Welcome

October energy webinar series

Equity and Clean Energy
Tuesday, Oct. 6 at 11 a.m. Central

Building Toward Zero Carbon with Grid Flexibility
Wednesday, Oct. 14 at 11 a.m. Central

Energy Winners and Losers
Wednesday, Oct. 21 at 11 a.m. Central

Slipstream in partnership with **CUSTOMERS*FIRST!***



CUSTOMERS*FIRST!* slipstream

GoToWebinar Housekeeping

Open or close your control panel

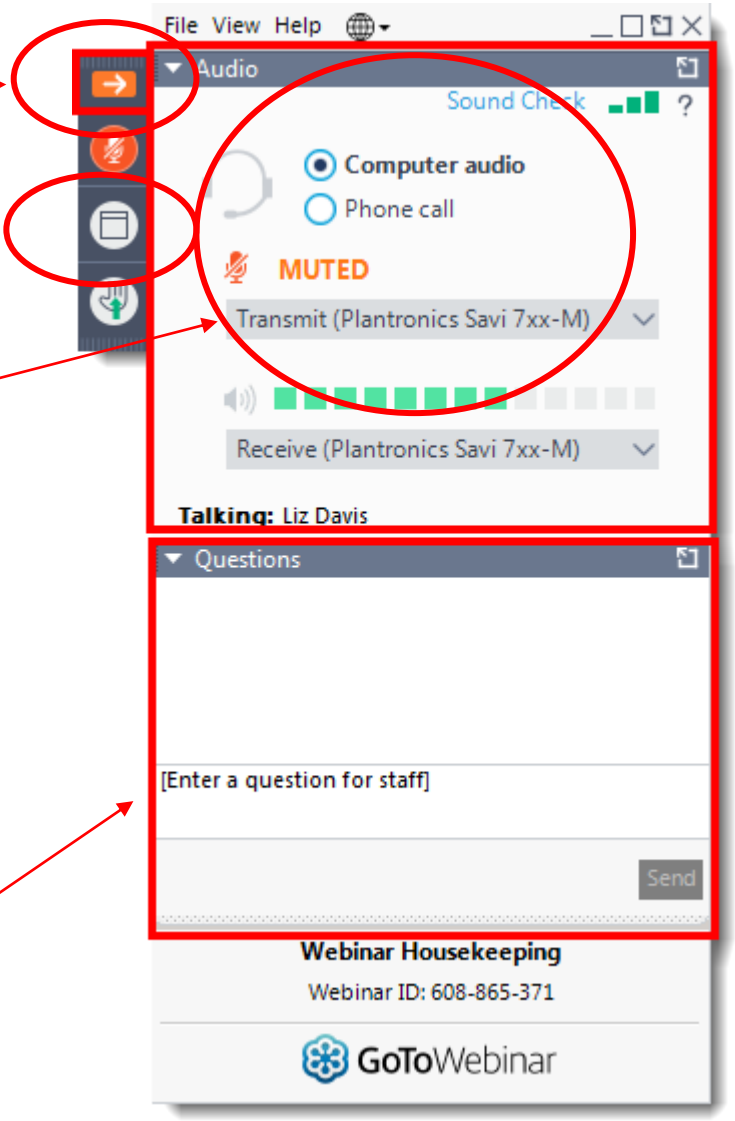
Screen
Maximize screen for better view.

Audio options
Select either the Computer audio or a Phone call.

- If you are using your telephone:
  - Select the “Phone call” button
  - Dial in and enter your access code
  - Enter your audio pin and press #

You will be joined into the webinar on mute.

Participation
Type in a question and hit “send” to ask a question.



Agenda

INTRODUCTION – **Marge Anderson** and **Kristin Gilkes**

WELCOME – **Rebecca Cameron Valcq**, Chairperson,
Public Service Commission of Wisconsin

FEATURED REMARKS – **Mandela Barnes,** Wisconsin's 45th Lieutenant Governor

PANELISTS – **Tony G. Reames**, PhD, PE
Assistant Professor of Energy Justice, University of Michigan
School for Environment & Sustainability | **Q&A**

Laura Goldberg
Midwest Regional Director, Energy Efficiency for All, NRDC | **Q&A**

MODERATED PANEL – **Q&A WITH PANEL**

CUSTOMERSFIRST! slipstream



PSC
of WISCONSIN

Rebecca Cameron Valcq

Chairperson, Public Service Commission of Wisconsin



Mandela Barnes

Wisconsin's 45th Lieutenant Governor

This Photo by Unknown Author is licensed under CC BY-SA

Tony Reames

CUSTOMERSFIRST!

slipstream



SCHOOL FOR ENVIRONMENT AND SUSTAINABILITY
UNIVERSITY OF MICHIGAN

URBAN ENERGY JUSTICE LAB

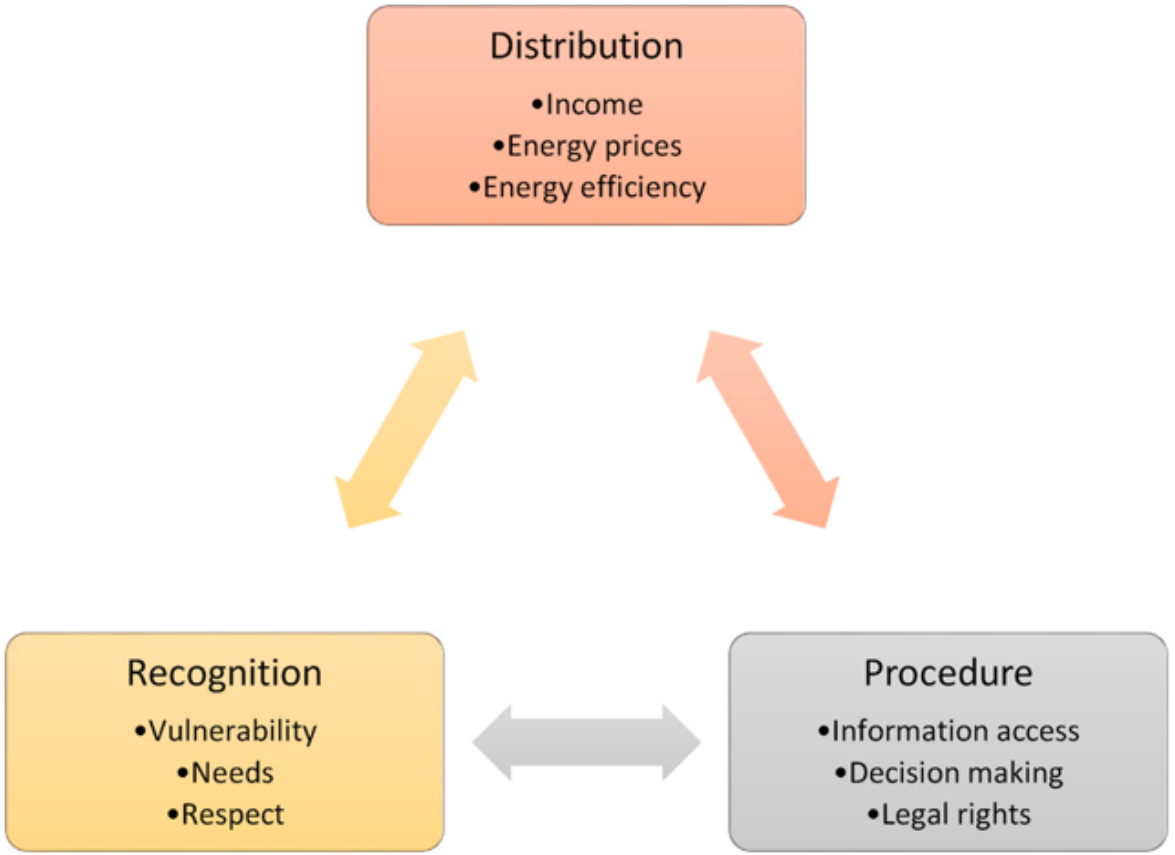
Equity & Clean Energy Across Race, Class, and Place

Tony G. Reames, Ph.D.
Assistant Professor, University of Michigan

Slipstream & CustomersFirst! Coalition Energy Webinar Series
October 6, 2020

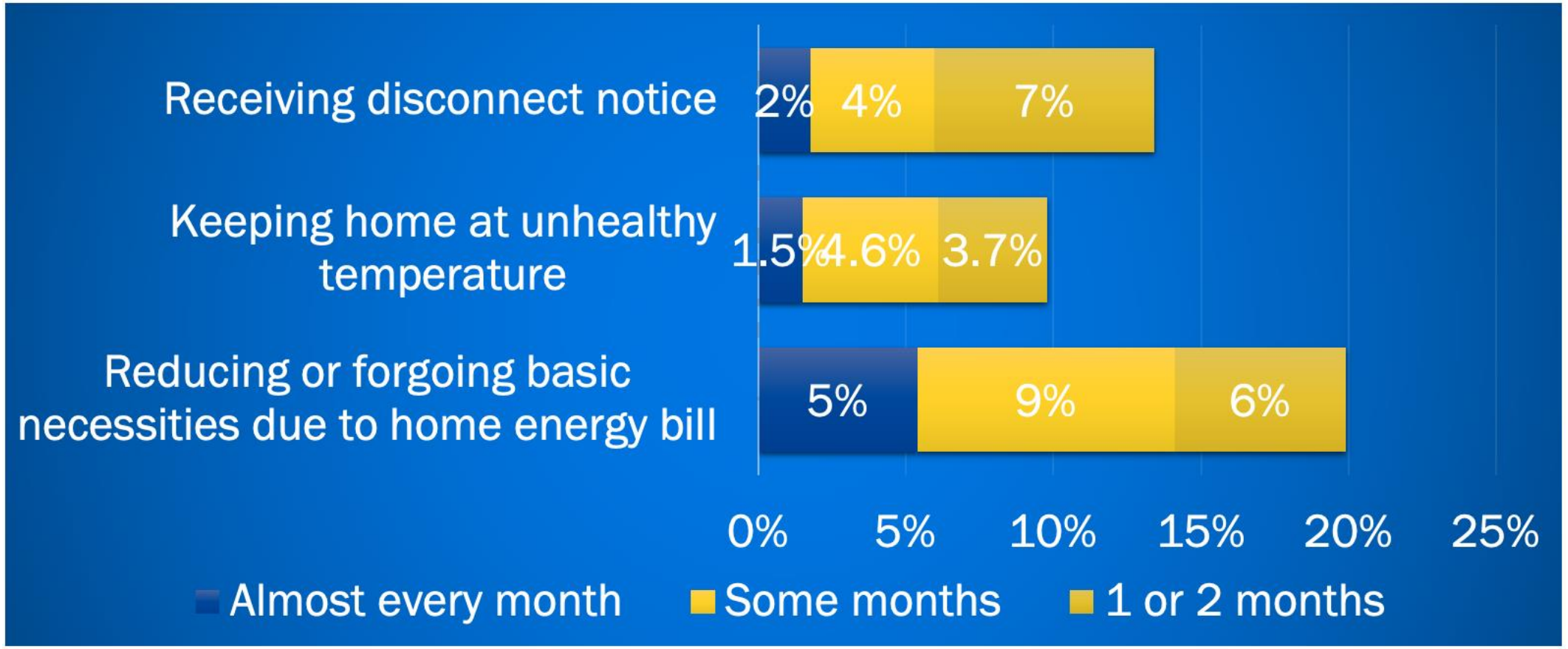
Urban Energy Justice Lab

Research at the intersection of energy & equity



The State of U.S. Energy Insecurity

Pre-pandemic (2015 RECS)

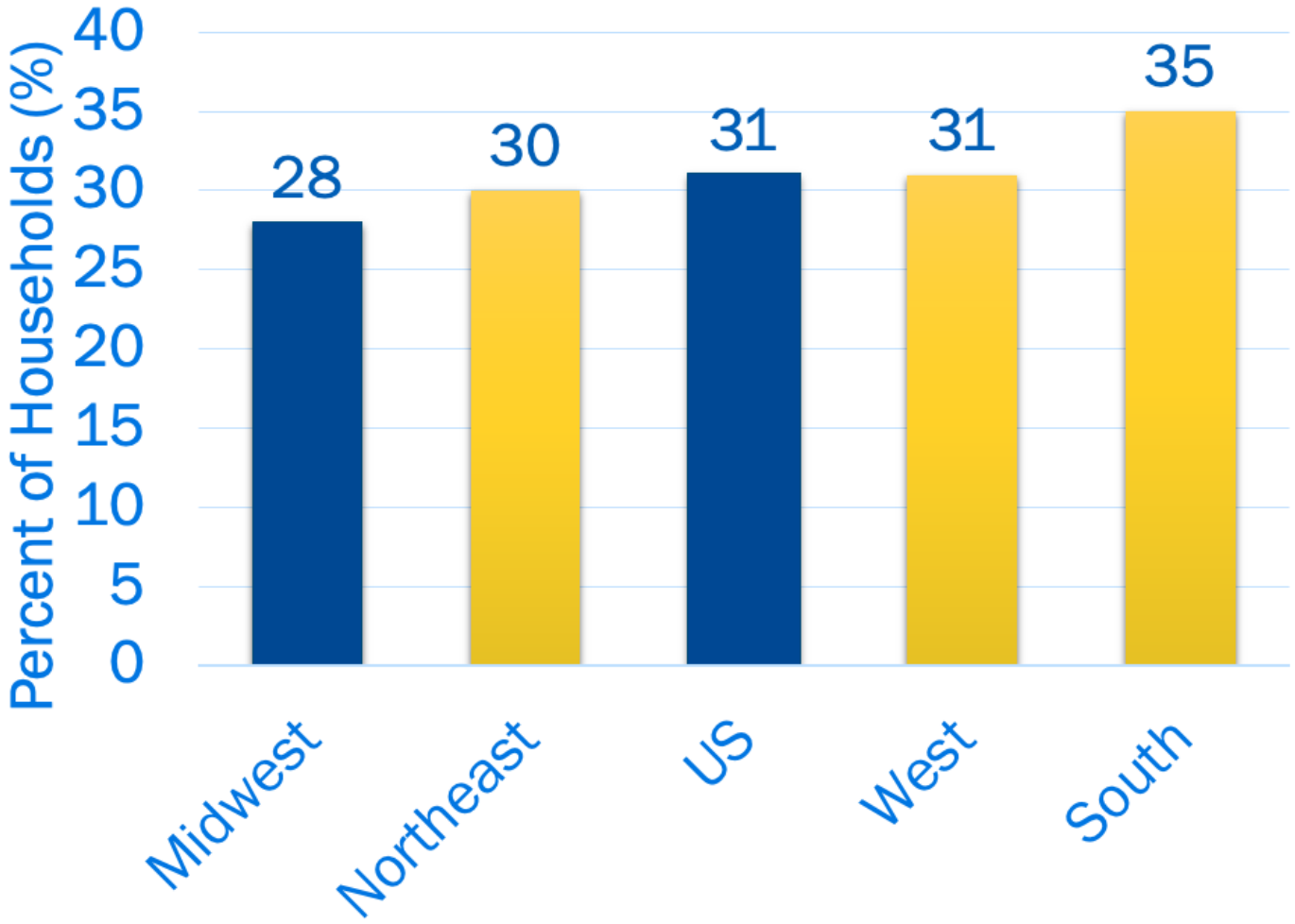


Source: EIA, Residential Energy Consumption Survey 2015

Distribution of Energy Insecurity by Census Region

No. of Energy Insecure HHs

- US 37.1M
- Northeast 6.2M
- Midwest 7.4M
- West 8.1M
- South 15.4M



Source: EIA, Residential Energy Consumption Survey 2015

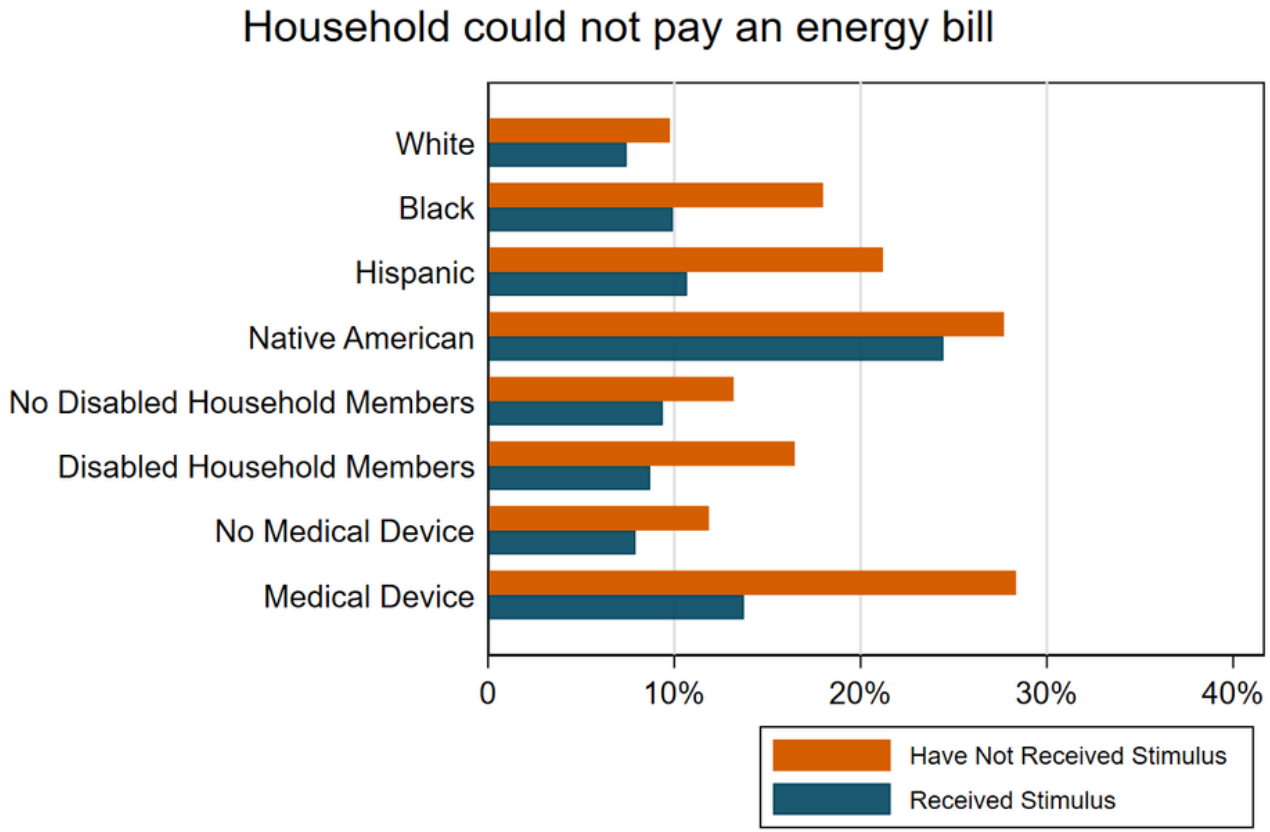
The State of U.S. Energy Insecurity

The pandemic has deepened energy insecurity (May 2020)

Energy insecurity has disproportionately worsened for vulnerable populations

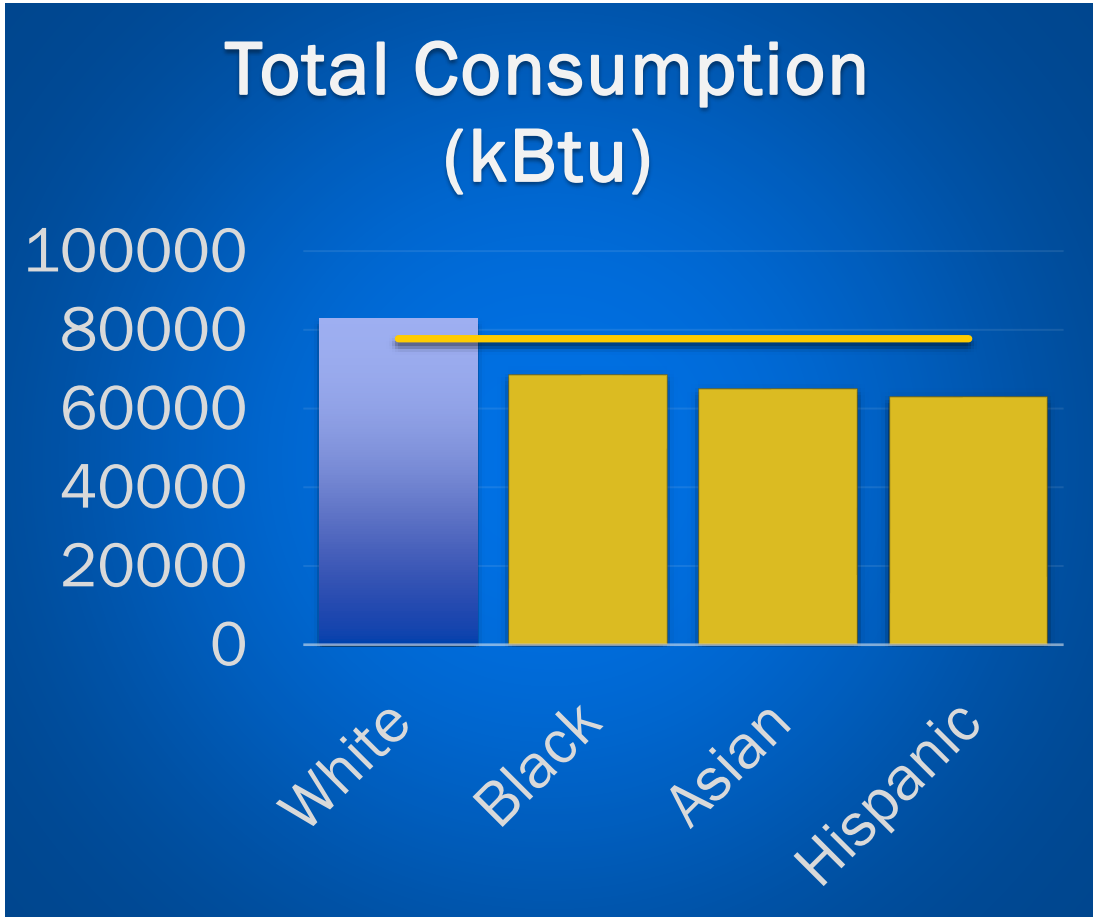
- African American (16 %)
- Hispanic (19 %)
- White respondents (9 %)

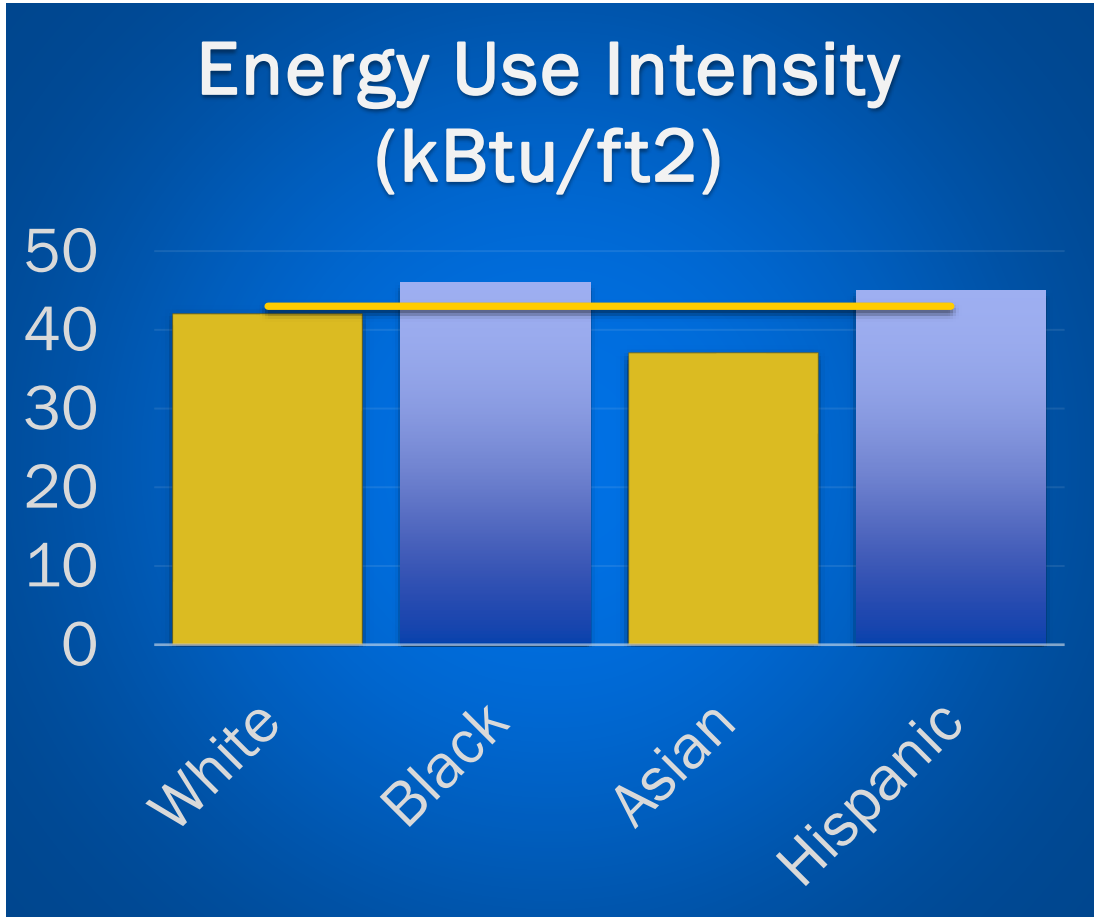
Were far more likely to report difficulty paying an energy bill in the last month



Source: Indiana University

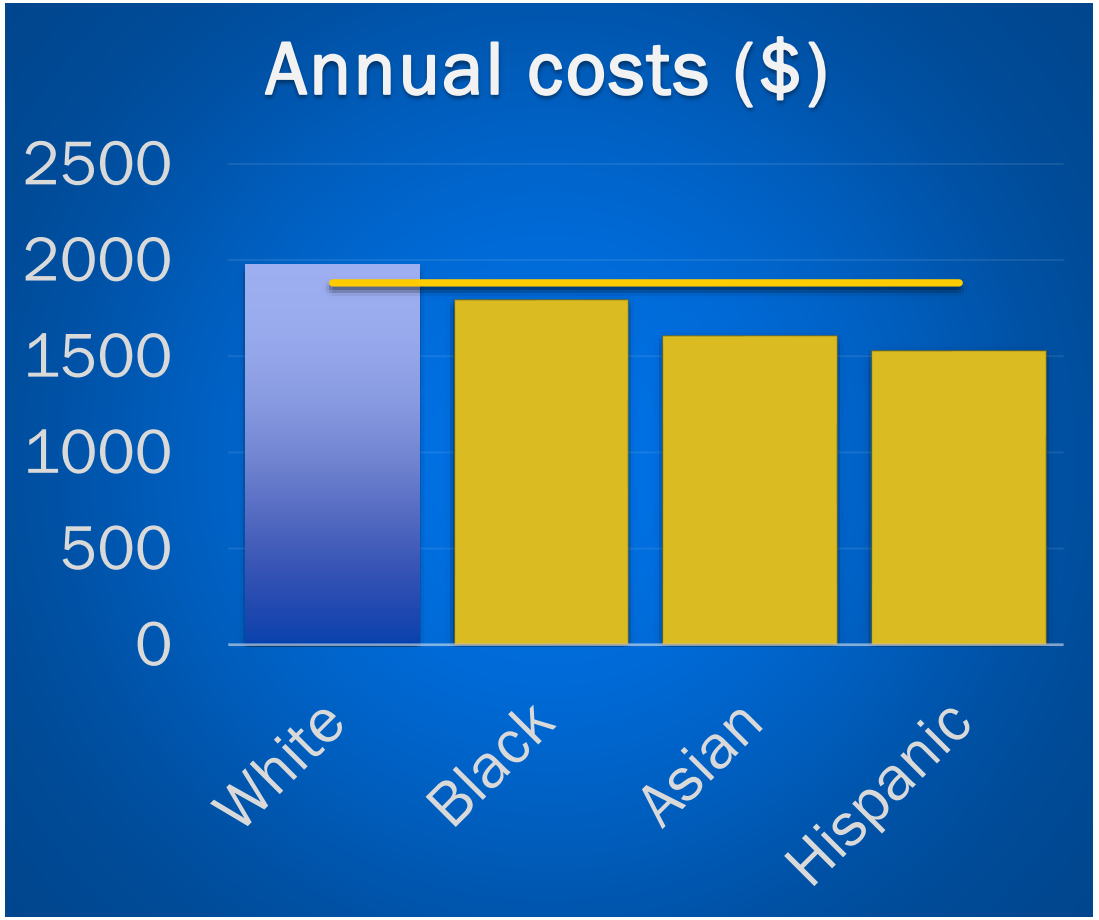
Energy and Race – Consumption vs Efficiency

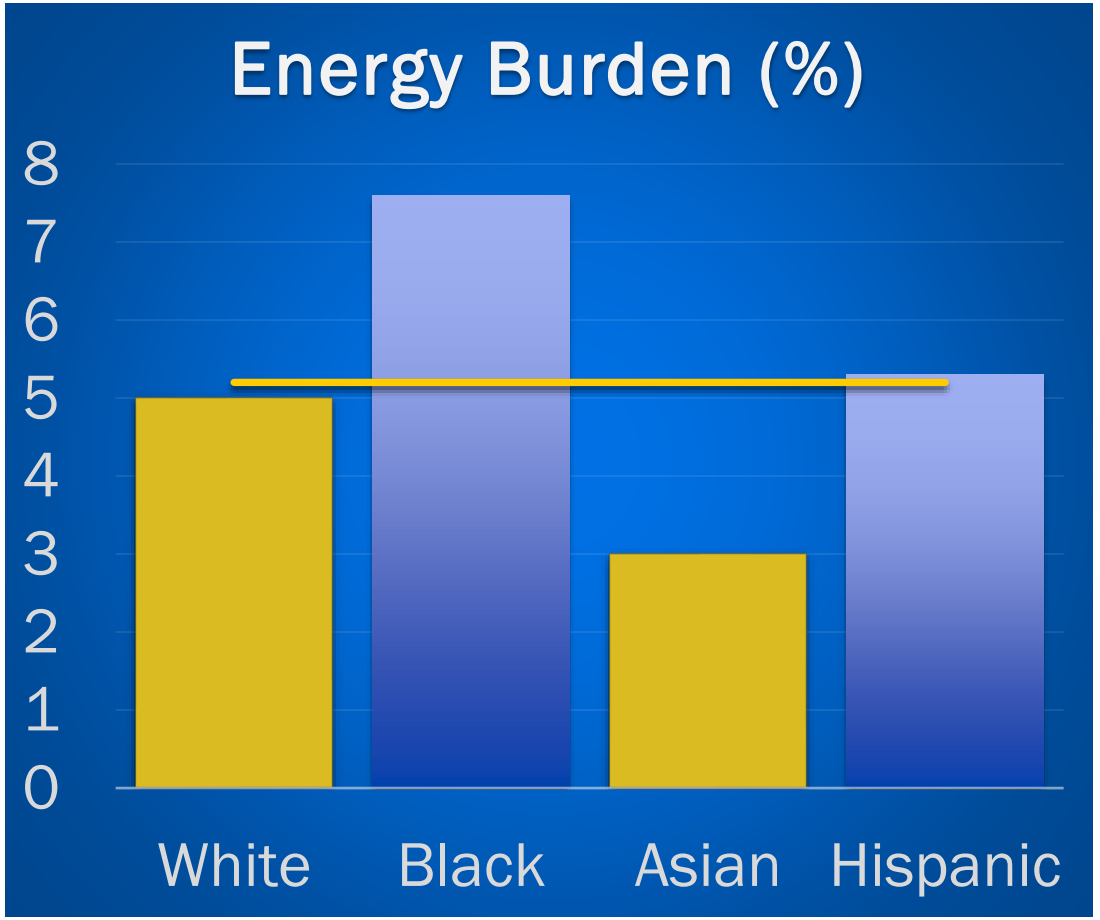




Source: EIA, Residential Energy Consumption Survey 2015

Energy and Race – Cost vs Burden





Source: EIA, Residential Energy Consumption Survey 2015



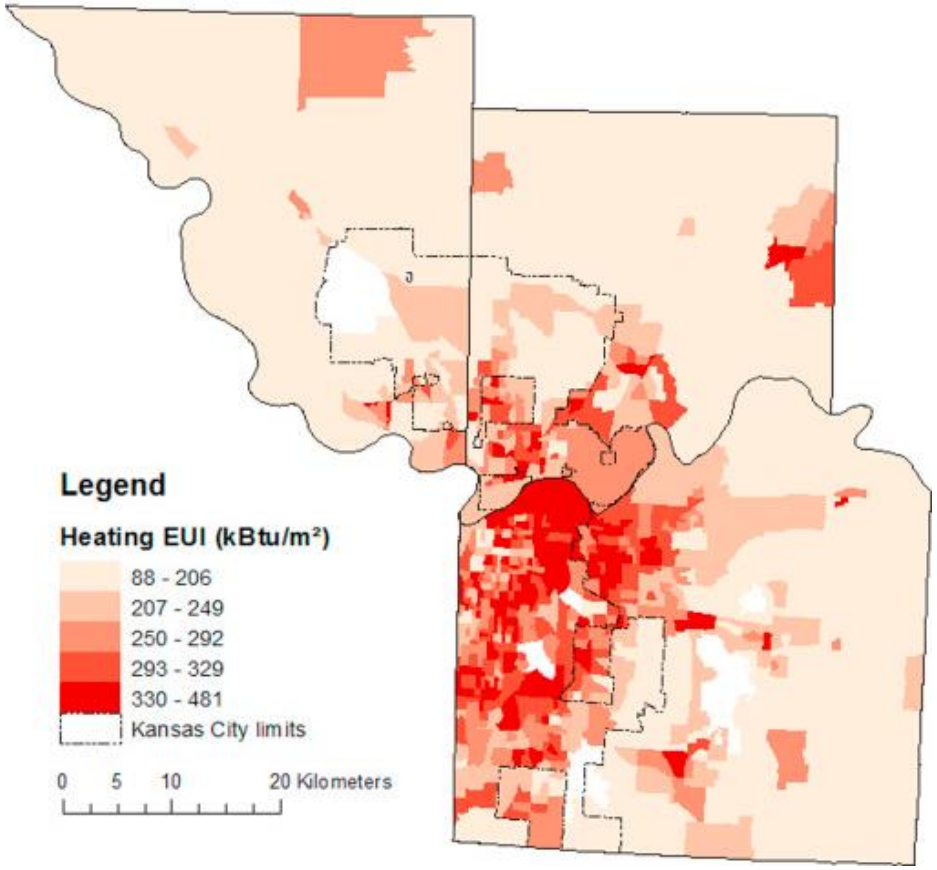
“Where U.S. Energy Policy is concerned, African Americans are proverbial canaries in the mineshaft.”

Congressional Black Caucus Foundation Report, African Americans and Climate Change: An Unequal Burden, 2004

SCHOOL FOR ENVIRONMENT & SUSTAINABILITY
UNIVERSITY OF MICHIGAN

URBAN ENERGY JUSTICE LAB

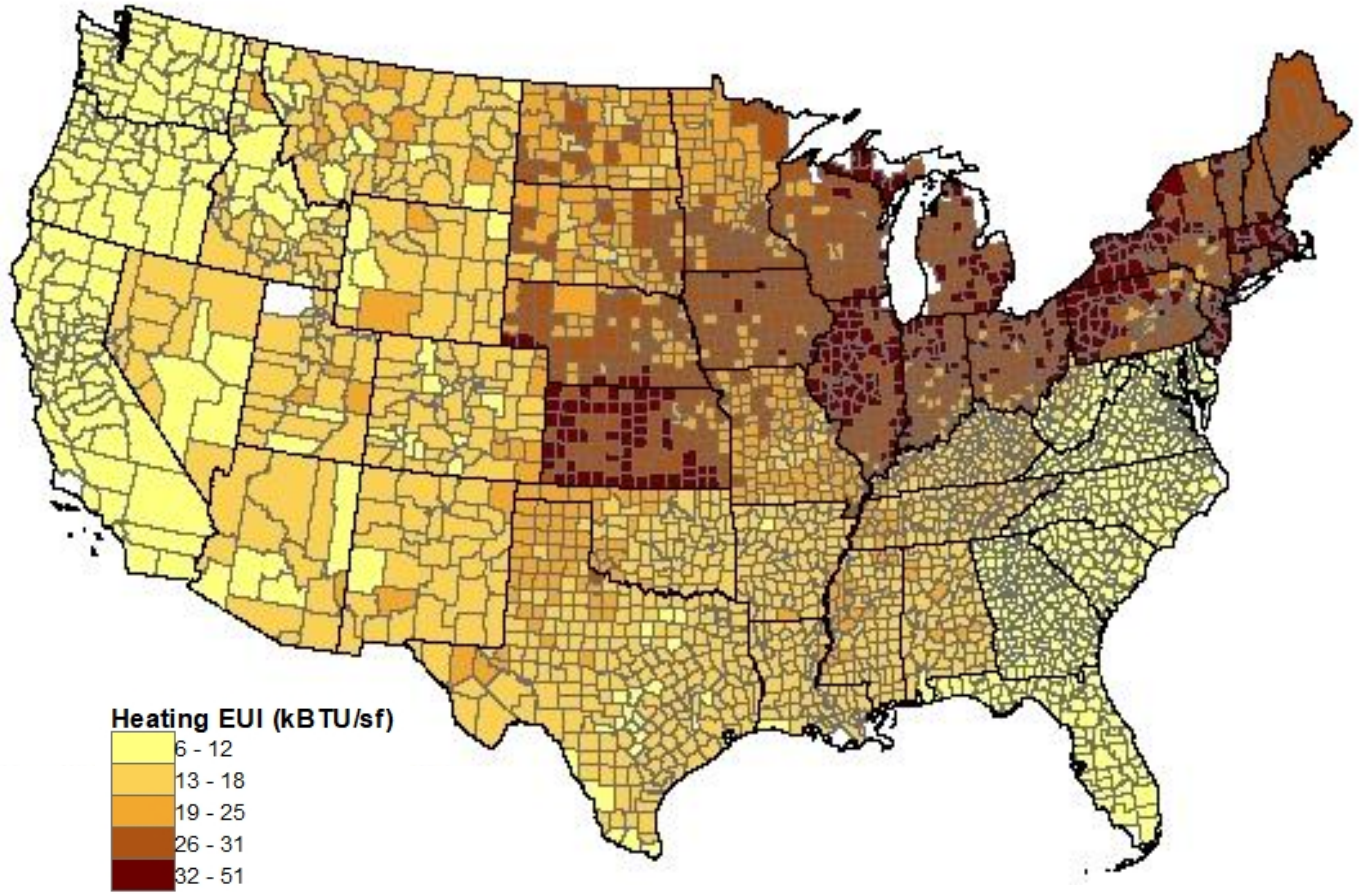
Heating Energy Use Intensity (Efficiency)



Category	Description	Correlation
Economic Status	Median HH Income	↓
	% HHs below poverty	↑
Education	% Less HS diploma	↑
Age	% HH 65+	↑
Race/Ethnicity	% White HHs	↓
	% African American HHs	↑
	% Hispanic HHs	↑
Housing Tenure	% Renter-occupied	↑

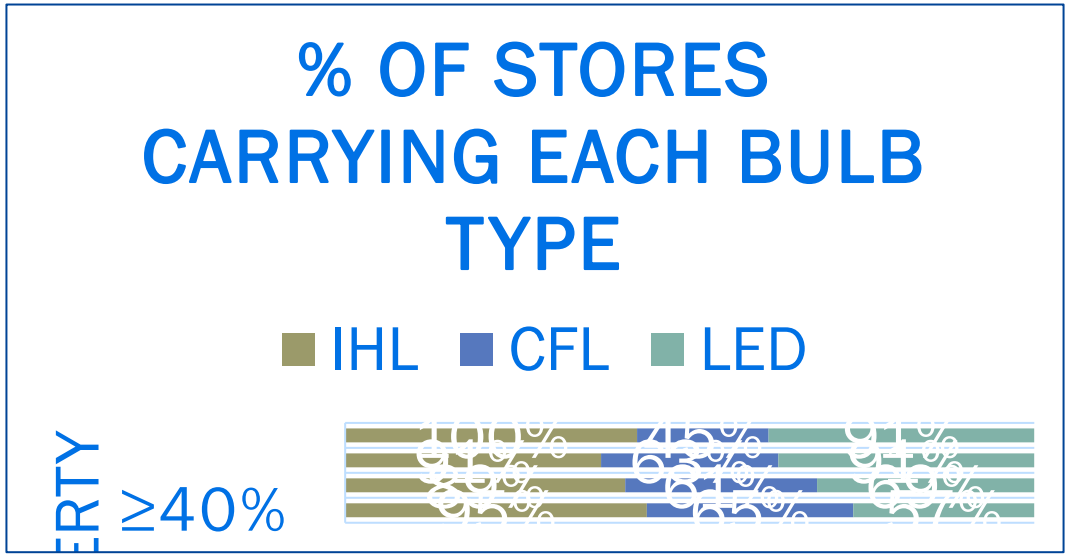
HHs= Households

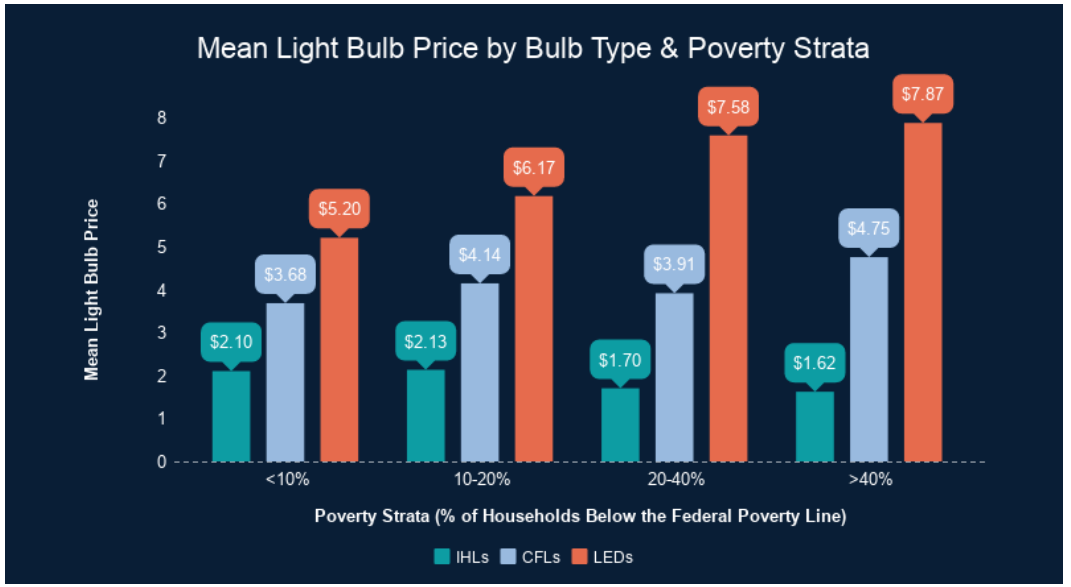
Estimating Heating Energy Efficiency (National)



Technology Access and Affordability Disparities

- Steady growth in the adoption of more energy-efficient bulbs
- Only 29% of U.S. households use at least one LED bulb in their home (US EIA 2015)
- Adoption is not equitably distributed across socioeconomic groups
- Low-income households (<$50k) are less likely than higher income households to purchase LED bulbs (Sylvania 2016).

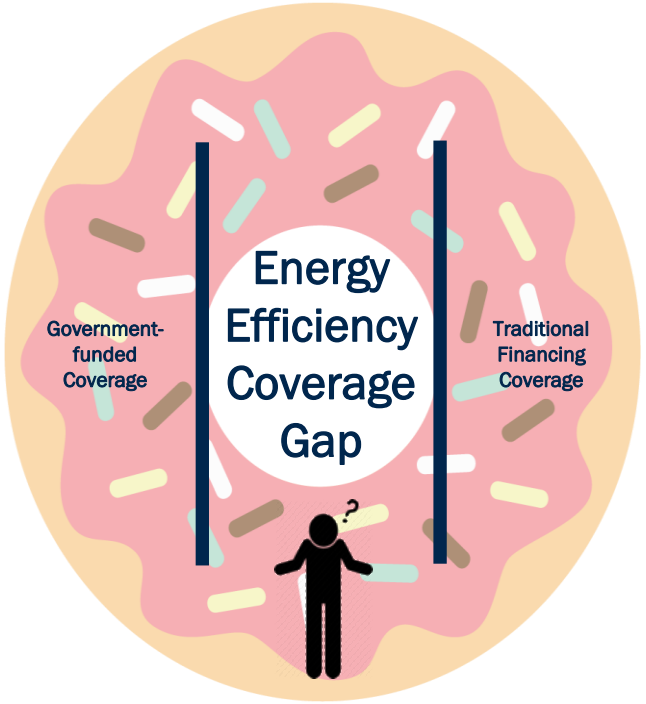




The Energy Efficiency Financing Donut Hole

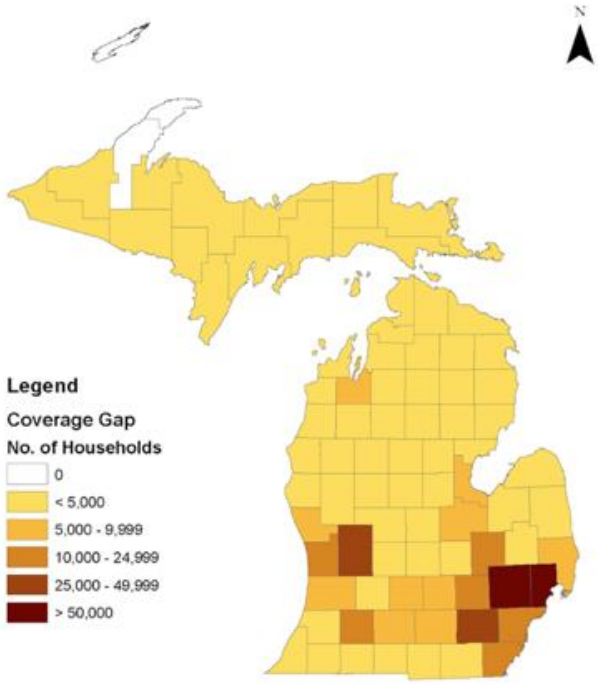
(aka energy efficiency coverage gap)

200% FPL

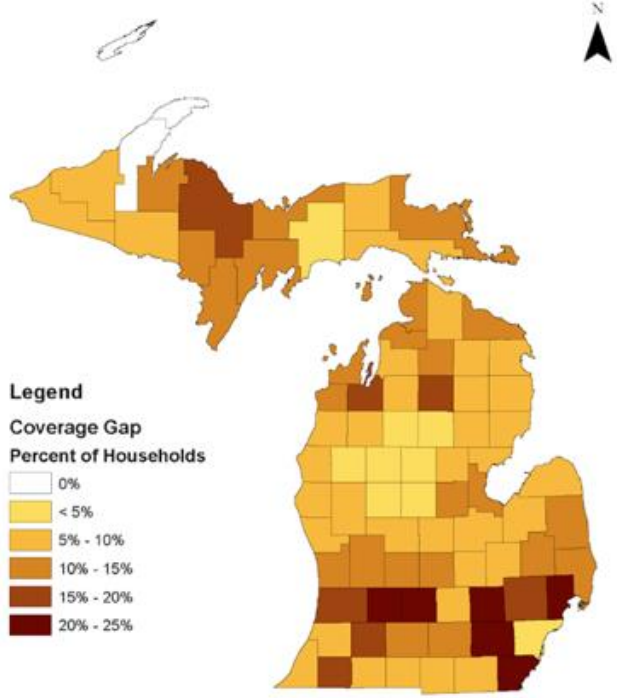


Credit Worthy

1 in 8 (460,000) Michigan HHs



Number of Households



Percent of Households

SCHOOL FOR ENVIRONMENT & SUSTAINABILITY
UNIVERSITY OF MICHIGAN

URBAN ENERGY JUSTICE LAB

Filing the gap…



SAVE ENERGY.
GAIN POWER.

Act now to receive up to $7,500 in energy-saving upgrades to slash your utility bills and make your house a comfy home year-round.

Gain Power Over Your Home's Energy Use and Save Big!

There's no better time to take control of your home's energy bills to save money for the things that matter most.

This special, limited-time rebate and low-interest residential financing are available through the Michigan Saves Loan and Rebate Program for certain energy-efficient equipment and upgrades, such as high-efficiency air conditioners, windows and doors, insulation, water heaters, furnaces, and more.

michigan saves℠

Who Qualifies?

Homeowners who:

- Own a home and have DTE electric and natural gas service
- Are current on DTE electric and gas bills (i.e., have not received a shut-off notice)
- Have a verifiable income within the approved range of eligible incomes
- Agree to have a contractor conduct a whole-home energy assessment

Act Now—Fewer Than 25 Spots Left!

michigan saves
230 N. Washington Square, Ste. 300
Lansing, MI 48933

Contact the program partner in your county to see if you qualify and for next steps.

Wayne County, Walker-Miller Energy Services
Phone: 313-366-8535, ext. 113
Email: dueweke@wmenergy.com

Washtenaw County, Habitat for Humanity of Huron Valley
Phone: 734-800-4220
Email: hip@h4h.org

The Michigan Saves Loan and Rebate Program is sponsored by DTE and implemented by Michigan Saves, with administrative and technical support from Habitat for Humanity of Huron Valley, Walker-Miller Energy Services, and EcoWorks Detroit.

MichiganSaves.org
facebook.com/MichiganSaves @MichiganSaves

DTE eco WORKS Habitat walker•miller

Community-based approaches

- Support equity, justice and democracy; serves as a conduit for community empowerment and self-determination
- Acknowledge that complex decision-making processes guide energy choices and cannot be described using a simple rational-economic model
- Foster social connectedness to transform the way people consume energy – relying on group interaction, peer support, and communal resolve to impact behavior
- Create institutional capabilities to effectively deliver services, and recognize, and respond to fluid conditions

Greater collaboration

- Detroit Communities Reducing Energy and Water (D-CREW)
- Detroit Efficient Housing Workgroup
- Michigan Clean Energy for Low-Income Communities Accelerator (CELICA) Phases I, II, III
- Ann Arbor Aging in Place Efficiently
- Energy Equity Metrics Framework







THANK YOU!

treames@umich.edu

www.thegreenscholar.com

www.urbanenergyjusticelab.com


@tgreames @justurbanenergy

SCHOOL FOR ENVIRONMENT & SUSTAINABILITY
UNIVERSITY OF MICHIGAN

URBAN ENERGY JUSTICE LAB

Laura Goldberg

CUSTOMERSFIRST!

slipstream

ENERGY EFFICIENCY FOR ALL

NRDC

energyefficiencyforall.org

Equity & Clean Energy

Laura Goldberg - Midwest Regional Director, Energy Efficiency for All, Natural Resources Defense Council

Presented at the Slipstream & CustomersFirst! Coalition Energy Webinar Series

October 6, 2020

ENERGY EFFICIENCY FOR ALL

energyefficiencyforall.org

OUR WORK

NRDC works to safeguard the earth—its people, its plants and animals, and the natural systems on which all life depends.

Areas Of Work

We believe the world's children should inherit a planet that will sustain them as it has sustained us. NRDC works to ensure the rights of all people to the air, the water and the wild, and to prevent special interests from undermining public interests.

- Climate Change
- Communities
- Energy
- Food
- Health
- Oceans
- Water
- The Wild

How We Work

NRDC experts use data and science to unearth the root causes of the problems that confront us. We use that information to blueprint transformative solutions, and we mobilize the support of partners, members, and activists to advocate for laws and policies that will protect our environment far into the future.

What is Energy Efficiency for All

Our Vision

Powerful coalitions of affordable housing, health, energy, environmental, and community leaders drive changes in policy and practice to ensure that all renters live in homes that are affordable and healthy.

What We Do

Energy Efficiency for All unites people from diverse sectors and backgrounds to collectively make multifamily affordable homes energy and water efficient. We do this work so people in under-invested communities – particularly black, Latinx, and other communities of color – who have been marginalized can equitably benefit from the health, economic, and environmental advantages of energy and water efficiency. Reducing energy and water use in affordable multifamily housing will improve the quality of life for millions, preserve affordable housing across the country, reduce the energy burden on those who feel it the hardest, and cut carbon pollution.

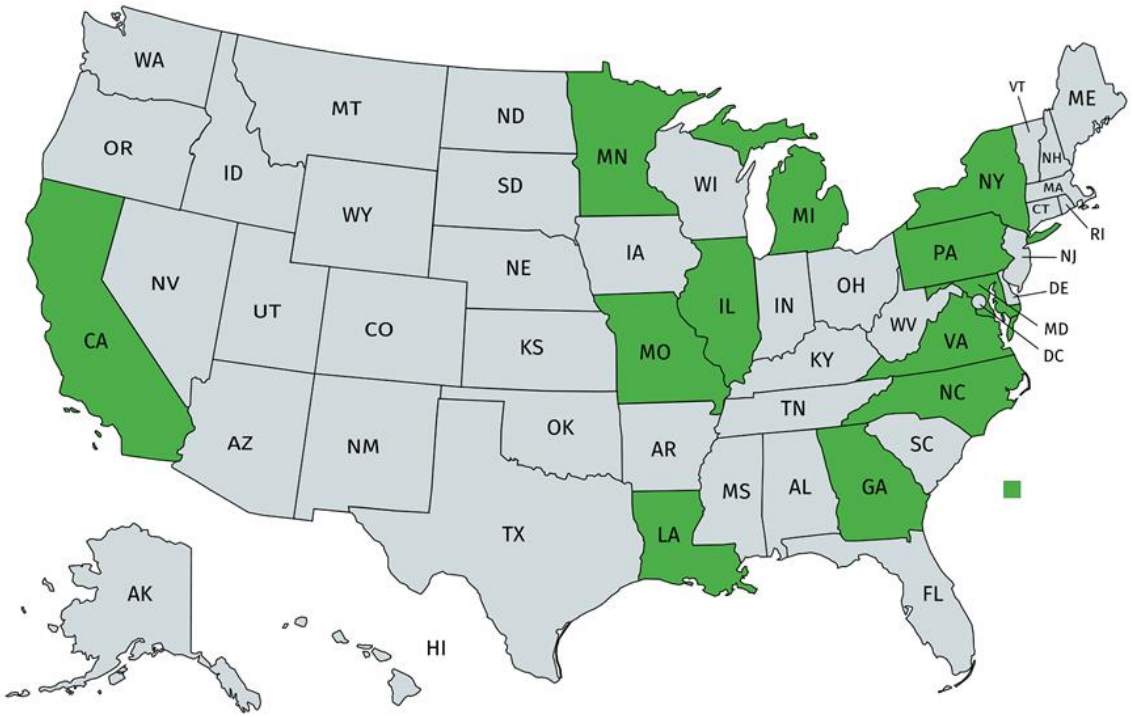
THE JPB FOUNDATION

ENERGY FOUNDATION
building a new energy future

NATIONAL HOUSING TRUST

NRDC

ELEVATE ENERGY





$494 M

IN CONFIRMED & ESTIMATED NEW FUNDING FOR EFFICIENCY UPGRADES SECURED BY EEFA PARTNERS



108,271

AFFORDABLE APARTMENTS HAVE RECEIVED ENERGY EFFICIENCY UPGRADES SO FAR



216,542*

LOW-INCOME RENTERS HAVE BENEFITED FROM ENERGY EFFICIENCY UPGRADES SO FAR

*assumes 2 persons per apartment

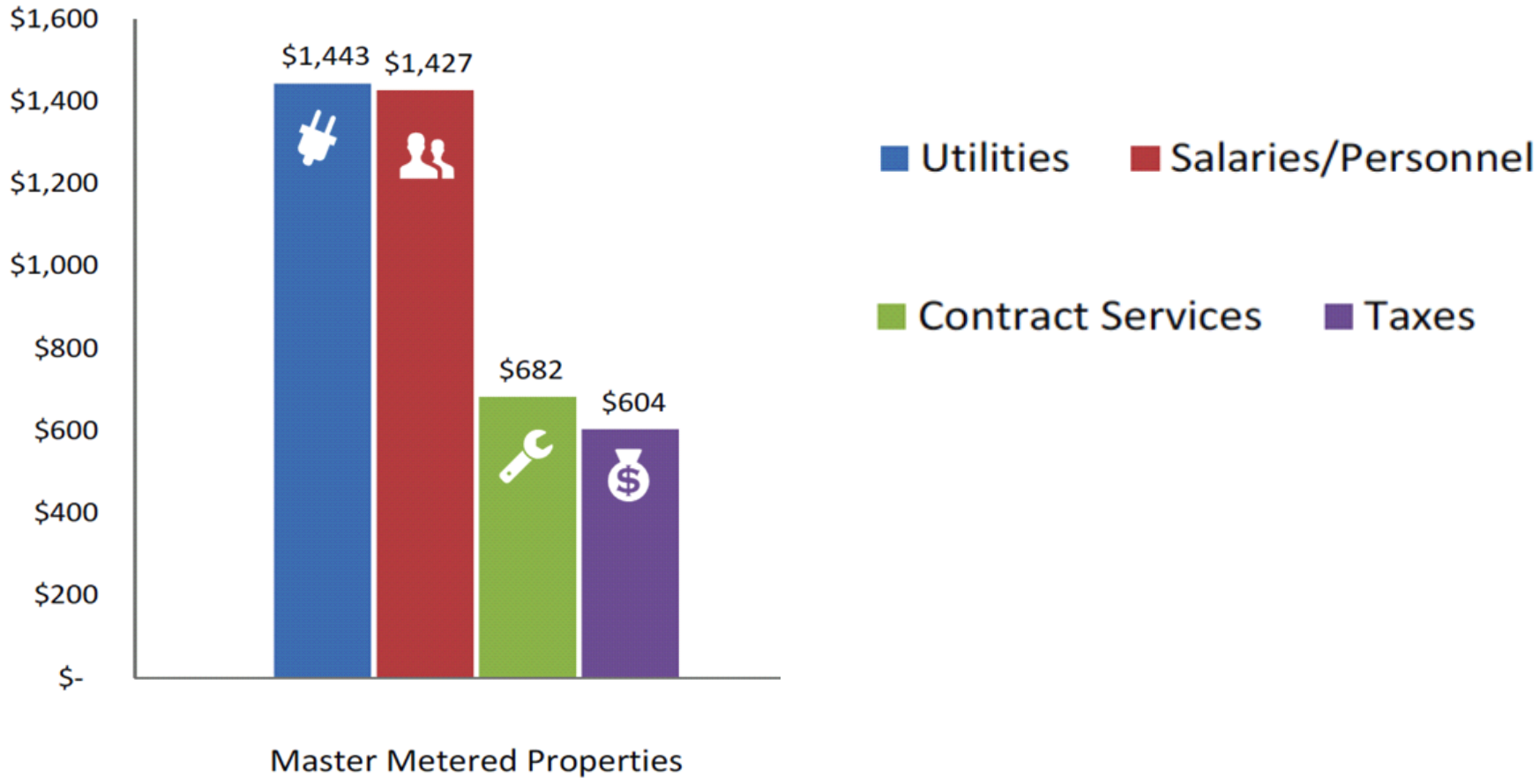
Importance of Working in Coalition and Building Cross Sector Partnerships





Energy Efficiency and the Preservation of Affordable Housing

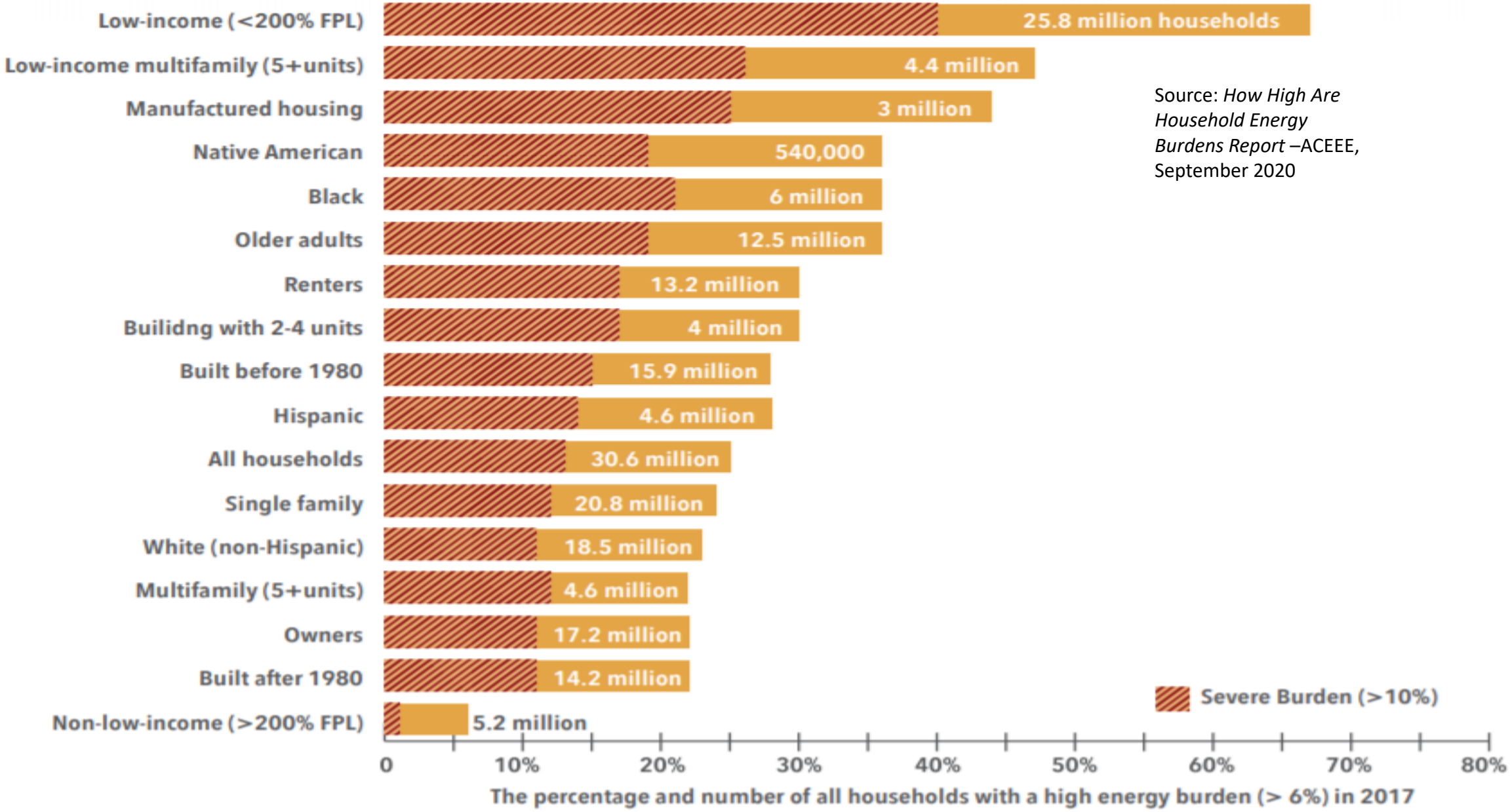
Energy costs present the best opportunity to reduce operating expenses and help sustain/preserve affordable housing





- Energy Burden - The percentage of income spent on home-related energy bills is considered your energy burden.
- Under-resourced, black, Latinx, renters, and rural households have greater energy burdens than other households.
- Energy efficiency improvements can significantly cut or eliminate the excess energy burden experienced by these households.

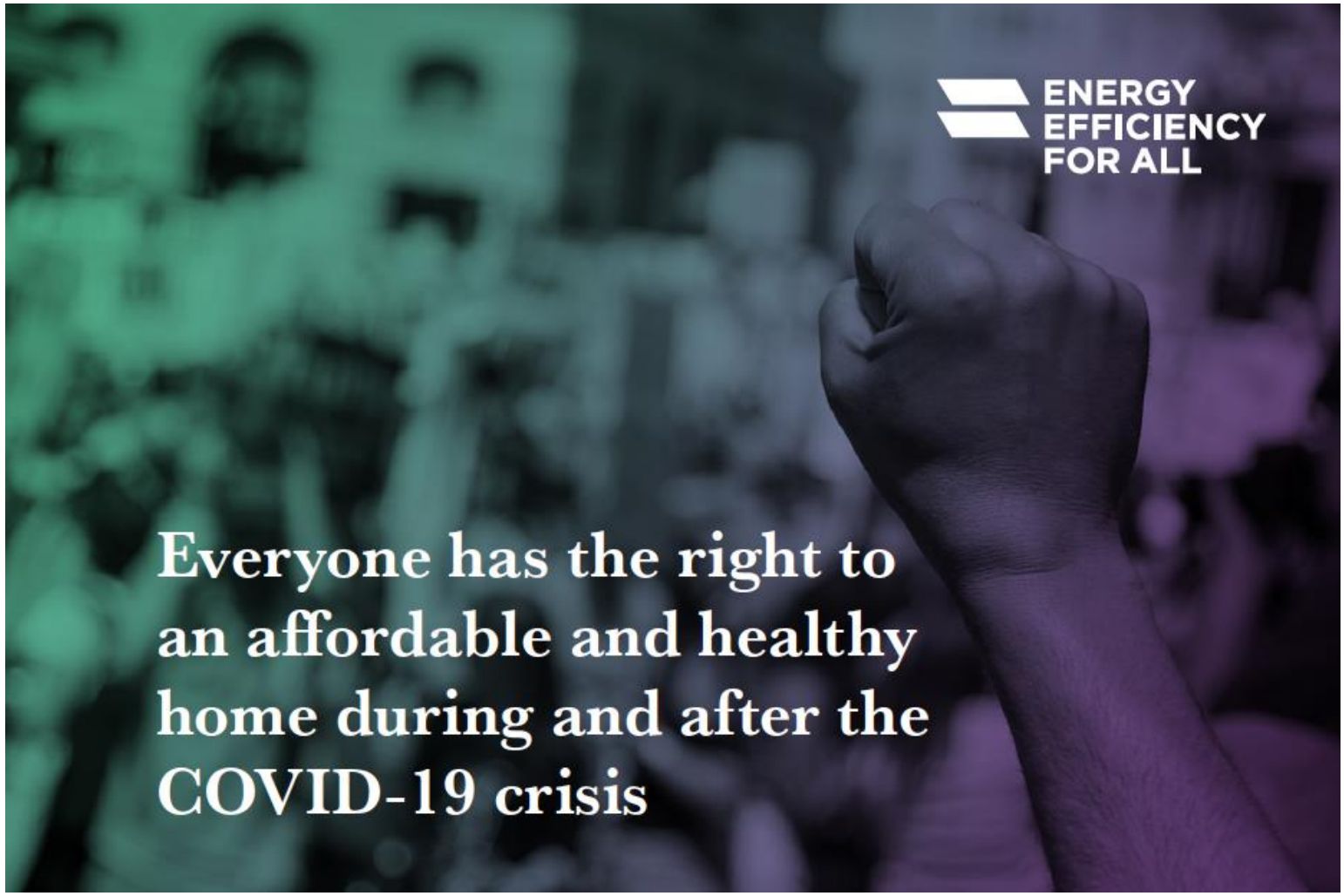
FIGURE 2. The percentage and number of households nationally with a high energy burden (> 6%) across different subgroups in 2017



Source: *How High Are Household Energy Burdens Report* –ACEEE, September 2020

Racial Inequities of COVID-19

- Impacts from COVID-19 will worsen America's housing crisis and deepen energy inequities
- Households will continue to have to make tradeoffs between food, medicine, energy, and housing
- This impact is being felt most by people of color in this country
- NAACP - "we must address the systemic underpinnings of inequity" while also providing an emergency response that meets the critical needs in our communities



Energy Efficiency as a tool for Energy Equity & Justice

"By improving housing quality, energy efficiency can begin the process of restorative justice for the African American population that has long been impacted by substandard housing conditions.

This is critically important for African American households, who have been living in poor quality and energy-inefficient homes for multiple generations since the deliberate origination and in view of the continued legacy of racist housing policies."



Source: Energy efficiency as energy justice: addressing racial inequities through investments in people and places Jamal Lewis & Diana Hernández & Arline T. Geronimus

Inequities in Energy Efficiency Implementation

- According to the 2017 American Housing Survey Census data, 9% of total U.S. households completed an energy-efficient improvement in the past two years
  - Only 17% were low-income households.
  - Low income households (200% FPL or below) make up about 30% of the population
  - They are underrepresented in households completing energy efficiency upgrades
  - They are not proportionally accessing and benefiting from these investments
- Untargeted utility energy efficiency programs do not effectively reach communities of color and low-income communities—particularly those living in multifamily buildings
- Multifamily units occupied by low-income renters had 4.1 fewer energy efficiency features in 2005 and 4.7 fewer in 2009 compared with other households.



Best Practices for Affordable Multifamily Energy Efficiency Programs

- State or Commission low-income and low-income multifamily specific EE requirements
- Utility portfolio low-income single-family and multifamily specific saving and/or spending goals, and related performance targets and incentives
- Robust program design
  - A whole building, holistic approach – beyond direct install
  - Rich to fully covered incentives
  - One-stop shop
  - Co-delivery with gas and water utilities
- Flexible eligibility verification
- Health & safety and healthy building materials
- Direct connections to energy assistance programs
- Coordination with low-income solar programs
- Equitable workforce development, job training, and hiring
- Low-income multifamily specific and equity-related reporting requirements

Equitable Processes & Engagement

- Energy efficiency and energy decision-making spaces are often inaccessible to the people and communties affected most by the decisions made there

- Organizations and community members should be able to meaningfully engage in Public Utility Commission & utility decisions without legal representation to achieve fair outcomes

- Increase procedural equity in energy decision-making, especially for under-resourced communities and communities of color. Create authentic, inclusive spaces for direct input and influence on programs from community-based organizations – such as environmental justice, racial equity, affordable housing, renter advocacy, low-income advocacy, and other under-represented groups and community members.



Procedural Equity in EE

Accessible meetings, hearings, discussions

-Hold meetings, public hearings, workshops, etc. at night and on the weekend

-Offer virtual participation opportunities / For in-person - offer food, childcare, and transportation stipends/reimbursements
-
Create low-income energy efficiency workgroups, with meaningful community leadership

Make intervention into energy efficiency cases more accessible

- Consider how to make public comments more impactful, e.g. a part of the record
- Update and make e-docketing systems easier to use
- Consider intervenor compensation or support

Outreach & Education

- Increase awareness and education on Public Utility Commissions, utilities, and the types of decisions they make
- Increase outreach and education around what energy efficiency is, what programs are available, and how to influence future programs

ENERGY EFFICIENCY FOR ALL

Inclusive language

- Use alternatives to “low-income” such as “under-resourced” or other preferred community language
- Break down acronyms

THE SPECTRUM OF COMMUNITY ENGAGEMENT TO OWNERSHIP

Facilitating Power

STANCE TOWARDS COMMUNITY	0 IGNORE	1 INFORM	2 CONSULT	3 INVOLVE	4 COLLABORATE	5 DEFER TO
IMPACT	**Marginalization**	**Placation**	**Tokenization**	**Voice**	**Delegated Power**	**Community Ownership**
COMMUNITY ENGAGEMENT GOALS	Deny access to decision-making processes	Provide the community with relevant information	Gather input from the community	Ensure community needs and assets are integrated into process & inform planning	Ensure community capacity to play a leadership role in implementation of decisions	Foster democratic participation and equity through community-driven decision-making; Bridge divide between community & governance
MESSAGE TO COMMUNITY	***Your voice, needs & interests do not matter***	***We will keep you informed***	***We care what you think***	***You are making us think, (and therefore act) differently about the issue***	***Your leadership and expertise are critical to how we address the issue***	***It's time to unlock collective power and capacity for transformative solutions***
ACTIVITIES	Closed door meeting Misinformation Systematic	Fact sheets Open Houses Presentations Billboards Videos	Public Comment Focus Groups Community Forums Surveys	Community organizing & advocacy House meetings Interactive workshops Polling Community forums	MOU's with Community-based organizations Community organizing Citizen advisory committees Open Planning Forums with Citizen Polling	Community-driven planning Consensus building Participatory action research Participatory budgeting Cooperatives
RESOURCE ALLOCATION RATIOS	**100%** Systems Admin	**70-90%** Systems Admin **10-30%** Promotions and Publicity	**60-80%** Systems Admin **20-40%** Consultation Activities	**50-60%** Systems Admin **40-50%** Community Involvement	**20-50%** Systems Admin **50-70%** Community Partners	**80-100%** Community partners and community-driven processes ideally generate new value and resources that can be invested in solutions

Distributional Equity

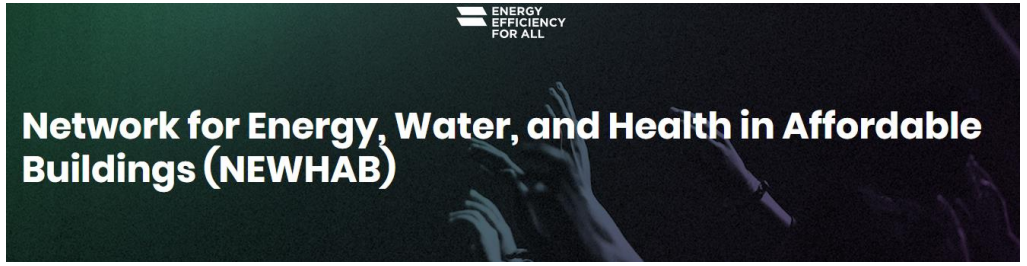
- Energy Efficiency investments and outcomes by utilities and regulators are distributed equitably. Decisions ultimately benefit customers, specifically communities of color and under-resourced communities.
- High percentage of EE portfolio investment going to low-income, Brown & Black households and communities
- EE portfolio has robust supplier and contractor diversity, with a high percentage of jobs going to low-income, Brown, & Black businesses and organizations
- Commissions/individual proceedings set equity goals and metrics for utilities, collect/incorporate data, geography + demographics to achieve those goals, and report transparently.
- Energy burden is capped



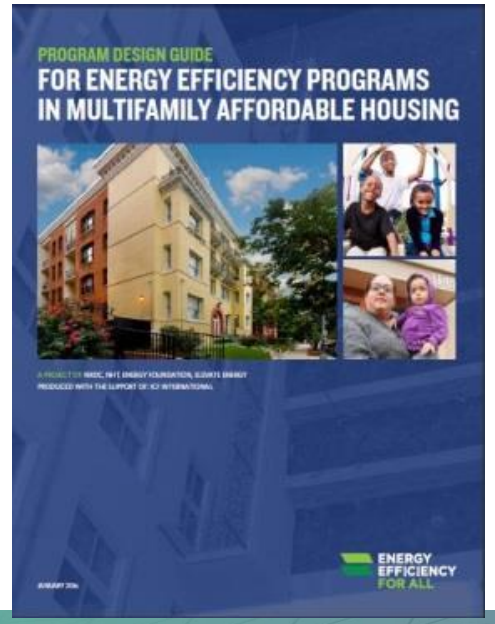
EEFA Resources

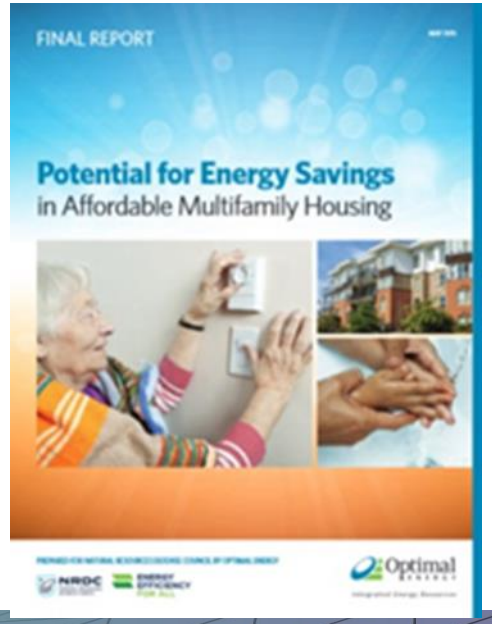


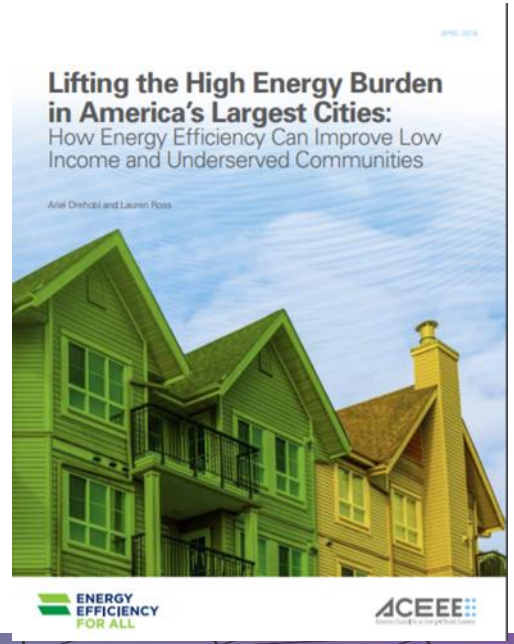
www.energyefficiencyforall.org



www.energyefficiencyforall.org/newhab







Thank You!



LAURA GOLDBERG

lgoldberg@nrdc.org
EEFA Midwest Regional Director – Energy Efficiency for All
NRDC

Q&A with panel

CUSTOMERSFIRST!

slipstream



Location:

- **https://app.keysurvey.com/f/41513656/2259/**

CUSTOMERSFIRST!

slipstream

Save the date!

October energy webinar series

Equity and Clean Energy
Tuesday, Oct. 6 at 11 a.m. Central

Building Toward Zero Carbon with Grid Flexibility
Wednesday, Oct. 14 at 11 a.m. Central

Energy Winners and Losers
Wednesday, Oct. 21 at 11 a.m. Central

Slipstream in partnership with **CUSTOMERS*FIRST!***

