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U.S. DEPARTMENT OF ENERGY

JUNE 8–11

2020 SUMMIT

A Virtual Leadership Symposium

Learn more: betterbuildingssolutioncenter.energy.gov/summit

U.S. DEPARTMENT OF ENERGY

Measuring Up to the Equity Challenge: Energy Affordability and Equity Planning

Thursday, June 11, 2020

1:00 PM ET

Krystal Laymon

U.S. Department of Energy

U.S. DEPARTMENT OF ENERGY

Agenda

1. Introduction/Housekeeping
2. Presentation from DOE
3. Guest Speakers
4. Q&A Session

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Poll #1: What Sector Do You Represent?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Poll #2: Where are you joining us from today (city/state)?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Today's Presenters

Ariel Drehobl
American Council for an Energy-Efficient Economy (ACEEE)

Michelle Gransee
Minnesota State Energy Office

Mary Otto
Minnesota Department of Commerce Tribal Liaison

Daniel White
D.C. Department of Energy and Environment

U.S. DEPARTMENT OF ENERGY

Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

U.S. Department of Energy: Measuring Up to the Equity Challenge

Krystal Laymon, U.S. Department of Energy

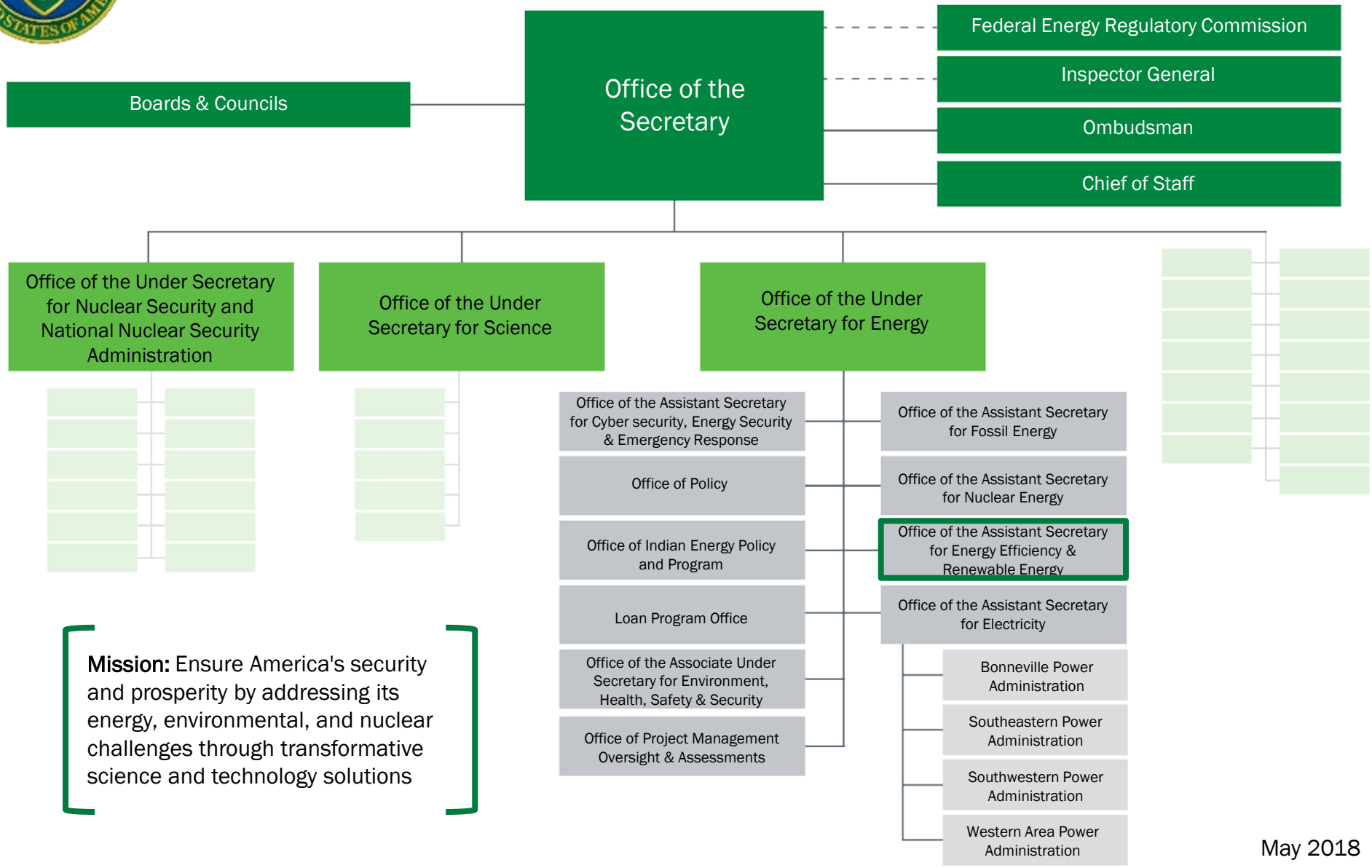
June 11, 2020

Agenda

- DOE Office of Energy Efficiency and Renewable Energy

- Low-income Energy Resources and Projects
  - Clean Energy for Low-income Communities Accelerator (CELICA)
  - Low-Income Energy Affordability Data (LEAD) Tool
  - National Community Solar Partnership

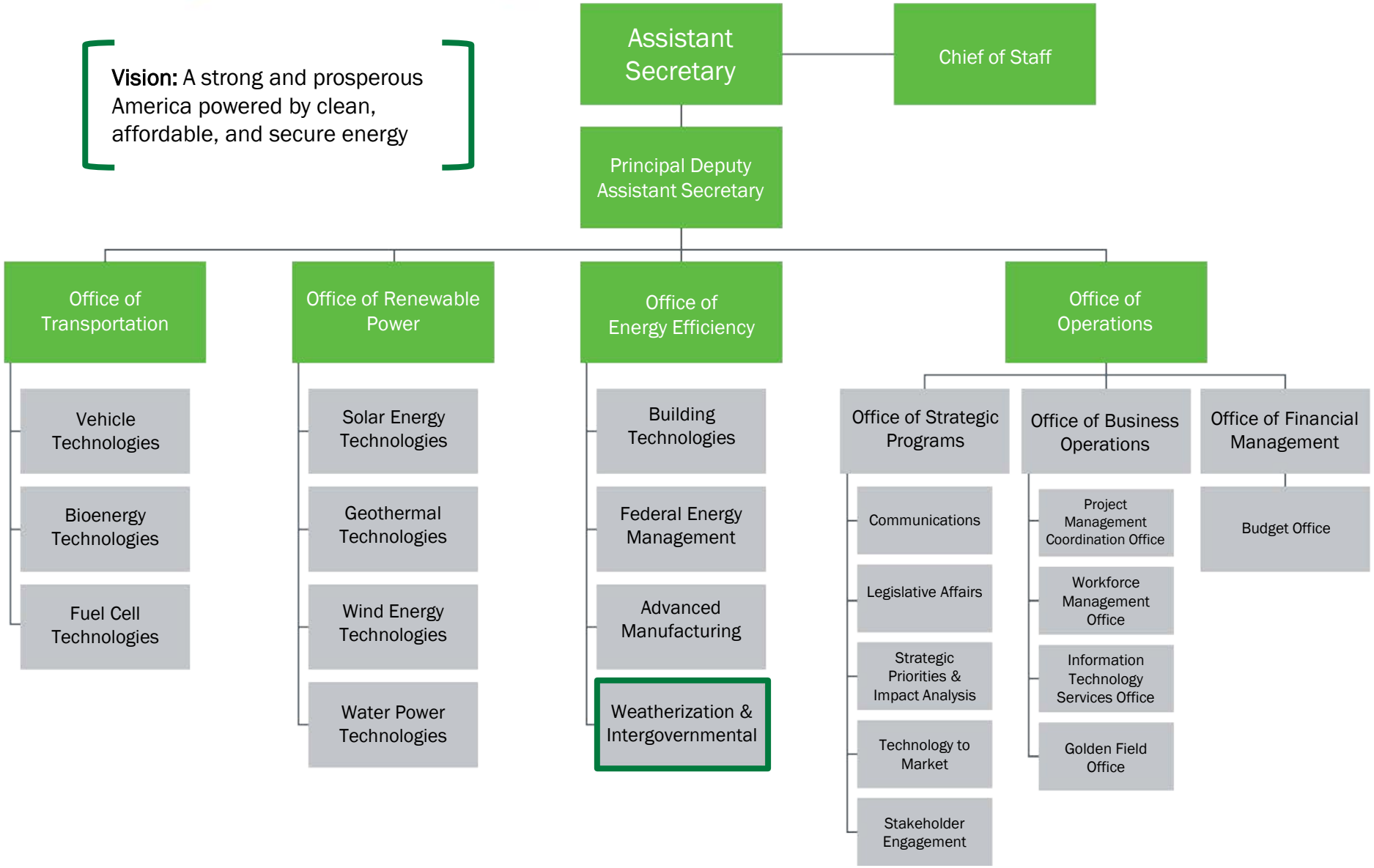
U.S. Department of Energy



Mission: Ensure America's security and prosperity by addressing its energy, environmental, and nuclear challenges through transformative science and technology solutions

May 2018

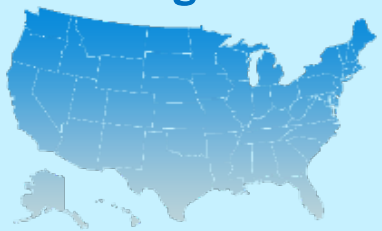
Vision: A strong and prosperous America powered by clean, affordable, and secure energy



Weatherization & Intergovernmental Programs (WIP) Office

WIP's mission is to enable strategic investments in energy efficiency and renewable energy technologies through the use of innovative practices across the United States by a wide range of stakeholders, in partnership with state and local organizations and community-based nonprofits.

State Energy Program



Weatherization Assistance Program

Partnerships and Technical Assistance

Strategic & Interagency Initiatives

Low-income Energy Resources and Projects

Low-Income Energy Affordability Data (LEAD) Tool

- The LEAD Tool helps stakeholders make data-driven decisions on energy goals and program planning by improving their understanding of low income and moderate-income household energy characteristics

LEAD
LOW-INCOME ENERGY AFFORDABILITY DATA
TOOL
U.S. DEPARTMENT OF ENERGY

https://www.energy.gov/eere/slsc/maps/lead-tool

Clean Energy for Low Income Communities Accelerator (CELICA) Toolkit

- Case studies, issue briefs, data tools, and templates on advancing energy affordability and equitability for low-income households

https://betterbuildingsinitiative.energy.gov/CELICA-Toolkit

National Community Solar Partnership

- Coalition of community solar stakeholders working to expand access to affordable community solar to every American household by 2025
- Seeking participants for multi-stakeholder teams of state, local, and tribal governments; utilities; businesses; nonprofit organizations; and more.
- If you're interested in joining the Partnership or learning more, send an email to community.solar@ee.doe.

https://www.energy.gov/eere/solar/national-community-solar-partnership

Poll #3: How Knowledgeable are You in Energy Equity or Low-Income Issues?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Poll #4: What Topic are You Most Interest in Related to Energy Equity and Low-Income Issues?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Clean Energy for Low-Income Communities Accelerator (CELICA) Toolkit

- **Goal** : Provide an overview of tools, resources, and models for developing low-income energy efficiency and renewable energy programs

- Product of Better Buildings Initiative and 2-year partnership with over 30 stakeholders from public, private, and non-profit sectors

- Types of resources in CELICA Toolkit:
  - Case Studies/Promising Practices
  - Issue Briefs
  - Data Tools
  - Templates

CELICA Toolkit: https://betterbuildingssolutioncenter.energy.gov/CELICA-Toolkit

Outcomes - Clean Energy for Low-Income Communities (CELICA)

CELICA partners successfully leveraged resources to commit **up to $335 million to help 155,000 low income households** access energy efficiency and renewable energy benefits, and demonstrated promising program models for:

Single Family

Example: **State of Connecticut** and CT Green Bank's bundled energy efficiency and solar program has been so successful that solar PV systems are owned by households in low income communities as much as those in non-low-income areas.

Low-Income Community Solar

Multifamily Affordable

Example: **District of Columbia** is incentivizing building owners to serve 100,000 low income households with 240-300MW solar PV.

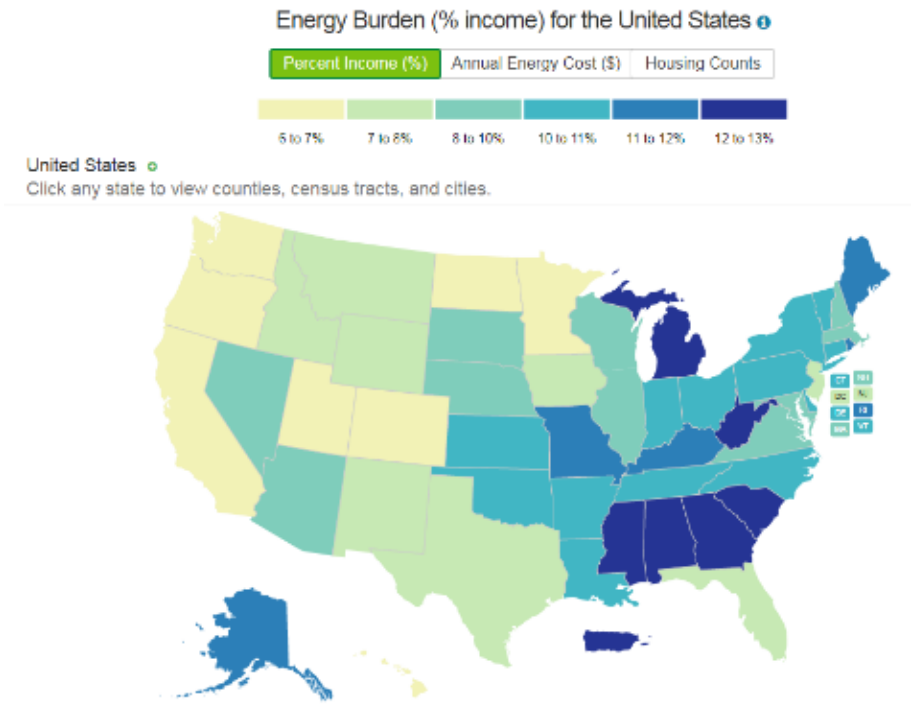
Example: **State of Michigan** Energy Office's low income community solar program partnered with Cherryland Coop and NMCCA to deliver $350/yr in additional savings for participating, previously weatherized, low income households.

Low-Income Energy Affordability Data (LEAD) Tool

- **Goal:** Help communities make data-driven decisions by improving understanding of low- and moderate-income household and energy characteristics

- A web-based interactive tool with national, state, city, census tract level maps, and data for all 50 states plus PR and DC

- Since its launch (Summer 2019) over 4,000 users, including:
  - National Grid utility (NY)
  - State of Kentucky
  - Texas Energy Poverty Institute



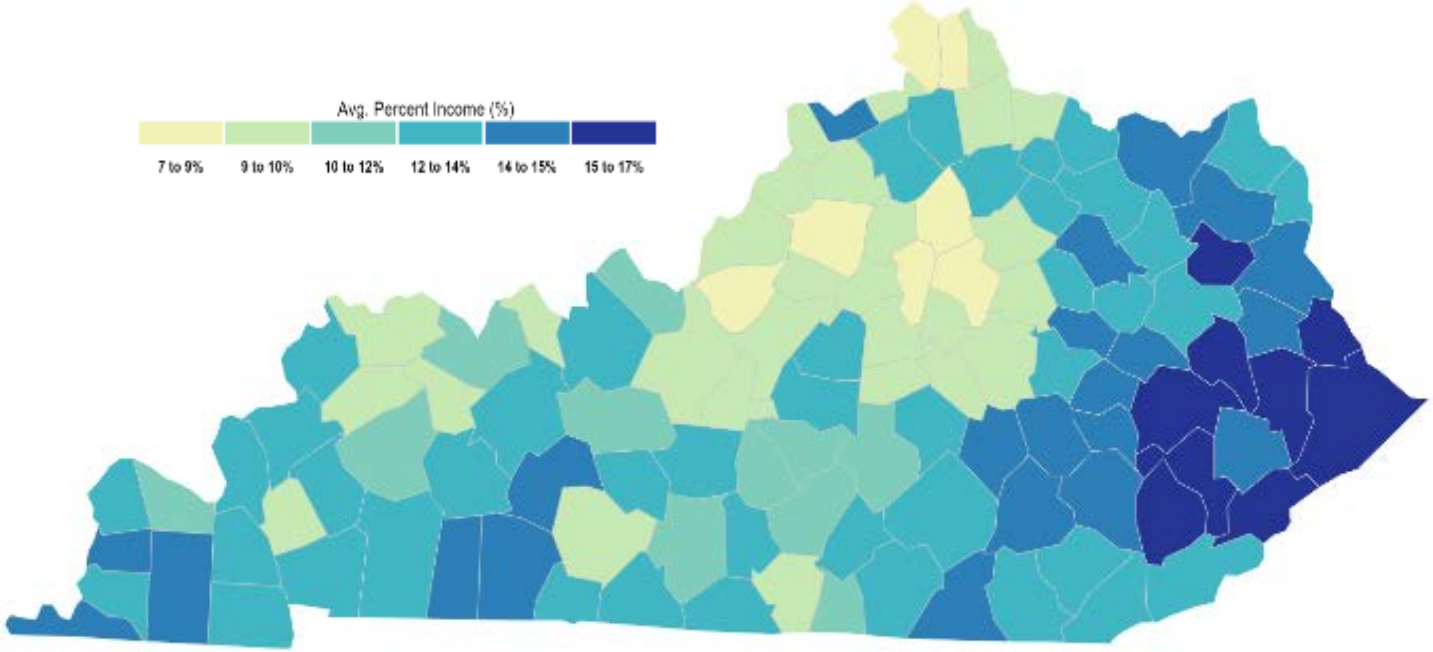
LEAD
LOW-INCOME ENERGY AFFORDABILITY DATA
TOOL
U.S. DEPARTMENT OF ENERGY

LEAD Tool: https://www.energy.gov/eere/slsc/maps/lead-tool

LEAD Tool Use Example: Kentucky Office of Energy Policy (OEP)

Above: HDA staff and volunteers build new energy-efficient affordable housing for Kentucky residents

To determine which affordable housing organizations to grant funding to, Kentucky's OEP used LEAD Tool data to identify areas across the state with high energy burden in households earning less than 60% of Area Median Income (AMI). Whereas average energy burden in Kentucky for households earning less than 60% AMI is 11%, there are concentrations in both eastern and western Kentucky where the average is as high as 17%, so Kentucky's OEP selected organizations in these areas.



Right: Average annual energy burden for households earning up to 60% AMI by county in Kentucky

Other Use Examples – LEAD Tool

User	Application
National Grid, New York	Investor-owned utility company, National Grid, used the LEAD Tool to support implementation of its Home Energy Affordability Team (HEAT), a weatherization program for income-eligible residential natural gas customers in its service territory in Long Island, New York. Using data, graphs, and charts from the LEAD Tool, National Grid was able to determine how many households may be eligible for the program and compare with internal enrollment data to inform additional marketing efforts.
Appalachian Voices and North Carolina Utilities Commission	When Duke Energy Carolinas (DEC), a utility in North Carolina, proposed a rate increase, Appalachian Voices used the LEAD Tool to baseline and calculate what the new energy costs and energy burden would be for low- to moderate-income households served by DEC.
Texas Energy Poverty Research Institute (TEPRI)	TEPRI used the LEAD Tool to provide data driven context and validate results from its consumer survey of 2,000 low-income residents across the state of Texas. The survey was done to inform utilities of the drivers of energy poverty in their service areas and better understand their low-income customers, and found that energy burden is significantly higher for residents of rural areas.
City of Columbia Water and Light, Office of Sustainability	Columbia's Water and Light office used the LEAD Tool to identify trends in housing by fuel type and age, and income groups to craft a rental energy efficiency standards policy.
California Energy Commission	In the Energy Commission's report, "Tracking Progress – Energy Equity Indicators", they identified a set of energy equity indicators to track progress for advancing the recommendations in a low-income barriers study. For geographic areas lacking public utility data, they used the LEAD Tool to supplement those data gaps.

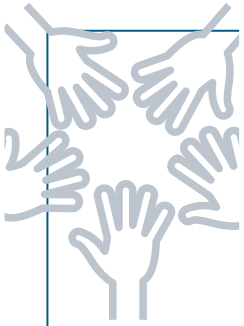
National Community Solar Partnership

Goals: The National Community Solar Partnership is a coalition of community solar stakeholders working to expand access to **affordable** and **accessible** community solar to every American household by 2025. NCSP also seeks to enable communities to realize **supplementary benefits** and other value streams from installations, such as increased resiliency and workforce development

Visit: energy.gov/community-solar

Email: community.solar@ee.doe.gov

National Community Solar Partnership Offerings

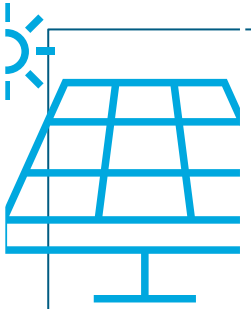


Collaboration

- Join multi-stakeholder teams with specific goals to address common barriers to solar adoption through peer exchange

Network Infrastructure

- Access an online community platform, virtual and in-person meetings, webinars and other tools to engage with DOE staff and peers



Technical Assistance

- Apply for technical assistance resources from DOE, its National Laboratories, and third-party experts on local challenges

Better Buildings: Summer Webinar Series

BEHIND THE METER DISTRIBUTED ENERGY RESOURCES:
BEST PRACTICES FOR INTEGRATING DERS INTO COMMERCIAL BUILDINGS

July 8

NEXT-GENERATION BUILDING PERFORMANCE POLICIES:
MAXIMIZING ENERGY SAVINGS AND ENVIRONMENTAL IMPACTS

July 16

EVERYONE HAS A DATA CENTER:
HOW TO BE AN ENERGY CHAMPION FOR YOURS

July 28

PROGRAM DESIGN WITH EVERYONE IN MIND:
LOW-INCOME SOLAR PROGRAM STRATEGIES

July 9

STRATEGIES TO COMBINE ENERGY + HEALTH UPGRADES IN MULTIFAMILY HOUSING

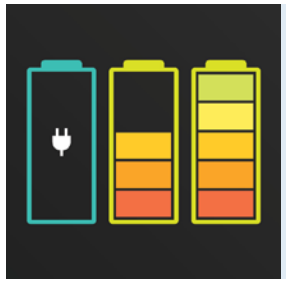
July 21

SUCCEED WITH SUBMETERING:
HOW TO MAKE THE BUSINESS CASE

August 4

THE DYNAMIC DUO:
UNLEASH PUBLIC SECTOR ENERGY SAVINGS WITH FINANCING AND TECHNICAL ASSISTANCE

July 14



CASE IN POINT:
OREGON'S RECENT EFFORTS TO REDUCE PLUG LOAD ENERGY CONSUMPTION

July 22

REGISTER NOW

Questions?

Krystal Laymon

Office of Energy Efficiency & Renewable Energy
U.S. Department of Energy

Krystal.Laymon@ee.doe.gov

Poll #5: If you have been involved in energy equity or energy affordability issues, what is your greatest challenge?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Poll #6: Which Resources would be most helpful for increasing your Knowledge or Activity around Energy Equity or Energy Affordability?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Ariel Drehobl

American Council for an Energy-Efficient Economy (ACEEE)

Submit Questions
www.slido.com event code **#bbsummit**

U.S. DEPARTMENT OF ENERGY

Setting the Stage: Energy Efficiency and Equity

Thursday, June 11th
2020 Better Buildings Summit

Ariel Drehobl
Senior Research Analyst
American Council for an Energy-Efficient Economy

ACEEE
American Council for an Energy-Efficient Economy

The American Council for an Energy-Efficient Economy is a nonprofit 501(c)(3) founded in 1980. We act as a catalyst to advance energy efficiency policies, programs, technologies, investments, & behaviors.

Our research explores economic impacts, financing options, behavior changes, program design, and utility planning, as well as US national, state, & local policy.

Our work is made possible by foundation funding, contracts, government grants, and conference revenue.

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Defining Equity in the Energy Sector

What is equity and why is it important?

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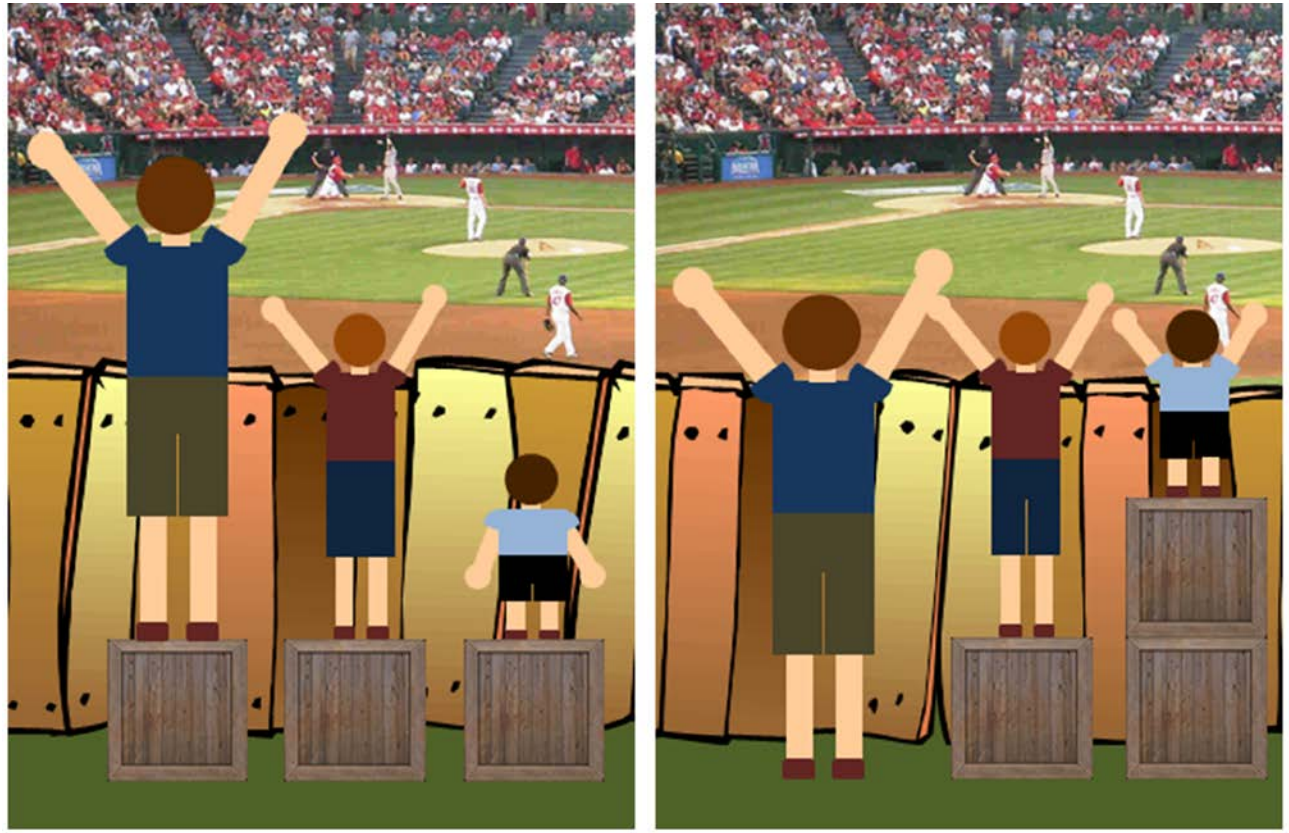
Equality vs. Equity



Source: https://medium.com/@CRA1G/the-evolution-of-an-accidental-meme-ddc4e139e0e4

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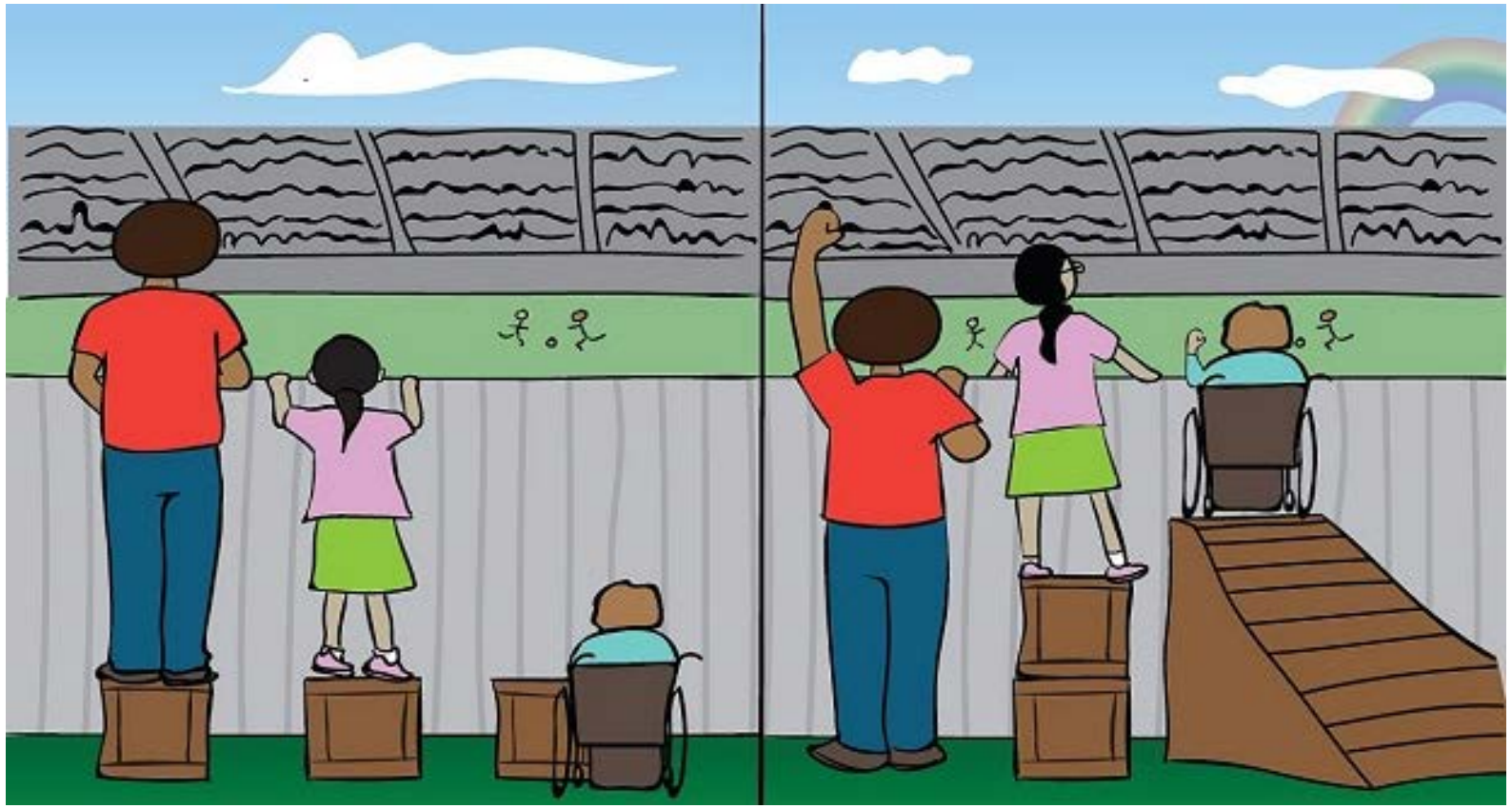
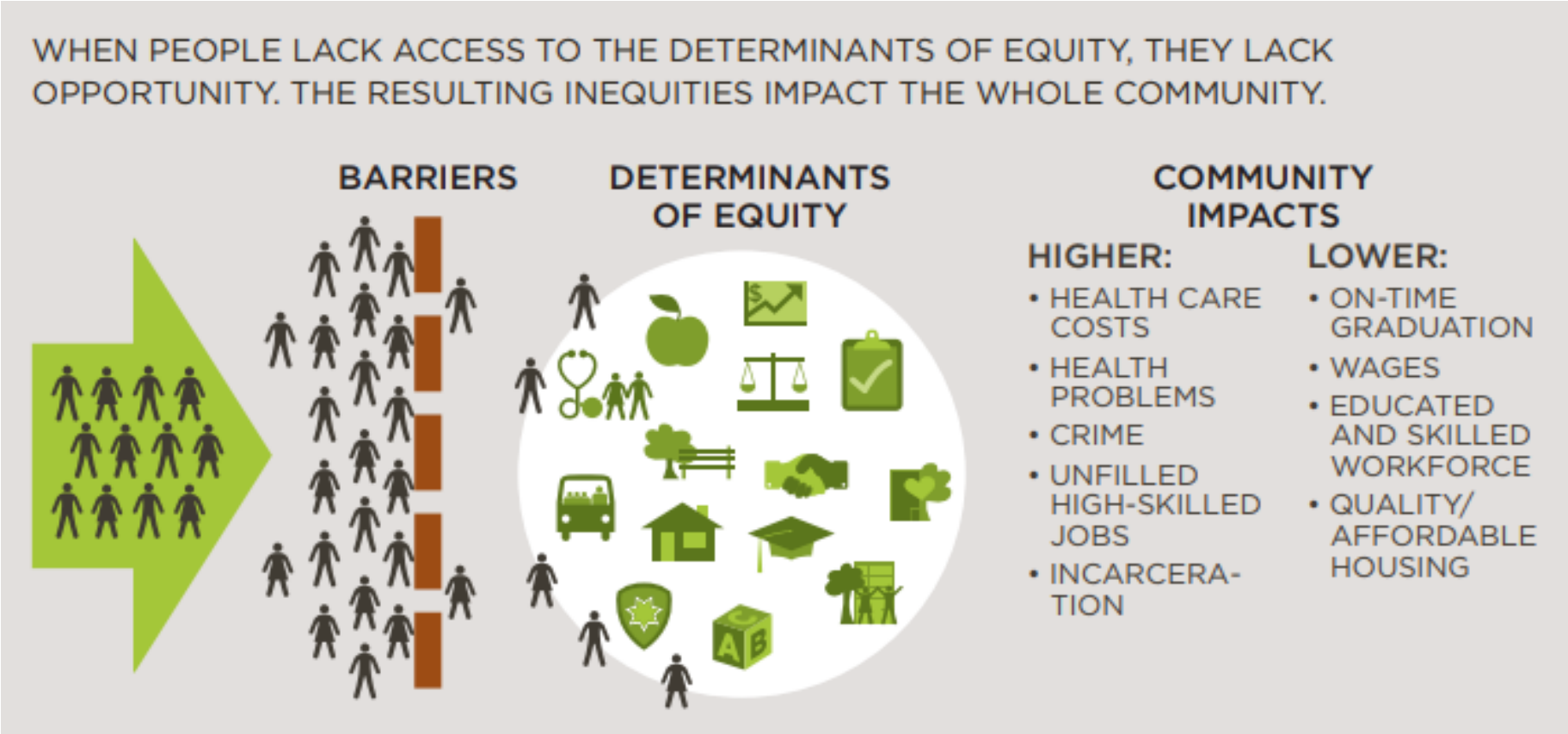
Equality, Equity, and Justice

American Council for an Energy-Efficient Economy



Determinants of Equity



Source: King County, WA, *Building Equity and Opportunity*, www.kingcounty.gov/elected/executive/constantine/priorities/building-equity/infographic.aspx

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Four Dimensions of Equity for Energy Efficiency

Type	Definition
Procedural Equity	Inclusive, accessible, authentic engagement and representation in processes to develop or implement energy efficiency programs and policies.
Distributional Equity	Energy efficiency programs and policies result in fair distributions of the benefits and burdens across.
Structural Equity	Energy efficiency decision-makers institutionalize accountability; decisions are made with a recognition of the historical, cultural, and institutional dynamics and structures that have routinely advantaged privileged groups in society and resulted in chronic, cumulative disadvantage for subordinated groups.
Transgenerational Equity	Energy efficiency decisions consider generational impacts and avoid placing unfair burdens on future generations.

Source: USDN, 2014, *Equity in Sustainability,* www.usdn.org/uploads/cms/documents/usdn_equity_scan_sept_2014_final.pdf

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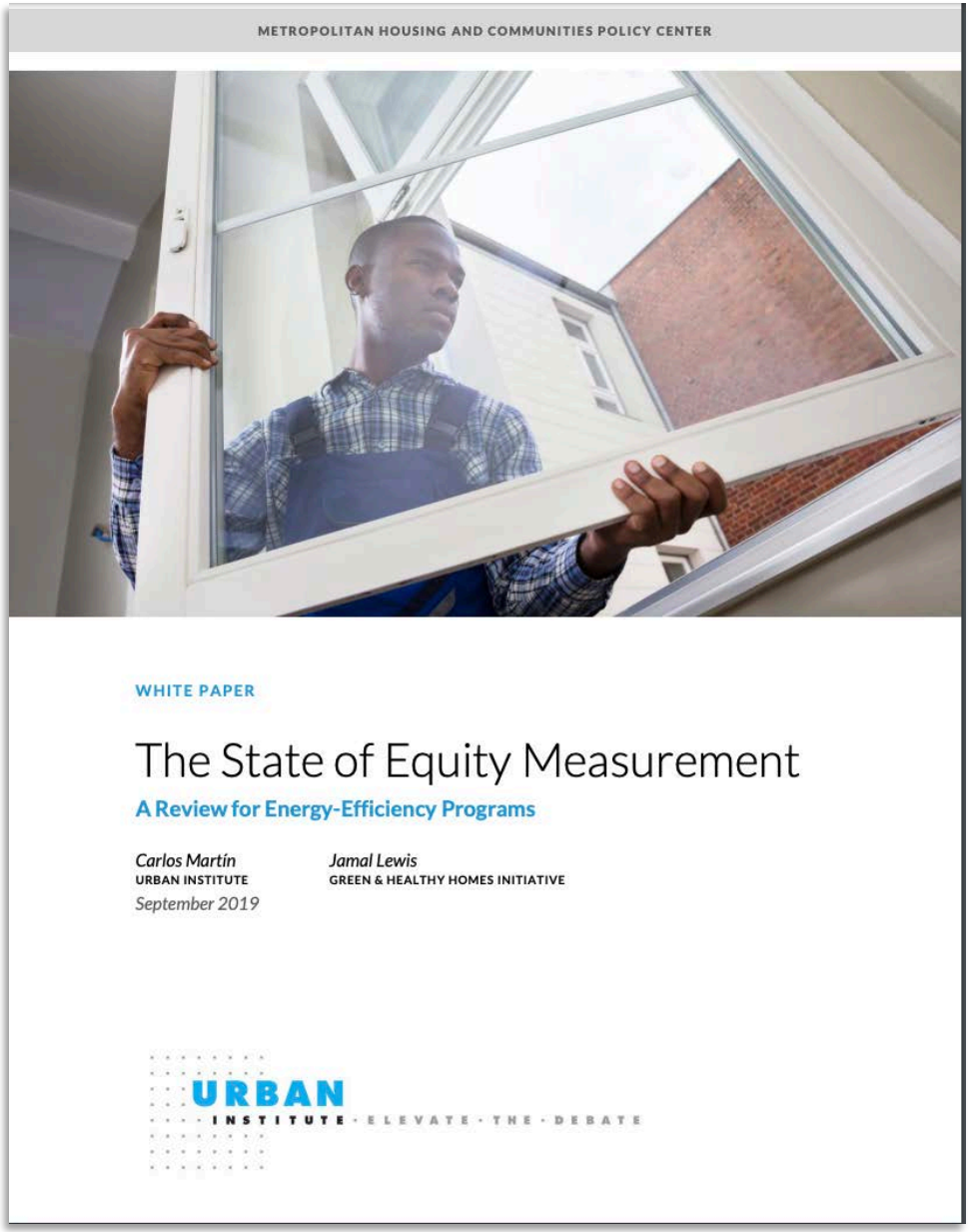
Report: The State of Equity Measurement

- Urban Institute and Green and Healthy Homes Initiative report
- Dimensions of equity for EE
- How to measure progress in the EE field

- Available online:
  - www.urban.org/research/publication/state-equity-measurement


METROPOLITAN HOUSING AND COMMUNITIES POLICY CENTER

WHITE PAPER

The State of Equity Measurement

A Review for Energy-Efficiency Programs

Carlos Martín
URBAN INSTITUTE

Jamal Lewis
GREEN & HEALTHY HOMES INITIATIVE

September 2019

URBAN INSTITUTE · ELEVATE · THE · DEBATE

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Breaking Down Barriers: Measuring Equity

HISTORICAL LEGACIES: ***Equity is measured cumulatively.***

AWARENESS OF POPULATIONS: ***Equity is measured for relevant populations.***

INCLUSION OF OTHER VOICES: ***Equity is measured at different points in an intervention's life, starting with design and staffing.***

ACCESS DISCRIMINATION: ***Equity is measured by the ability of different groups of interest to become aware of, apply for or request, and access a service.***

OUTPUT DIFFERENCES: ***Equity is measured by the quality and completion of a service.***

DISPARATE IMPACTS: ***Equity is measured by disparities in the desired outcomes across groups of interest.***

Source: Martin and Lewis, *The State of Equity Measurement*, www.urban.org/research/publication/state-equity-measurement

What Does Equity Mean for Energy Efficiency?

Equity considerations for local and utility-led energy efficiency policy

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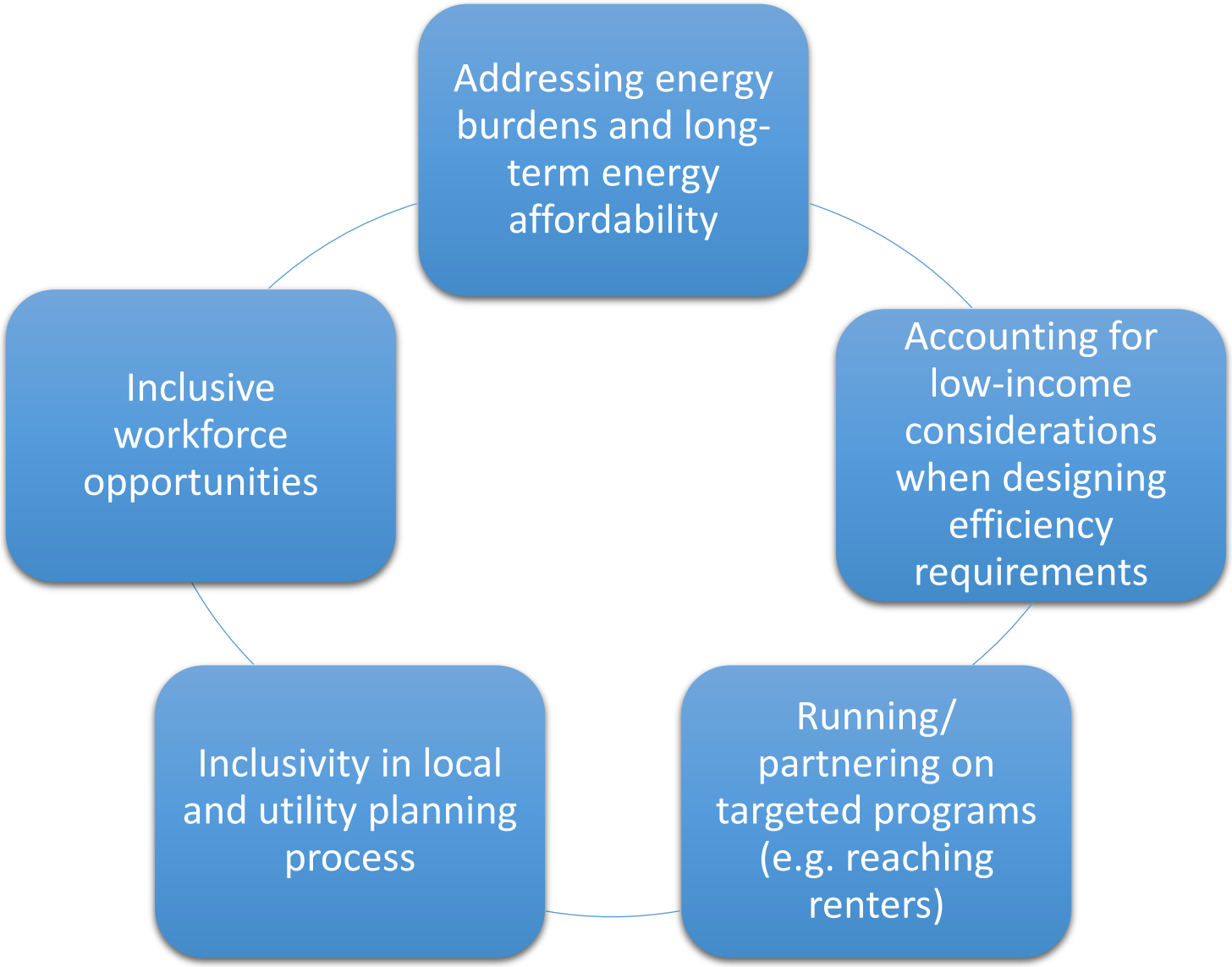
Equity and Energy Efficiency Considerations



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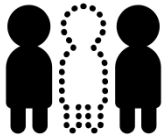
Energy Insecurity Challenges for Limited-Income Households

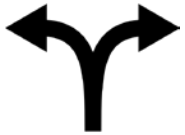
High energy cost burdens

Older, less efficient housing & appliances

Lack of **discretionary capital** to invest in EE



Split incentives with owners and renters



Historically **overlooked and under-funded**

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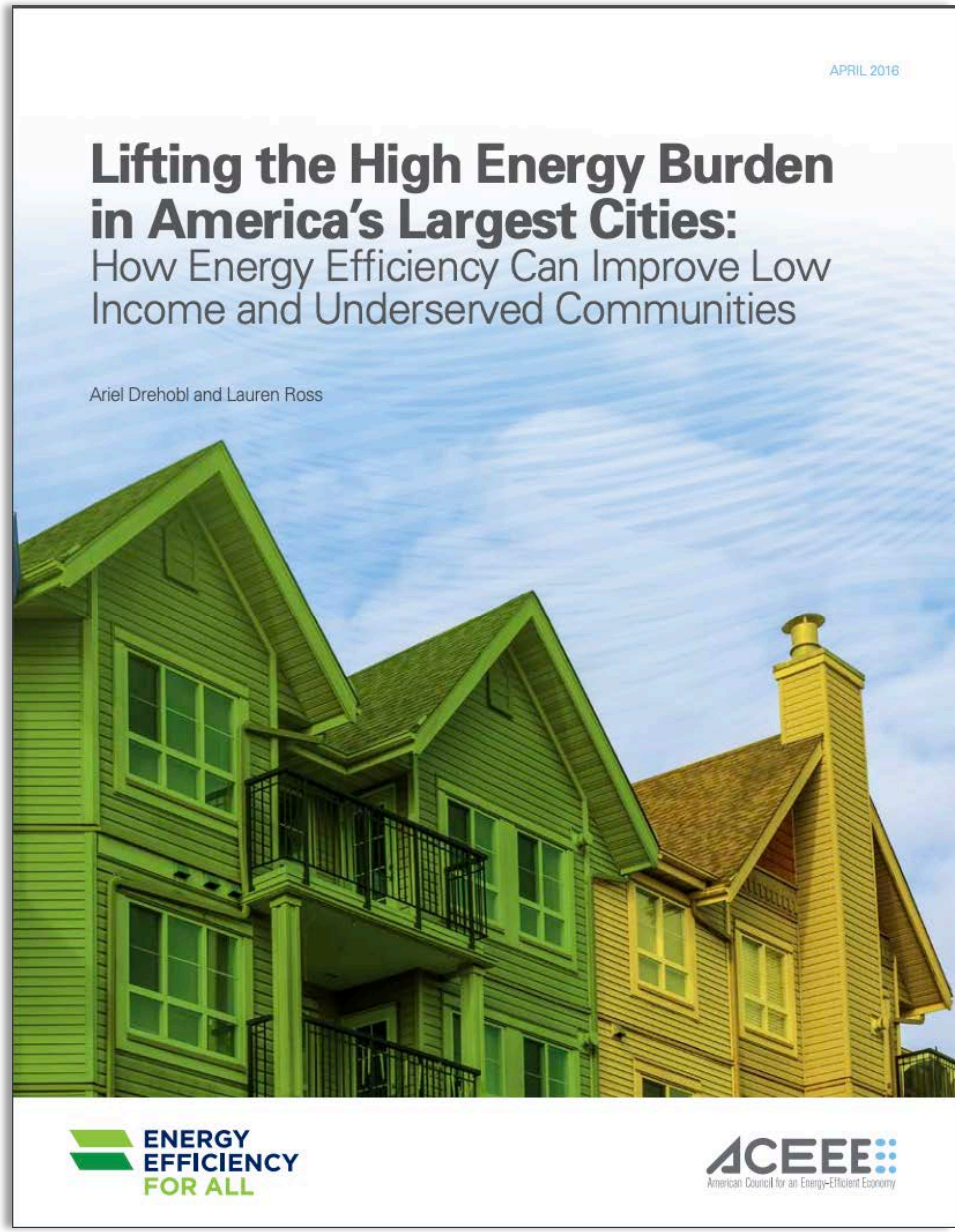
Energy Burden as an Equity Indicator

- % of household income spend on home energy bills
  - **i.e. Electricity, Natural gas, Other heating fuels**
- All households have an energy burden, that can change over time
- Average energy burdens are 3.1%
- Researchers identify unaffordable energy burdens as above 6%



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National Energy Burden Statistics

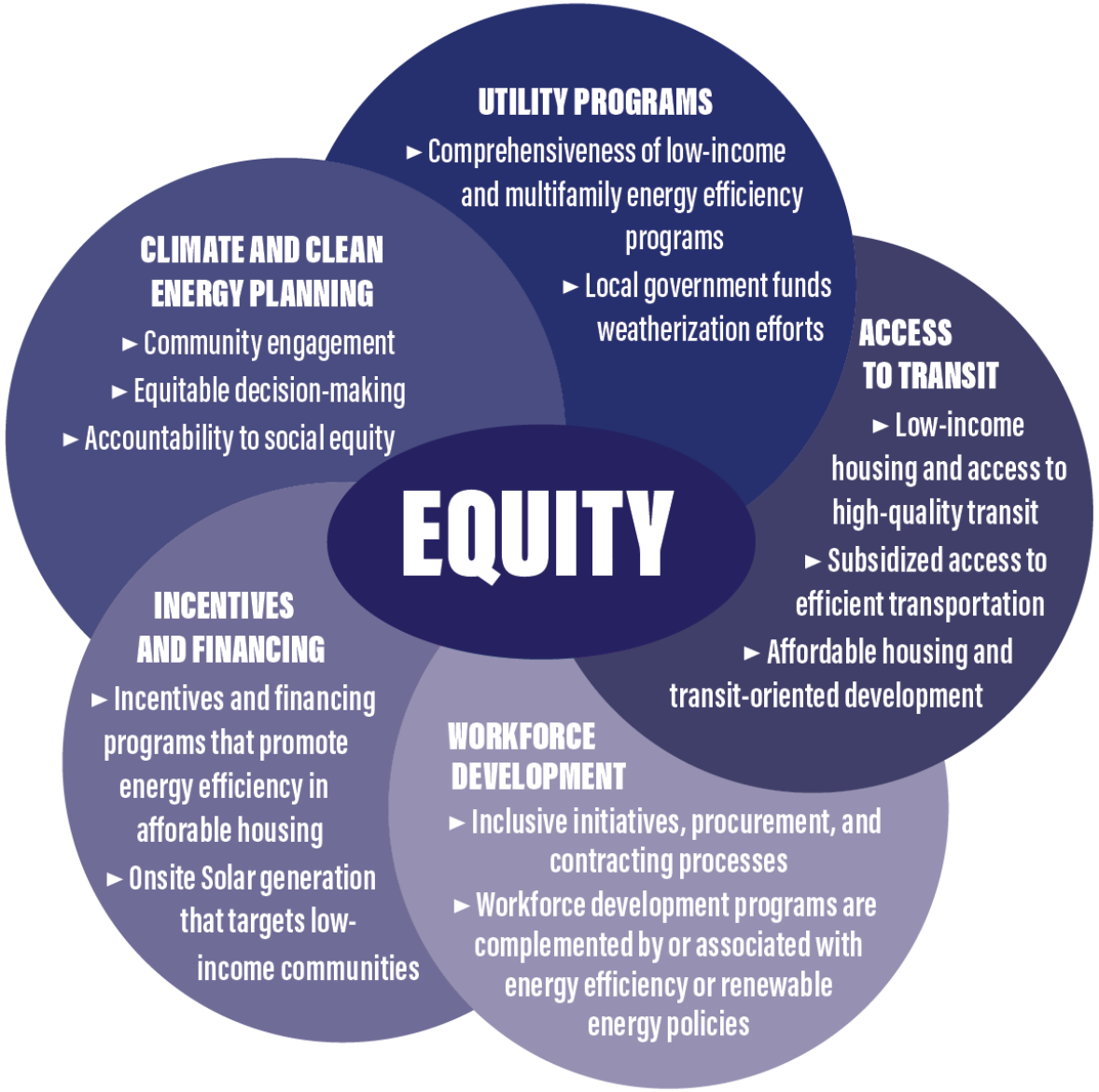
- One in four U.S. households have a high energy burden (i.e., spend more than 6% of income on energy)
  - **30.6 million households**
- Two of three low-income households* have a high energy burden
  - **27 million low-income households**

* Low-income defined as 200% of the Federal Poverty Level

Data from 2017 American Housing Survey, US Census

Image from NASA: geology.com/articles/satellite-photo-earth-at-night.shtml

Equity in Local Clean Energy Policies



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Source: ACEEE *City Clean Energy Scorecard* metrics, www.aceee.org/local-policy/city-scorecard

Equity in Utility-Led Energy Efficiency

Stakeholder Engagement

- Identifying, planning with, partnering with, and evaluating and measuring impacts with relevant stakeholders
- See CELICA's stakeholder engagement guide betterbuildingssolutioncenter.energy.gov/CELICA-Toolkit/stakeholder-engagement

Equity metrics for tracking progress

- Collect and track demographic data on who is and isn't served by programs
- Energy burden and other energy insecurity metrics to track program impact over time

Incorporate program best practices

- Examples include: one-stop-shop model, marketing segmentation and targeted offerings, accommodations for health and safety, prioritize deep saving measures, partnerships with the community

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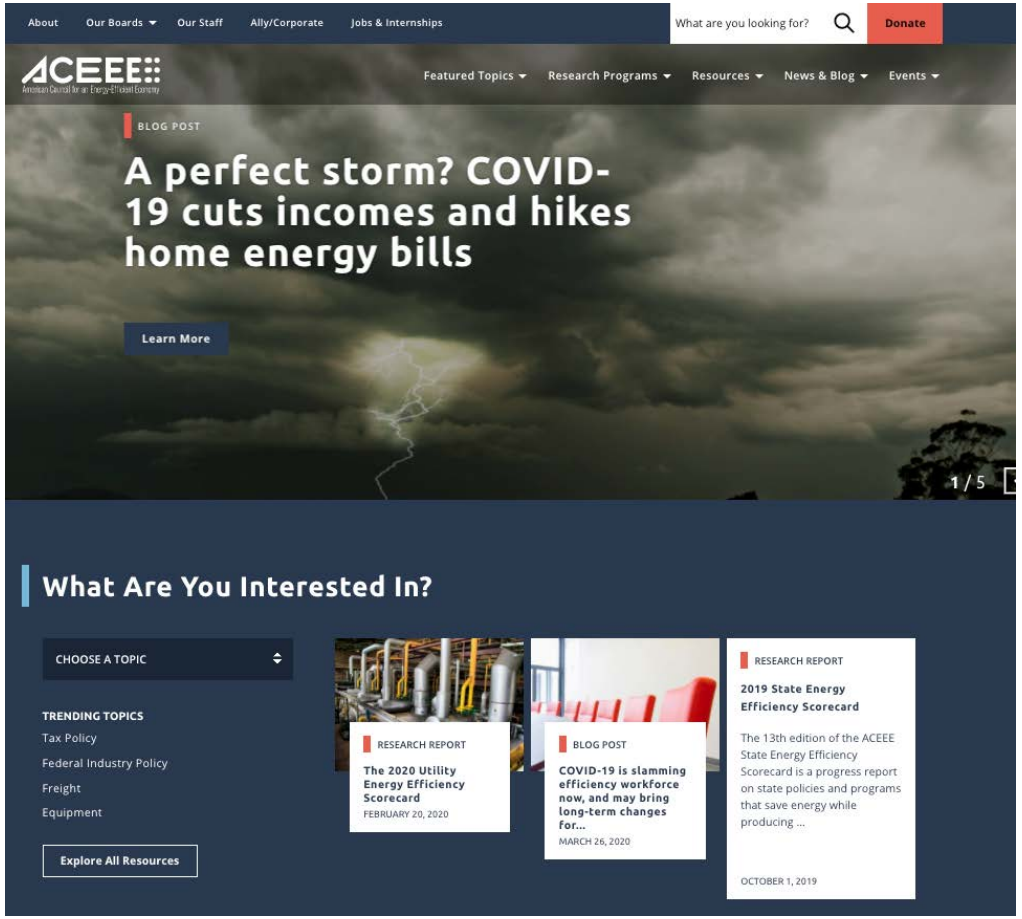
Additional Resources



- Low-Income Resources
  - www.aceee.org/topic/low-income
- Strategies for Successful Low-Income Programs
  - 2017 ACEEE Report: www.aceee.org/research-report/u1713
- National Review of Exemplary Energy Efficiency Programs
  - 2019 ACEEE Report: www.aceee.org/research-report/u1901
- Energy Burden Research
  - 2016 ACEEE Urban Report: www.aceee.org/research-report/u1602
  - 2018 ACEEE Rural Report: www.aceee.org/research-report/u1806
- DOE Low-Income Accelerator Toolkit
  - betterbuildingssolutioncenter.energy.gov/CELICA-Toolkit/

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Thank you for your attention!

Contact info:
Ariel Drehobl
adrehobl@aceee.org

Poll #7: Is your organization currently engaged in energy equity activity?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Poll #8: What are the biggest barriers to your energy affordability projects or energy equity planning?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Michelle Gransee

Minnesota State Energy Office

Mary Otto

Minnesota Department of Commerce, Tribal Liaison

Submit Questions
www.slido.com event code **#bbsummit**

U.S. DEPARTMENT OF ENERGY

Government to Government:
Addressing energy burden together

Michelle Gransee | Mary Otto

Minnesota Department of Commerce

COMMERCE DEPARTMENT

mn.gov/commerce

Minnesota State Energy Office

Emerging Energy Technologies

Energy Market Transformation

Energy Equity Programs

Energy Equity through Weatherization

One-time infusion for a lasting impact

43 years of assisting vulnerable households

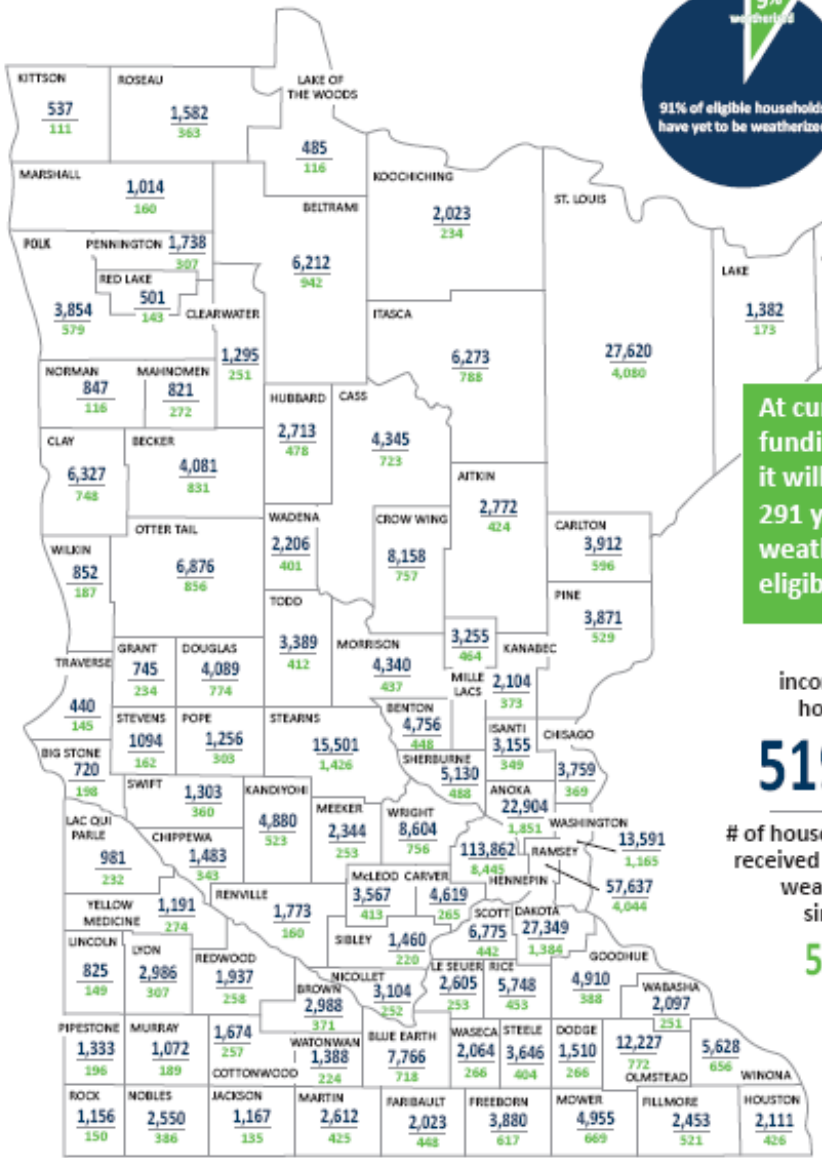
- Elderly
- Children
- Persons with disabilities
- High energy burden
- 2,000 HHs/year
- 65% Greater MN

Energy Equity through Weatherization

- 519K eligible households
- 9% served since 2005
- 3 times higher energy burden
- ≤ 40% energy bill reduction

Minnesota's Low-Income Weatherization Assistance Program

- There are an estimated 519, 617 income-eligible homes in Minnesota
- 53,378 homes have been weatherized since 2005 (with 19K served during ARRA)
- Due to funding limitations, only 9% of all eligible households have been weatherized since 2005



At current funding levels, it will take 291 years to weatherize all eligible homes

# of income-eligible households

519,617*

# of households that have received comprehensive weatherization since 2005

53,378

*based on 2016 census data

Solar Action Plan: Barriers

Identified Barriers:

1. Upfront capital, credit scores, and income limits
2. Dwelling types
3. You need money to get money
4. Need greatly exceeds funding
5. Inconsistent services

Solar Action Plan: Solutions

Identified Solutions:

1. Expand access
2. Develop model programs
3. Identify "no loss" opportunities
4. Explore financing options
5. Coordinate outreach

Solar Action Plan: Results

Results to date:

1. Policy options developed
2. Model low-income carve-out implemented
3. WAP "Solar as a Measure" approved
4. Targeting funding has been developed

Solar Action Plan: Developing

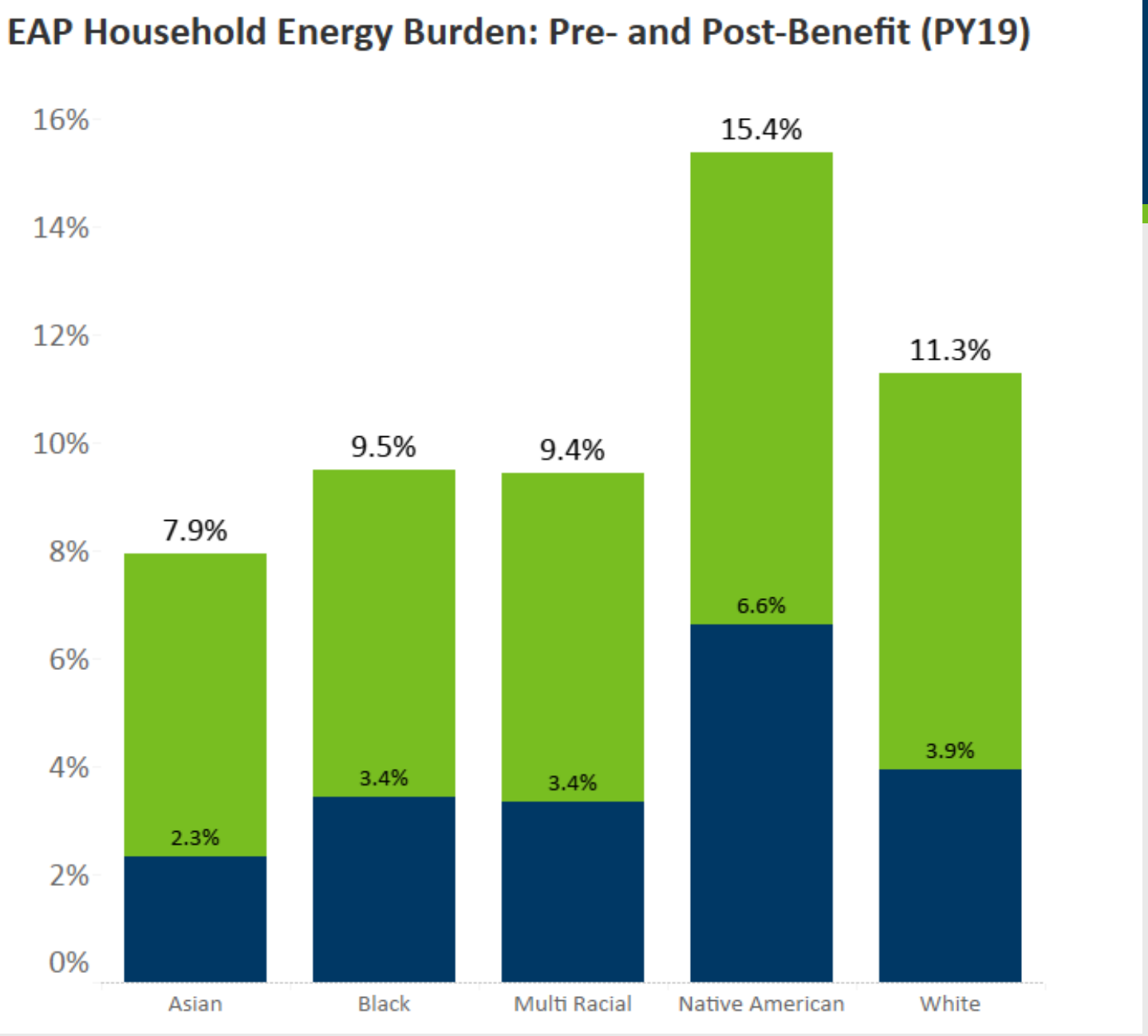
Exploring:

1. Policy and funding requests
2. Targeted funding
3. Inclusive financing
4. One-stop shop

MN Department of Commerce Goal:

To reduce the energy burden of <u>all</u> Minnesotans to less than 5% of their annual income equivalent

Energy Burden



Energy Burden for Native Americans = 15.4%

Sovereign Nations

- Minnesota has Eleven Federally Recognized Tribal Nations
- Minnesota Chippewa Tribe
    - 6 Ojibwe Bands
- Red Lake Nation – Red Lake Band of Chippewa Indians
- Dakota (Sioux) Communities
    - Prairie Island Indian Community
    - Shakopee Mdewakanton Sioux Community
    - Lower Sioux Indian Community
    - Upper Sioux Indian Community

Executive Order 19-24

- EO reaffirmed the Government to Government relationship
- Consultation
- Coordination

STATE OF MINNESOTA
Executive Department

Governor Tim Walz

Executive Order 19-24; Rescinding Executive Order 13-10

Affirming the Government to Government Relationship between the State of Minnesota and Minnesota Tribal Nations: Providing for Consultation, Coordination, and Cooperation

I, Tim Walz, Governor of the State of Minnesota, by the authority vested in me by the Constitution and applicable statutes, issue the following Executive Order:

It is important to recognize that the United States and the State of Minnesota have a unique legal relationship with federally recognized Tribal Nations, as affirmed by the Constitution of the

Educate & Partner

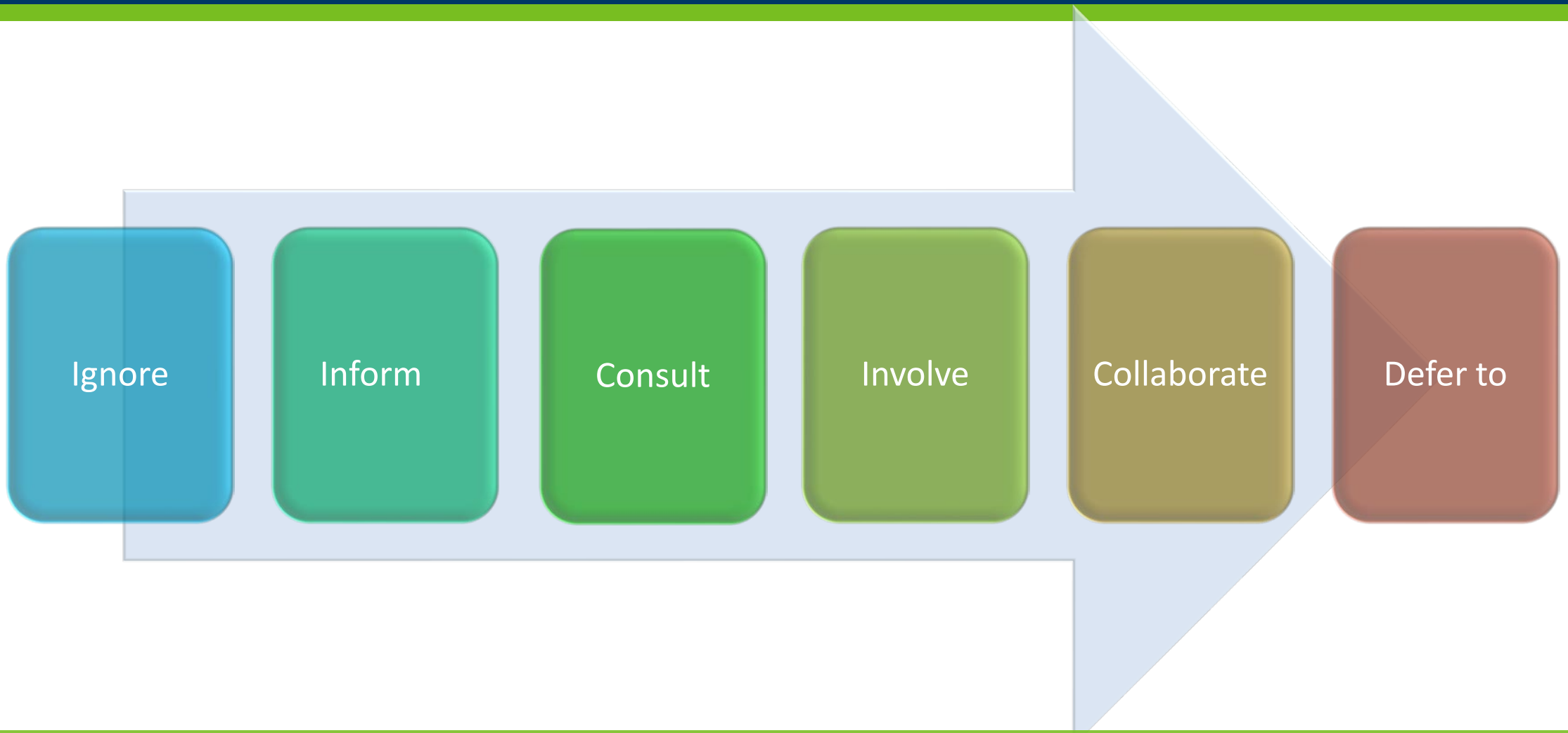
24 State Departments/Agencies
11 Federally Recognized Tribes

Tribes & Economy

- Tribes are Minnesota's 14th largest employer

The Shakopee Mdewakanton Sioux Community owns and operates the Mystic Lake Casino Hotel in Prior Lake, Minnesota. Photo from [Facebook]

Rethinking Stakeholder Engagement



Developed by Building Healthy Communities, Facilitating Power, the Movement Strategy Center, and the National Association of Climate Resilience Planners.
The complete model may be found at: https://movementstrategy.org/b/wp-content/uploads/2019/09/Spectrum-2-1-1.pdf

Stakeholder Engagement @ Commerce

Minnesota Success Stories:
Tribe Combines Solar & Weatherization

Daniel Stover Residence

Location: Fond du Lac Reservation

Weatherization Improvements: Insulation, air sealing, furnace tune-up, duct-leak sealing

Solar Air Heat System: Two 4- x 8-foot panels, complementing a propane heating unit (500-gallon tank)

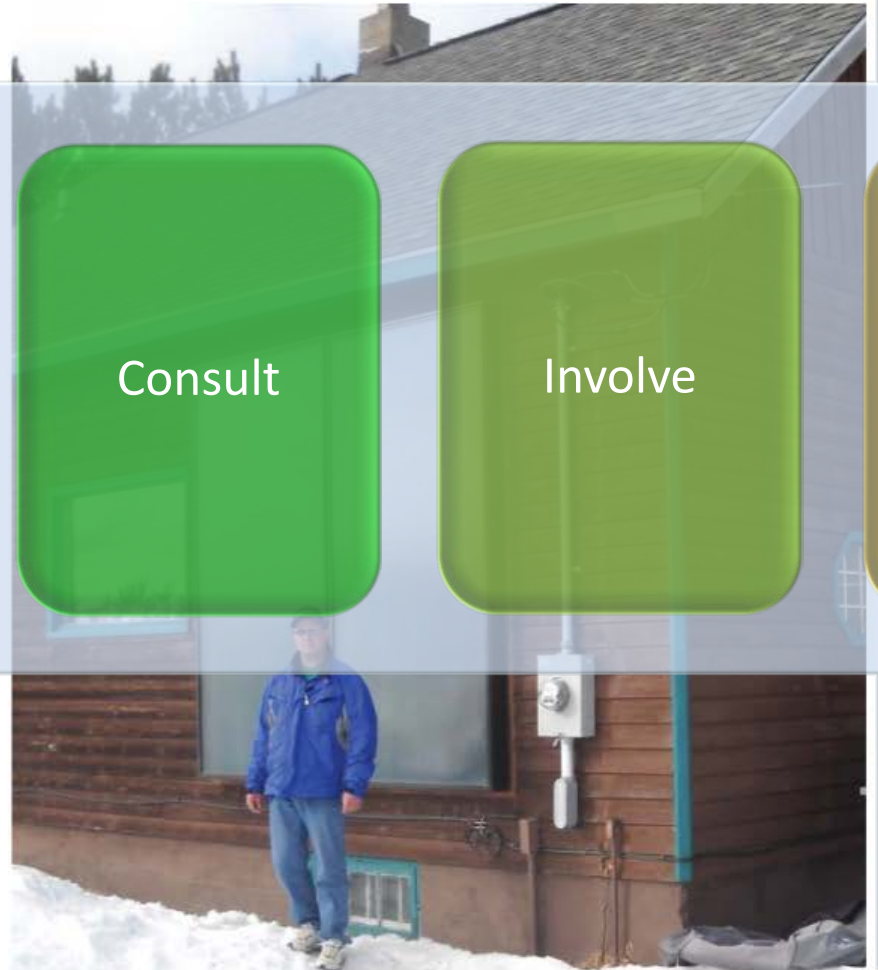
Fond du Lac family receives energy combination—weatherization and solar air heat system

Daniel Stover said it used to take three to four 500-gallon propane tanks each year to heat his home on the Fond du Lac Indian Reservation. But after receiving weatherization assistance in 2007 and a solar air heat system in 2009, his home's fuel consumption decreased by [illegible] percent.

The Stover family, part of the Fond du Lac Band of Lake Superior Chippewa (about 20 miles from Duluth), qualified for Energy Assistance to help pay for their heating bills; subsequently they also qualified for weatherization and a special grant to install a solar air heat system. Two 4- x 8-foot, vertically mounted solar air heat panels were installed on the south-facing wall of the Stover house to produce heat. The result was what might be considered a model for incorporating energy efficiency improvements with emerging technologies in homes of low-income families.

"I'm very fortunate," Stover said. "A weatherization crew came in and plugged air leaks, blew in insulation, tuned up our furnace, and sealed duct leaks. That all made a big difference—and then we had the opportunity to add solar. Solar [air heat] panels became the main heating source for our upstairs." At about $2 per gallon for propane, Stover said he saved more than $2,000 on fuel costs for the past heating season.

Breaking the 'renewable energy divide'



Ignore → Inform → Consult → Involve → Collaborate → Defer to

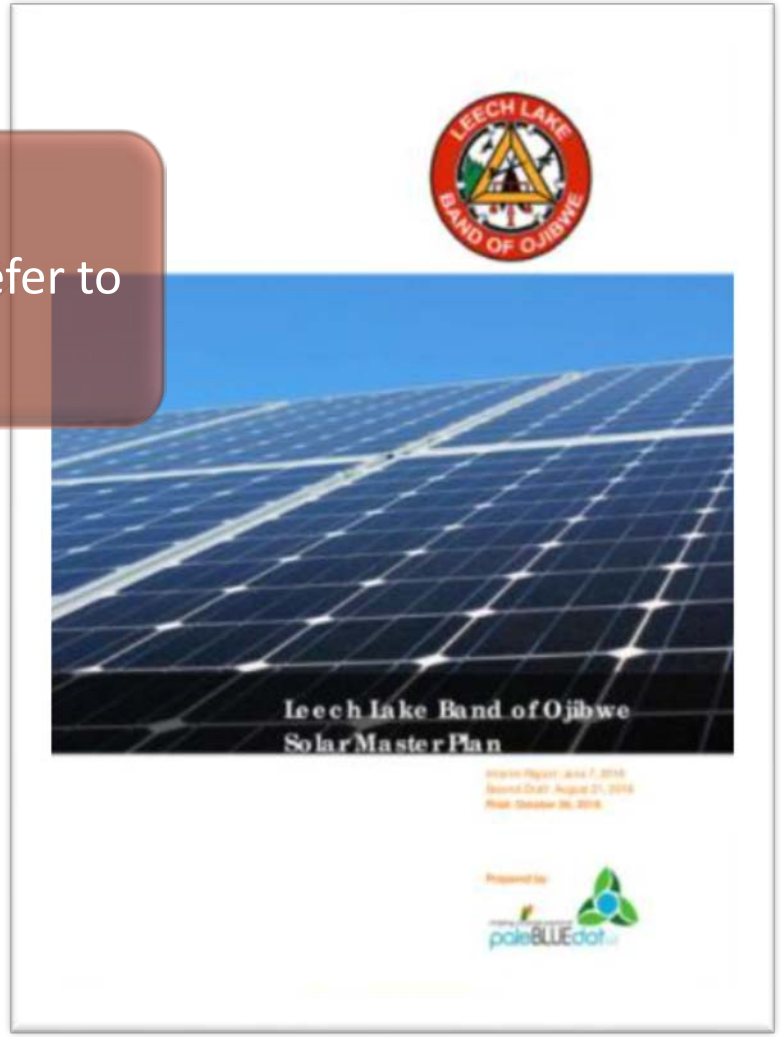
Stakeholder Engagement with partners

GreenStep Tribal Nation

Stakeholder Engagement with partners

Ignore → Inform → Consult → Involve → Collaborate → Defer to

Employees of Rural Renewable Energy Alliance working together with students and faculty of Leech Lake Tribal Collage to construct solar panels, 2017.
Ryan James White



Stakeholder Engagement with partners

Thank You!

Mary Otto | Michelle Gransee

Minnesota Department of Commerce

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Poll #9: Is your organization currently engaging with disadvantaged communities?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Poll #10: What is the biggest barrier your organization faces when engaging with disadvantaged communities?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Daniel White

D.C. Department of Energy and Environment

Submit Questions
www.slido.com event code **#bbsummit**

U.S. DEPARTMENT OF ENERGY

SOLAR FOR ALL

Measuring Up To The Equity Challenge

DANIEL WHITE, ENERGY PROGRAM SPECIALIST
DOEE ENERGY ADMINISTRATION

DEPARTMENT OF ENERGY & ENVIRONMENT

WE ARE WASHINGTON DC

GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

BACKGROUND

2006	2008	2010	2011	2013	2014	2016	2018
Green Building Act	Energy Benchmarking and DC SEU	Energy Efficiency Financing Act	Distributed Generation Amendment Act	Community Renewables Act	Green Codes	Renewable Portfolio Standard Update	Clean Energy DC Act
Creation of Green Building Fund. Set minimum green building standards for public & private buildings	Launched benchmarking and disclosure program	Creation of DC PACE	Localized RPS included Solar Thermal as Tier1	Enabled community solar	Adopted 2012 International Green Construction Code Creation of Solar for All	Creation of Solar For All	Extended the RPS schedule to 100% by 2032 (10% solar by 2041) Revised the solar ACP level and schedule

SOLAR FOR ALL

- Established by the Renewable Portfolio Standard (RPS) Expansion Amendment Act of 2016
- Increases the amount of solar energy generated in the District, and provide those benefits to seniors, small local businesses, nonprofits, and low-income households
- Funded by Renewable Energy Development Fund (RPS alternative compliance payments)
- Task Force of stakeholders informed the development of the Solar for All Implementation Plan

BARRIERS TO SOLAR IN DC

Limited Available Real Estate And Site Accessibility

Customer Acquisition and Education

Workforce Development

ACTIVITIES FUNDED

Innovation and Expansion Grants for solar developers

Job training Solar Works DC

Projects by sister agencies and institutions

Lead by example: community solar, resiliency, and innovation

$23+ million awarded FY 2017 - 2019

SOLAR FOR ALL

Innovation and Expansion Grantees	
Grantee Name:	**Project Description:**
Solar United Neighbors of DC	750 kW, serving at least 215 households.
Grid Alternatives	Up to 300kW, serving up to 100 households
Groundswell, Inc.	326 kW, serving up to 93 households.
New Partners Community Solar Corp.	1 MW, serving at least 325 households.
Urban Energy Advisors	1 MW, serving up to 402 households.
PEER Consultants, P.C.	500 kW, serving 100 households.
Neighborhood Solar Equity, LLC	595 kW, serving up to 100 households.
Open Market ESCO	548 kW, serving 195 households.
Enflection, LLC	1 MW, serving up to 350 households.
Enterprise Community Development (CPDC)	1 MW, serving 2,200 households.

INNOVATION GRANTS

INNOVATION GRANTS

Image: Enterprise Community Development

INNOVATION GRANTS

Images: Enterprise Community Development

SOLAR WORKS DC

DEPARTMENT OF ENERGY & ENVIRONMENT | DEPARTMENT OF EMPLOYMENT SERVICES

Job-Training for careers

- 3 cohorts/year
- 75 trainees
- Part of the Marion Barry Summer Youth Employment Program

Solar for DC residents

- Installations on 60-100 low-income, single family homes

Partnering with local NGOs

- Training by Grid Alternatives Mid-Atlantic

@DOEE_DC

SOLAR WORKS DC

DEPARTMENT OF ENERGY & ENVIRONMENT | DEPARTMENT OF EMPLOYMENT SERVICES

Program Stats

- Completed 7 cohorts in 2 years; 8th cohort begins 9/24
- Trained over 190 residents from all demographics; graduated over 130
- ~40 graduates now in the solar & related industries
- Over 490 kWs of new solar capacity

Successes

- DOES MBSYEP Visionary Award
- ECOS 2017 State Program Innovation Awards Highlight State Leadership & Creativity
- Top 24 American Government Program at Ash Center for Democratic Governance & Innovation at Harvard University
- Additional accolades include Best Workforce Development Program & Best Solar Program

@DOEE_DC

AGENCIES AND INSTITUTIONS

Name	Amount	Description
D.C. Housing Authority	$7.4M	Roof repair/replacement, weatherization, solar and battery storage at DCHA properties.
D.C. Public Library	$1M	Solar + Battery project at the Southwest Branch public library to increase resiliency for the neighborhood.
D.C. Department of General Services	$5.5M	Community Solar project in Oxon Run, on a brownfield sight.

SOLAR FOR ALL

- DC Housing Authority, Jubilee Housing & New Partners partnership
- Rooftop solar array combined with batter storage on-site Resiliency Center
- Provides power to community space for up to 3 days during power outage
- Benefits community with refrigeration for medication and perishables, lighting or other devices during outage event

COMMUNITY SOLAR PARTNERSHIP

- Community Solar at Oxon Run will be the largest clean energy project in the District focused on serving neighborhood residents through DOEE's Solar for All program.

- About 750 households will receive up to $500 per year to reduce electric bills by half

- Reuse of a contaminated District-administered property

- Project Cost: $5.5 million

System Specs

- 2.65 megawatts (2,650 kilowatts) of generation capacity
- 7,200+ solar panels
- 25+ years of clean, safe, silent operation

THANK YOU

Daniel White
Energy Program Specialist,

Renewable Energy and Clean Transportation

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(202) 380-6584

Poll #11: What are your organization's motives for having an energy affordability or energy equity program or project?

Select "Measuring Up to the Equity Challenge" in the Slido drop down to find our Session Polls and Q&A feed

Poll #12: What technologies are you considering as part of present or future energy affordability and/or equity planning?

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Q & A

Submit Questions

www.slido.com event code **#bbsummit**

U.S. DEPARTMENT OF ENERGY

Additional Resources

Clean Energy for Low-Income Communities (CELICA) Toolkit
https://betterbuildingssolutioncenter.energy.gov/CELICA-Toolkit

Low-Income Energy Affordability Data (LEAD) Tool
https://www.energy.gov/eere/slsc/maps/lead-tool

National Community Solar Partnership
https://www.energy.gov/community-solar

Low-Income Resources
www.aceee.org/topic/low-income

Strategies for Successful Low-Income Programs
2017 ACEEE Report: www.aceee.org/research-report/u1713

National Review of Exemplary Energy Efficiency Programs
2019 ACEEE Report: www.aceee.org/research-report/u1901

Energy Burden Research
2016 ACEEE Urban Report: www.aceee.org/research-report/u1602
2018 ACEEE Rural Report: www.aceee.org/research-report/u1806

Poll #13: On a scale of 1-5 stars, how would you rate this session? (1=missed the mark, 3=average, 5=excellent)

Select “Measuring Up to the Equity Challenge” in the Slido drop down to find our Session Polls and Q&A feed

Additional Questions?

Please Contact Us

Follow us on Twitter
@BetterBldgsDOE

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