

# Inclusive Decarbonization **Speakers**

McKenna Dunbar, Sierra Club (moderator)

Jamal Lewis, Rewiring America

Erin Cosgrove, NEEP

Maggie Kelley Riggins, SEEA

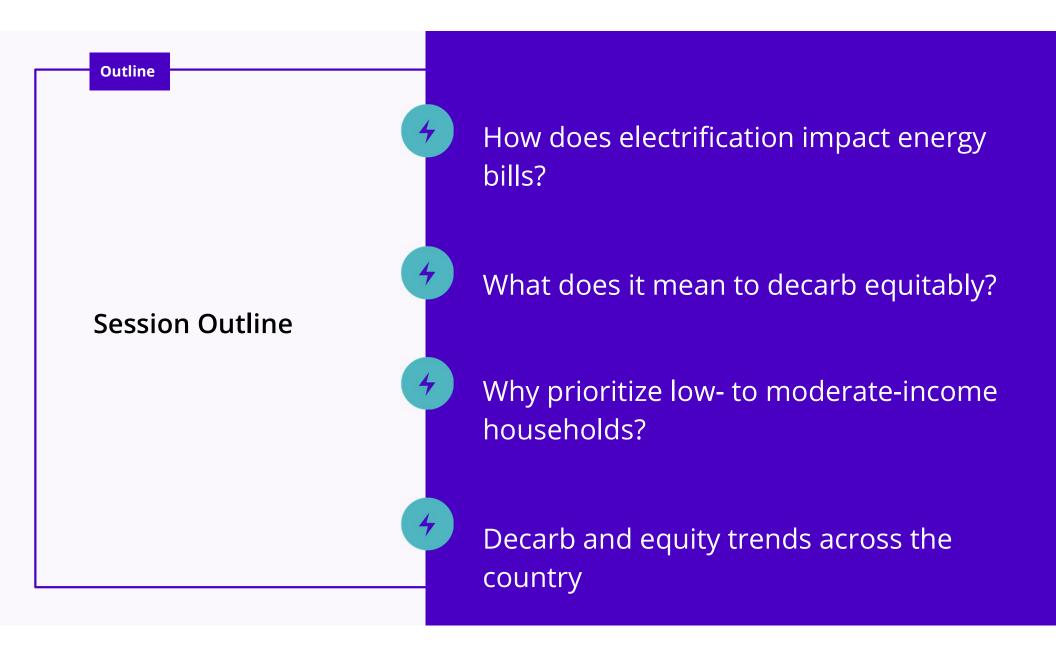




# **Energy Efficiency Forum: Inclusive Decarbonization**

Virginia Energy Efficiency Council 10.2.24





- Burning gas in the home is akin to living with a smoker.
- The average American household would save on average \$1800 a year by going electric!
- 42% of our energy-related emissions come from decisions about driving and home appliances that are made around the kitchen table.

(4)

# 1 billion

machines to electrify across our 121 million households.



The cars we drive.



How we heat our homes and water.





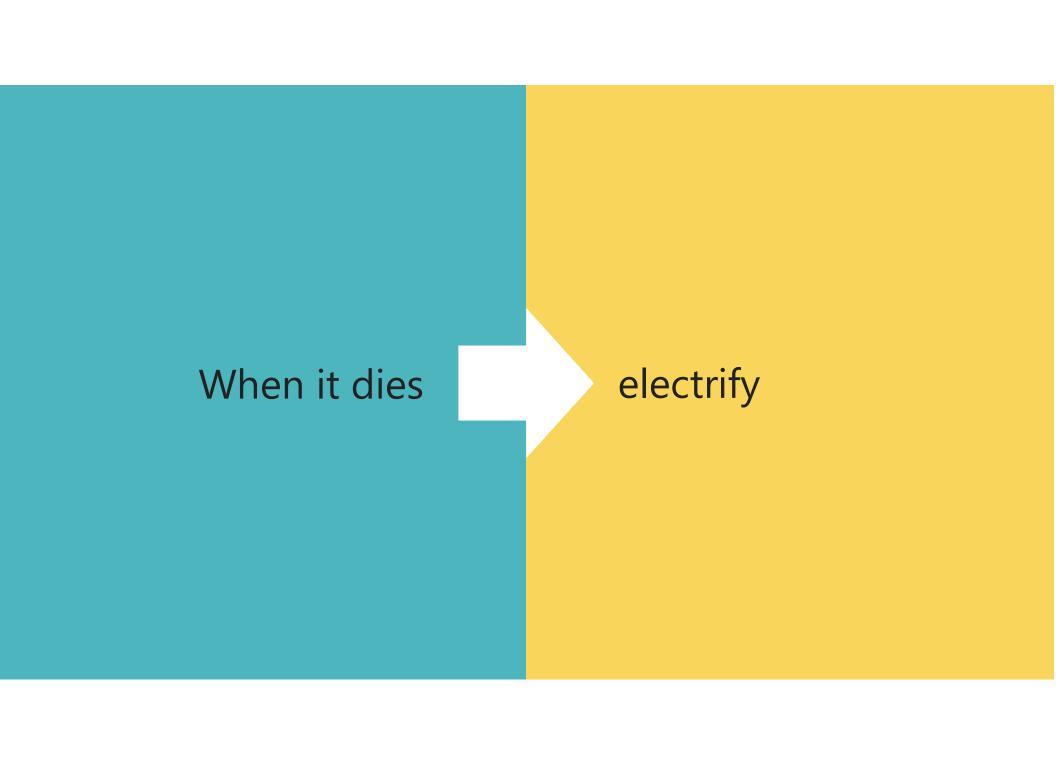
How we cook our food.



How we dry our clothes.



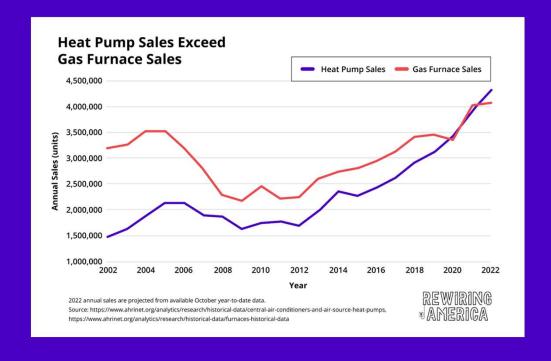
Where our electricity comes from.



# **Electrification trends**

Heat pumps are winning in the market vs. gas furnaces.

But the rate of adoption needs to increase considerably.



# 9\$858 \$46Q billion

The potential in the Inflation Reduction Act for residential electrification.

# Why prioritize LMI households?

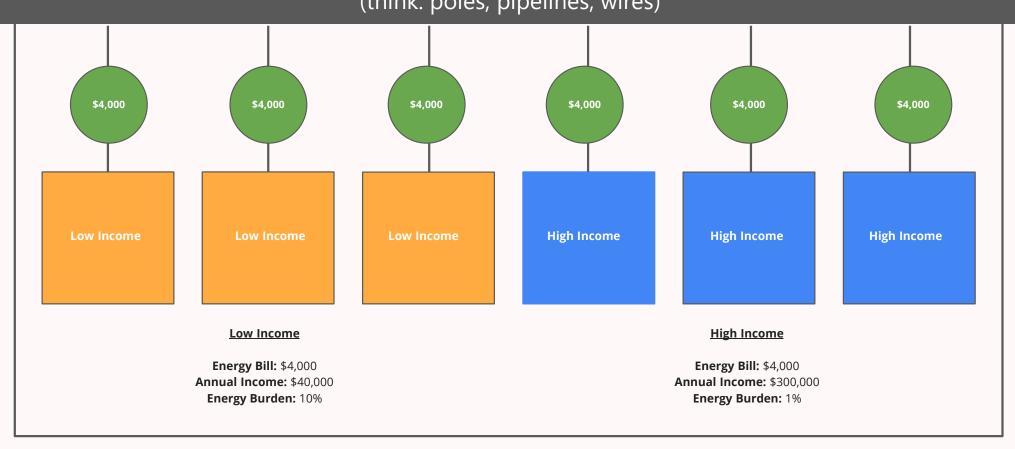
Vulnerable populations are more exposed to climate risks.

Some households and communities have more to gain from electrification than others — and more to lose from the lack thereof.

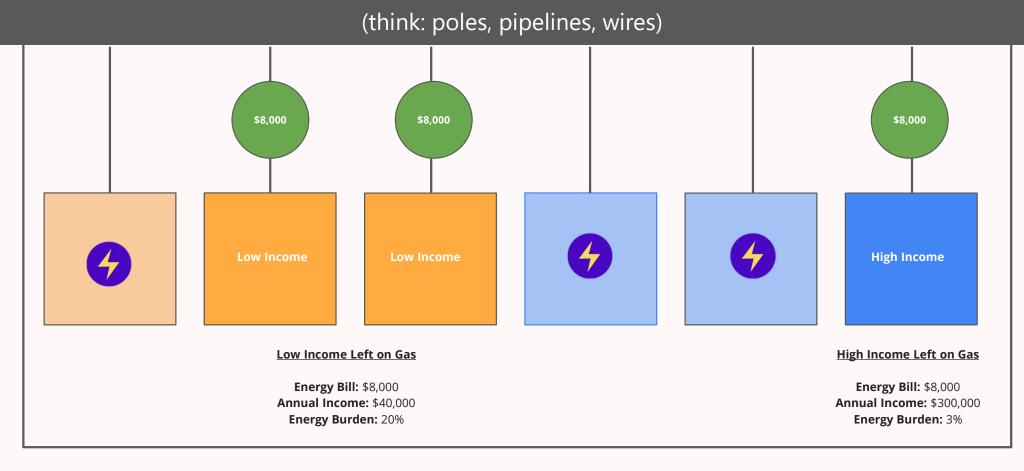
Everyone enters the electrification conversation from different points, including marginalized communities.

## Fixed Gas Infrastructure

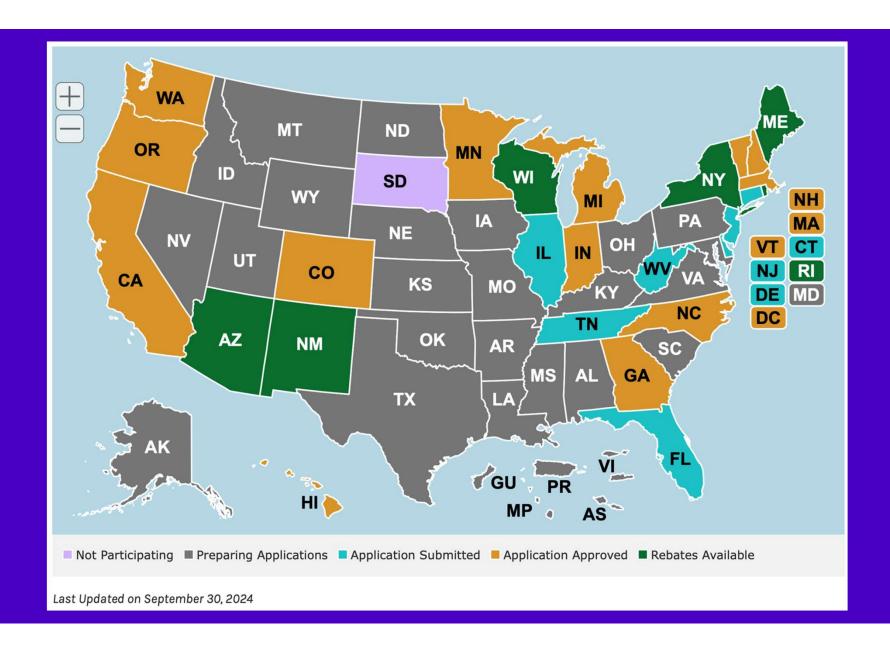
(think: poles, pipelines, wires)



### **Fixed Gas Infrastructure**



# **Equitable electrification trends**

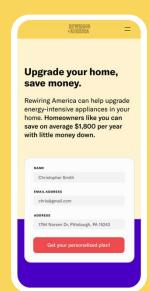


# Personal electrification plan

#### **Personal Electrification Plan**

#### **Customized electric planning tools.**

- Personal electrification planning tool based on household needs.
- Specific impact metrics such as utility bill savings.
- All available incentives at federal, state, municipal and utility levels.
- Marketplace of vetted contractors.
- Community-based resources and service providers.













# **Inclusive Decarbonization in the Northeast**

Erin Cosgrove October 2, 2024 Virginia Energy Efficiency Alliance, 2024 Energy Efficiency Forum

# **Northeast Energy Efficiency Partnerships**



#### Vision

 We envision the region's homes, buildings, and communities transformed into efficient, affordable, low-carbon, and resilient places to live, work, and play.

#### Mission

 NEEP drives regional collaboration so that the Northeast and Mid-Atlantic can equitably and affordably reduce building sector greenhouse gas emissions through energy efficiency, electrification, and grid integration.

#### Goal

 Assist the Northeast and Mid-Atlantic states to equitably and affordably reduce building-sector greenhouse gas emissions in alignment with their goals.

#### Approach

 Drive market transformation regionally by fostering collaboration and innovation, developing research and tools, and disseminating knowledge.





# **Inclusive Decarbonization Policies in the Northeast**



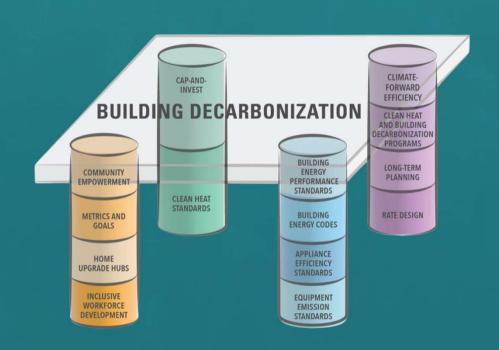
Erin Cosgrove
Senior Manager,
Policy and Programs

# Decarbonizing Buildings: How States Can Set the Table for Success



To Decarbonize Buildings, a whole suite of policies will be required to encourage action in across the supply chain.

- Equity and Workforce address housing and workforce inequities by empowering historically marginalized communities and ensure that the energy transition is just and inclusive. .
- Carbon Reduction Obligations set performance requirements for obligated parties, such as energy providers, to reduce carbon emissions or install clean heating systems.
- Codes and Standards establish a clear timetable for improving the energy performance of buildings and equipment, spurring changes in technologies and building practices.
- Utility Planning and Regulation sets mandates and frameworks to ensure that utility investment, rates, and programs align with building decarbonization goals.



**Decarbonizing Buildings Report** 



### **Inclusive Decarbonization Policies**

#### Equity and Workforce Leg





#### Community Empowerment

 Inclusive and accessible stakeholder engagement that empowers community members to have a meaningful impact on programs

#### Metrics and Goals

 Benchmarks to ensure equitable distribution of benefits and hold parties accountable to ensure benefits flow to communities

#### Home Upgrade Hubs

 Stacking of programs, funding, and other resources together to maximize incentives and provide guidance and technical assistance

#### Inclusive Workforce Development

 Programs that support trainees with workforce development, wrap around services, and targeted outreach in underserved communities

## **Inclusive Decarbonization Policies in the Northeast**

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# **Community Empowerment**

- Massachusetts: Community First
   Partnership Program and providing
   program materials in multiple languages
- Connecticut: Equitable Energy Efficiency Proceeding
- Vermont: Clean Heat Standards Equity Advisory Group
- Maine: Clean Energy Partnerships Program
- Massachusetts: Equity Performance Incentive
- Maine: Tracking distribution of benefits across the state
- Vermont: Clean Heat Standard mandate to deliver 32% of benefits to low- and moderate-income residents





Metrics and Goals

### **Inclusive Decarbonization Policies in the Northeast**



## Home Upgrade Hubs

- Massachusetts: LEAN Single and Multi-Family Program
- Washington DC: Affordable Housing Retrofit Accelerator



## Inclusive Workforce Development

- Washington DC: Energy Efficiency Workforce Development Program
- Massachusetts: Clean Energy Pathways Program
- New York: Clean Energy Businesses Program





Thank you!
Erin Cosgrove, Senior Manager Policy and Programs
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# Inclusive Decarbonization: Scale and Successes in the Southeast

Maggie Kelley Riggins
October 2, 2024
Virginia Energy Efficiency Council Fall Forum



## **OUR MISSION**

To optimize the use and impact of energy to enhance the quality of life in the Southeast.

### **OUR VISION**

All people in the Southeast live and work in healthy and resilient buildings, utilize clean and affordable transportation, and thrive in a robust and equitable economy.

### **OUR VALUES**



#### **Take Initiative**

We take responsibility for realizing a better quality of life in the Southeast.



#### **Value Others**

We seek, respect, and promote diverse perspectives.



#### **Earn Trust**

We pursue our work with benevolence, competence, and reliability.



#### **Pursue Equitable Solutions**

We recognize, acknowledge, and account for a history of prejudice and inequality in Southeastern communities.

# Pursuing Equitable Solutions

# WE RECOGNIZE, ACKNOWLEDGE, AND ACCOUNT FOR A HISTORY OF PREJUDICE AND INEQUALITY IN SOUTHEASTERN COMMUNITIES AND THE ROLE IT PLAYS IN THE ISSUES WE ADDRESS.



Nashville grandmother and retired librarian
Annie Pearl Patton considers her NES electric bill.
Source: Southern Alliance for Clean Energy

# Procedural Equity All affected commun

All affected communities have a voice in the decision-making process

#### Distributional Equity

02

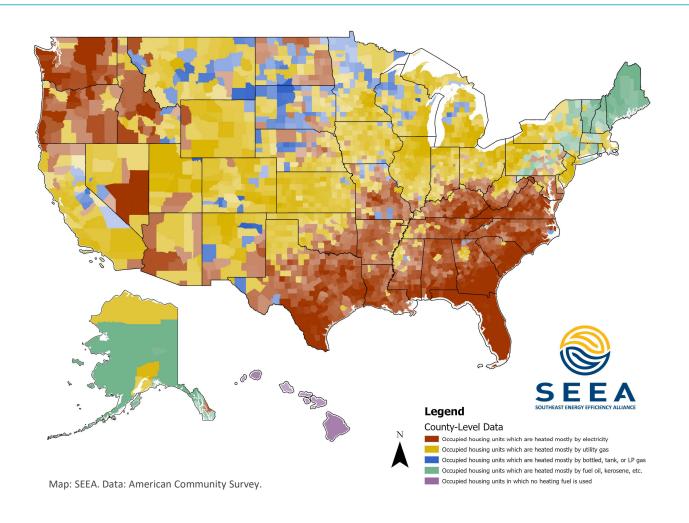
Programs and policies are designed to equally distribute its benefits and burdens to the entire community

#### Intergenerational Equity

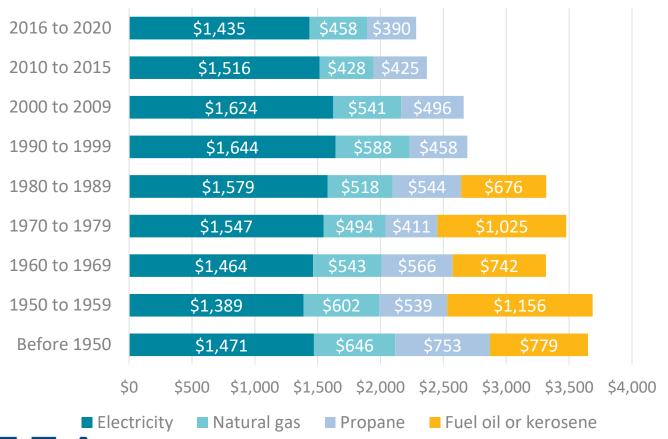
Programs and policies consider how future generations will be impacted by the decisions being made today



## The Southeast is more electrified than much of the United States



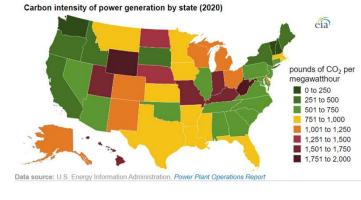
# The region's aging homes can strain affordability.

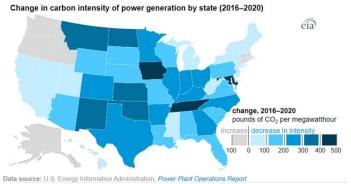




# System Goal Is Decarbonization

- GHG emissions vary by location and by time
- The Southeast is doing about average, on average
- We are improving everywhere.
  - Mostly due to the retirement of coal generation





U.S. Energy Information Administration



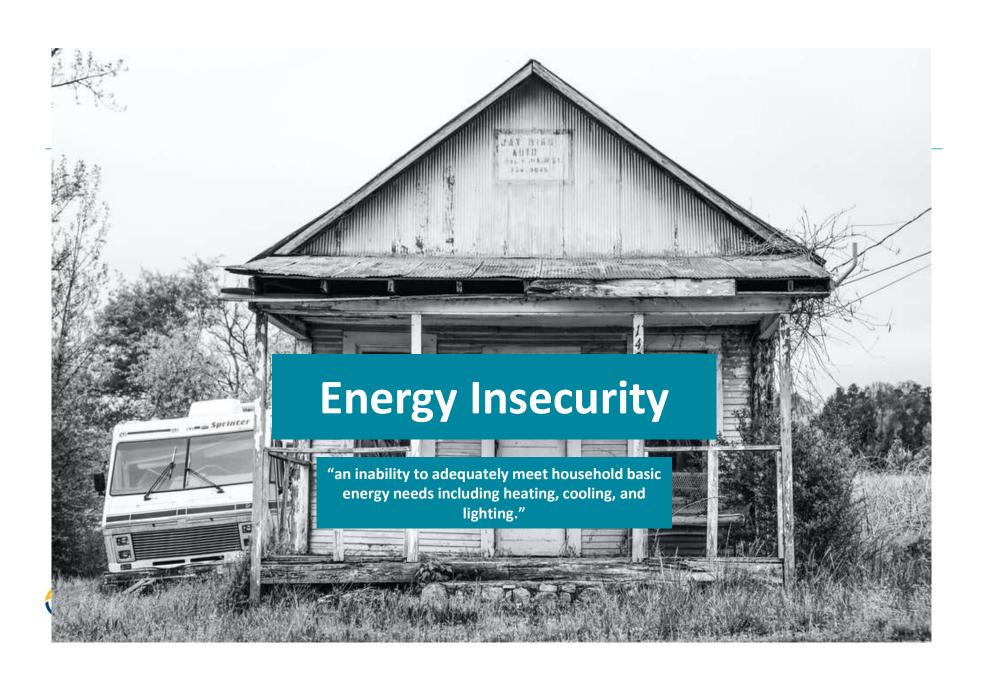
Average Household Energy Costs

(electric + gas)

**Energy Burden** 

Average Household Income

A measure of the percentage of household income required to cover utility bills.



# LMI Households Are Squeezed By High Costs

## 15.4 Million

Households experience energy insecurity in Southeast
\*Highest percentage in the U.S.



42%

of
households
at an
unhealthy
temperature
are in the
South



39%

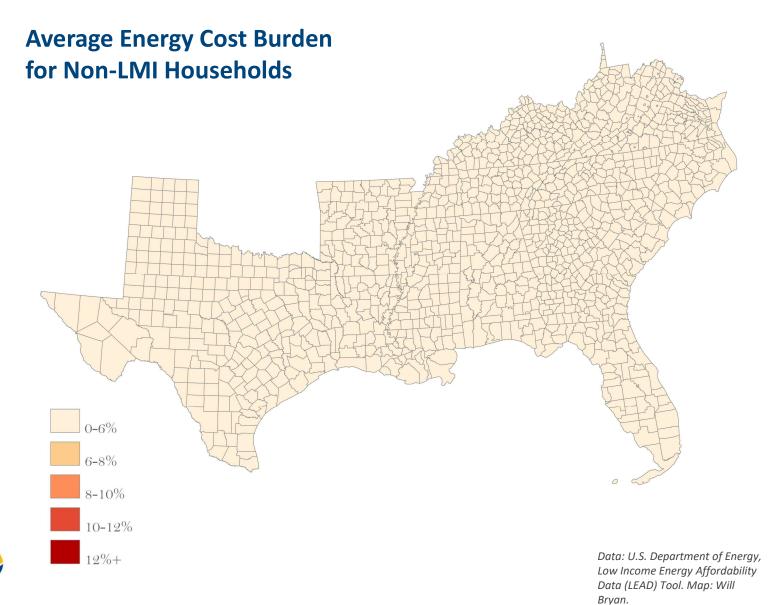
of households receiving disconnect notices are in the South



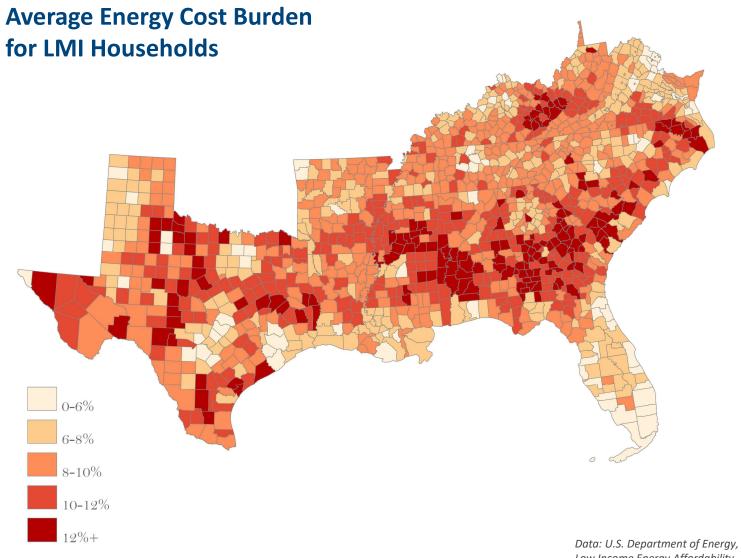
44%

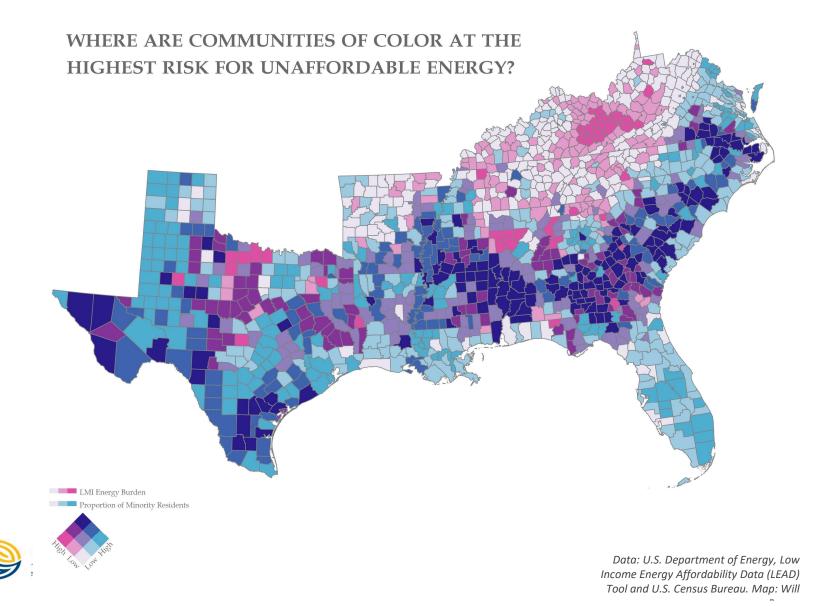
of households reducing consumption of food or medicine to pay for energy











## What is Beneficial and Equitable Electrification?

#### Beneficial

<u>Regulatory Assistance Project (RAP)</u>: For electrification to be considered beneficial, it must meet one or more of the following conditions without adversely affecting the other two:

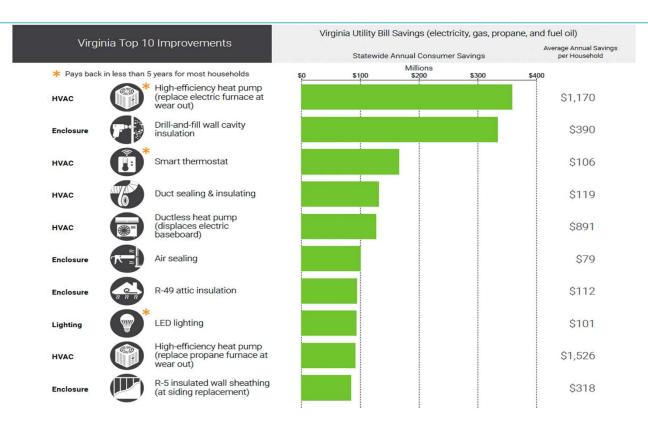
- 1. Saves consumers money over the long run,
- 2. Enables better grid management,
- 3. Reduces negative environmental impacts.

#### Equitable

Saves consumers money over the long run without increasing energy costs for low-and moderate-income households in the short run. Electrification must also be accessible and affordable to underrepresented communities, and these communities should be empowered and engaged in decision-making. (aligns with <u>BPA</u> policy plank)



## Cost Effective Measures

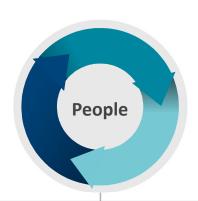


<sup>1</sup>U.S. Department of Energy, January 2017, U.S. Energy and Employment Report



#### Shifting the Focus

Traditionally, we think of building energy policies as effective if, and only if, they don't increase the **initial cost** of a building, reduce **kWh** and **CO**<sup>2</sup>, save **jobs**, and are technically **feasible**.



All of those elements are important **and** we must remember the bigger why of buildings.

What are buildings if not for their occupants?

#### **Occupant Outcomes**

Higher efficiency can lead to better health and financial outcomes for households.

#### Support for Workforce

Supporting and resourcing the current workforce and preparing the individuals ready to learn.

#### **Procedural Inclusion**

Ensuring inclusion from all perspectives in all parts of the process from development to implementation.



# Questions?

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LinkedIn QR code



# Thank You



SMART ENERGY. STRONG. ECONOMY. FOR ALL.

**WWW.SEEALLIANCE.ORG** 

#### **Inclusive Decarbonization**

# **Audience Q&A**

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