspace-as-a-service model that remanufactures office furniture, establishing a hub-and-spoke network with Tribal nations across the United States.



Understanding Our Impact & Charting A Course

Impact Analysis of Materials and **Manufacturing Innovation on Environmental Justice**



The mining, separation, and production of critical minerals and materials and the recycling of electronic waste and plastics are processes that can cause harmful environmental justice impacts.

AMMTO is standing up Environmental Justice (EJ) Analysis for data identification, data collection, decision-making methodology development, and prototype tool development to facilitate EJ harm prevention or reduction in communities. The EJ analysis will be focused on the following AMMTO technical areas:

- Critical Minerals and Materials (CMM)
- Circular Economy Technologies and Systems (circularity).

Education and Workforce Development Strategy



Vision: A robust, diverse, and thriving workforce has the skills required to transform and accelerate the development and adoption of innovative materials and manufacturing technologies and drive a globally competitive, clean energy economy.

- Inspire people to pursue and grow careers in advanced manufacturing, especially clean energy tech
- Prepare and equip the manufacturing workforce with the skills and support needed to deploy and advance technology
- Prepare and equip the RD&D workforce with the skills and support needed to develop and transform tech
- Grow the workforce and support workers and they navigate their careers and acquire KSAs

Supporting Performers To Expand Community Benefits

Community Benefits Plans for the Advanced Materials and Manufacturing Technologies Office

Advanced Materials & Manufacturing Technologies Office

Advanced Materials & Manufacturing Technologies Office »

Community Benefits Plans for the Advanced Materials and Manufacturing Technologies Office

Are you submitting a U.S. Department of Energy (DOE) Advanced Materials and Manufacturing Technologies Office (AMMTO) funding application and looking for support as you build your community benefits plan (CBP)? If so, this resource page is designed for your assistance.

AMMTO encourages ambitious, socio-politically responsive projects that work alongside communities in meaningful ways. As such, this page is a resource for anyone seeking project support from AMMTO or seeking to strengthen the broader impacts of their proposals, whether or not they have a community benefits plan.

About Community Benefit Plans

Components of a Plan

Developing an Excellent Community Benefits Plan

Diversity, Equity, Inclusivity, and Accessibility

Energy Equity and Environmental Justice

Education and Workforce Development

Let's connect and find ways to work together!

















- Chris Saldaña & Diana Bauer (<u>christopher.saldana@ee.doe.gov</u>, <u>diana.bauer@ee.doe.gov</u>)
 - Strategic collaborations, consortia/stakeholder engagement, interagency coordination
- Kate Peretti Secure & Sustainable Materials PM (<u>kathryn.peretti@ee.doe.gov</u>)
 - Circular economy, critical materials
- Huijuan Dai Next Generation Materials & Processes PM (<u>huijuan.dai@ee.doe.gov</u>)
 - High performance materials (composites, metals, ceramics), additive manufacturing, smart manufacturing, high performance computing
- Seema Somani Energy Tech. Mfg. & Workforce PM (<u>seema.somani@ee.doe.gov</u>)
 - Semiconductor manufacturing, power electronics, battery manufacturing, education and workforce development innovation, lab embedded entrepreneurship

Elke Hodson

Deputy Director for Technology Policy
Office of Policy,
U.S. Department of Energy





Inflation Reduction Act
Clean Energy Tax Incentives

Elke Hodson | Deputy Director for Technology Policy





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Elective Pay Summary



Tax-exempt and governmental entities that do not owe income taxes can now receive a payment equal to the full value of clean energy tax credits.



Tax credits earned through Elective Pay can be combined with DOE grants and loans with some limitations.



Eligible entities must complete a **pre-filing registration** and then claim the credit by filing a tax return with the IRS after the project or property is placed in service.

energy.gov/policy 114



Elective Pay – Cash for Clean Energy

Elective pay allows tax-exempt and governmental entities to receive a cash payment from the IRS for eligible clean energy investments.

Example: A local government invests \$1,000,000 in tax-credit eligible solar, battery storage, and EV chargers at a community center.

Cash-back: Through elective pay, local government receives a \$300,000 cash payment from the IRS if it qualifies for relevant 30% investment tax credits.



More Details

- IRS.gov/ElectivePay
- IRS Elective Pay FAQ
- CleanEnergy.gov/DirectPay
- Publication 5817-G (6-2023) (irs.gov)



Which tax credits are eligible?

12 of the Inflation Reduction Act clean energy tax credits are eligible for elective pay including:

- Investment tax credit (ITC) and production tax credit (PTC) and bonus credits for clean electricity
- Credit for clean commercial vehicles
- Credit for EV chargers installed in low-income or non-urban areas
- Manufacturing tax credits

See the full list of elective pay eligible credits in the Tax Credit Overview section or at: https://www.irs.gov/pub/irs-pdf/p5817g.pdf



Clean Electricity Investment Tax Credit Example

Tax credit bonuses can stack with the underlying tax credit creating significant opportunity for eligible projects.

Example: 1 MW community solar facility costing \$1 million could earn a **70% tax credit** worth \$700,000 if eligible for all applicable tax credit and bonuses

If it is owned by an applicable tax-exempt entity, this could be a **direct cash payment** from the IRS

Up to 70% total tax credit!

Low Income Communities
Bonus

10-20% increase in ITC

Domestic Content Bonus

10% increase in ITC

Energy Communities Bonus
10% increase in ITC

Base ITC

30%*

(*meets prevailing wage and apprenticeship criteria)



Where can I find more information?

Links and Websites

- IRS.gov/ElectivePay
- CleanEnergy.gov/DirectPay
- EnergyCommunities.gov/energy-community-tax-creditbonus/
- Energy.gov/justice/low-income-communities-bonuscredit-program
- elke.marten@hq.doe.gov or IRATax@hq.doe.gov







THE GREENHOUSE GAS REDUCTION FUND IS A HISTORIC INVESTMENT IN AMERICAN CLEAN ENERGY FINANCE

History of the Greenhouse Gas Reduction Fund Program

The Greenhouse Gas Reduction Fund is a historic investment to achieve the United States' climate goals

- President Biden's Inflation Reduction Act authorized EPA to implement the Greenhouse Gas Reduction Fund
- The Greenhouse Gas Reduction Fund (GGRF) is a historic \$27 billion investment to combat the climate crisis by mobilizing financing for greenhouse gas- and air pollution-reducing projects in communities across the country
- This bold investment will improve health outcomes and deliver lower energy costs for Americans while ensuring our country's economic competitiveness and energy independence

EPA prioritized robust stakeholder engagement during program implementation

- Almost 400 public written comments submitted to the EPA in response to a public Request for Information
- Over 12 hours of national public listening sessions with over 2,200 registrants and more than a dozen targeted stakeholder roundtables between October 2022 and May 2023
- Nearly 150 additional written comments received in response to the April 2023 Implementation Framework

EPA created three distinct and complementary grant competitions to catalyze American clean investment

- The three Greenhouse Gas Reduction Fund program objectives include: 1) reducing greenhouse gas emissions and air pollution; 2) providing benefits to American communities, particularly low-income and disadvantaged communities; and 3) mobilizing financing and private capital to transform markets
- The three Greenhouse Gas Reduction Fund grant competitions will scale deployment of clean technologies nationally, build community clean financing capacity locally, and spur adoption of clean distributed solar energy
- **GGRF has selected 68 applicants** to serve as intermediaries to administer the three GGRF across the three programs.



TO ACHIEVE THESE THREE OBJECTIVES, THE GGRF PROGRAM RAN THREE GRANT COMPETITIONS

Overview of the three Greenhouse Gas Reduction Fund programs



National Clean Investment Fund



Clean Communities
Investment Accelerator



Solar for All

Competition description

Fund 2-3 national nonprofits to partner with private capital providers to deliver financing at scale catalyzing tens of thousands of clean technology projects Fund hub nonprofits to rapidly build clean financing capacity of networks of community lenders to finance pollution-reducing projects in low-income & disadvantaged communities

Support states, territories, Tribal & municipal governments, & nonprofits to expand access to solar for low-income & disadvantaged communities by priming markets for investment

Number and type of grantees

3 national nonprofits

5 hub nonprofits

60 states, Tribal & municipal governments, & eligible non-profit entities

Funding available

Low-Income and Disadvantaged Communities focus

Nearly \$14B

As part of the Justice40 Initiative, **at least 40%** of the benefits of NCIF must go to low-income and disadvantaged communities.

\$6B

By statute, **100% of this program** must go to low-income and disadvantaged communities.

\$7B

By statute, **100% of this program** must go to low-income and disadvantaged communities.



NCIF AND CCIA PRIORITY PROJECT CATEGORIES: CCIA IS RESTRICTED TO THESE, NCIF MUST INCLUDE THESE



Distributed Energy Generation and Storage

Projects, activities, and technologies that deploy small-scale power generation and/or storage technologies (typically from 1 kW to 10,000 kW), plus enabling infrastructure necessary for deployment of such generation and/or storage technologies. For this competition, the projects, activities, and technologies must support carbon pollution-free electricity, which is electrical energy produced from resources that generate no carbon emissions, consistent with the definition specified in Executive Order 14057 (Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability).



Net-Zero Emissions Buildings

Projects, activities, and technologies that either (1) retrofit an existing building, making a substantial contribution to that building being a net-zero emissions building and as part of a plan for that building achieving zero-over-time, or (2) construct a new net-zero emissions building in a low-income and disadvantaged community. Net-zero emissions buildings are defined in Executive Order 14057 Implementing Instructions...and include residential (e.g., 1- to 4-family homes, manufactured homes, multifamily housing), commercial, industrial, and other buildings.



Zero-Emissions Transportation

Projects, activities, and technologies that deploy zero-emissions transportation modes, plus enabling infrastructure necessary for zero-emissions transportation modes—especially in communities that are overburdened by existing diesel pollution, particulate matter concentration, and degraded air quality. Zero-emissions transportation should be consistent with the zero-emissions transportation decarbonization strategies in The U.S. National Blueprint for Transportation Decarbonization.

Applications are expected to either cover each of the priority project categories in their investment strategies or provide a rationale for why any of the priority project categories are not covered; any application with such a rationale will not be penalized and will instead be awarded points based on the strength of the rationale. Note that any project that meets the requirements of a qualified project is eligible for support under this competition.



FOR NCIF AND CCIA, APPLICATIONS WILL PROPOSE FINANCIAL ASSISTANCE TO QUALIFIED PROJECTS (SEE NOFOS)

Financial assistance...

- Financial assistance constitutes financial products, including:
 - o Debt (such as loans, partially forgivable loans, forgivable loans, zero-interest and below-market interest loans, loans paired with interest rate buydowns, secured and unsecured loans, lines of credit, subordinated debt, warehouse lending, loan purchasing programs, and other debt instruments)
 - Equity (such as equity project finance investments, private equity investments, and other equity instruments)
 - o Hybrids (such as mezzanine debt, preferred equity, and other hybrid instruments)
 - o Credit enhancements (such as loan guarantees, loan guarantee funds, loan loss reserves, and other credit enhancement instruments)
- Subgrants are not eligible as financial assistance to qualified projects
- Expenditures for financial assistance will be in the form of Subawards, Participant support costs, and acquisitions of Intangible property for a financial assistance purpose
- Grantees may provide financial assistance to various types of counterparties, which include (as examples) project sponsors as well as community lenders and other similar institutions

...to qualified projects

The project must meet all requirements listed below at the time of financing to be eligible as a "qualified project."

- a. The project, activity, or technology would reduce or avoid greenhouse gas emissions, consistent with the climate goals of the United States to reduce greenhouse gas emissions 50-52 percent below 2005 levels in 2030, reach 50 percent zero-emission vehicles share of all new passenger cars and light trucks sold in 2030, achieve a carbon pollution-free electricity sector by 2035, and achieve net-zero emissions by no later than 2050. The project, activity, or technology may reduce or avoid such emissions through its own performance or through assisting communities in their efforts to deploy projects, activities, or technologies that reduce or avoid such emissions.
- The project, activity, or technology would reduce or avoid emissions of other air pollutants. The project, activity, or technology may reduce or avoid such emissions through its own performance or through assisting communities in their efforts to deploy projects, activities, or technologies that reduce or avoid such emissions.
- The project, activity, or technology would **deliver additional benefits** (i.e., in addition to reducing or avoiding emissions of greenhouse gases and other air pollutants) to American communities within one or more of the following four categories: clean energy and energy efficiency; clean transportation; affordable and sustainable housing; and training and workforce development.
- The project, activity, or technology may not have otherwise been financed.
- The project, activity, or technology would mobilize private capital.
- The project, activity, or technology would support only commercial technologies, defined as technologies that have been deployed for commercial purposes at least three times for a period of at least five years each in the United States for the same general purpose as the project, activity, or technology. 124



NEARLY A MILLION HOUSEHOLDS WILL BENEFIT FROM AFFORDABLE, CLEAN ENERGY, FUNDED BY SOLAR FOR ALL

EPA estimates that the 60 Solar for All awardees will enable over 900,000 households in low-income and disadvantaged communities to deploy and benefit from distributed solar energy, resulting in...



30+ million metric tons of CO₂e avoided over 25 years, from 4+ GW of solar energy capacity deployed or unlocked for low-income and disadvantaged communities over the program¹



\$350+ million annual savings for overburdened households for their electricity bills; and all programs committed to delivering at least 20% household savings to beneficiaries



~25 states and territories will have access to residential solar programs for low-income and disadvantaged communities for the first time²

Impact figures estimated from data provided in selected grant applications and funding estimates

- 1. CO₂e figure calculated from applicant reported solar capacity estimates with EPA's AVoided Emissions and geneRation Tool (AVERT) and the National Renewable Energy Lab's Cambrium data set
- 2. States and territories figure based on survey of previous low- and medium-income residential and community solar programs; states/territories with existing programs defined as any existing or previous state-, utility-, or CDFI-led program across a share of the state/territory population



KEY TAKEAWAYS, GREENHOUSE GAS REDUCTION FUND:

- GGRF is three distinct but complementary programs;
- Funds will begin flowing via selected intermediaries by this summer;
- \$27b will be leveraged to expand on the work;
- NCIF and CCIA are primarily loan programs, not grant programs; SFA will vary;
- All three programs have a Technical Assistance component;
- Significant LIDAC focus across the 3 programs –more than 70% of the \$27b;
- Buildings and residential properties make up a majority of the 3 programs;



Lauren Ross

Deputy Director for Energy Justice
Office of Energy Justice and Equity,
U.S. Department of Energy



Office of Energy Justice and Equity

Community Engagement and Funding Opporunities

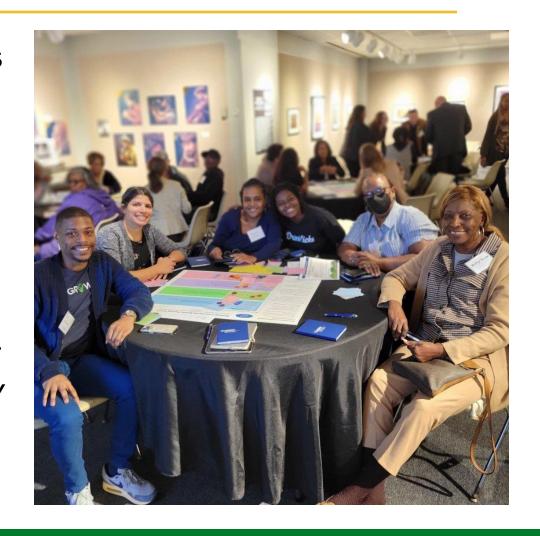


Office of Energy
Justice and Equity

Office of Energy Justice and Equity

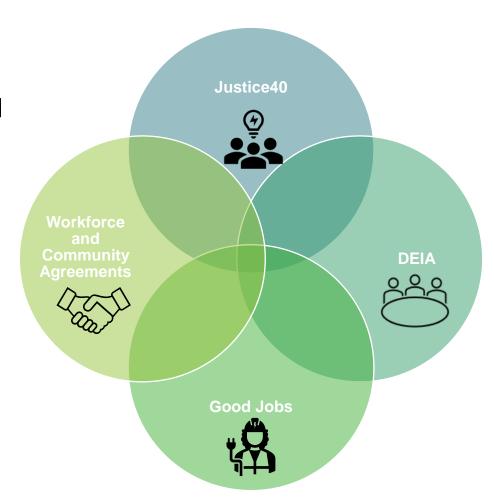
The Office of Energy Justice and Equity develops and executes Department-wide policies to implement applicable legislation and Executive Orders that strengthen diversity and inclusion goals_affecting equal employment opportunities, small and disadvantaged businesses, minority educational institutions, and historically under-represented communities.

Our mission is to identify and implement ways of ensuring that everyone is afforded an opportunity to participate fully in the Department of Energy's programs, opportunities, and resources.



Ensuring Community Benefits in DOE Funding

- Meet or exceed the objectives of the Justice40 initiative that 40% of benefits accrue to disadvantaged communities
- Equitable access to wealth building opportunities
- Create good-paying jobs to attract and retain skilled workers and ensure workers have a voice.
- Meaningful engagement with community and labor partners leading to formal agreements



Regional Energy Democracy Initiative (REDI)

The **Regional Energy Democracy Initiative (REDI)** is a DOE initiative to bring together public, private, academic, and philanthropic partners into collaborative regional consortia across the U.S. to:

- Identify strategic community investments to leverage DOE dollars;
- Increase regional coordination, information sharing, and planning activities to inform the delivery of community benefit commitments;
- Evaluate implementation of CBPs and DOE investments impact in the region; and
- Build community capacity for CBP implementation and energy democracy.

REDI Overview

Help communities better plan & more meaningfully engage in the development of community benefits & commitments

- Provide expertise, training, and technical resources to community-based organizations and community advisory councils to strengthen & support community benefits and commitments.
- Bring regional and local stakeholders together to coordinate a regional benefits strategy that will inform overall benefits and commitments.
- Track and monitor DOE investments and community benefit commitments in the region.
- Connect communities with external funding opportunities and resources (public & private) to further advance communityidentified investments.



REDI TIMELINE

Timeframe	Task		
May 22, 2024	REDI OPPORTUNITY OPENS!		
June 6, 2024	INFORMATIONAL WEBINAR / OBJECTIVE STRATEGIC SESSION (OSS)		
Mid July, 2024	IN PERSON OBJECTIVE STRATEGIC SESSIONS Regional opportunities for potential performers to learn more about REDI		
July 18, 2024	INFORMATION OFFICE HOURS SESSION ON ENERGYWERX		
July 31, 2024	SUBMISSION DEADLINE		
September 2024	REGIONAL CONSORTIUM SELECTED DOE evaluates strategy and action plans of regional consortia.		
Early October 2024	KICKOFF EVENT IN GULF SOUTH		
October 2024 to 2025	Regional consortia develop strategy and action plans to achieve REDI objectives and sustain work in Gulf South region		

Low-Income Communities Bonus Credit Program (§48(e))

Supporting the Biden-Harris Administration's Investing in America agenda, the Low-Income Communities Bonus Credit Program (§48(e)) promotes cost-saving clean energy investments

- in low-income communities,
- on Indian land,
- as part of affordable housing developments,
- and benefitting low-income households.

The bonus credit provides a 10 or 20 percentage point increase to the investment tax credit for qualified solar and wind energy facilities.

DOE's Office of Energy Justice and Equity is administering the program in partnership with the U.S. Department of the Treasury and the IRS.

DOE is accepting applications!

Until <u>June 27, 2024</u>, all applications will be considered submitted at the same time.

Visit the Landing Page to learn more and apply:

www.energy.gov/justice/
low-income-communities-bonus-creditprogram

Questions? Contact the DOE Support Desk:

1 (888) 415-0131

EJBonusSupport@hq.doe.gov



Program Video:

https://www.youtube.com/watch?v=n-

uciPXQG6k



\$1.5 Million Invested into MSI STEM Faculty





Michael Forrester

Assistant Director of Partnerships
Office of State and Community
Energy Programs (SCEP),
U.S. Department of Energy





Opportunities with SCEP

Michael Forrester, Senior Advisor for SCEP



State and Community Energy Program Office (SCEP)

01



Weatherization Assistance Program

Helps reduce energy burden in low-income households in every county, state, D.C., and the five U.S. territories. Since 1976, more than 7 million low-income residences have been weatherized through WAP, reducing energy bills by \$250 to \$450 annually. WAP supports approx. 8,500 jobs and provides weatherization services to approx. 35,000 homes every year w/DOE funds.

02



State Energy Program

Provides **formula funding** and technical assistance to 50 states, 5 U.S. territories, and DC to enhance energy security, **advance state-led energy initiatives**, and increase energy affordability. SEP funds numerous state-led initiatives and programs that generate substantial energy and cost savings, **moving states closer towards climate and clean energy goals**.

03



Community Energy Programs

Works with local and tribal governments, public schools, nonprofit organizations, workforce development groups, and other community-serving entities by acting as a front door for federal support and resources. CEP manages multiple active grant programs, including the EECBG, LGEP, EFG, workforce development and training grants, and public school and nonprofit funding programs.

04



Technical Assistance Partnerships

Serves at the nexus of state and local governments to catalyze lead-by-example programs by **developing tools and solutions to barriers facing state and local governments**, convening and creating peer exchanges to showcase public-sector leadership and effective public-private partnerships, and providing information from leading technical experts.

Programs Coming Out of SCEP

\$3.5B for Weatherization Assistance Program

\$260M for Building Efficiency Workforce Training

\$500M for State Energy Program

\$250M for Energy Efficiency Revolving Loan Funds

\$50M for Energy Efficiency for Non-Profits

\$1B for Energy Codes Technical Assistance \$500M for
Energy Efficiency
& Renewable
Energy in Public
Schools

\$550M for Energy Efficiency & Conservation Block Grants Program

\$8.8B for Home Energy Rebates

Eligible state, local, and Tribal governments can now apply for \$430M in funding from the Energy Efficiency and Conservation Block Grant (EECBG) Program!

Eligible entities can use flexible EECBG Program funding for projects and programs that







Cut Carbon Emissions

Improve Energy Efficiency

Reduce Energy Use



States can apply for EECBG Program formula funding through July 2023.

Local governments and Tribes can apply through January 2024.

Energy Future Grants: Place-Based Innovation

Teams (e.g., city-city, city-state, county-tribes) develop innovative, deployment-based strategies inclusive of transportation, buildings, and power sectors.



Program Information

FOA: Fall 2024

Website: https://www.energy.gov/scep/energy-future-grants

\$27M

Competitive FOA to help scale local strategies that drive demand for affordable clean energy



Local, states, and tribal governments partner with community organizations, utilities, academia and NGOs.



Multi-tiered awards with 2nd round of funding for subset of awardees that make the most progress.



Technical assistance provides analytical and team support to scale innovative solutions.

BIL and IRA Energy Efficiency Workforce Development Programs

	Statute	Total Appropriations & Availability	Allocation of Funds	Building Segment Served
State Based Energy Efficiency Contractor Training Grants	IRA Sec. 50123	\$200,000,000 Until September 30, 2031	State Energy Offices	Residential
Energy Auditor Training Program	BIL Sec. 40503	\$40,000,000 Until Fiscal Year 2026	State Energy Offices	Residential, Commercial
Building Training and Assessment Centers Program	BIL Sec. 40512	\$10,000,000 Until expended	Institutions of higher education	Commercial, Institutional
Career Skills Training Program	BIL Sec. 40513	\$10,000,000 Until expended	Nonprofits	All buildings

Home Efficiency & Electrification Rebates

Home Energy Rebates

\$8.8 Billion

Formula Grants

September 30, 2031

State Energy Offices & Indian Tribes

Home <u>Efficiency</u> Rebates (HOMES)

\$4.3 Billion

Whole-home retrofits

Home Electrification and Appliance Rebates (HEAR)

\$4.5 Billion \$225 Million set aside for Indian Tribes

Efficient Electric Installations Low/moderate income qualified Eligible to Single Family and Multi Family Homes

Payments increase for low and moderate Income

Low Income - less than 80% Area Median Income

Moderate Income -80-150% Area Median Income

Prohibition on Combining with other federal rebates

Stay Connected!

Additional Information on Incentives:

www.energy.gov/save

US EPA Energy Star Rebate/Incentive Finder:

www.energystar.gov

Stay up to date by visiting our Home Energy Rebate Website:

https://www.energy.gov/scep/home-energy-rebate-program.

Contact me at Michael.Forrester@hq.doe.gov

Federal Policy Panel Discussion



Moderator:
Rob Sandoli
Integrated Strategies
Office, U.S. DOE



Lauren Ross
Office of Energy Justice
and Equity, U.S. DOE



Michael Forrester
Office of State and Community
Energy Programs, U.S. DOE



Elke Hodson Office of Policy, U.S. DOE



Ted Toon

Greenhouse Gas Reduction Fund,

U.S. EPA



Diana Bauer
Advanced Materials and
Manufacturing Technologies Office,
U.S. DOE

Coffee Break 2:45 - 3:15 pm



Stakeholder Roundtables

• Goal:

 Share knowledge and resources and bridge partnerships to catalyze community-driven climate solutions and foster a just, diverse, equitable, and inclusive clean energy economy

• Structure:

- Each table has an assigned moderator
- Table 6: Special topic on CBPs/CBAs
- Individual brainstorming on sticky notes, then come together for discussion.
- Switch tables at 45 minutes.
- CEBN will distill some major themes in follow-up notes and explore further in future events in 2024.





Susan Hamm

Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

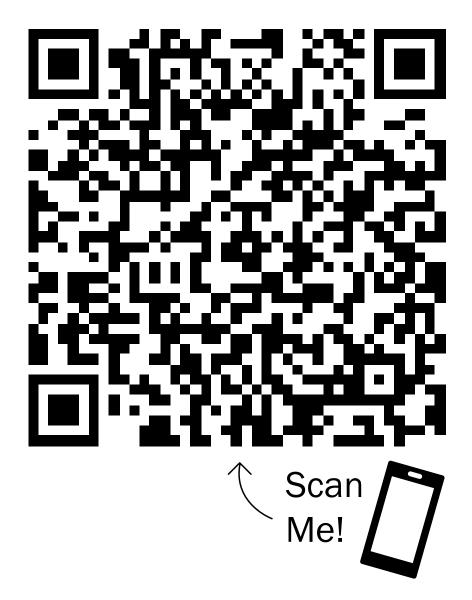








Help us improve future events by filling out this brief feedback form.



Thanks for joining us!