

# Community Clean Energy Coalition Prize Summit

December 6, 2023

Stakeholder Workshops





# Agenda

- 1 Welcome
- 2 Funding Resources for Communities
- 3 Stakeholder Engagement Strategies
- 4 Stakeholder Roundtables
- 5 Adjourn



## Lynn Abramson

President

*Clean Energy Business Network*



## Shadeed Abdul-Salaam

Director, Center for Sustainability and Innovation  
*Morehouse College*



## Natalie Tham

Policy Analyst

*Bipartisan Policy Center's American Energy  
Innovators Network*



## Debbie Brodt-Giles

American-Made Program Manager

*National Renewable Energy Laboratory*



## Eric Foster

Senior Advisor, Equitable Economic Opportunity  
*Clean Energy Business Network*

# Funding Resources for Community-Based Energy Programs

## Speakers:

- **Debbie Brodt-Giles**
  - American-Made Program Manager, *National Renewable Energy Laboratory*
- **Kerene Tayloe**
  - Senior Advisor, *Office of State and Community Energy Programs (SCEP), U.S. Department of Energy*
- **Kristofor Anderson**
  - Director of Energy Resources, *Georgia Environmental Finance Authority*
- **Dr. Reginald Parker**
  - Managing Partner, *Green Power Ventures* and Trustee and Principal, *Freedmen Green Bank and Trust*







AMERICAN  
**MADE**  
U.S. DEPARTMENT OF ENERGY

# American-Made Prize Program

December 2023 - Debbie Brodt-Giles



what

IS AMERICAN-MADE ALL ABOUT?

# AMERICAN MADE

U.S. DEPARTMENT OF ENERGY

The American-Made program is your **fast track to the clean energy revolution**. Funded by the U.S. Department of Energy, we incentivize innovation through prizes, training, teaming, and mentoring, connecting the nation's entrepreneurs and innovators to America's national labs and the private sector.





# supercharge

A REVOLUTION OF **BOLD IDEAS**

**Fast track** your ideas for the clean energy revolution

AMERICAN  
**MADE**  
U.S. DEPARTMENT OF ENERGY



**\$260M**  
in cash prizes  
and support



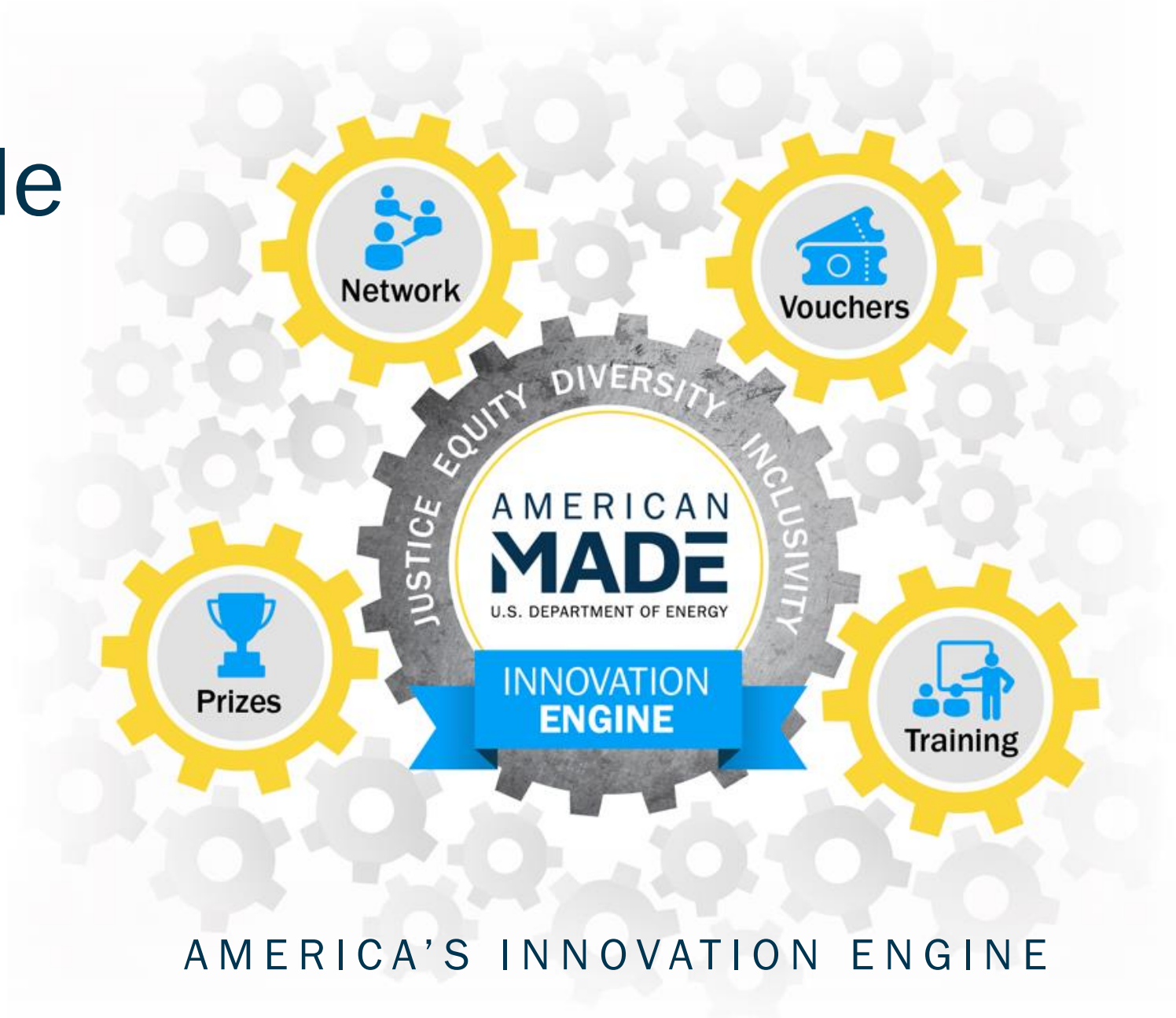
**70+**  
prizes



**450+**  
Network  
members

# The American-Made Innovation Engine

1. Prizes and Competitions
2. Network of Support
3. Vouchers and Technical Assistance
4. Training and Education

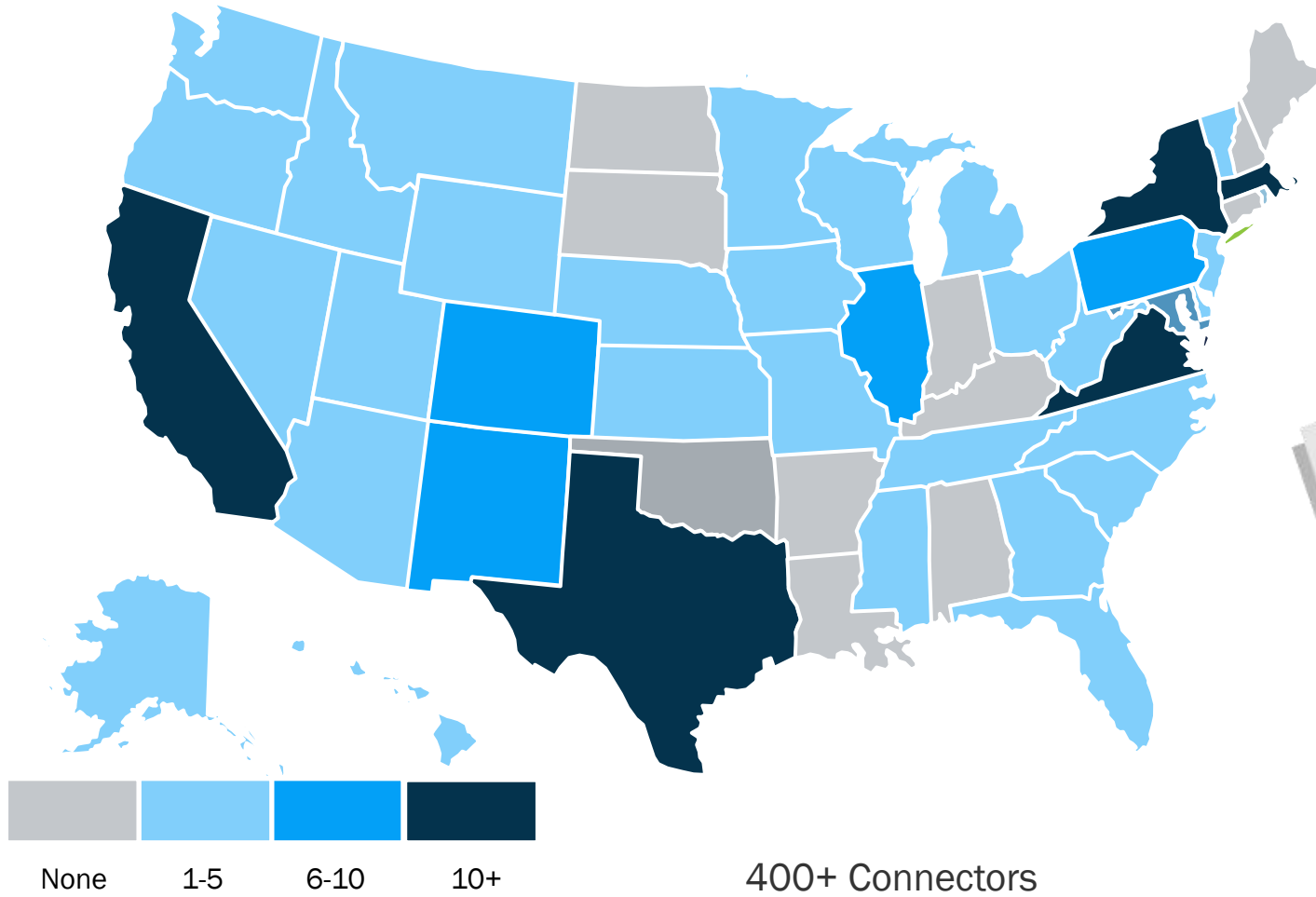


AMERICA'S INNOVATION ENGINE

# Prize Challenges

- **Makes innovation easy, fast, and agile** with rapid innovation cycles, which help boost innovators' competitive spirit and advance inventions to market
- **Inspires the next generation** of scientists, engineers, entrepreneurs, and community leader to solve important problems and challenges
- **Expands participation** from innovators with diverse backgrounds, while backing those innovators with a broad range of Network support
- **Provides opportunities** for public-private partnerships to leverage government investment to grow new businesses, solutions, and opportunities
- **Creates a pipeline of new innovators** that are ready to participate in other DOE programs such as SBIR, FOAs, grants, etc.





# Network & Vouchers

# Our Many Prizes!



By American-Made ... 36 ☆

## Collegiate Wind Competition

Helping college students prepare for jobs in the wind and renewable energy workforce through real-

📅 Enter - 37 ... **\$280K Prize**



By American-Made ... 37 ☆

## HBCU Clean Energy Education Prize

Advancing clean energy programming, opportunities, and connections for historically Black colleges and universities

📅 Pre registra... **\$7.8M Prize**



By American-Made ... 44 ☆

## HelioStat Prize

The American-Made HelioStat Prize is a 3-contest challenge designed to accelerate

📅 Enter - 83 Da... **\$3M Prize**



By American-Made ... 49 ☆

## Hydropower Collegiate Competition

Challenging multidisciplinary teams of collegiate students to offer unique solutions to

📅 Judging Cl... **\$325K Prize**



By American-Made ... 101 ☆

## The Marine Energy Collegiate Competition

Challenging multidisciplinary teams of undergraduate and graduate students to offer

📅 Judging Cl... **\$420K Prize**



By American-Made ... 104 ☆

## Microbattery Design Prize

Seeking designs for microbatteries to support new uses for small electronic devices with

📅 Enter - 51 D... **\$1.1M Prize**



By American-Made... 839 ☆

## Energizing Rural Communities Prize

Supporting innovative partnership and finance plans to help rural or remote communities

📅 Enter - 15 Days Remain...



By American-Made ... 45 ☆

## MAKE IT Prize Strategies Track

Enabling vibrant clean energy technology manufacturing activity in communities

📅 Pre registration



By American-Made ... 76 ☆

## MAKE IT Prize Facilities Track

Catalyzing domestic manufacturing of critical clean energy technology components

📅 Pre registration



By American-Made ... 56 ☆

## 2023 Sunny Awards

Recognize community solar projects and programs that increase equitable access to the

📅 Enter - 66 ... **\$200K Prize**



By American-Made ... 74 ☆

## High-Voltage Direct Current (HVDC) Prize

Propose new HVDC technology solutions to strengthen the U.S. energy grid

📅 Enter - 29 ... **\$200K Prize**



By American-Made... 548 ☆

## Community Power Accelerator Prize

Fast-tracks the efforts of solar developers to learn and grow their operations to support multiple

📅 Won **\$10M Prize**



By American-Made ... 1.1K ☆

## Buildings Upgrade Prize

Supports actionable and scalable solutions to advance energy efficiency and efficient electrification

📅 Enter



By American-Made ... 158 ☆

## DAC Pre-Commercial EPIC Prize

Regional incubators develop creative and impactful plans to support entrepreneurship and

📅 Enter - 44 Days Remain...



# Community Energy Innovation Prize

The \$7.49 million Community Energy Innovation Prize is the successor of two U.S. Department of Energy (DOE) prizes related to community-based clean energy innovation: the [Community Clean Energy Coalition Prize](#) and the [Inclusive Energy Innovation Prize](#).

The goals of this new combined prize are to support community-based organizations, the private sector, nonfederal government entities, and collegiate teams in developing and carrying out activities related to clean energy that enable business and technology incubation and acceleration as well as other community-based capacity building, innovation, and entrepreneurship.

Prize is **Open**

Total Prize Pool: \$7,490,000

Submissions due: February 2, 2023 at 3:00 pm MDT



# EPIC Round 3 Prize

Sponsored by the U.S. Department of Energy Office of Technology Transitions (OTT), EPIC Round 3 is a \$4 million competitive funding program for the nation's most innovative incubators supporting energy startups. EPIC Round 3 awards cash prizes and a three-year cooperative agreement to regional incubator teams that submit the most creative and impactful plans, then implement those plans to develop strong programming, connections, and support for energy startups and entrepreneurs.

Prize is **Open**

Total Prize Pool: \$4,000,000

Submissions due: February 9, 2023 at 3:00 pm MDT



# OTT Lab MATCH Prize

The DOE Office of Technology Transitions Lab MATCH (Laboratory Making Advanced Technology Commercialization Harmonized) Prize is a \$620K, three-phase competition aimed to accelerate national laboratory intellectual property (IP) licensing and commercialization.

Lab MATCH, which is funded by the Technology Commercialization Fund, is part of the American-Made Challenges suite of prizes. It provides an opportunity for innovators and entrepreneurs from diverse backgrounds to work directly with national labs and their researchers to accelerate technology commercialization.

Prize is **Open**

Total Prize Pool: \$620,000

Submissions due: January 25, 2023 at 3:00 pm MDT



# HBCU Partnerships Prize

The U.S. Department of Energy (DOE) launched the HBCU Clean Energy Education Prize to help develop advanced clean energy programming opportunities and connections for HBCUs across the United States. The prize focuses on three primary goals:

1. Inspire K-12 and community college students to engage with and learn about clean energy subjects through HBCU-hosted educational programs.
2. Initiate partnerships between HBCUs and other universities with proven clean energy focused programs to build new cross-university curriculum enhancements or exchange programs, along with degree and certificate programs.
3. Integrate and build programming between university and industry partners to advance career opportunities for HBCU students in the clean energy field.

Prize is **Open**

Total Prize Pool: \$6,750,000

Submissions due: December 19, 2023 at 3:00 pm MDT



# Contact & Webpage

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**Debbie Brodt-Giles:**

American-Made Program Manager ([debbie.brodt.giles@nrel.gov](mailto:debbie.brodt.giles@nrel.gov))

<https://americanmadechallenges.org>



# Funding Resources for Community-Based Energy Programs

## Speakers:

- **Debbie Brodt-Giles**
  - American-Made Program Manager, *National Renewable Energy Laboratory*
- **Kerene Tayloe**
  - Senior Advisor, *Office of State and Community Energy Programs (SCEP), U.S. Department of Energy*
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U.S. DEPARTMENT OF  
**ENERGY**

# The Office of Community Engagement

Rose Dady  
Director Office of Community Engagement (OCE)  
Associate Director, State and Community Energy Programs (SCEP)

Kerene Tayloe  
Sr. Advisor, Community Engagement





## OFFICE OF COMMUNITY ENGAGEMENT LEADERSHIP

### **ROSE DADY**

Director, Office of  
Community Engagement  
Rose.Dady@hq.doe.gov



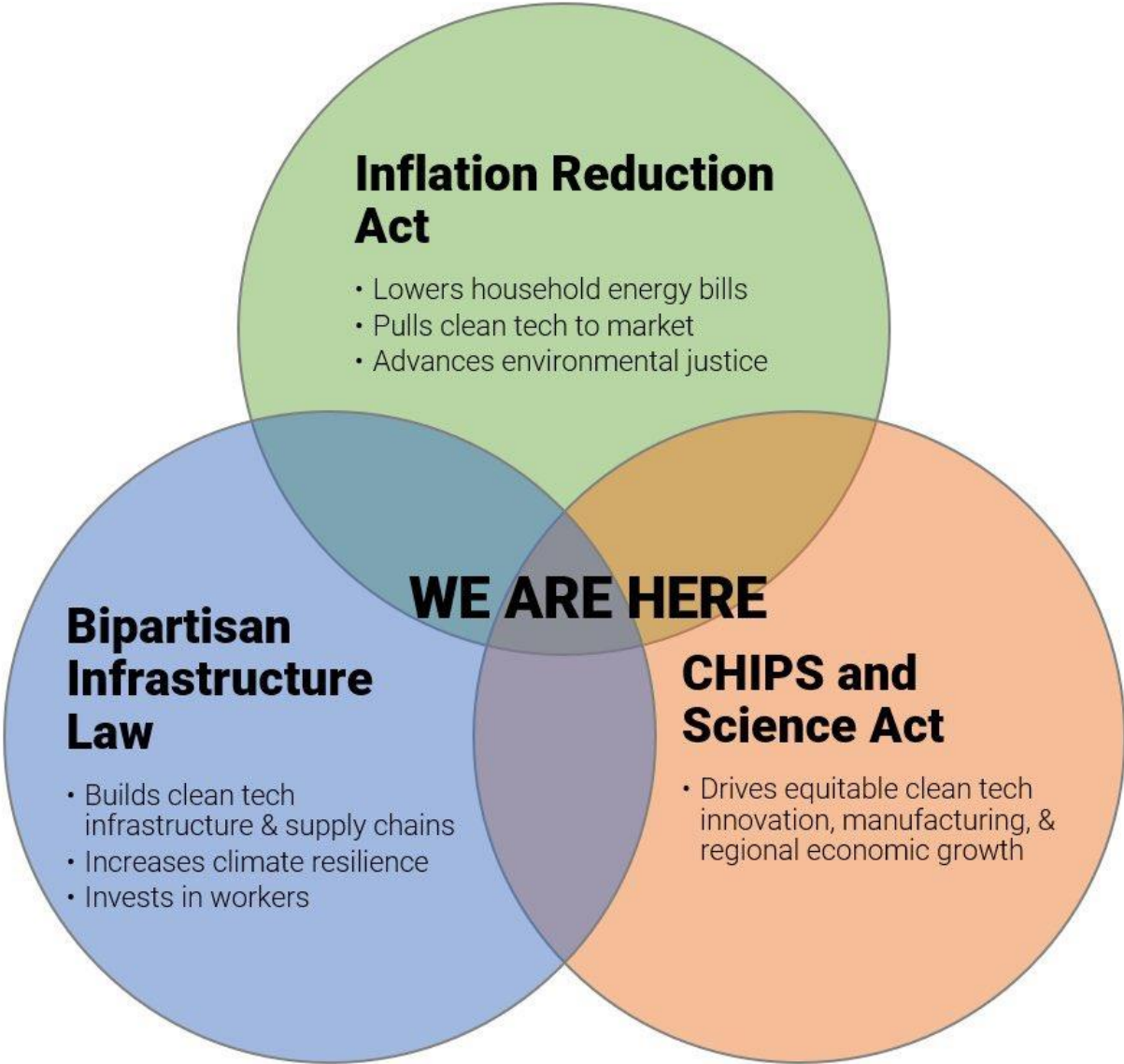
### **KERENE TAYLOE**

Senior Advisor, Office of  
Community Engagement  
Kerene.Tayloe@hq.doe.gov

The Office of Community Engagement's mission is to catalyze a rapid transition to a clean energy economy while centering justice, equity, and inclusion, DOE must provide off-the-shelf resources for all, increase its engagement with communities and strengthen internal coordination across departmental elements.



# Over \$500 BILLION invested in the clean energy transition



# DOE's UnderSecretary for Infrastructure Mission

Catalyzing the nation's equitable transition to a clean, secure, affordable, reliable, and resilient energy system



Lowering energy bills for households and businesses



Creating good jobs and boosting energy supply chains and domestic manufacturing



Advancing world-class, next generation clean energy technology demonstrations



Making the energy system more secure, reliable, affordable, and resilient



# Congress has given DOE new mandates and unprecedented funding

Hydrogen

Buildings: efficiency & electrification

Carbon Management

Energy Storage

Electric Grid

Cybersecurity

~\$100B in Grants and Rebates  
\$250B+ In Loans and Loan Guarantees

Critical Minerals/Materials

Domestic Supply Chains

EVs and Chargers

State, Local, Tribal Partnership

Workforce

Clean Energy Projects



# SCEP

STATE & COMMUNITY ENERGY PROGRAMS

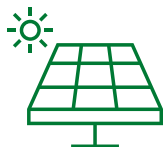
## Whole Greater than Sum of its Parts

**SCEP's Mission is to partner with State, Local, and Tribal governments and community organizations to catalyze local economic development and job creation through equitable, clean energy solutions.**

SCEP does this through the **management and oversight of \$16 billion** in formula grants, competitive grant awards, consumer rebate grants, and technical assistance.



**Prioritize  
Justice40  
Initiative**



**Deploy clean  
energy  
technologies**



**Catalyze local  
economic  
development**



**Create  
jobs and  
increase hiring**



**Avoid pollution  
through place-based  
strategies**



**Reduce  
energy costs**

# 28+ Programs Coming Out of SCEP

\$3.5B for  
Weatherization Assistance Program

\$260M for  
Building  
Efficiency  
Workforce  
Training

\$750M for  
State Energy  
Program &  
Revolving Loan  
Fund

\$500M for  
Energy Efficiency  
& Renewable  
Energy in Public  
Schools

\$100M for  
Energy  
Future  
Grants

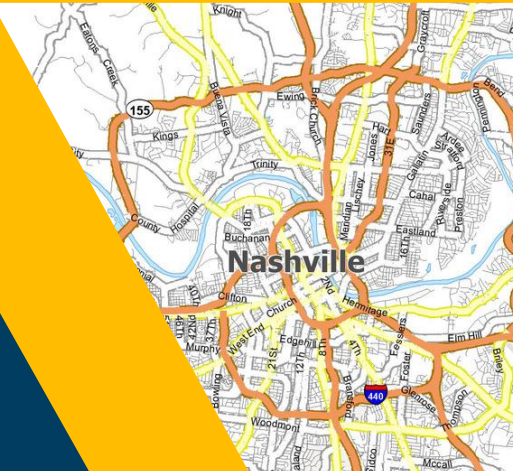
\$50M for  
Energy  
Efficiency for  
Non-Profits

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

\$1B for  
Energy Codes  
Technical Assistance

\$8.8B for Home Energy Rebates

Questions & Feedback?



# Funding Resources for Community-Based Energy Programs

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# Stakeholder Engagement Strategies

## Speakers:

- **Lavonya Jones**
  - Director, Just Energy Portfolio, *Partnership for Southern Equity*
- **Sarita Turner**
  - Senior Fellow, Strategy, Prosperity Now
- **Emily Kessel-Qureshi**
  - Project Officer, Office of Energy Justice and Equity, *U.S. Department of Energy*



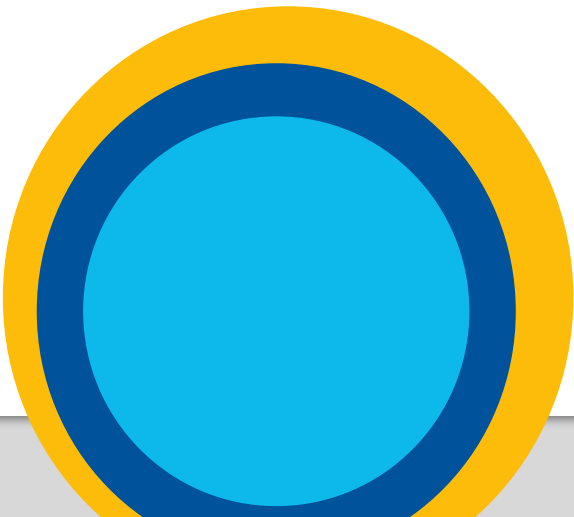




Partnership for Southern Equity

TOGETHER WE PROSPER

**Lavonya Jones**  
**LJones@PSEquity.org**  
**psequity.org**  
**mareatlas.org**  
**justice40accelerator.org**



# ***Community Clean Energy Coalition Prize Summit***

*Advancing Climate and Environmental Justice*



# Our Mission

The Partnership for Southern Equity (PSE) advances policies and institutional actions that promote **racial equity and shared prosperity** for all in the growth of metropolitan Atlanta and the American South.

# MEET THE TEAM



**Lavonya Jones,**  
Portfolio Director



**Dominique Mack,**  
SR Manager for  
Coastal Georgia



**Shanda-Joy Laws,**  
Program Manager








**Solomon McBride,**  
Program Manager



**Kaiya Murphy,**  
Program Associate



# The PSE Way

-  **Leading with race**
-  **Catalyzing relationships**
-  **Growing an equity ecosystem**
-  **Grounding in communities of color and low wealth**
-  **Foundation in data and research**



# THE PSE Theory of Engagement

**Our community organization work is driven by the belief that:**

1. Marginalized residents directly impacted by inequitable policies must step into their agency to engage in decision-making at the beginning, middle and end of a process.
2. Creating engagement opportunities that shape how public policies and practices will be influenced/changed by the wisdom provided by leaders of marginalized populations.
3. Due to vigorous engagement, new leaders, civic infrastructure and policy innovations can be realized that support better outcomes throughout the South.

# Just Energy Circle

Guiding Principles of the Just Energy Circle:



Community engagement is vital for the progression of self-sufficient people and neighborhoods



Access to high-quality energy should be fairly priced for all



Transparency and accountability is a necessity of energy providers



Equity accessibility should be the principal growth model for the American South




All people have a part to play in our emerging green sector economy



The best field and scientific research should be utilized and leveraged to find the best energy solutions





**Just Energy**  
works to  
**advance the fair  
distribution of the benefits  
and burdens, of energy  
production and  
consumption.**

**Just  
Energy  
Circle**

**Community  
Organizing &  
Engagement**

**Just  
Energy  
Academ**

**Justice40**  
Accelerator





# ADVANCING CLIMATE AND ENVIRONMENTAL JUSTICE INITIATIVES

- Disaster Relief in Glynn and Chatham Counties
- Development Liaison with Community First Planning Commission
- The Urgency of Now 2.0: The Urgency of Environmental Justice for Georgia's Communities of Color: Intersectionality of Health and Environmental Justice
- Community Solar Projects for Communities of Color
- Energy Justice and Advocacy at Colorado State University
- Girl + Environment Energy Justice Ambassadors Program
- \$43 Million in Federal Funding for Black and Brown Founders in our Justice40 Accelerator Cohorts

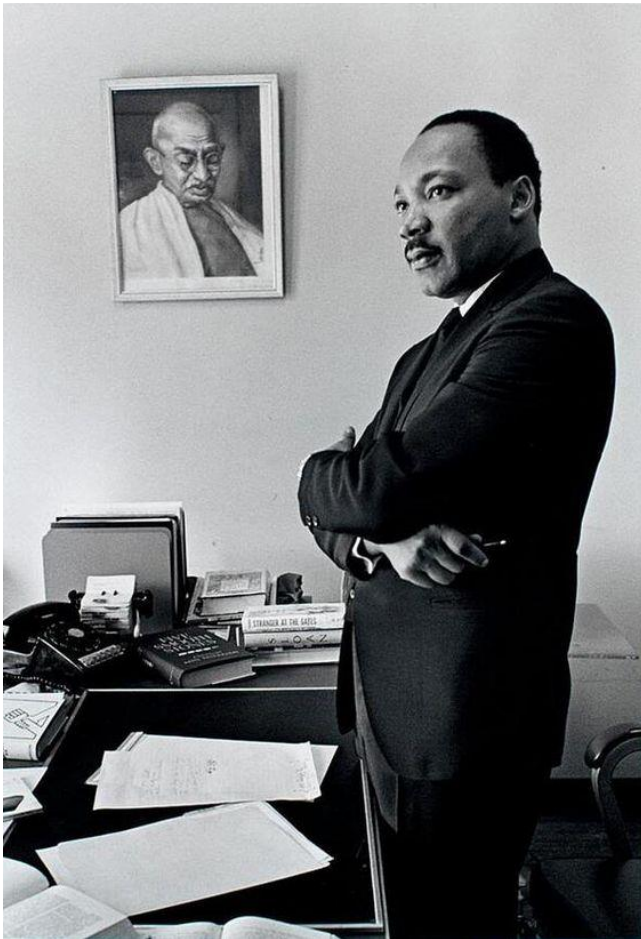




# LESSONS LEARNED ADVANCING CLIMATE AND ENVIRONMENTAL JUSTICE

- Frame inequities as a violation of shared values.
- Be a positively realistic person moving at the speed of trust, not ideas.
- Intersectionality is key to healthy lifecycle development.
- Communities need a safe space to discuss historic/cultural contexts.
- Get community input as early as possible. Build with community over building for community.
- Community must inform programming and policy change.
- Transformed, courageous individuals, ready to act.
- Enhanced leadership capacity and power at the community level.

# Values Revolution = Policy Revolution



**“We as a nation must undergo a radical revolution of values. We must rapidly begin the shift from a ‘thing-oriented’ society to a ‘person-oriented’ society.”**

**-Dr. Martin Luther King. Jr.**

# Stakeholder Engagement Strategies

## Speakers:

- **Lavonya Jones**
  - Director, Just Energy Portfolio, *Partnership for Southern Equity*
- **Sarita Turner**
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- **Emily Kessel-Qureshi**
  - Project Officer, Office of Energy Justice and Equity, *U.S. Department of Energy*





**Minority Educational Institutions Division  
Community Clean Energy Coalition Prize Summit (December 6, 2023)**



# Minority STEM Pipeline Division

# Collaborations

**Change Leaders - External**

**Future of STEM -Internal**

**DOE To the People Annual Conference**

**MSIs included in Community Benefits Plans**

**DOE Mentor Protégé for MSIs Clean Energy Contracts**

## Faculty Engagements and Support

**Faculty Applied Clean Energy Sciences (FACES)**

**Technical Assistance Live Series**

**Video Library of Recorded and OnDemand Training**

## Student Programs

**Minority Educational Institution Student Partnership Program (MEISPP)**

**Human Capital Survey and STEM Pipeline Quarterly Report**

**Ready to Work (R2W) Program**

# Faculty Applied Clean Energy Sciences (FACES)

U.S. DEPARTMENT OF ENERGY | Office of Economic Impact and Diversity

U.S. DEPARTMENT OF ENERGY | Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

NREL  
Transforming ENERGY



## Application process

- Applications will be accepted until **January 9, 2024**
- All offers will be extended by **April 10, 2024**

## FACES Program: Summer 2024

The FACES Program (Faculty-Applied Clean Energy Science) caters to Science, Technology, Engineering, and Math (STEM) faculty from Minority Serving Institutions (MSIs) by honing their skills in clean energy science.

FACES is a first-of-its-kind effort developed by the National Renewable Energy Laboratory (NREL) in collaboration with the Department of Energy's Office of Economic Impact and Diversity (ED) and Office of Energy Efficiency and Renewable Energy (EERE). The faculty-focused program was created to promote a diverse, equitable labor force in the renewable energy field.

- Help bridge the gap between the research happening between DOE laboratories and the broader academic community.
- Facilitate learning and comprehension of key concepts, providing structured content that can be seamlessly incorporated into existing lessons.
- The program consists of an 8-week on-site experience at NREL alongside a 2-week virtual program. Participants will receive \$1,800 per week for the duration of the program, along with a travel reimbursement.

## NREL by the numbers

NREL is a Department of Energy National Laboratory with decades of focused leadership in clean energy research, development, and deployment. No other institution has the long-standing expertise and breadth of knowledge that will form the foundation of the clean energy transition.

- 72 R&D 100 Awards
- 688 patents issued
- 1,046 active partnerships with industry, universities, foundations, and governments
- 16 research programs
- 3 national centers
- 10 Employee Resource Groups dedicated to identity, experience, and allyship
- 2,000+ communities, tribes, jurisdictions, utilities, and businesses served



FACES Faculty Program  
<https://bit.ly/3LZnkfa>

National Renewable Energy Laboratory  
15151 Denver West Parkway, Golden, CO 80401  
303-275-3000 • [www.nrel.gov](http://www.nrel.gov)  
NREL prints on paper that contains recycled content.

NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

NREL/FS-20A43-07578 • October 2023

**MSI  
Technical  
Assistance  
Video Library**

**Coming  
Soon**





# Sample of FY 23 Engagements

**MSI Workshop in collaboration with San Francisco State University (SFSU)**



**MSI Workshop in collaboration with California State University Long Beach (CSULB)**



**Pacific Post-Secondary Education Council (PPEC) 2023 Summer Convening**



**MSI/TCU Workshop in collaboration with University of Phoenix**



# FY 24 Educational Sessions and Training Series

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## Upcoming:

**Wednesday, December 13 at 3:00pm EST**

Office Hours Session on FY24 Series

**January/February**

*Stay Tuned!*

## Past:

**Wednesday, November 15**

DOE Prizes and Competitions:

**Friday, December 1**

Townhall to learn about the FACES Program



# GET INVOLVED!

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Information on FY24 Educational Engagement & Training Series:

<https://www.energy.gov/justice/educational-engagement-and-training-series-technical-assistance-msis-tcus-hbcus>



EJE Calendar of Events

<https://www.energy.gov/justice/calendar-events>

Team Email: [Msupport@hq.doe.gov](mailto:Msupport@hq.doe.gov)

# Thank You!

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## **Emily Kessel-Qureshi**

Management and Program Analyst  
Office of Energy Justice and Equity,  
U.S. Department of Energy  
[Emily.kessel-Qureshi@hq.doe.gov](mailto:Emily.kessel-Qureshi@hq.doe.gov)

# 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 roundtable has 1-2 moderators (primary/assistant).
- Start with prompts for individual “popcorn” brainstorming on sticky notes.
- Come together at your table (and then as a broader group) to exchange ideas and explore themes.
- CEBN will distill some major themes in follow-up notes and explore further in future events in 2024.



# Stakeholder Roundtables



# Thank you

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AMERICAN  
**MADĒ**  
U.S. DEPARTMENT OF ENERGY

 CLEAN ENERGY  
BUSINESS NETWORK



# Community Clean Energy Coalition Prize Summit

December 7, 2023

Pitch Competition







## Dr. Lynn Abramson

President

*Clean Energy Business Network*



# Agenda

- 1 Welcome
- 2 Pitches 1-6
- 3 Lunch
- 4 Pitches 7-10
- 5 Ideation Sessions with CCEC Teams
- 6 Award Ceremony
- 7 Networking/Federal Agency Showcase

## Thank you to our sponsors!



## Thank you to our promotional partners!





## **Dr. Charlene Gilbert**

Provost and Senior Vice President

*Clark Atlanta University*



## Dr. Susan Hamm

Director of Integrated Strategies

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



## Kelly Crawford

Senior Advisor for Energy Equity and  
Environmental Justice

*Office of Energy Justice and Equity,  
U.S. Department of Energy*





## Change is in the Air: Gresham Coalition

Gresham County, Oregon

# HeroX Prize Pitch

Workforce development for  
Robust Air Quality Data

# Change is in the Air



Derron Coles, PhD

CAP Gresham Coalition

[CAP@theblueprintfoundation.org](mailto:CAP@theblueprintfoundation.org)

December 7, 2023

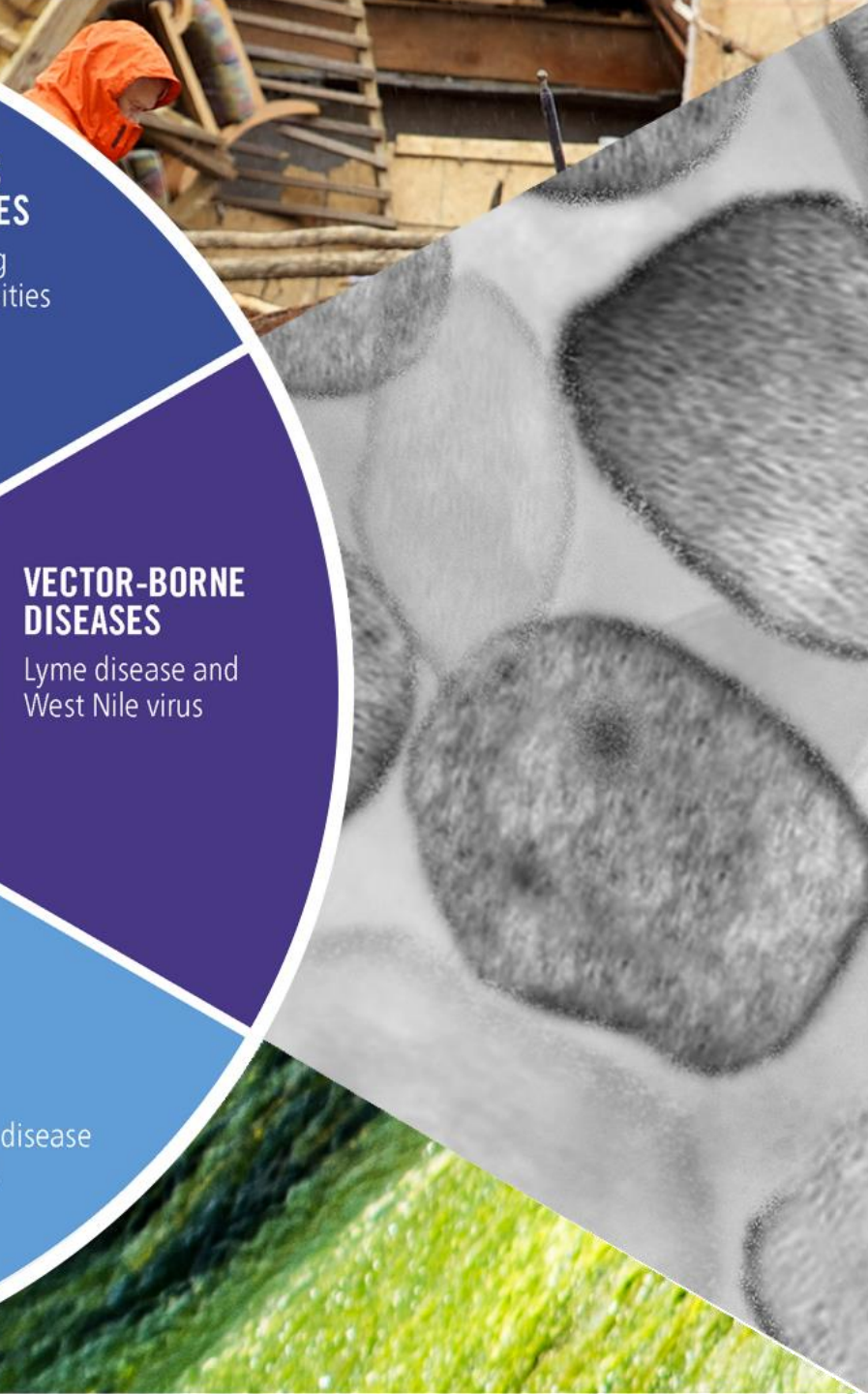
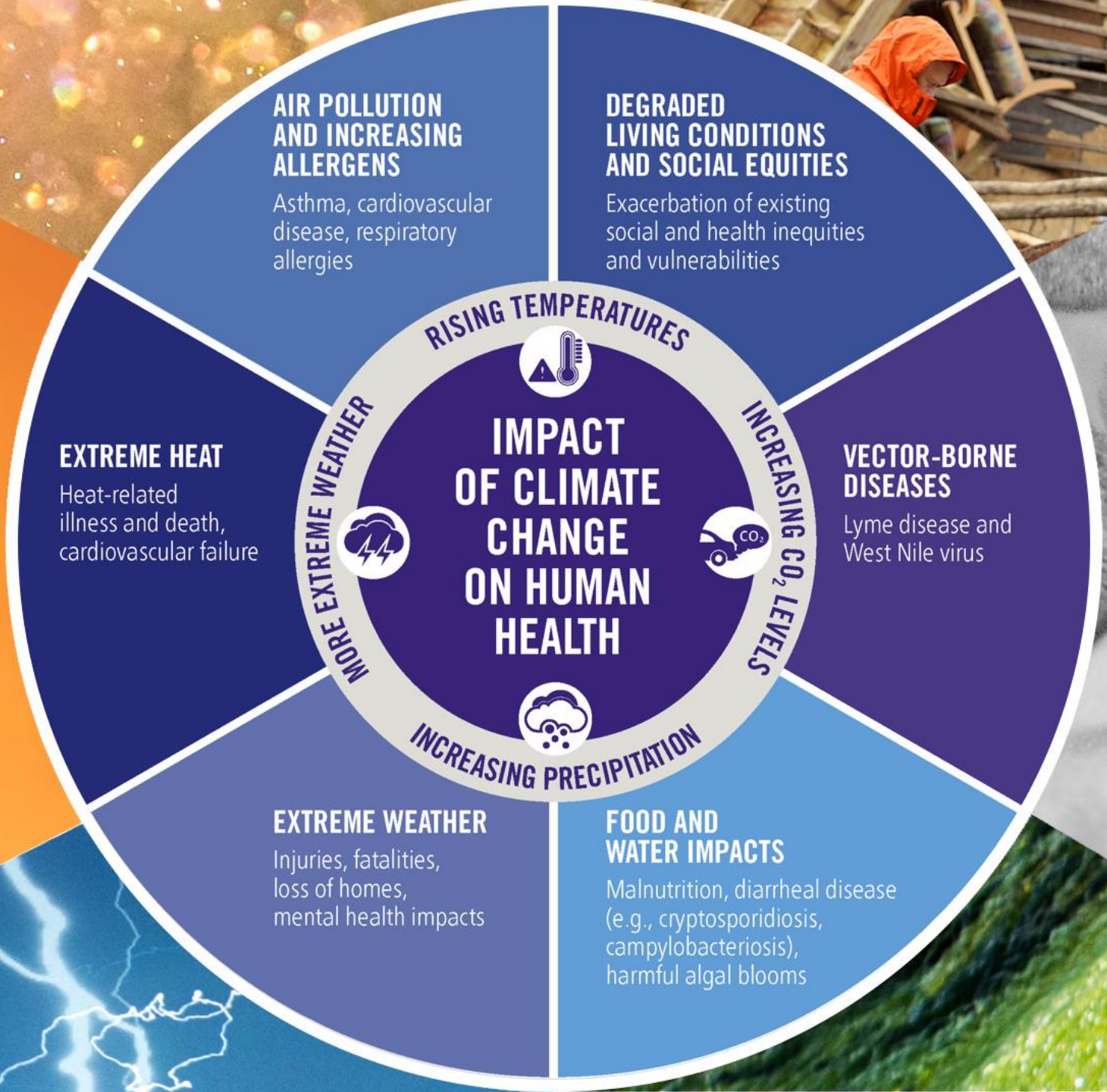




**Climate change  
is an air pollution  
problem.**

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# Change is in the Air

## Individual

- Weatherize**
- Swap gas for electric**
- Plant a tree**

## Organizational

- Improve efficiency**
- Swap diesel for electric**
- Smart supply chain**

## Institutional

- Emission reduction policy**
- Electrification initiatives**
- Revamping zoning laws**

# Change is in the Air

## Individual

- Weatherize
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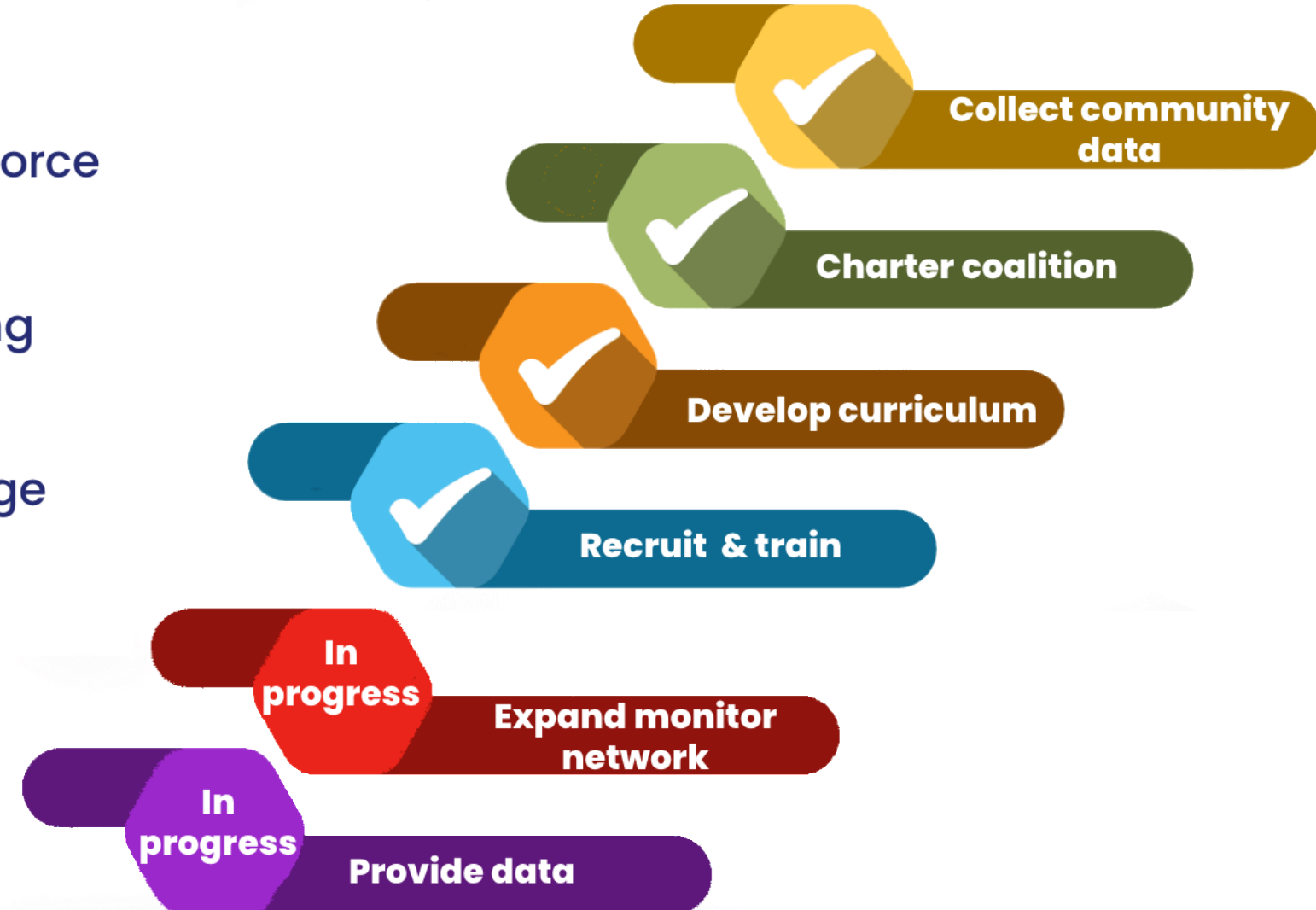


# Change is in the Air

## Progress Report

### Overarching Goals

- Build a for-us-by-us AQ workforce & data platform
- Enhance existing and emerging clean energy interventions
- Increase community knowledge and agency



# CHANGE IS IN THE AIR



COMMUNITY SCIENCE PROGRAM FOR  
BLACK YOUTH



## Make a difference for your community as a scientist.

Enrolling students ages 13-18 interested in environmental justice, computer science and electronics.

Hiring college student mentors or recent graduates majoring in computer science, electrical engineering, data science, or a related major.



### LEARN

- The science of air pollution
- Coding & data visualization
- Electronics & microelectronics
- How to design air quality studies

**BUILD** air quality sensors and design a study in your neighborhood.

**GATHER** and analyze air quality data with peers and mentors.

**EDUCATE** your community about their level of pollution exposure.

**ADVOCATE** for pollution reduction and share your data with other community advocates.

**EARN \$18/hr as youth scientist & \$24/hr as a mentor**

APPLY HERE:



For info:  
[CAP@theblueprintfoundation.org](mailto:CAP@theblueprintfoundation.org)



## Training the next generation of Black scientists while collecting data for informed decision making

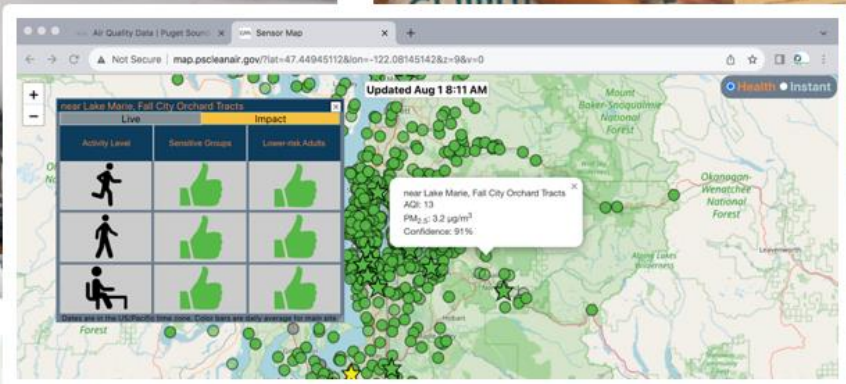




**Exposure reduction**



**Clean energy policy**



# DATA FOR ALL



**Measuring impacts**



**High impact solutions**

# Change is in the Air

## Chartering and partnering for Change

Addressing  
mistrust



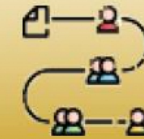
Addressing  
scarcity  
mindset



Demystifying  
science &  
data



Changing  
unhelpful  
bureaucratic  
processes



Enlisting  
industry  
allies

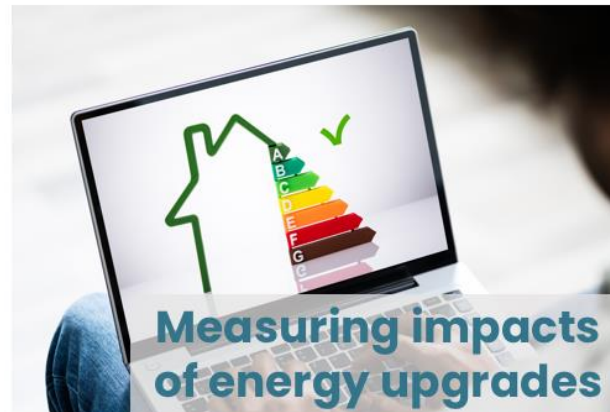




CAP Information  
Breakfast, Gresham, OR



Measuring impacts of greening spaces



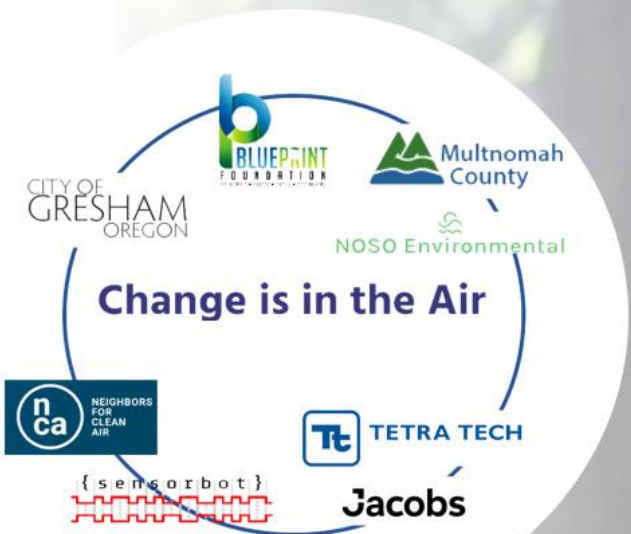
Measuring impacts of energy upgrades



Measuring indoor air quality

Join us in supporting a  
change in the air,  
everywhere

# Change is in the **Air**



Blueprint researcher at Leach  
Botanical Garden, Portland, OR



## Revitalize Our Communities: Clean Energy Coalition

Atlanta, Georgia



# Revitalize Our Communities Clean Energy Coalition

Presented by  
Revitalize Our Communities, Inc.

# Revitalize Board of Directors

- Douglas Edwards (Chair)
  - PhD, Mathematics Education
  - MS, Instructional Technology
  - BS, Electrical Engineering
- Lauren Russell (Co-Vice Chair)
  - PhD, Public Policy
  - MS, Economics
  - BS, Classics, Economics Minor
- Riean Norman (Co-Vice Chair)
  - JD, Comparative Law
  - BS, Political Science, Spanish Minor
- Mahdi Woodard (Treasurer)
  - BS, Business Management
- Mwawaza Sanyika (Secretary)
  - MD, Family & Holistic Medicine
  - BS, Chemistry
  - BA, Divinity
- Deric Davis
  - BS, Mechanical Engineering
  - BS, Mathematics
- Denise Bradford
  - PhD Candidate, Statistics & Data Science
  - MS, Statistics
  - BS, Statistics
- Sarah Perkins
  - BA, Economics
- Jasmine Kearse
  - MS, Integrated Marketing Communications
  - BA, Sociology
- Will Tarver III
  - BS, Architecture
- Jehuti Willis
  - BS, Mechanical Engineering



Solar Powered



Greenhouse  
on Wheels



# Our Original Revitalize Coalition Plans

- Revitalize Our Communities Inc.
- Westlake High School in southwest Atlanta
- Georgia State University



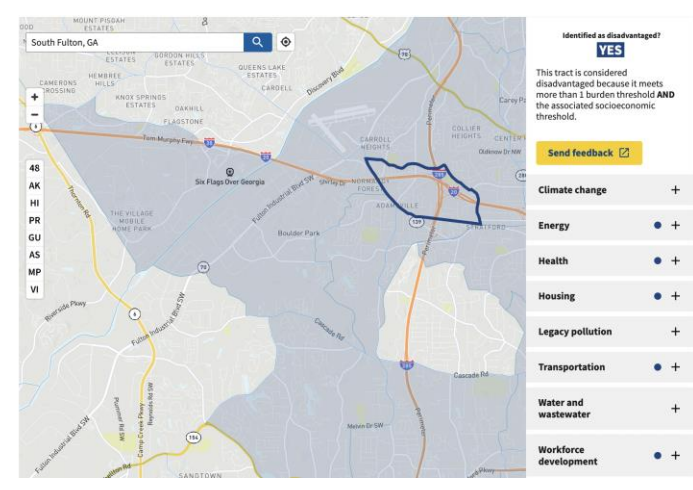
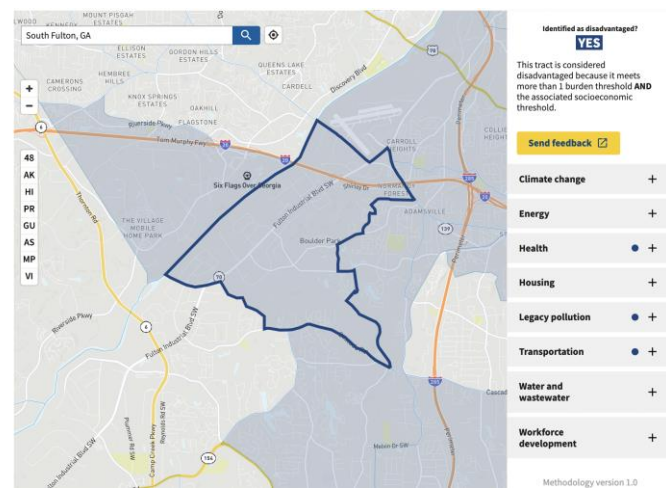
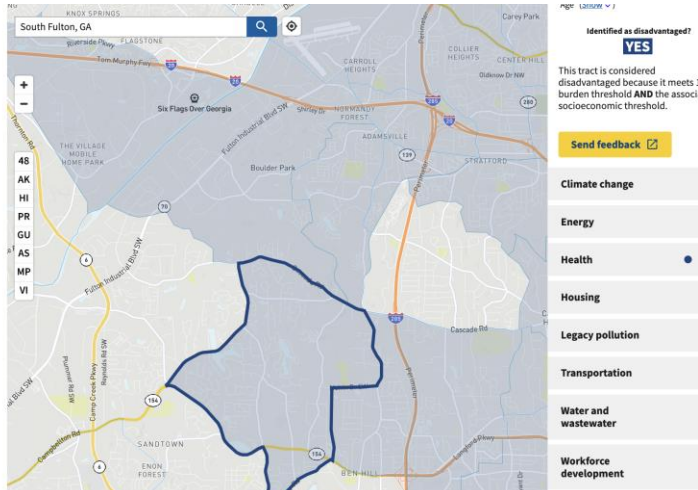
Hydroponics



PV Solar Installer Certification

# Westlake High School Community Challenges as defined by the US Government Climate and Economic Justice Map

- Affordable Housing
- Affordable Energy
- Legacy Pollution
- Health
- Transportation
- Workforce Development



# Justice 40 Priorities

Focused on

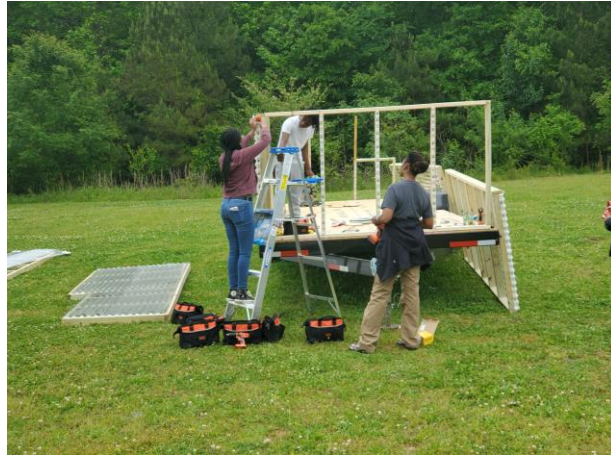
6. Increase clean energy jobs, job pipeline, and job training for individuals from DACs.
8. Increase energy democracy in DACs.



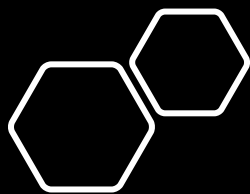
# A Story About Tameia



# Tameia's Revitalize Story in Pictures







# Preparing and Supporting high school students to get PV Solar Installer Certified



**SOLAR ENERGY INTERNATIONAL**  
Educate. Engage. Empower.

TRAINING & CERTIFICATION | CONTRACT SERVICES | STUDENTS & ALUMNI | OUR GLOBAL IMPACT | PF

**NABCEP PV Associate Exam Prep Package**  
US\$1,595.00

**PV01101: Solar Electric Design & Installation (Grid-Direct) - Online**  
Available options:  
Choose an option

**PV01203: PV System Fundamentals (Battery-Based) - Online**  
Available options:  
Choose an option

**PV Associate Exam - Computer Based**

**SOLAR ENERGY INTERNATIONAL**

## 2022 MILESTONES

 <b>9,200+</b> Students Trained	 <b>\$160,000</b> In Scholarship Funds Awarded	 <b>149</b> Countries Served
---------------------------------------	--	------------------------------------

# Our Original Summary

- Activities

- Implement Saturday, summer, and after school programs where STEM underrepresented high school youth apply design thinking and STEAM to design, build and implement an 8 ft x 24 ft solar powered hydroponic greenhouse on wheels
- Transport the greenhouse to elementary and middle schools, and community events to execute a set of sustainability workshops related to solar energy, energy conservation, and clean energy job awareness
- Develop website and youtube channel with online videos with computational music to further expand awareness both within and outside the South Fulton community promoted through social media
- Prepare and support high school youth underrepresented in STEM to pass the NABCEP associate level PV solar installer certification exam

- Metrics

- Complete the solar powered greenhouse in February 2023 and provide at least 50 lbs. of vegetables to the south Fulton Atlanta Community food bank in April 2023 expanding to 500 lbs. the 2023-2024 school year
- Prototype middle and elementary school clean energy workshops with 100 students in May 2023, implement a clean energy summer camp for middle school students in June 2023 and expand the workshops to over 1000 students per year in the 2023-2024 school year
- Expand the program to another school in September 2023 and have at least ten high school youth, who are underrepresented in STEM, pass NABCEP associate level PV solar installer exam by September 2024



# Challenges and Changes

## Challenges

- School Fires
- Family Losses



## Changes

- Tarps in Storage Room
- Engineer and Master Gardener Alumni Mentors

# Our Expanded Revitalize Coalitions



Solar Powered

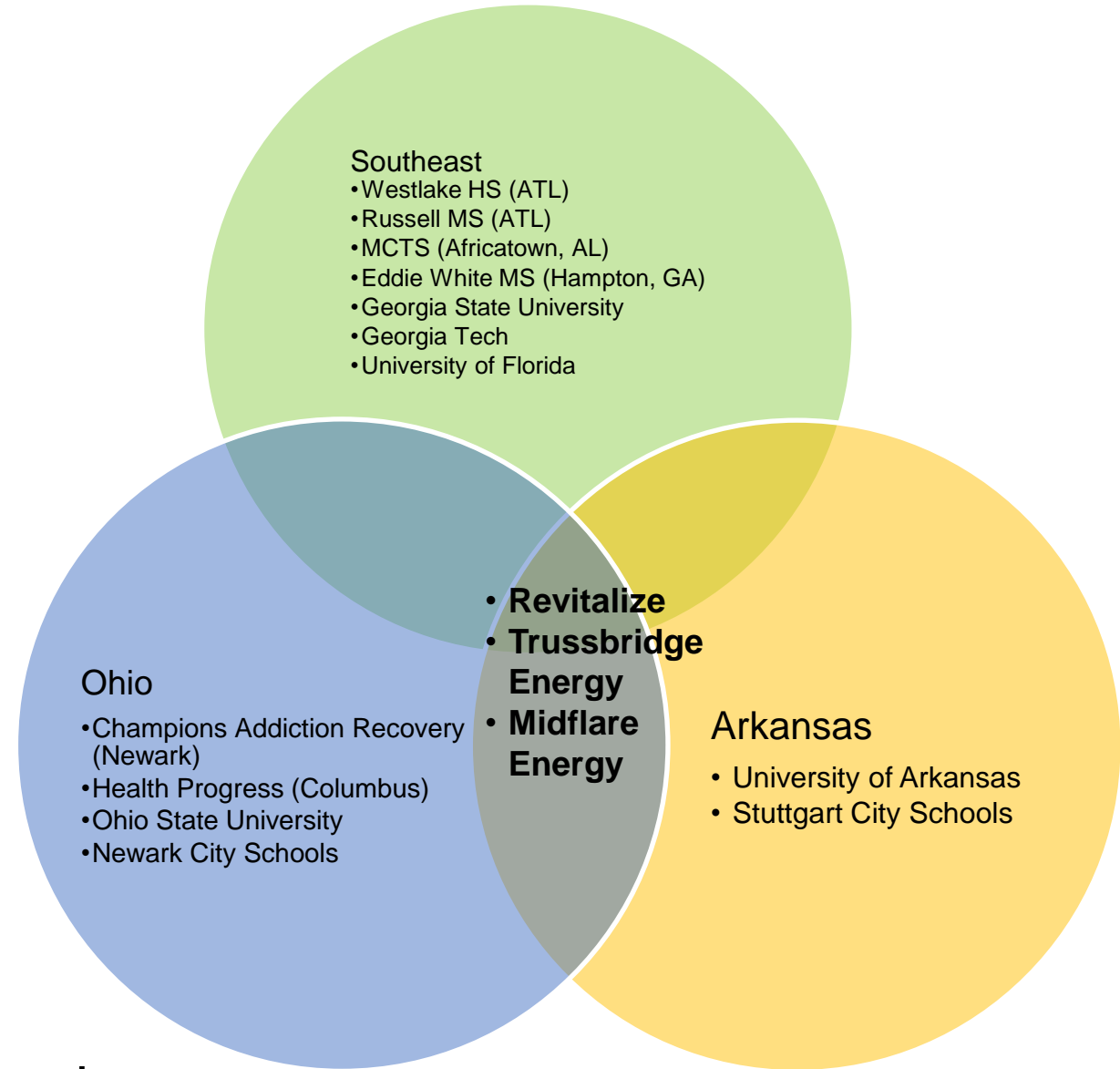
Greenhouse on Wheels



Hydroponics



PV Solar Installer Certification



**Southeast**

- Westlake HS (ATL)
- Russell MS (ATL)
- MCTS (Africatown, AL)
- Eddie White MS (Hampton, GA)
- Georgia State University
- Georgia Tech
- University of Florida

**Ohio**

- Champions Addiction Recovery (Newark)
- Health Progress (Columbus)
- Ohio State University
- Newark City Schools

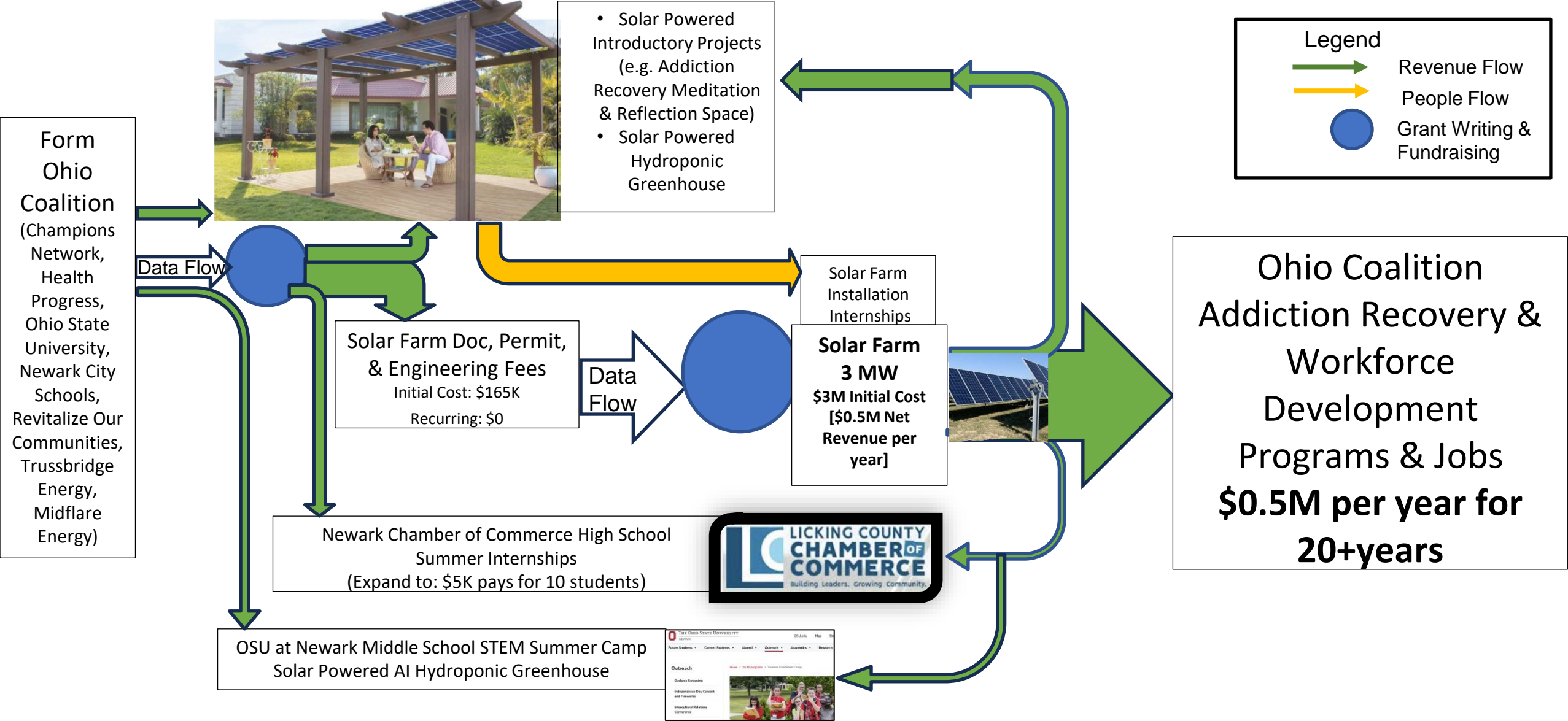
**Arkansas**

- University of Arkansas
- Stuttgart City Schools

- **Revitalize Energy**
- **Trussbridge Energy**
- **Midflare Energy**

# Our Expanded Coalition Plans (2024-2027)

## Ohio Example



# Revitalize Coalitions Expanded Justice 40 Priorities

- Decrease energy burden in disadvantaged communities (DACs).
- Decrease environmental exposure and burdens for DACs
- Increase parity in clean energy technology (e.g., solar, storage) access and adoption in DACs.
- Increase clean energy enterprise creation and contracting (MBE/DBE) in DACs.
- Increase clean energy jobs, job pipeline, and job training for individuals from DACs.
- Increase energy resiliency in DACs.
- Increase energy democracy in DACs.





# Dr. Lauren Russell (Revitalize's Vice Co-Chair) Testimonial: Impact of High School Programs

## High School Programs

- Solar Oven in Arusha, Tanzania
- Georgia Tech CEISMC Civil Engineering Summer Camp
- President of Westlake High School Engineers Without Borders

## Skills Developed

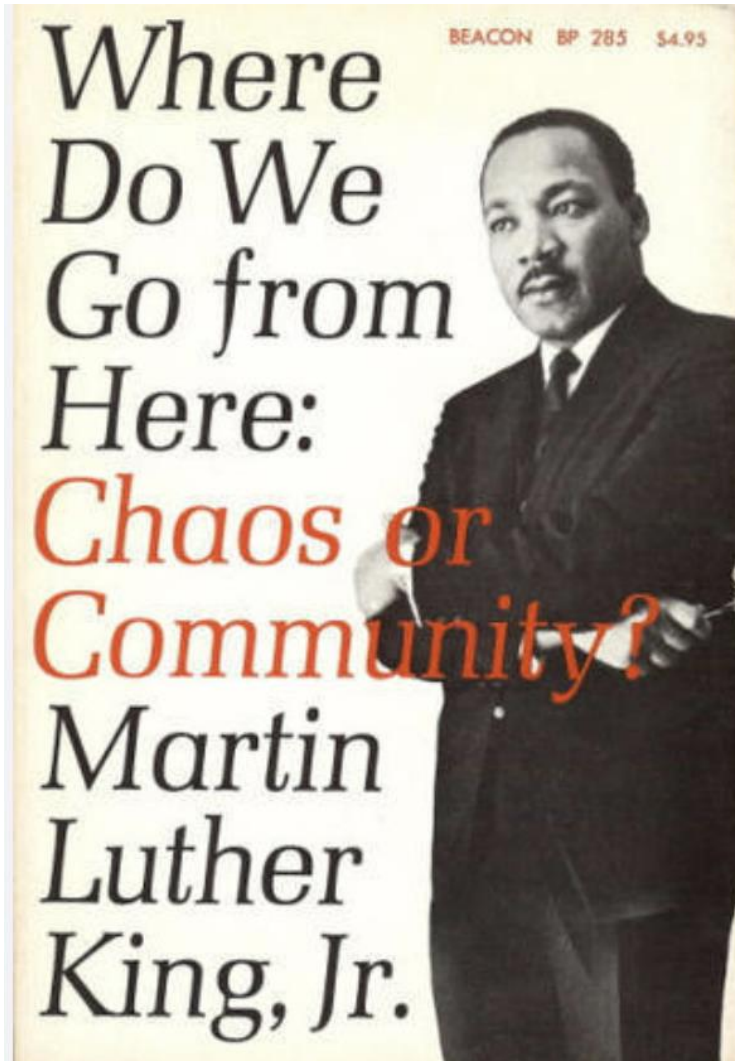
- Creating solutions that are sustainable and tailored for the communities for which they are intended
- Fostering community at every level (mentors, peers, mentees)
- Knowledge of historically marginalized communities

## Results

- Undergrad: Harvard University (BA) Classics with Economics Minor
- Graduate School: Duke University (MA) and Harvard University (PhD) in Economics
- Research Interests: US racial inequality with a focus on the criminal legal system and labor markets
- Career: Economist at Federal Reserve Board of Governors



# We Choose Community !!!





## New Orleans Clean Energy Collective

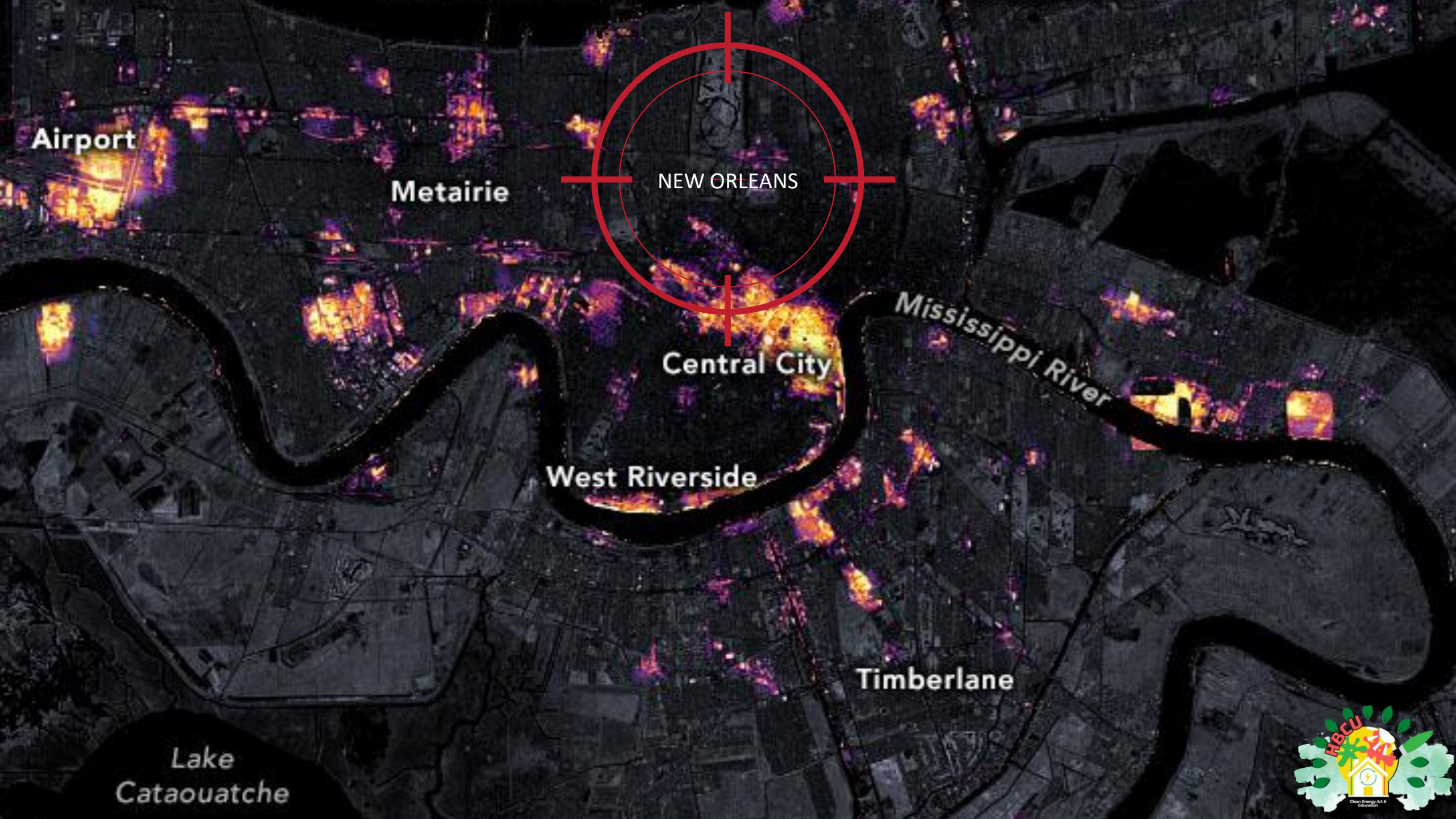
New Orleans, Louisiana



# NOLA CLEAN ENERGY COLLECTIVE

Clean Energy  
Art & Education





Airport

Metairie

NEW ORLEANS

Central City

West Riverside

Mississippi River

Timberlane

Lake  
Cataouatche



# COLLECTIVE MISSION

The mission of the **NOLA Clean Energy Collective** is to empower underserved communities, K-12 and HBCU students to increase their **knowledge** of clean energy, strengthen **engagement** in their communities and adopt **sustainable practices**.



# OUR PROJECT & PROGRAM



K-2ND  
GRADE

Built wind-powered  
Apparatus



3RD-5TH GRADE

Used solar energy to  
brew tea



6TH-8TH GRADE

Assembled electric  
generated wind turbines



HIGH SCHOOL-  
COLLEGE

Showcased clean energy  
through art



# JUSTICE40 POLICY PRIORITIES

#3

Increase parity in clean energy technology access and adoption in disadvantaged communities



#6

Increase clean energy jobs, job pipelines, and job training for individuals from disadvantaged communities



#8

Increase energy democracy (stakeholder engagement to facilitate decision-making) in disadvantaged communities



# OUR RESULTS & IMPACT

10%



**Confidence in  
Clean Energy**

90



**94%**



# OUR VISION

---

Establish a clean energy curriculum to educate students at all levels on sustainability and renewable energy principles

## CONTACT US

---

NOLA Clean Energy  
Collective Lead



504-520-7326



[Hrobins4@xula.edu](mailto:Hrobins4@xula.edu)





## Missoula's Clean Energy Workforce Coalition

Missoula, Montana

# Missoula's Clean Energy Workforce Coalition



A new coalition working to build *clean energy pathways for and with low-income women and women of color*, while helping employers create more *gender-inclusive and caregiver-friendly* workplaces.









📶 </>  
06:54

# Missoula, Montana, Grapples With A Housing Affordability Crisis

## Nowhere to go: Missoula leaders look to address housing crisis

Up Next - RELATED NEWS: - Rats the size of AK-47s and gr...

by Cameron Evans

04.08.2022



### ECONOMY

# Is Missoula's housing market really becoming 'the next San Francisco'?



## Long-term, Wrap-around, Two-generation Care

**20%**

Indigenous

**80%**

single parents

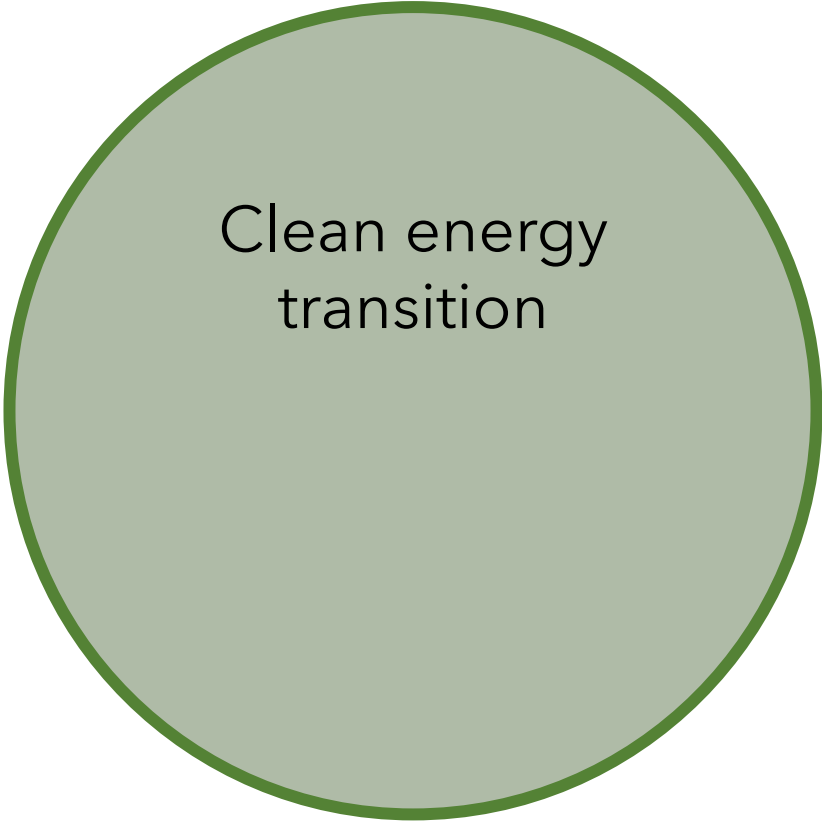
**100%**

at risk of homelessness

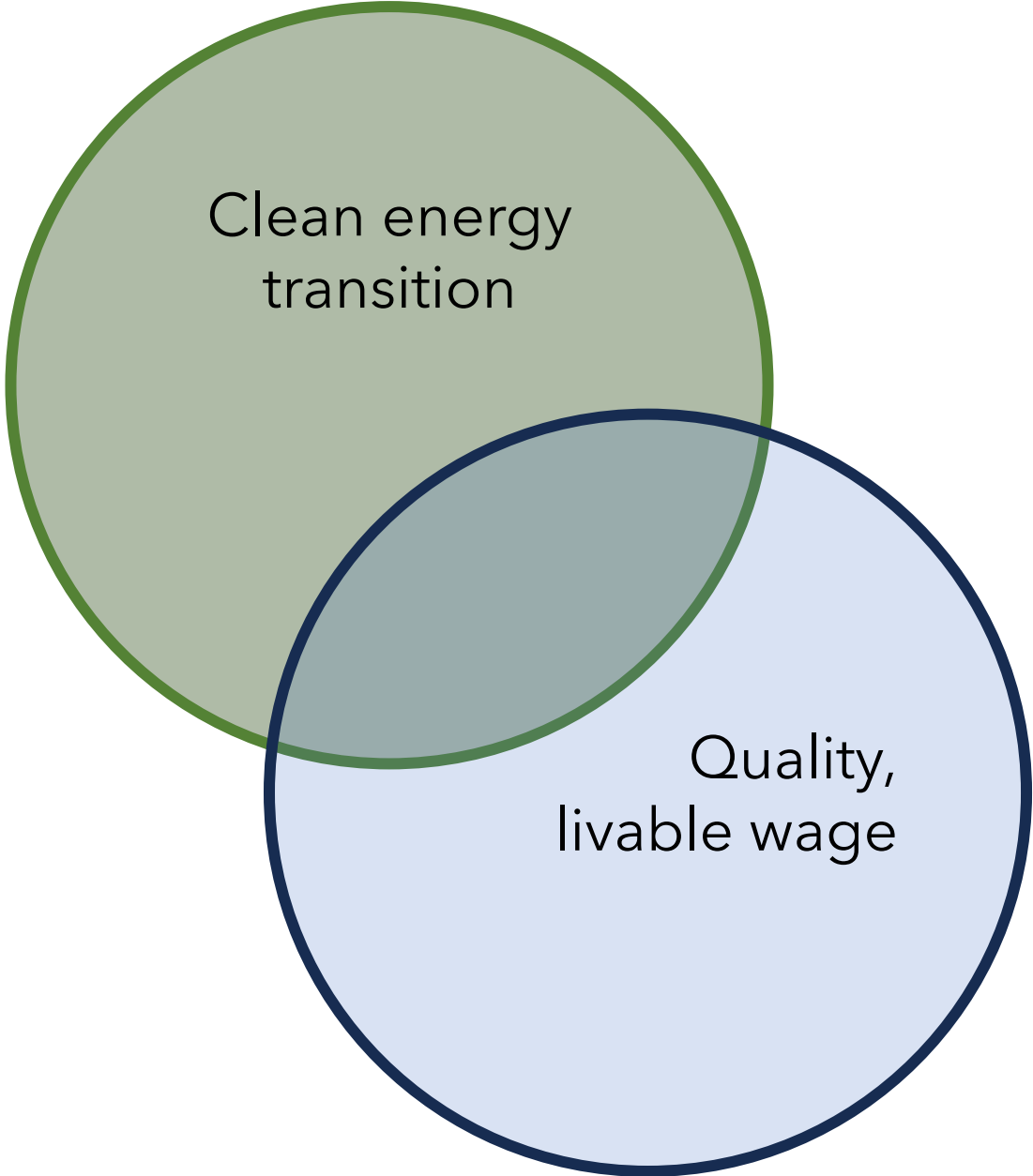
# Phase 1 | Understand and strengthen





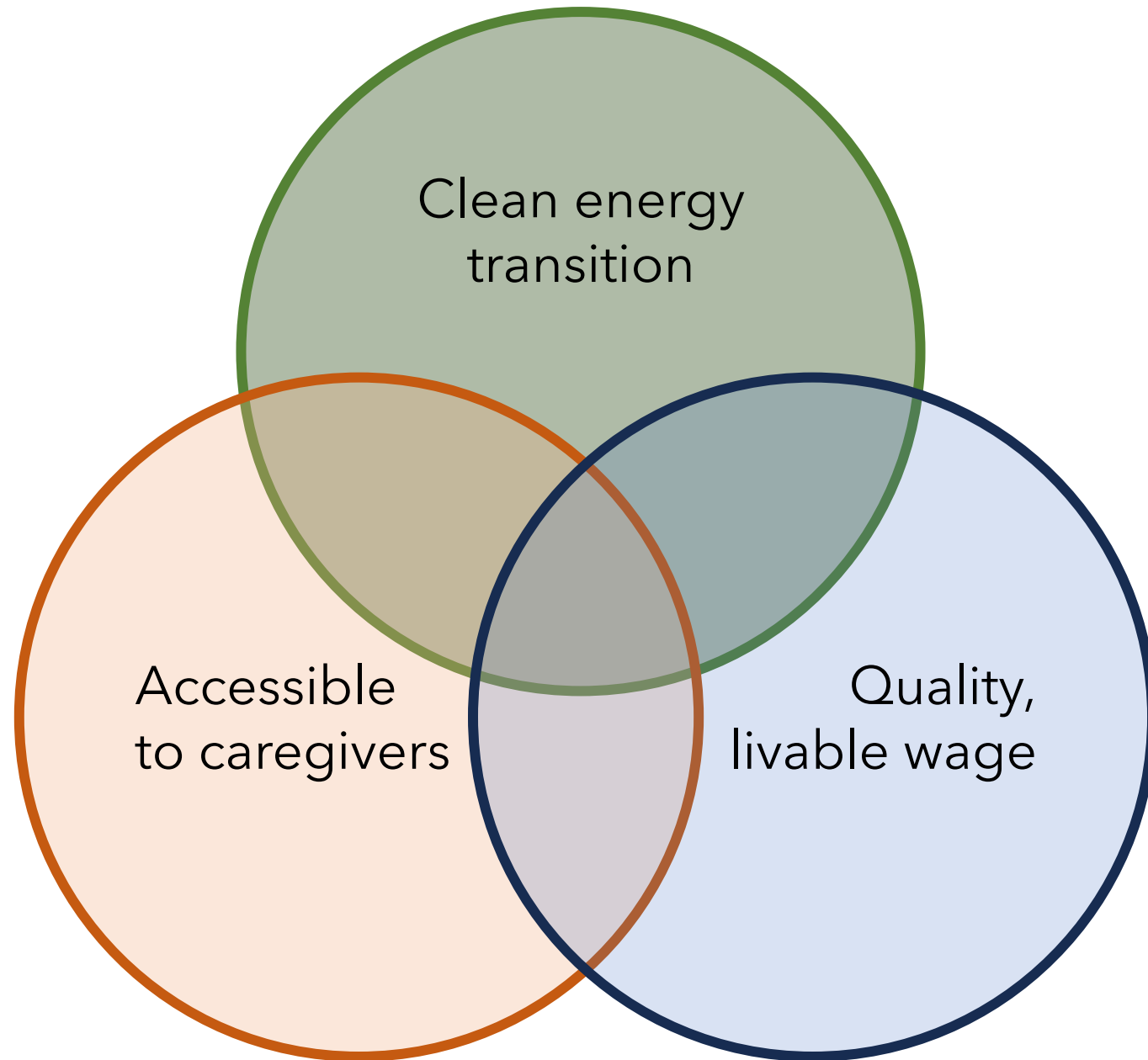


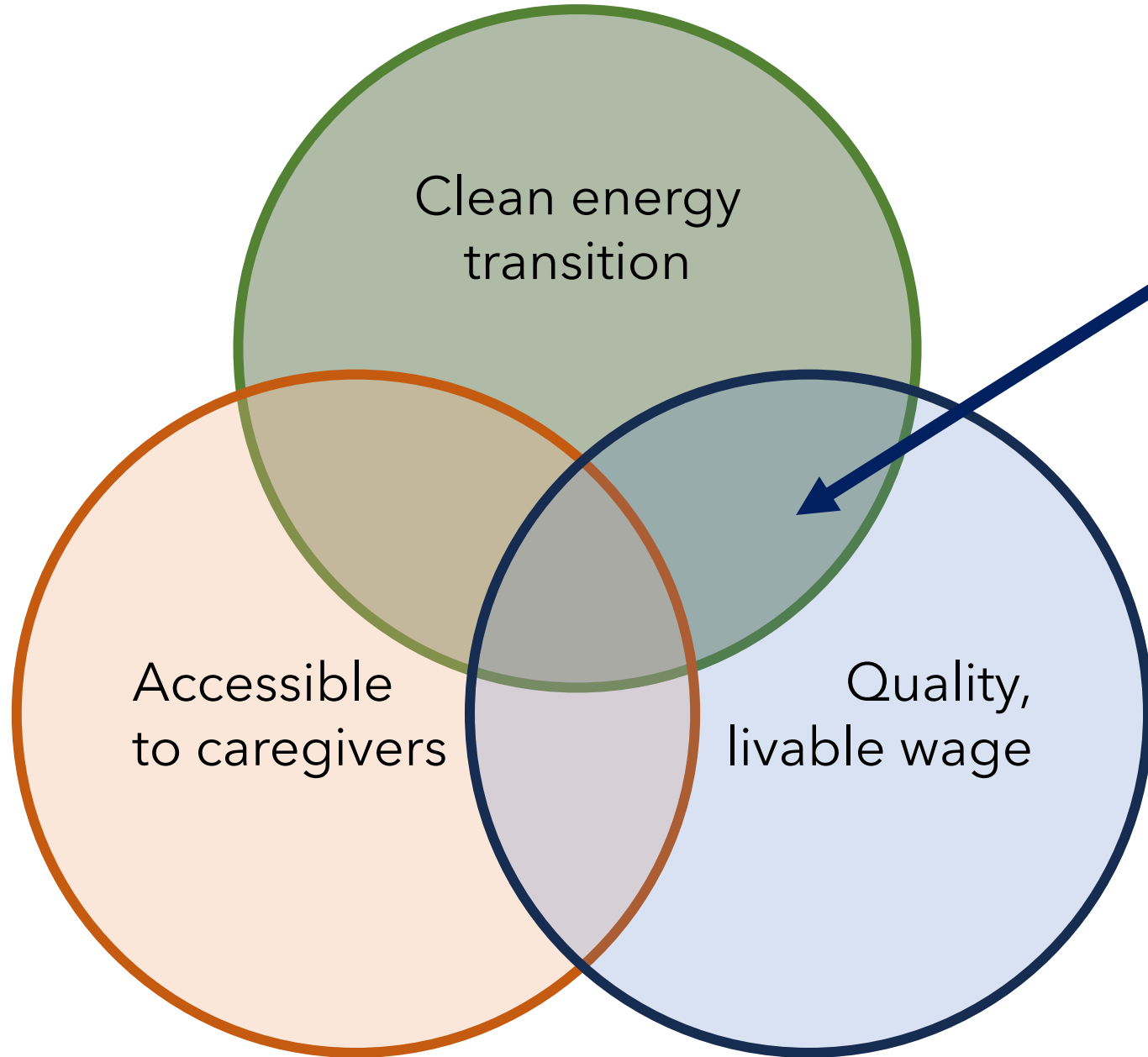
Clean energy  
transition



Clean energy  
transition

Quality,  
livable wage





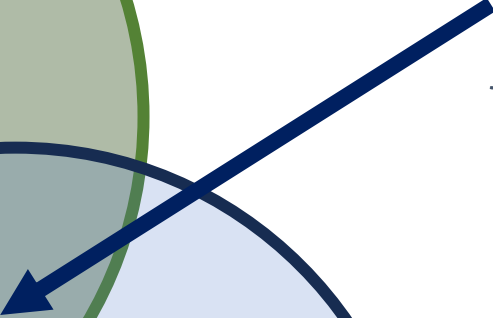
Clean energy transition

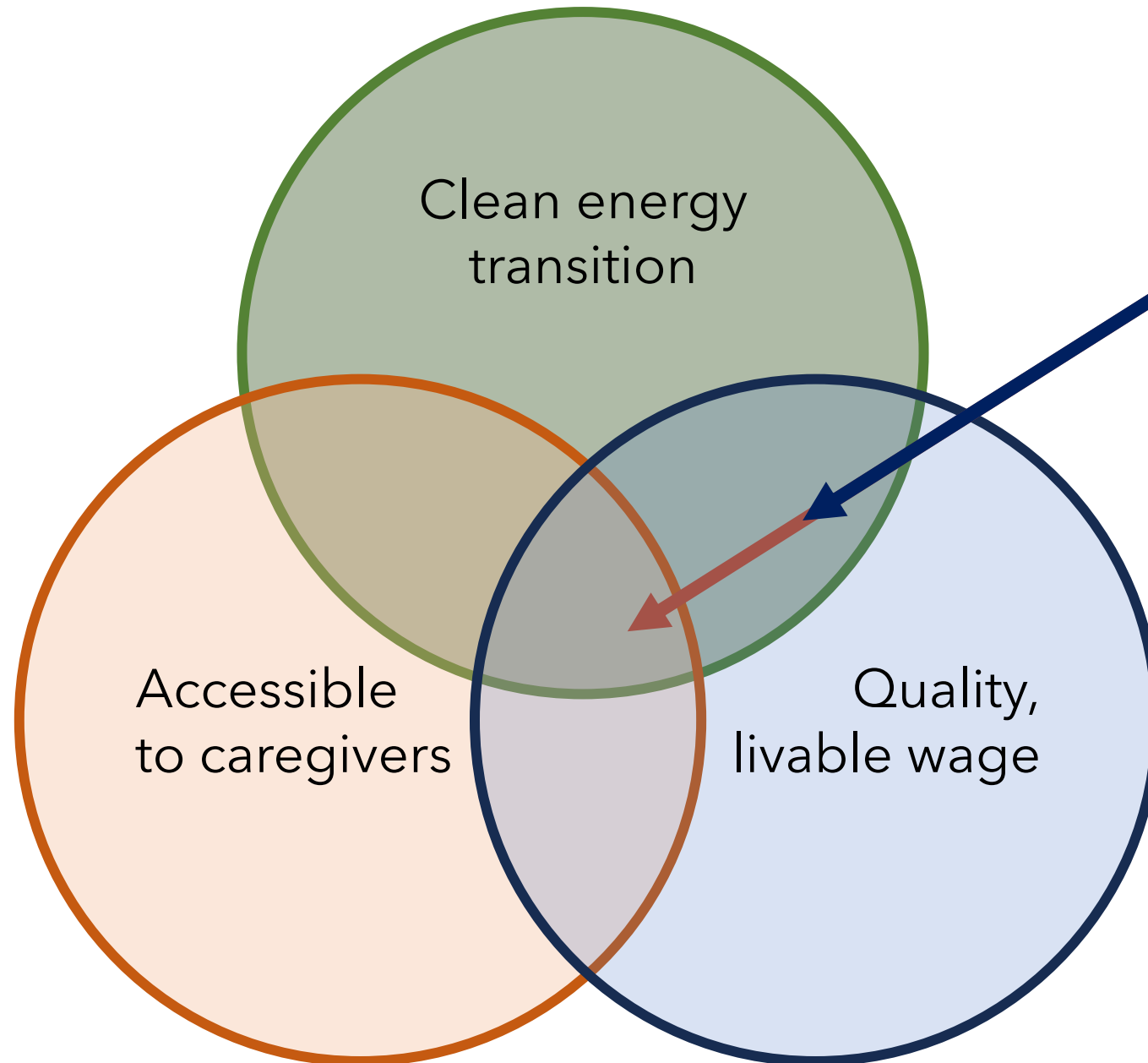
Accessible to caregivers

Quality, livable wage

**1100**

job openings / year





**1100**

job openings / year

*if we can provide ample support*

# Phase 2 | Test solutions





DEPARTMENT OF LABOR



# MISSOULA JOINS LABOR DEPARTMENT TO HELP TRAIN AND EMPLOY WOMEN



Peter Christian | Published: August 3, 2023

Photo Courtesy of the City of Missoula



# Initial Progress + Results

**5**

pathway awareness  
workshops

**40**

participants

**67**

% of attendees  
interested in more

**64**

partner  
conversations

**2X**

core  
coalition

**5**

funding  
opportunities



**Tradeswoman  
Alliance**

**Curriculum  
Development**

**Soft Skills Training**

**All-Women Cohort**

**Employer Council**





## HBCU Community Development Action Coalition

Denmark, South Carolina; Orangeburg, South Carolina;  
New Orleans, Louisiana



# HBCU CDAC

Community Development Action Coalition

HBCU Green Town Project™

Creating Renewable Energy Pathways and Futures





Community Clean Energy Coalition Prize



Participating HBCUs



DILLARD  
UNIVERSITY



Creating Renewable Energy Pathways and Futures





# Private Sector Partners



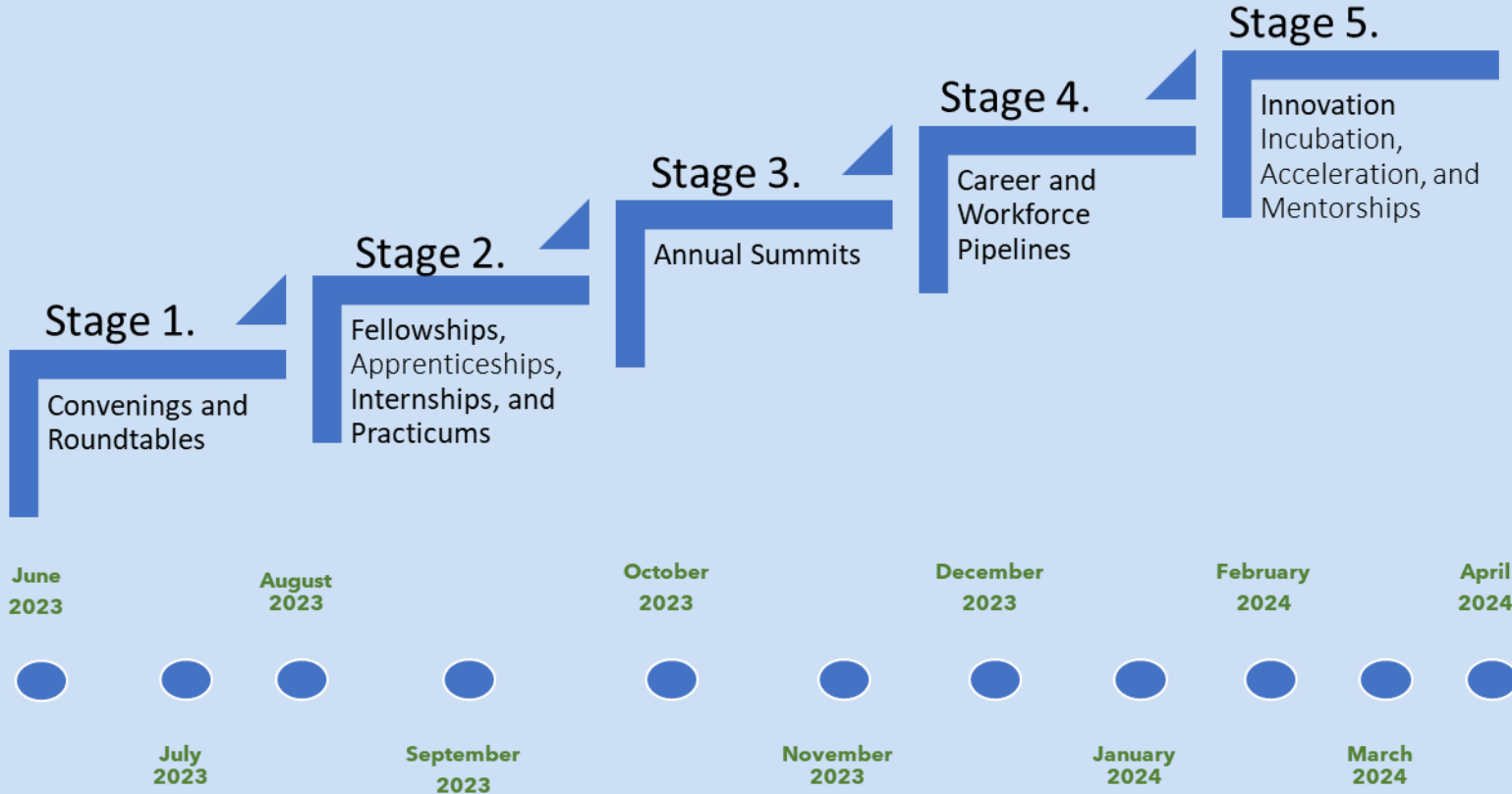
**SECOND LIFE SMART SYSTEM (SMART)**  
 A coast-to-coast long duration energy storage demonstration led by Smartville, at low-income communities and historically black universities

**smartville 360**  
 Integrated 2nd life battery ESS

**smartville**  
 ORANGEBURG, SC  
 DENMARK, SC  
 ATLANTA, GA  
 NEW ORLEANS, LA

Logos for partners: OCED, JBM, SBC, CDAC, Southern Company, and others.





Marketplace Opportunities For Researchers, Innovators, and Entrepreneurs of Color

Journey Towards Inclusive Research and Innovation

*CDAC Research and Innovation Roundtable Discussions* | *HBCU Economic Empowerment Energy Summit* | *Bridging and Accelerating Career Pathways For Underrepresented Communities in the Energy Industry* | *Clean Tech Transfer Institutes*

Network of MSIs alongside Federal, State, and Industry Partners

## HBCUs AND MSIs CAMPUS AND COMMUNITY ENGAGEMENT MODEL

Regional Clean Energy Roundtables,  
Property Assessments, and Demonstration Projects



Network of Participating HBCUs and MSIs

Sponsored through Philanthropic  
Contributions, Private Sector Partnerships,  
and Governmental, and Nonprofit Collaborations

Presidents and chancellors, Finance Directors, and other Executive Council Members  
Alongside Deans and Directors

Facility  
Managers

Program Area  
Faculty and Staff

Career Services  
Professionals

Government  
Partners

Industry  
Partners

Home and Commercial  
Property Owners

LEADERSHIP AND PROJECT TEAMS

INTER-DISCIPLINAIREY APPROACH TO STUDENTS INVOLVEMENT

PROJECT AND INITIATIVES

1) Campus-Base Clean  
Energy Demonstrations,  
Retrofits, and Installation

2) Clean Energy  
Student Ambassador and  
Faculty Schlarls

3) Workforce Development  
and Career Placement  
Opportunities within the  
Green Economy

4) Energy-Related  
Multidisciplinary Entrepreneurial  
Programs and Initiatives

5) Host Community and Commercial  
Clean Energy Demonstrations,  
Retrofits, and Installation

Inform, Engage, and Partner with HBCUs, MSIs, and Host Communities Across The Five Strategic Areas Listed Above

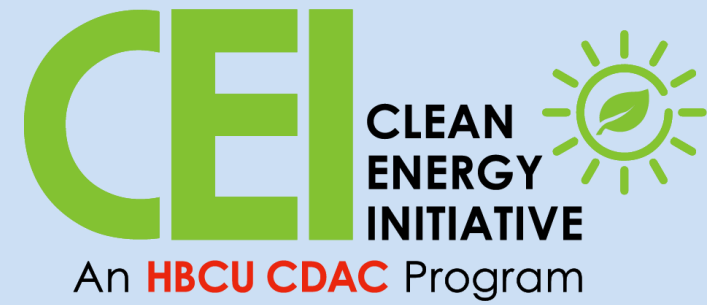
# Primary Contacts



Karen Soares  
[Ksoares@cleanenergy.org](mailto:Ksoares@cleanenergy.org)



Henry Golatt  
[hgolatt@hbcucoalition.org](mailto:hgolatt@hbcucoalition.org)



## Asociación de Residentes de La Margarita

Salinas, Puerto Rico



# *Community Clean Energy Coalition Prize: Energy Modernization for Equity via Renewables*



**La Asociación de Residentes La Margarita at Salinas, Puerto Rico**  
Jessica M. Rodríguez-Ríos  
Wanda J. Ríos-Colorado

# Community Profile

- Located at Salinas, Puerto Rico.
- 314 houses.
- Climate and Economics Justice Screening Tool indicates that La Margarita is identified as disadvantaged community due to low income and Projected flood risk.



# Community Profile

- Senior people
- Medical conditions
- Low and middle income



## Main threats:

- Recurring Flooding Events
- Power outages
- Hurricanes





**For that reason, we took the challenge of the  
Community Clean Energy Coalition Prize.**

**We empower our community to become a resilient  
community.**

# Our coalition's members

- Since phase 1 we started recruiting coalition members.

Cooperativa de Energía La Margarita  
Abeynocoop energy coop.



Municipality of Salinas, P.R



# Our coalition's members



**Cooperativa  
Hidroeléctrica  
de la Montaña**



CAPITAL DEL MAR CARIBE  
HON. KARILYN BONILLA COLÓN, ALCALDESA



**SaliCoop**  
Cooperativa de Salinas



**FIDECOOP**  
FONDO DE INVERSIÓN Y DESARROLLO COOPERATIVO



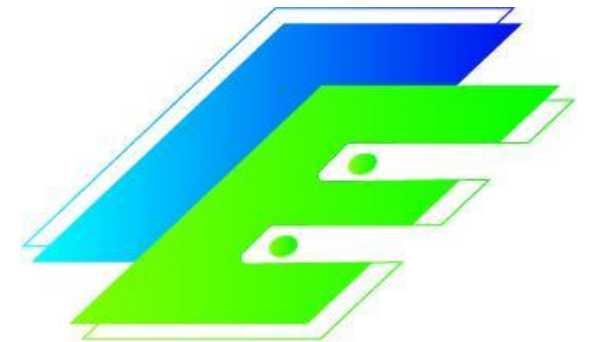
**FUNDACIÓN COMUNITARIA  
DE PUERTO RICO**



*Fundación Borincana*



**EarthSpark**  
INTERNATIONAL



**RADICAL  
ENERGETICS**

**The mission  
of our  
coalition**

**To provide renewable and resilient energy systems for eligible homes in our disadvantaged community.**

# SMART Goals

**1**

**Install one photovoltaic system (PV) with storage in the community center during the first year.**

**2**

**Install rooftop PV system with storage, in 50 houses within 2 years. These system will be net metering.**

**3**

**Increase the number of houses with access to onsite renewable electricity generation capacity from 10% to 30% within 2 years.**

# Justice40 Initiative

**1**

**Decreasing energy burden.**

**2**

**Increasing energy resiliency in disadvantaged communities.**

# Achievements from SMART Goal 1

- Photovoltaics systems with storage was installed in the Community Center  
Resilience hub



# Achievements from SMART Goal 2

- Five PV systems with storage are already installed. (Pilot Plan Completed)
- Two more PV systems on progress.
- 31,646 kWh will be produced by clean energy with less Carbon Dioxide emission.



PV = Photovoltaic systems



# Achievements

- Shared our knowledge with other communities in Puerto Rico.



# Achievements

- Decrease energy bill.
  - ✓ Bill prior modernization: \$134.79
  - ✓ Bill after modernization: \$ 3.00

97.78% reduction  
in  
energy cost!



## Su factura de electricidad

Para el periodo del 7 de abril de 2022 al 10 de mayo de 2022



**Consejo Para Ahorrar Energía:** Compra bombillas que cumplen con reglas estrictas de eficiencia energética de los Estados Unidos.

CANTIDAD TOTAL ADEUDADA

\$134.79

FECHA DE VENCIMIENTO



## Su factura de electricidad

Para el periodo del 9 de octubre de 2023 al 9 de noviembre de 2023



**Consejo Para Ahorrar Energía:** ¿Sabía que el hogar promedio puede ahorrar hasta un 10% en costos de energía al reemplazar sus bombillas viejas por luces LED más eficientes?

CANTIDAD TOTAL ADEUDADA

\$3.00

FECHA DE VENCIMIENTO

12 dic 2023

# Current Projects

- La Margarita has been selected as one of five communities to enter negotiations with the U.S. DoE to receive funding from the Puerto Rico Energy Resilience Fund (PR-ERF).



- 75 kVA, 4000/120-240VAC, ground mount transformer
- 4000/120-240VAC, pole mount transformer (25, 50, 75 kVA or combo)



# Vision and Future Plans

- Continue to submit funding request to install systems to the rest of the community within 5 years.
- Create a smart microgrid that will include the rest of the community and the industrial park.

1



2

50

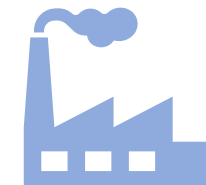


3

Rest of the community



Industrial Park



Microgrid





“Big transformations can start  
with small beginnings!”

Thanks!



# Video Greeting from Mayor Andre Dickens, City of Atlanta, Georgia



## RebuildATL Coalition

Atlanta, Georgia



# ReBuild

ReBuildATL Coalition Atlanta, Georgia



**Department of Energy  
Community Clean Energy Coalition Summit**

December 6-7, 2023

### WORKFORCE TRAINING & EMPLOYMENT

### COALITION DEVELOPMENT & CAPACITY BUILDING

### COMMUNITY OUTREACH, EDUCATION & AWARENESS BUILDING

### WEATHERIZATION, ENERGY-EFFICIENCY UPGRADES & COMMUNITY-SCALE SOLAR

### WORKFORCE TRAINING & EMPLOYMENT

### COALITION DEVELOPMENT & CAPACITY BUILDING

### COMMUNITY OUTREACH, EDUCATION & AWARENESS BUILDING

### WEATHERIZATION, ENERGY-EFFICIENCY UPGRADES & COMMUNITY-SCALE SOLAR

### COALITION DEVELOPMENT & CAPACITY BUILDING

### WEATHERIZATION, ENERGY-EFFICIENCY UPGRADES & COMMUNITY-SCALE SOLAR



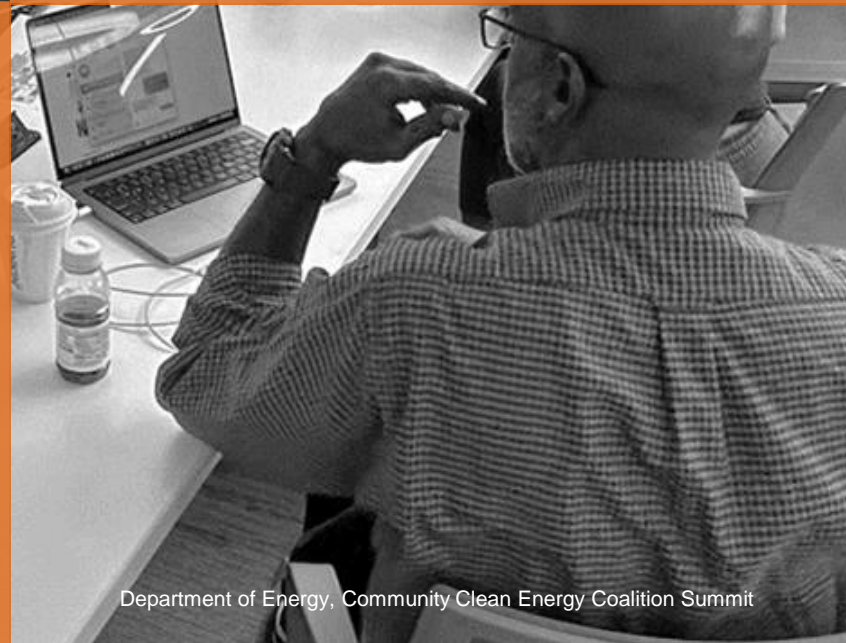
## Local History, Assets and Knowledge

Build on local assets and prioritize intergenerational teaching and learning, incorporating the ancestral knowledge of legacy residents related to community-building, self-reliance



## Community Impact

Support communities in shaping their own lives, economies, and futures



## Network and Organizational Impact

Build relationships of trust and shared values, that leverage our strengths and build the capacities and capabilities of each member organization and our network as a whole

## City of Atlanta

[within context of 29 Metro Atlanta counties]



# 21.6%

RESIDENTS in POVERTY  
City of Atlanta Data Points

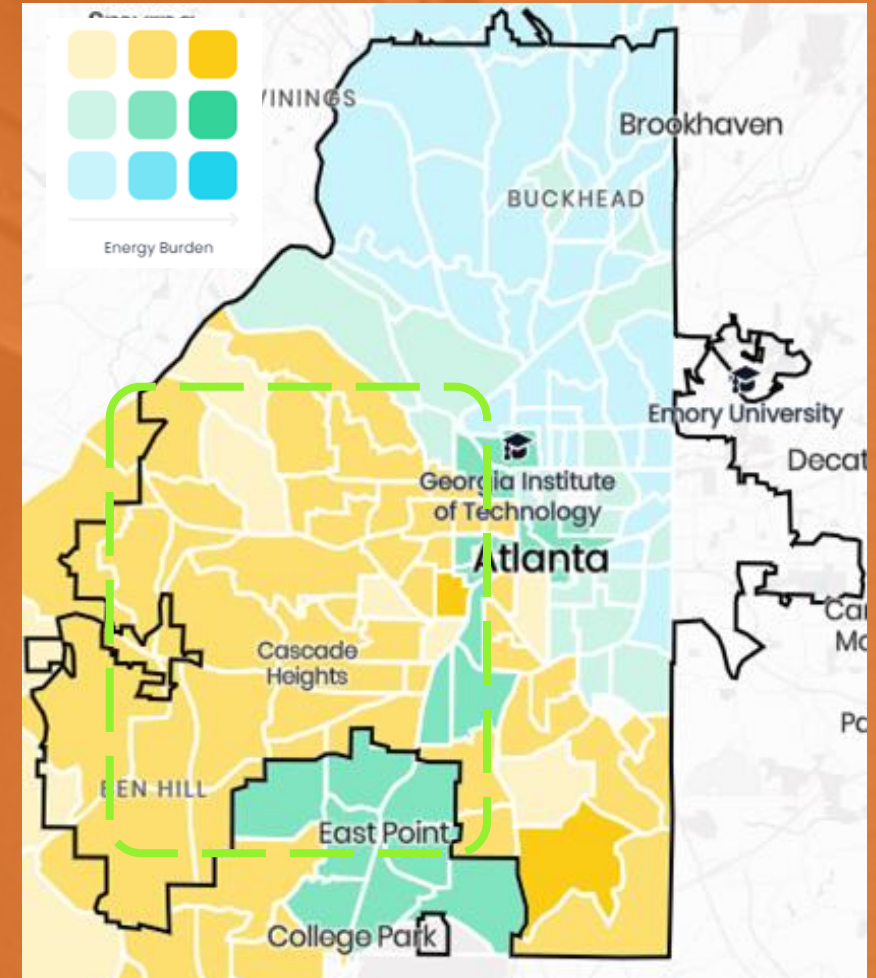
# 4.3%

% of RESIDENTS  
UNEMPLOYMENT  
Metro Atlanta Data Points

# 16-18%

HIGHEST ENERGY  
BURDENS  
City of Atlanta Data Points

## Westside Atlanta Communities



## **J40 #1 - Decreasing energy burden**

Metro Atlanta to Savannah Green Healthy Homes Initiative / MAS-GHHI - (Ayika Solutions, West Atlanta Watershed Alliance / WAWA); City of Atlanta WeatheRISE ATL program

## **J40 #3 - Increasing parity in clean energy technology access and adoption**

Atlanta Clean Energy Advisory Board; Community Electrification Program - Energy Meters; Center for Sustainable Communities (CSC) Energy Equity Tool

## **J40 #5 - Increasing clean energy enterprise creation and contracting**

MAS-GHHI, CSC Southeast Energy Education Initiative (energy education, youth engagement); Grove Park Foundation (GPF) GEFA Weatherization Program contracted agency partnership

## **J40 #6 - Increasing clean energy jobs, pipelines, and training**

Lifecycle Building Center/WAWA/GPF/CSC Breaking Barriers workforce training program

## **J40 #8 - Increasing energy democracy**

CSC HeroX Community Solar Prize Accelerator (training for community-scale solar project deployment)



# Coalition Progress Timeline





**20** - Enrolled Deconstruction Trainees

**12** - Graduates

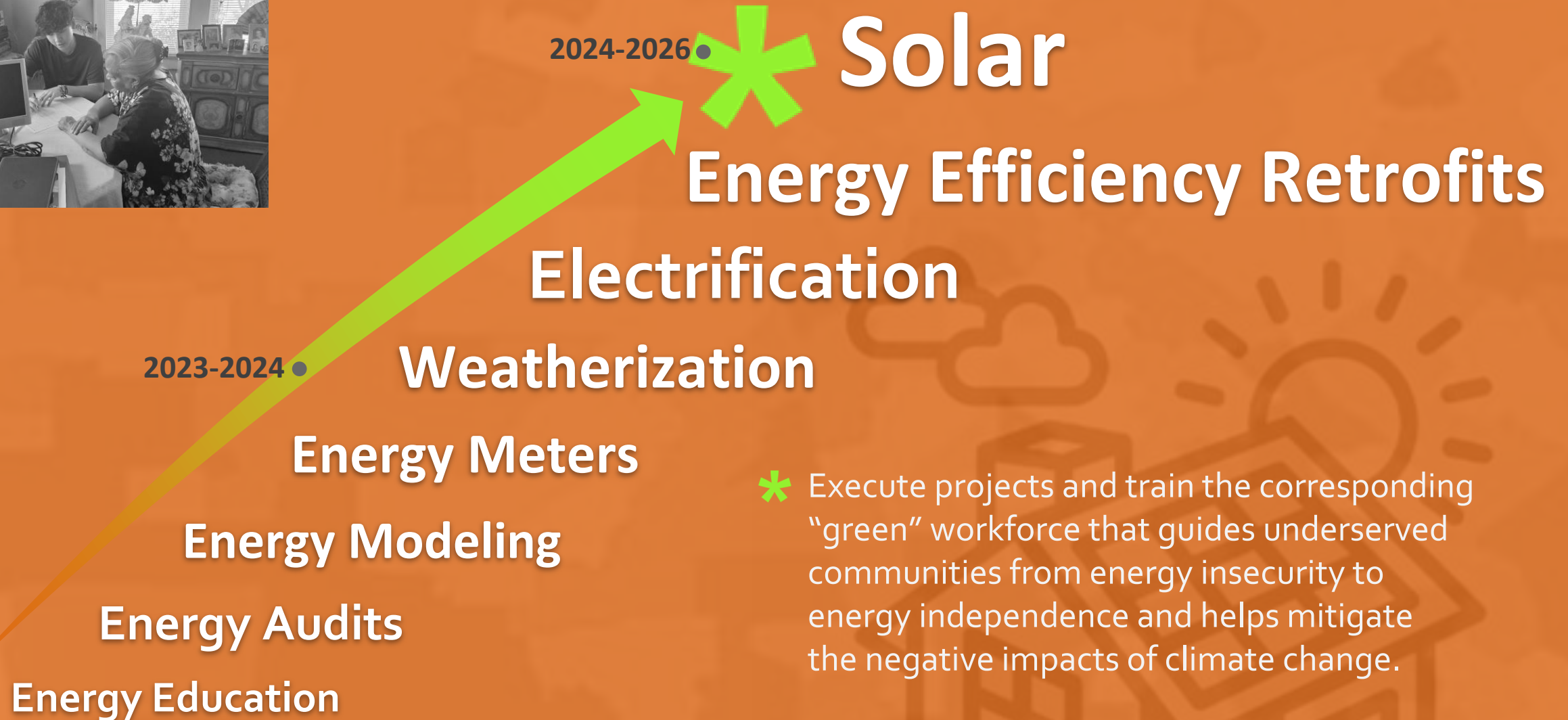
**60%** - Success Rate

Deconstruction Training, Home Energy-Efficiency Training, Financial Literacy & Soft Skills Boot Camp

## “Breaking Barriers” Deconstruction Program

Provides training and job placement assistance for unemployed and underemployed residents in disadvantaged communities for new clean energy jobs. Supports DOE Justice40 priority #6: Increasing clean energy jobs, pipelines, and training.





**1000** Residents



Build community engagement and energy education

**200** Trainees (Deconstruction / Energy-Related Training)



Deconstruction and energy efficiency workforce training

**200** Energy Audits



Build capacity to decrease energy burden

- Comprehensive Home Energy Audits
- Owner Occupied Homeowner and LMI Renter Weatherizations

**300** Weatherizations

**100** Energy Metered Homes



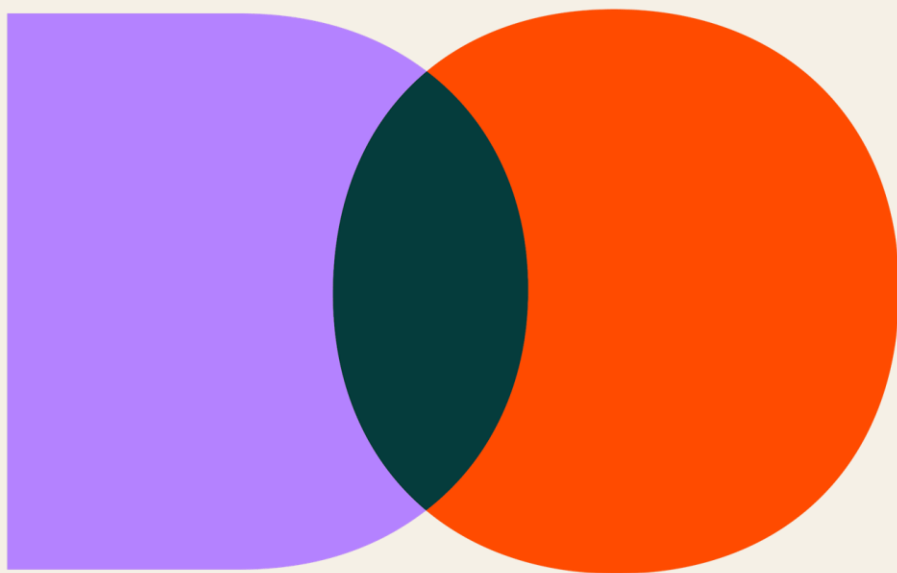
New energy innovation implementations for reducing home energy costs

- Energy Modeling and Meters for Diagnostics

## Dream Entrepreneurs Network

Fresno, California; Washington DC;

Miami, Florida; and more!



**DREAM**  
**.ORG**

# Our Mission Statement



**Kasheef Wyzard**  
National Director

**At Dream.Org we close prison doors and open doors of opportunity into the green economy. We bring people together across racial, social, and partisan lines to create a future with freedom, dignity and opportunity for all.**

# The Current Moment and it's Challenges

Communities of color are most burdened by the impact by pollution. IRA (Inflation Reduction Act) and the Justice40 Initiative provide an unprecedented moment to transform these communities to be better health and resiliency hubs!

## **Barriers to an Equitable Transition**

### **Pipeline of BIPOC Climate Tech Founders**

- Those closest to the problems have the best solutions!

### **Access to Funding to Stand-Up Infrastructure Projects**

- BIPOC Founders are historically underfunded

### **Community Engagement**

- Negative impact on trust and climate solution adaptation

# Solution 1: Coalition Building



Coalition Name: **Dream Entrepreneurs Network**

This project centers on the Dream Entrepreneurs Network (formerly the Dream.Org Green For All Business Council) which is made up of (7) founding BIPOC clean energy and green sector business leaders across the U.S. that are at the forefront of climate tech innovation and are paving the way towards a more inclusive and equitable green economy!

## **Network Benefits:**

- Justice40 Community Engagement
- Policy Briefings & Government Relations
- Funding Opportunities
- Grant Writing Support
- Public & Private Sector Networking

# Dream Entrepreneur Network – Highlight



## **Reginald Parker** **CEO & Founder of Optimal Technology Corporation**

With over 25 years of experience, Reginald is on the cutting edge solar technology.

- He has made solar 21 times faster to install and up to 40% cheaper.
- Using dual access trackers, his solar tech has achieved an efficiency of 42.3%, beating the gold industry standard of 21% efficiency.

He is spearheading a partnership with HBCUs (Historically Black Colleges & Universities) to deploy energy management technology.



## **Anthony Kinslow II** **CEO of Gemini Energy Solutions**

Anthony Kinslow II is leader in equitable energy efficiency deployment

- Gemini partners with municipalities, HBCUs, and community-based organizations nationwide.

“We are working in collaboration with the largest faith-based clean energy non-profits in the country to transform community anchor organizations. Community anchors are trusted organizations with regular interaction with the community, and so in our mind, they are best positioned to accelerate the community’s clean energy transition.”



# Solution 2: Strategic Community Intervention

## Priority Markets

1. Savannah, Georgia
2. Detroit, Michigan
3. Denver, Colorado
4. Las Vegas, Nevada
5. Riverside + San Bernardino, California
6. Fresno, California



With awarded funds, the Dream Entrepreneurs Network (DEN) will communicate, partner, and deploy their resources in (6) Justice40 communities identified by Dream.Org.

In these communities the DEN will work with local stakeholders to solve prevailing energy challenges with projects on clean energy, energy efficiency, clean transit, and workforce development.

As the DEN grows, members will work with Dream.Org to maintain meaningful relationships with their respective communities, ensuring that Justice40 energy challenges are being addressed

# Progress Made throughout the Entire Prize



**Increased the size of the DEN from 7 to 28 members**



**Launched the DEN monthly newsletter**



**Established partnership with Wells Fargo, Salesforce Foundation & the 49ers Foundation. Contracted a Grant Writer to support DEN fundraising**



**Dream.Org has conducted 4/5 planned community listening sessions in Fresno, CA; Denver, CO; Detroit, MI; and Savannah, GA**



**3 project opportunities identified in Fresno, CA; Detroit, MI; Savannah, GA**

# Progress Made throughout the Entire Prize (cont)



**Goal: Pursue two federally funded opportunities with the DEN and support from a grant writer.**

Dream.Org, our contracted grant writer and DEN member, OpConnect, are working to secure an unprecedented **\$250M** loan through the **DOE's Loan Program Office** to **accelerate the transition of vehicle electrification** in fleets and multi-family properties in Savannah, GA.

OpConnect is **partnering** with **3 other BIPOC founders** within the Dream Entrepreneurs Network on this project.

## Local Advocates include

- Southern Alliance for Climate Energy
- Partnership for Southern Equity
- Mi Familia Vota Georgia
- Step Up Savannah
- The Harambee House/  
Citizens for Environmental Justice
- EPA Region 4 Leads



# Implementation Learnings and Conclusions

## Learnings

- When Dream.Org started this prize, we were targeting 10 communities, but through Phase 3 activities, including listening sessions, we have decided to focus on six communities that are the most primed for shovel ready projects in the near future.

## Conclusion through Phase 3:

- Significant financial resources are needed to reduce barriers to both low-income communities and BIPOC founders
- Technical assistance, readiness training and contracted service support (ie grant writing) are essential to BIPOC founded cleantech and clean energy businesses as well as disadvantaged communities in order for them to be successful.
- Community engagement and network connections are essential to the success and growth of our coalition.

# Topic 3: Impact Vision and Strategy to Sustain Success

## We expect to see the following impacts in the next year in our six markets:

- Elevated awareness as to what IRA means to impacted communities and how they can benefit from the IRA to significantly reduce pollution and GHGs as well as create work and wealth opportunities
- Relevant partnerships and connections are made in each community with CBOs, local governments, and private entities
- Climate infrastructure project pipelines are established

## Activities to maintain and strengthen our coalition include:

- 1) sustainable growth of the Entrepreneurs Network through targeted outreach and prioritizing strategic green tech industries and locations
- 2) applying to funding opportunities, both government and philanthropic, that includes multiple Entrepreneur Network members; leveraging nontraditional sources of funding to expand clean energy solutions;
- 3) acting as advocates to promote technical assistance and resources to BIPOC clean energy and climate tech entrepreneurs and disadvantaged communities.

# THANK YOU

**For more information, please contact:**

**Kasheef Wyzard**  
National Director

**[kasheef@dream.org](mailto:kasheef@dream.org)**

# Team Pitch Presentations

## Team Philly

Philadelphia, Pennsylvania



# TEAM PHILLY:

*NEXT GEN NEIGHBORHOOD  
ENERGY CENTERS*



# Team Philly Overview:

- **Green Jobs Training Center:** Trains over 200 students from disadvantaged communities
- **Community Programs:** Serves 6,000 low-income households
- **Heater Hotline:** Repairs/replaces 3,600 heaters
- **Conservation:** Weatherizes 800 homes
- **Built to Last:** Whole home repair for 200 families



# Neighborhood Energy Centers

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## What is a Neighborhood Energy Center?

Philadelphia's 16 Neighborhood Energy Centers (NECs) are a network of 'one-stop-shops' building agency and resilience within Justice40 communities:

- Energy assistance
- Budget counselling
- DIY conservation workshops

# Northeast Philadelphia:

## The Challenge of a Changing Neighborhood

- Gentrification elsewhere is displacing vulnerable populations
- Increased senior residents living in poverty
  - Of the more than 80,000 people aged 60 and above living in the northeast, 13% were in poverty in 2018, up from 9% in 2010.
  - Around 27% of all Philadelphians aged 60 and above live in the Northeast, the highest single concentration of older residents in any city neighborhood.
- Increased immigrant population





# CCEC Prize Impact

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*Piloting mobile outreach in  
Northeast Philadelphia*

200 community members reached  
through energy fairs, outreach  
events, and homebound services

100 of these families avoided  
terminations

140 low-income households engaged  
in DIY energy workshops,  
receiving self-weatherization kits

10x increase in homebound services  
for senior citizens



## Our Vision: Next Gen Neighborhood Energy Centers

- Mobile Energy Center
- Energy fairs
- Children's energy ambassador workshops
- Solar energy workshops
- Electrification workshops



## Justice40 Goals

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*Mobile Energy Center: to launch early 2024*

The Mobile Energy Center:

1. Meets people where they are
2. Equipped with three (3) outreach support staff
3. Serves **1,500** families/year

-Together Team Philly will bring utility terminations in our city from **30,000** to **0-**

## Positive Energy Coalition

Tulsa, Oklahoma





# Weku

(Positive Energy Coalition)



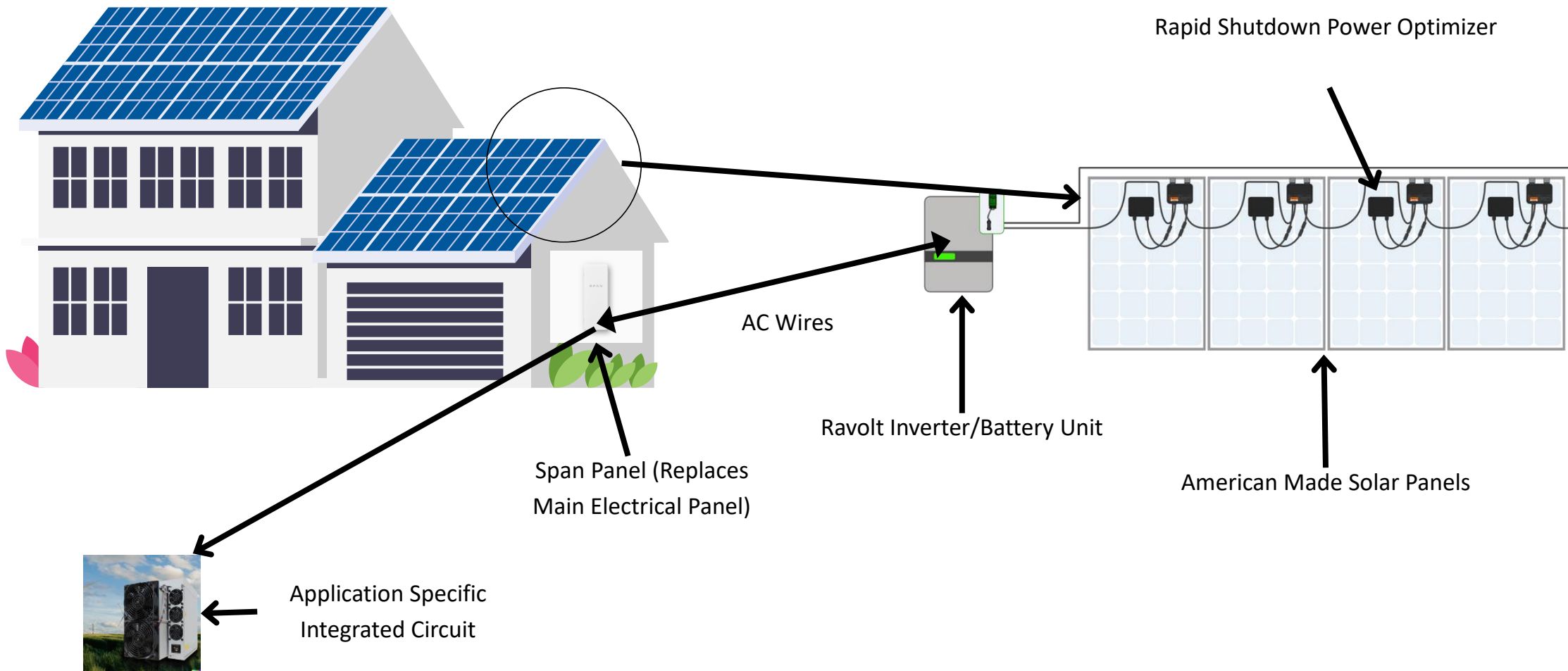


# Weku is a “Kardashev Type I” Deep Tech Energy Innovation Company

- \$50 Unlimited Electricity Service
- ESG as an Asset Class

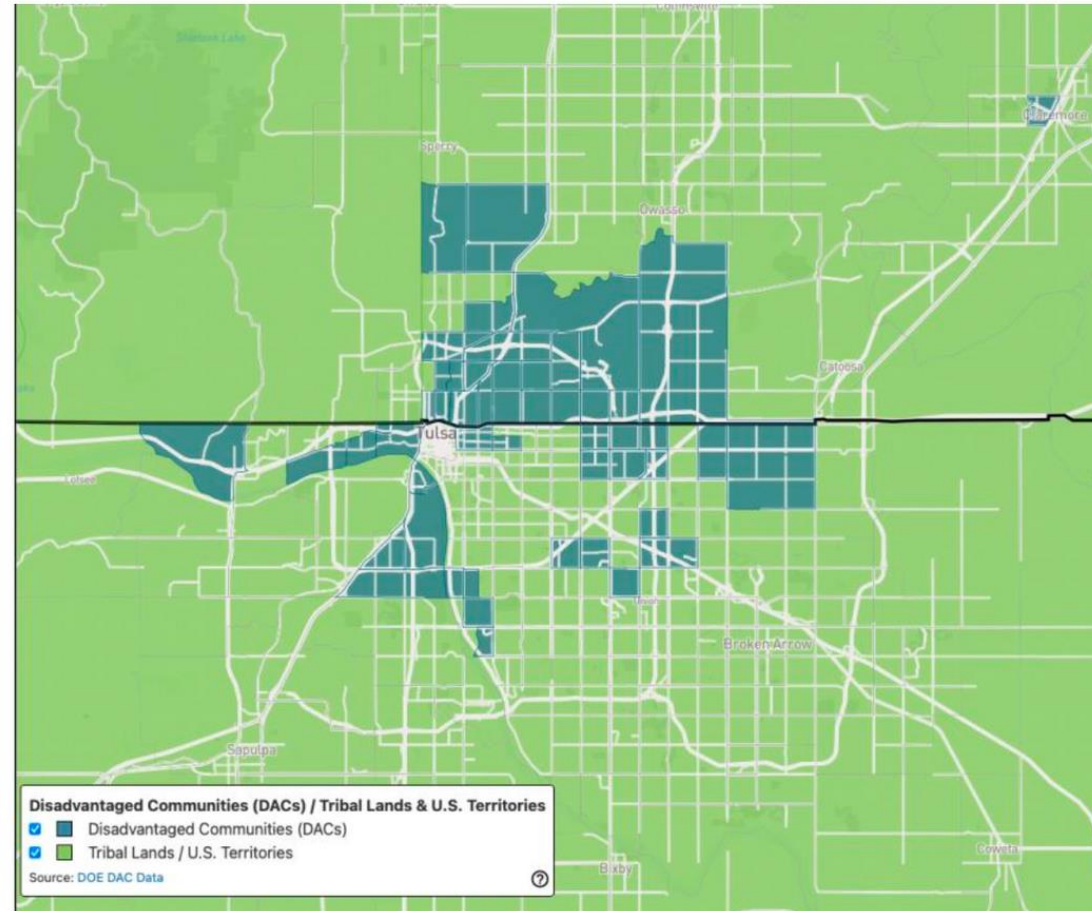


# Solar and Battery DERMS Diagram





# Positive Energy Family Foundation (+E)



*A map representing the areas of Tulsa's Metropolitan Area meeting DOE's definition of a disadvantaged community.*

Source: <https://energyjustice.egs.anl.gov>



# Black Wall Street





## Tulsa Race Massacre

# TULSA'S TERRIBLE TALE IS TOLD

SCENES OF DEVASTATED TULSA, AND BLACK CROSS NURSES WHO VOLUNTEERED AID



Photographs of ruined homes in the wake of the Tulsa race riot. Eye witnesses declare that in the city of Tulsa there has not been left standing a building owned by members of our Race. Center photograph is a Chicago company of Marcus Garvey's Black Cross Nurses who immediately volunteered to lend aid to the riot victims.

Photos from Underwood & Underwood, N. Y.



# S.M.A.R.T GOALS BY DECEMBER 2023

01

## LOWER BILLS

500 North Tulsans from signed up for the \$50 unlimited electricity service waitlist

02

## FREE TRAINING

45 North Tulsans trained to become solar technicians

03

## INSTALLATION

10 North Tulsa homes outfitted with solar and batteries.

04

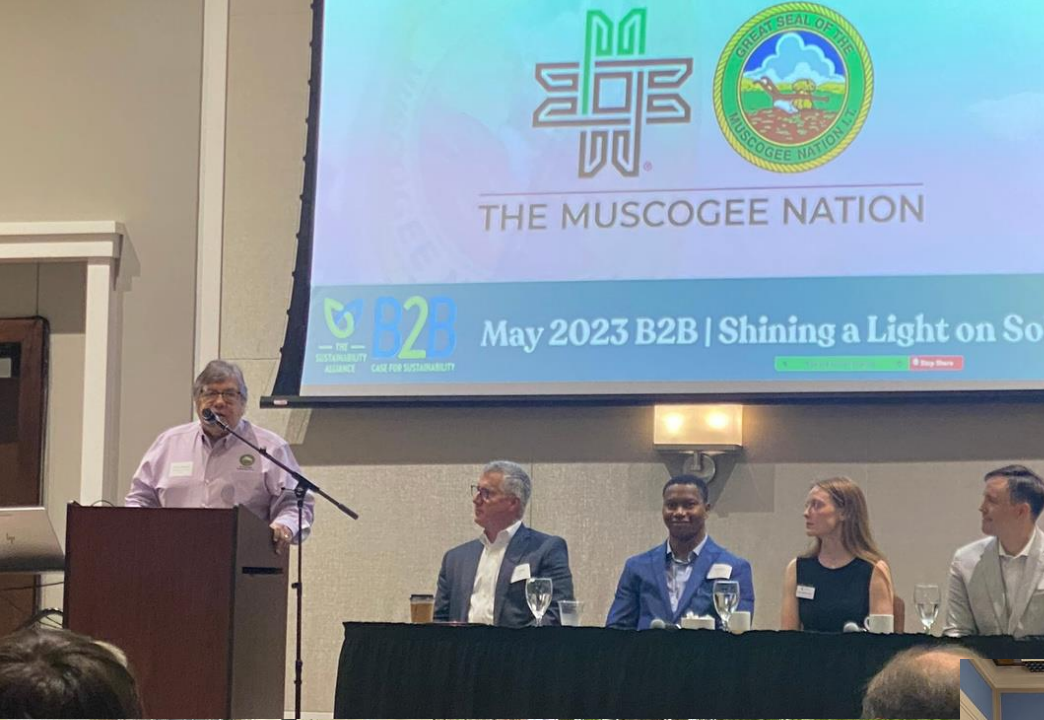
## SAVINGS

\$6,000 in reduced energy burdens for homes outfitted with solar and batteries.

05

## COLLABORATION

30 Tulsa organizations active in the coalition.







# We Constructed a 10 Megawatt Community Solar Portfolio



TULSA DREAM  
CENTER



ELDERWOOD  
APARTMENT



BRADFORD  
APARTMENTS



59 HOUSES



PEOPLE'S ELECTRIC  
COOPERATIVE



### COMMUNITY SOLAR - 5,034 kW DC



1 SITE PLAN-1  
PV-1.0 SCALE: NTS



2 VICINITY MAP  
PV-1.0 SCALE: NTS



3 AERIAL VIEW  
PV-1.0 SCALE: NTS

INDEX NO.	DESCRIPTION
PV-1.0	SITE PLAN-1
PV-1.1	STRING DIAGRAM
PV-1.2	SINGLE LINE DIAGRAM
PV-1.3	THREE LINE DIAGRAM
PV-1.4	ROW
PV-1.5	ROW-2
PV-1.6	SCHEME

#### DESIGN CRITERIA

WIND SPEED: 130 MPH  
 HIGH DESIGN TEMPERATURE: 45°  
 LOW DESIGN TEMPERATURE: -15°  
 ASCE 7-10  
 WIND EXPOSURE B  
 RISK CATEGORY II  
 INTERCONNECTION: NET MET  
 METER REFERENCE: XXXX-XXX

#### APPLICABLE CODES

2018 IBC, IRC, IPC, IMC, IFGC and IFC.  
 2017 ANSI A117.1 and 2020 NEC.

#### OVERALL SYSTEM

DC SYSTEM SIZE (kW)	5,034 kW
AC SYSTEM SIZE (kW)	-
AC BATTERY SYSTEM SIZE (kWh)	(3) TESLA BATTERY MEGAPACK MWh
MODULE INFORMATION	(9152) SOLAREVER, SE-182*1-550M-144 (550W)
INVERTER INFORMATION	(3) INVERTER kW
ANNUAL PRODUCTION	8,110 GWh

#### SYSTEM INFORMATION

DC SYSTEM SIZE: 5,034 kW  
 MODULES:  
 (9152) SOLAREVER,  
 SE-182\*1-550M-144 (550W)  
 BATTERY:  
 (3) TESLA BAT. MEGAPACK MWh  
 RECTIFIER:  
 (1) INVERTER  
 (3) Inverter kW

FOR REVIEW ONLY - Not for regulatory approval, permitting, or construction. Not For Construction use.

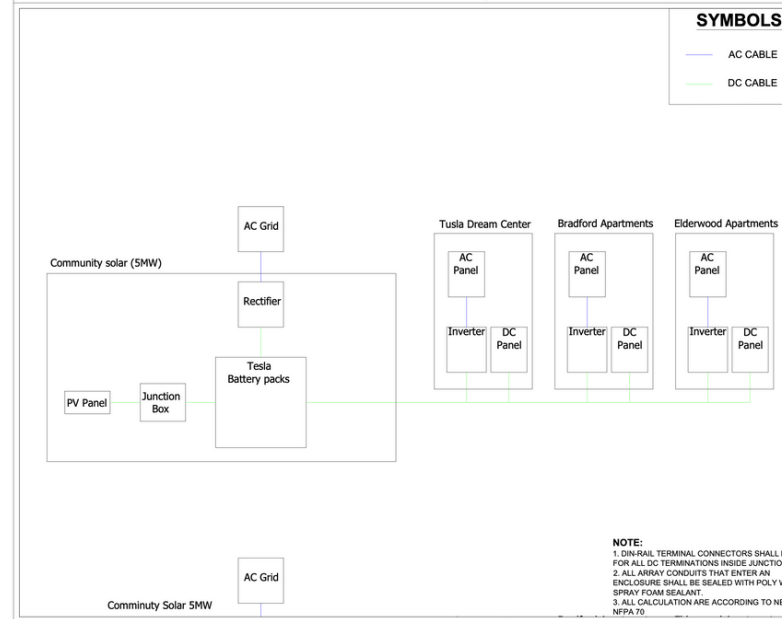
PV-1.0

SOLAR PV SYSTEM  
 (FOR  
 COMMUNITY SOLAR  
 (5555 E 15th St N, Tulsa, OK)

DESCRIPTION	REV	DATE
PERMIT PLAN	A	08/23/23

CUSTOMER INFORMATION:  
 NAME: COMMUNITY SOLAR  
 ADDRESS: 5555 E 15th St N, Tulsa, OK

### COMMUNITY SOLAR - 5,034 kW DC



#### SYMBOLS

AC CABLE  
 DC CABLE

#### SYSTEM INFORMATION

DC SYSTEM SIZE: 5,034 kW  
 MODULES:  
 (9152) SOLAREVER,  
 SE-182\*1-550M-144 (550W)  
 BATTERY:  
 (3) TESLA BAT. MEGAPACK MWh  
 RECTIFIER:  
 (1) INVERTER  
 (3) Inverter kW

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PV-1.2 - SINGLE LINE DIAGRAM

SOLAR PV SYSTEM  
 (FOR  
 COMMUNITY SOLAR  
 (5555 E 15th St N, Tulsa, OK)

DESCRIPTION	REV	DATE
PERMIT PLAN	A	08/23/23

CUSTOMER INFORMATION:  
 NAME: COMMUNITY SOLAR  
 ADDRESS: 5555 E 15th St N, Tulsa, OK

NOTE:  
 1. DIN-RAIL TERMINAL CONNECTORS SHALL BE USED FOR ALL DC TERMINATIONS INSIDE JUNCTION BOX.  
 2. ALL ARRAY CONDUITS THAT ENTER AN ENCLOSURE SHALL BE SEALED WITH POLY WATER SPRAY FOAM SEALANT.  
 3. ALL CALCULATION ARE ACCORDING TO NEC 2023 NFPA 70.

### COMMUNITY SOLAR - 5,034 kW DC

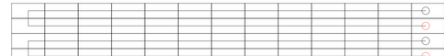
#### COMMUNITY SOLAR Solar Layout (9152) Modules = 5,034 kW DC

#### Battery pack (16 Combiner box inputs)

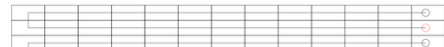
#### 1 Combiner box input (8 Strings)

String 1: 26 Modules  
 String 2: 26 Modules  
 String 3: 26 Modules  
 String 4: 26 Modules  
 String 5: 26 Modules  
 String 6: 26 Modules  
 String 7: 26 Modules  
 String 8: 26 Modules

#### ARRAY 1 (52 Modules)



#### ARRAY 2 (52 Modules)



#### ARRAY 3 (52 Modules)



#### ARRAY 4 (52 Modules)



#### 16 Combiner box input (8 Strings)

String 121: 26 Modules  
 String 122: 26 Modules  
 String 123: 26 Modules  
 String 124: 26 Modules  
 String 125: 26 Modules  
 String 126: 26 Modules  
 String 127: 26 Modules  
 String 128: 26 Modules

1 COMMUNITY SOLAR SOLAR SYSTEM  
PV-1.1 SCALE: NTS

#### SYSTEM INFORMATION

DC SYSTEM SIZE: 5,034 kW  
 MODULES:  
 (9152) SOLAREVER,  
 SE-182\*1-550M-144 (550W)  
 BATTERY:  
 (3) TESLA BAT. MEGAPACK MWh  
 RECTIFIER:  
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 (3) Inverter kW

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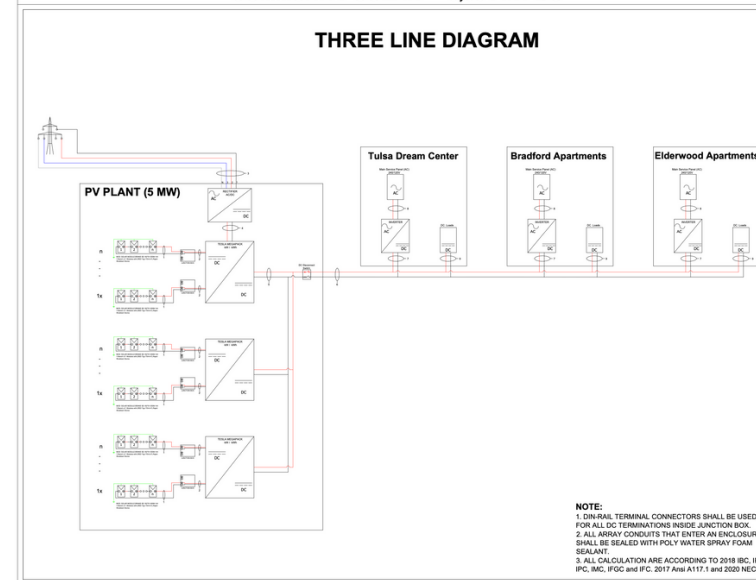
PV-1.1 - STRING DIAGRAM

SOLAR PV SYSTEM  
 (FOR  
 COMMUNITY SOLAR  
 (5555 E 15th St N, Tulsa, OK)

DESCRIPTION	REV	DATE
PERMIT PLAN	A	08/23/23

CUSTOMER INFORMATION:  
 NAME: COMMUNITY SOLAR  
 ADDRESS: 5555 E 15th St N, Tulsa, OK

### COMMUNITY SOLAR - 5,034 kW DC



#### THREE LINE DIAGRAM

#### SYSTEM INFORMATION

DC SYSTEM SIZE: 5,034 kW  
 MODULES:  
 (9152) SOLAREVER,  
 SE-182\*1-550M-144 (550W)  
 BATTERY:  
 (3) TESLA BAT. MEGAPACK MWh  
 RECTIFIER:  
 (1) INVERTER  
 (3) Inverter kW

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PV-1.3 - THREE LINE DIAGRAM 2

SOLAR PV SYSTEM  
 (FOR  
 COMMUNITY SOLAR  
 (5555 E 15th St N, Tulsa, OK)

DESCRIPTION	REV	DATE
PERMIT PLAN	A	08/23/23

CUSTOMER INFORMATION:  
 NAME: COMMUNITY SOLAR  
 ADDRESS: 5555 E 15th St N, Tulsa, OK

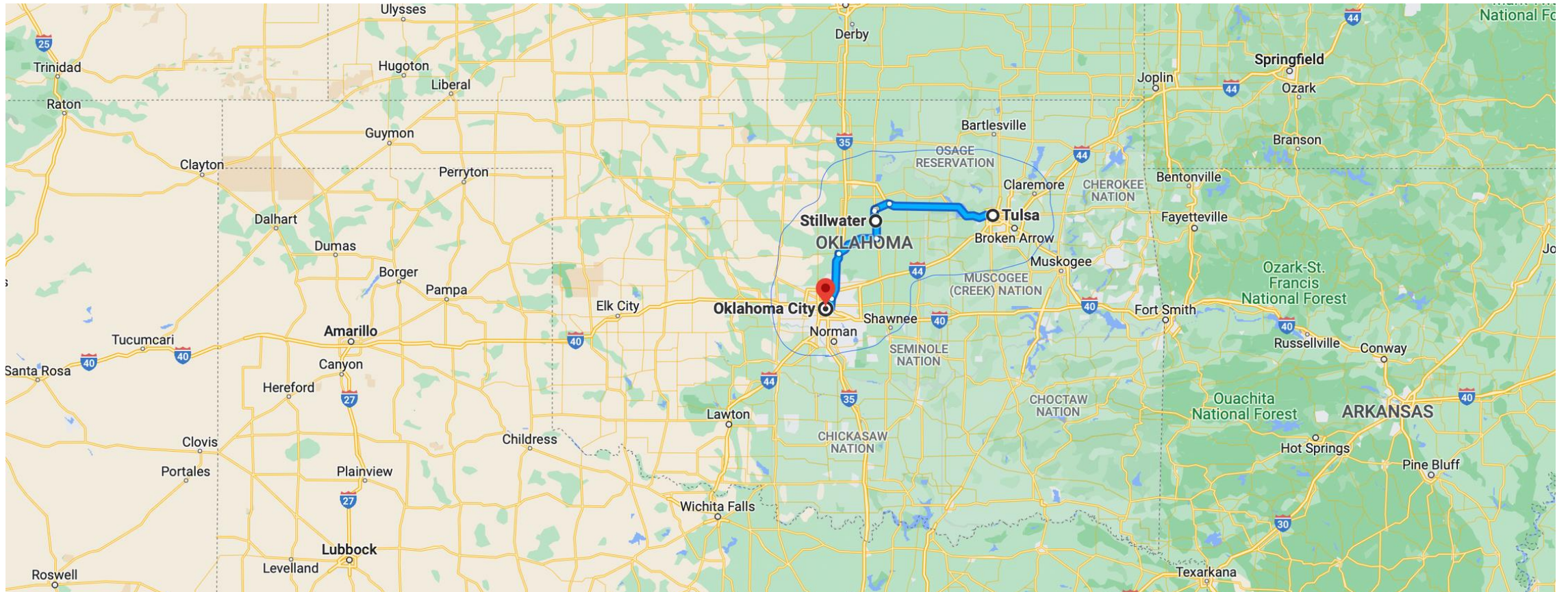
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 3. ALL CALCULATION ARE ACCORDING TO 2018 IBC, IRC, IPC, IMC, IFGC and IFC. 2017 ANSI A117.1 and 2020 NEC.





# 100 Megawatts of Solar & Batteries within the Weku Corridor over 5 Years

The Weku Corridor is our initial service area, and refers to the stretch of land that runs from Tulsa, through Stillwater, and up to Oklahoma City, covering a 50-mile radius from any point along the way.





# We Will Need to Train 600+ Highly Skilled Workers





# Weku's Vision Requires More Capital





# Thank You!

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## Elizabeth Doris

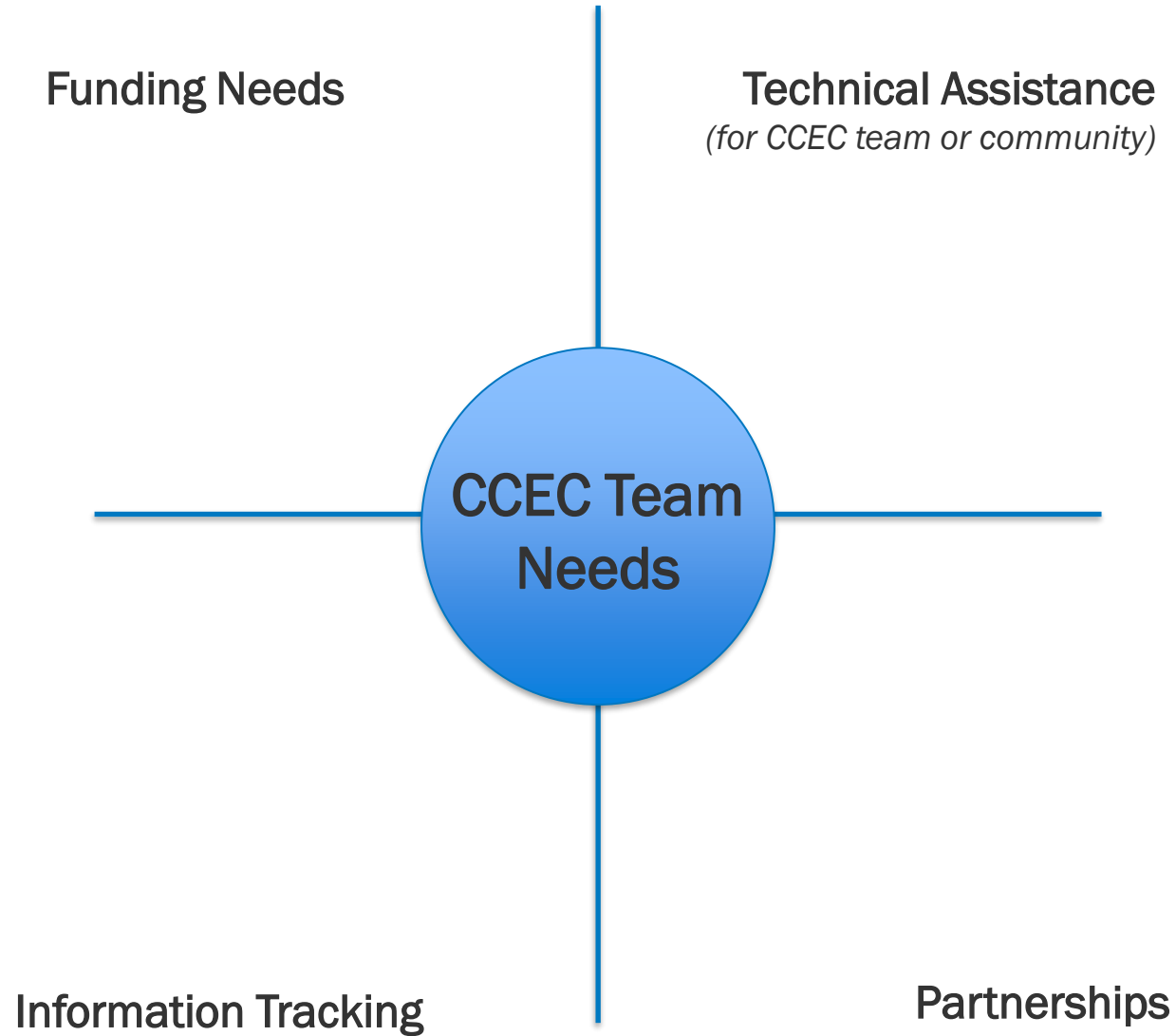
Director

*Joint Institute for Strategic Energy Analysis*

*National Renewable Energy Laboratory*



# CCEC Team Ideation



# Thank you

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AMERICAN  
**MADĒ**  
U.S. DEPARTMENT OF ENERGY

 CLEAN ENERGY  
BUSINESS NETWORK

