



Building Policy Support through Narrative Design

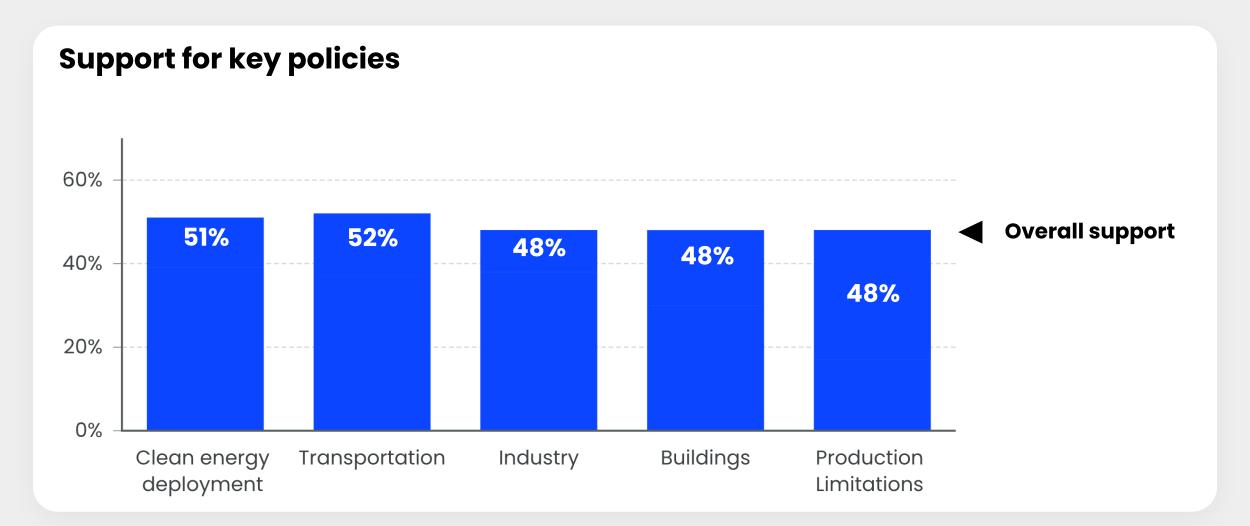
October 2025

OUR ROLE

# The marketing engine that accelerates the transition

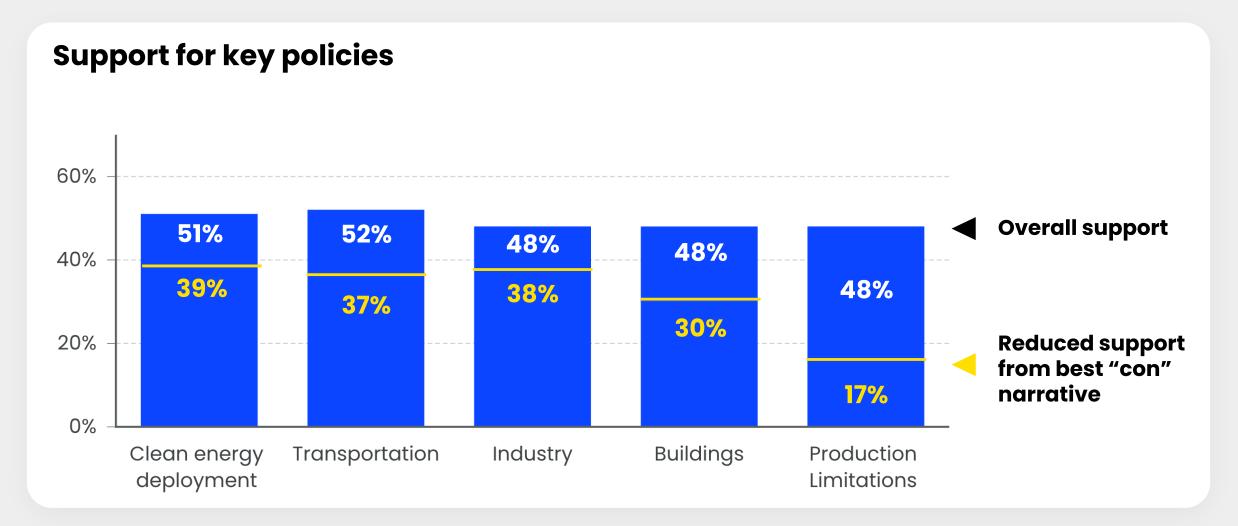


## Successful policies depend on effective narratives



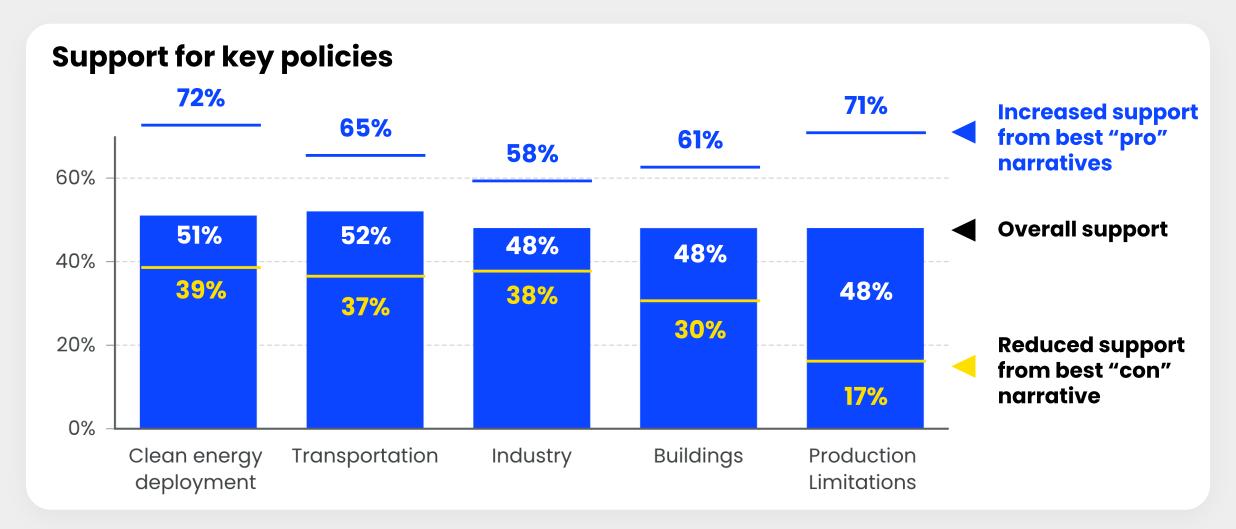


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### Our approach: Find and spread the narratives that create wins

# Support clean energy permits



Clean energy permitting reform in Michigan

Michigan's clean energy standard



Statewide clean energy target

Keep it in the ground



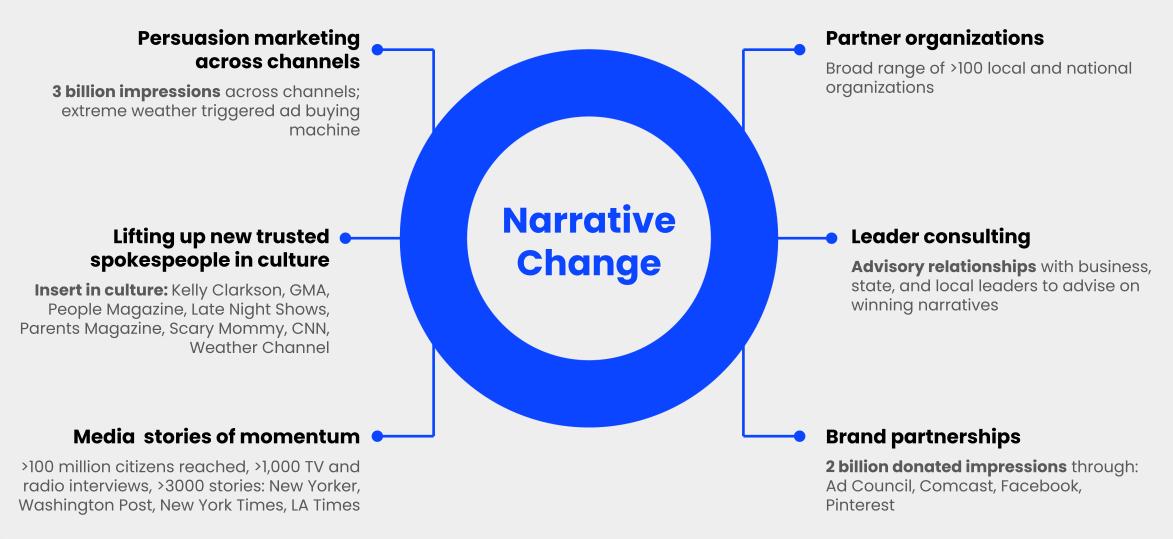
Curb fossil fuel drilling in California

Clean targets for industry



Industrial decarbonization in Pennsylvania

## Our toolkit: We are a narrative change firm





## Putting it into practice: our research process

Identify an opportunity

**Qualitative research: Understand where the** audience IS today

**Develop narratives** to try to move them

**Quantitative research:** Randomized control trial (RCT) to gauge mov't

Campaign development for winning narrative

**Measurement:** Pre and post-campaign surveying



## What it looked like in Virginia

### Identify an opportunity

- **Economic pressures**
- Rising energy demand
- A coming leadership shift to enable change

### **Qualitative research: Understand people's** real problems

- Energy bills are painful
- Data center growth is alarming
- Utility companies are seen as villains

### **Develop narratives**

Tell many different stories to test which ones ring true



## What it looked like in Virginia

Quantitative research:
Randomized control trial
(RCT)

What we learned:

MORE energy that is

1. local and 2. unlimited
feels affordable

5

Develop the campaign



Measurement:
Pre and post-campaign
surveying

We are here

Post survey will show real-world effect of ads



## One radical idea: our approach to narrative design

### Design policies specifically for the stories they tell.

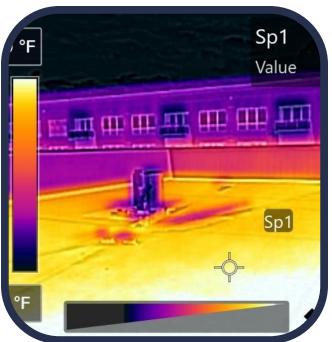
Instead of trying to sell a top down policy that solely advances an objective.

### How it works: our research-first approach

- 1 What is a problem that people have?
- 2 How is your policy a solution for that problem?
- 3 What story does that policy let you tell-and what's the way to tell it?













# Scaling Commercial Energy Efficiency in RVA

October 16th, 2025

# C3's purpose is to make equitable, carbon-neutral communities a reality.







- 2024 Communities LEAP grant from National Renewable Energy Lab (NREL)
- Overall goal: scale energy efficiency in commercial buildings
  - Characterize / classify the Richmond commercial building sector
  - Develop building "archetypes"
    - Sectors (food service, office, retail, etc.)
    - Characteristics (age, size, etc.)
    - Needs (e.g., replacement for old boiler, solar, heat pump conversion)



# Mining local data: Methodology

- Data sources (City of Richmond focused)
  - Building permit data since 1991
  - Assessor parcel + improvement data
  - Business licenses



# Mining local data: Methodology

### Steps

- Obtaining data: Some available online, some not
- Characterizing building permit work
- Merging data
  - Property = land + improvements
    - Many buildings include subunits with own permits
  - Match permit work to property
  - Business licenses to property + permit work



# Mining local data: ID aging HVAC

- Why HVAC?
- Unplanned replacements are:
  - Usually like-for-like
  - Often oversized (and overpriced)
  - May not be suited for operation
- With planning: optimization

# Mining local data: Example

P?? W Broad St Mechanical Richmond, VA 23220 Tenant up fit for restaurant. New HVAC system to include a series of ducted mini splits, a dedicated out door air system, and a powered exhaust system. Existing ventilation to remain.

- Step 1: Keyword search for terms of interest
  - o "mini split", "minisplit", "mini-split"; "HVAC", "outdoor air", "out door air", etc.
- Step 2: If keyword appears, extract date of work
  - IF(ISNUMBER(SEARCH("boiler", \$G1774)), (YEAR(\$11774)), "")
- Step 3: Link permit history to main property address
- Step 4: Map, develop target lists, analysis, etc.



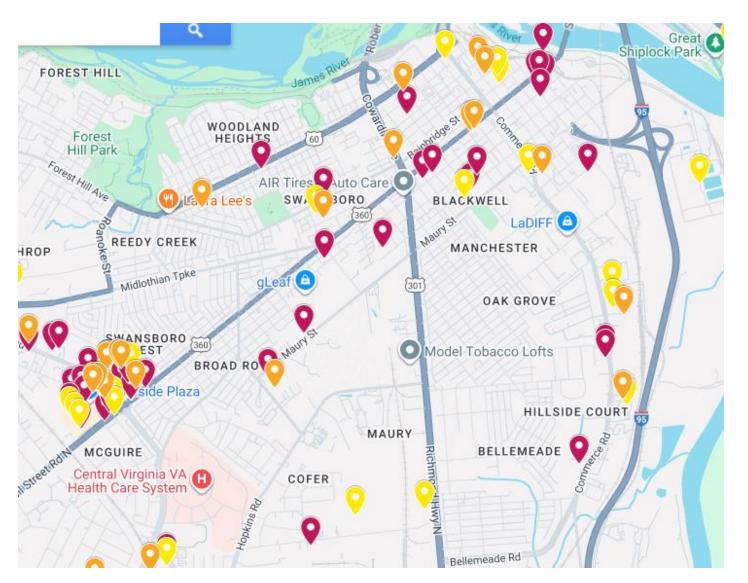
- Data does not reflect work that does not require a permit (e.g., compressor equipment)
- Data does not reflect projects that didn't get a permit (even if required)
- Categories are based on keyword searches
  - May miss misspellings, alternate terminology
  - May capture terms that did not actually involve any work on the equipment of interest (e.g. repaired heat pump ductwork)
  - May reflect partial replacements (e.g., reroofed front porch; replaced HVAC in unit #220)
- Use and ownership of buildings change





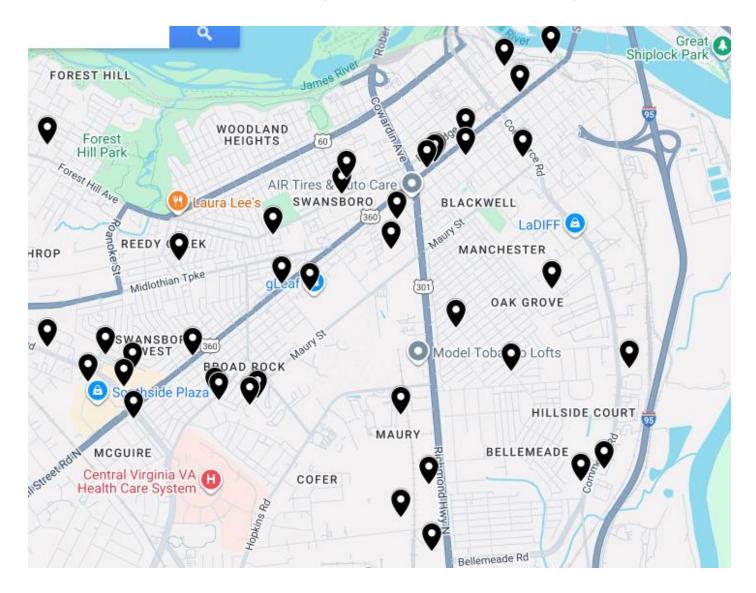
# HVAC age based on building permit data

- >20 yrs old (398)
- 9 10-15 yrs old (216)
- 9 16-20 yrs old (128)



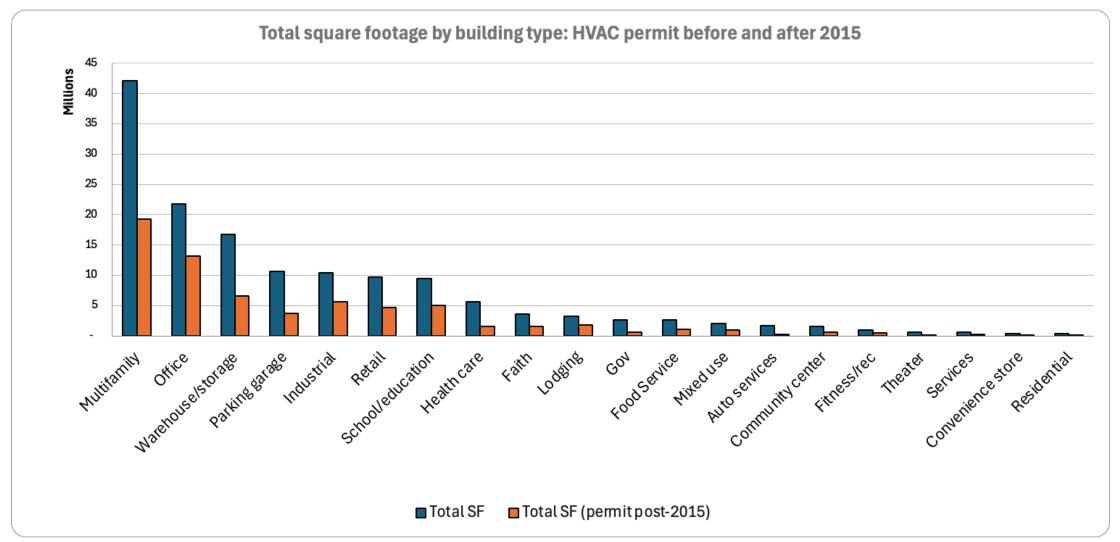


# Solar-ready roofs (< 5 yrs old)





# **Aggregated insights**





- Does better data make any difference?
- How to engage businesses/organizations based on data?
  - Rapid iteration
  - Experimentation
  - Warm introductions
- How to integrate with capital project process (if any)?



# **Contact Us**



**Intake form** 



corp@theclimatecollaborative.org

**Email Address** 



@C3Climate

**Social Media** 

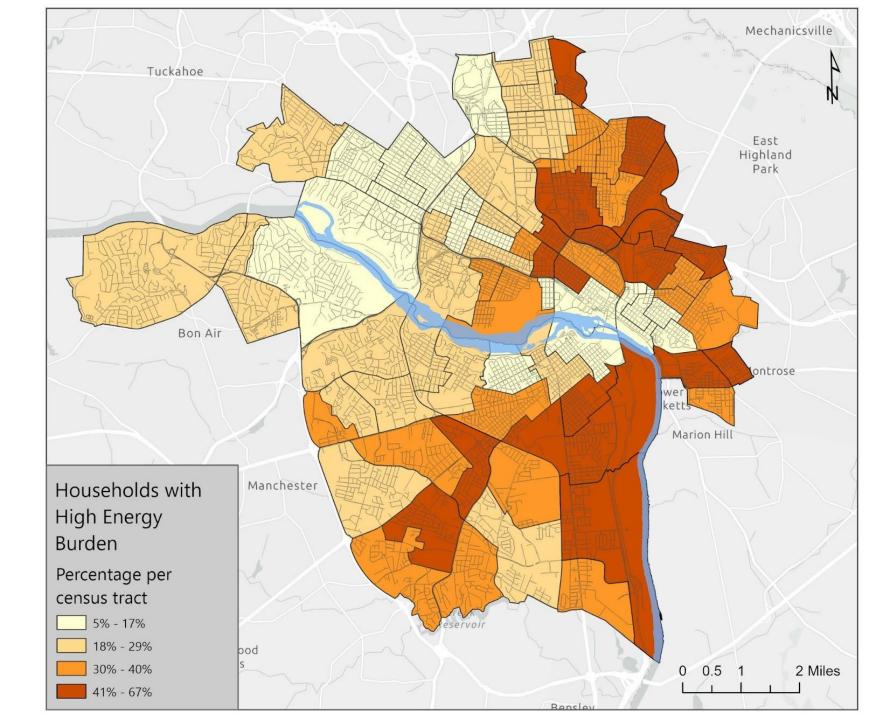


www.theclimatecollaborative.org

Website



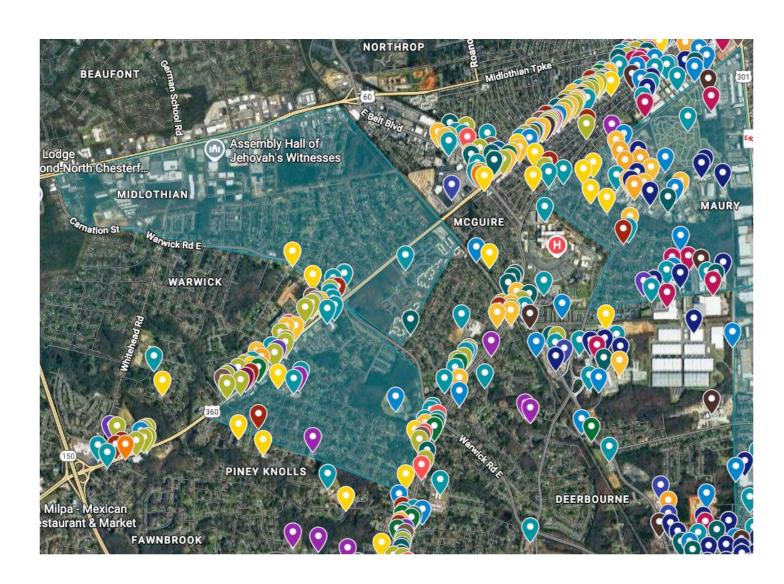
# **Energy Burden is** an **Equity Issue**



# **Business addresses within energy-burdened areas**

- southside addresses CLEAP db.xlsx
  - General Retail
  - Storage Warehouse
  - General Office
  - 9 (

17 MORE



# Smarter Demand, Stronger Communities: Energy Efficiency for Affordability & Reliability

Sapna Dowla, Associate Vice President, Alliance to Save Energy

10/2025



## The Critical Importance of Energy Efficiency What this means for our customers and teams

1

### **Emission Reductions**

Energy efficiency is a powerful tool in reducing greenhouse gas emissions.

**40% of the emission reductions** required by the Paris Agreement can be achieved by energy efficiency alone. "Net zero by 2050 hinges on a global push toward energy efficiency." (IEA)

Carbon emissions would have been **78% higher in 2021,** but for energy efficiency investments made since 1980. (Energy Efficiency Impact Report)

2

# **Energy Reliability, Security, and Independence**

Energy efficiency is the single **largest measure to avoid** demand in the Net Zero Emissions by 2050 Scenario.(IEA)

Energy efficiency **reduces the amount of electricity on the grid at one time,** minimizing grid stress, thus preventing power disruptions. (DOE)

Because energy efficiency reduces overall demand, energy efficiency can **reduce reliance on energy imports,** thus playing a critical role in long-term and short-term energy security. (IEA)



### **Jobs and the Economy**

Energy efficiency is the largest employer in the clean energy economy, representing **2.3 million jobs** in 2023, based on the 2024 U.S. Energy Employment Report (USEER).

The median wage of an energy efficiency worker is \$24.44, **28% higher than the national median** of \$19.14. (E4TheFuture)

The efficiency sector also has more than **80% of efficiency employers** contributing to healthcare, and more than **78%** contribute to retirement *accounts*. (*E4TheFuture*)



### **Access and Affordability**

Energy efficiency is a key driver in reducing or eliminating energy burden.

Low-income households have energy burdens that are **three times higher** than for non-low-income households. Approximately 44% of all U.S. households are considered low-income. (DOE)

Simple energy efficiency solutions similar to weatherization programs are estimated to **reduce energy burden of the average low-income household by 25%.** These solutions include the building envelope and building systems, including insulation, windows, heating and cooling equipment, and lighting.

Energy efficiency investments since 1980 have resulted in significant **bill savings, equaling approximately \$800 billion annually,** through 2020. (Energy Efficiency Impact Report)





# Alliance to Save Energy: Four Decades of Bipartisan Leadership

Our Mission

The Alliance to Save Energy is dedicated to improving energy productivity by:

- Leading bipartisan initiatives that drive technological innovation and energy efficiency across all sectors of the economy, through policy advocacy, education, communications, and research.
- Convening and engaging in diverse public-private partnerships, collaborative efforts, and strategic alliances to optimize resources and expand our sphere of influence
- Our Vision

We envision a nation that uses energy more productively to achieve economic growth, a cleaner environment and greater energy security, affordability, and reliability.

Impact Areas

Our work spans across key sectors including buildings, transportation, industry, consumers, and utilities.

Through policy advocacy, research initiatives, and program implementation, we drive tangible changes that reduce energy consumption, cut emissions, and foster economic growth.

## **Fuel-Neutral Efficiency Solutions**

Energy efficiency transcends fuel sources, delivering benefits across the entire energy system. Our fuel-neutral approach recognizes that American families and businesses use multiple energy sources, and efficiency improvements in any fuel reduce overall costs and environmental impacts.

#### **Natural Gas Efficiency Technologies**

Combined Heat & Power (CHP): 80%+ efficiency in industrial applications

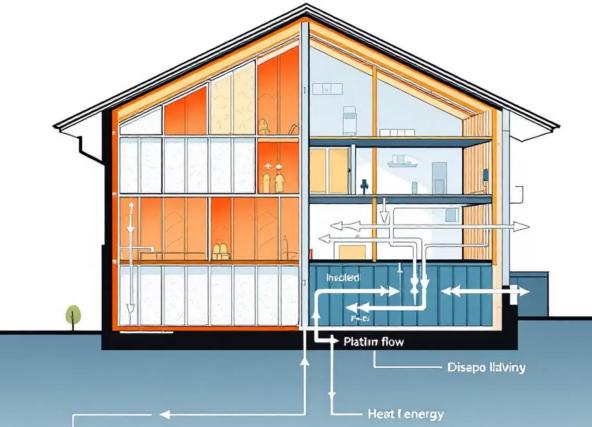
**Advanced Condensing Boilers:** 95%+ efficiency for space and water heating

**Gas Heat Pumps:** Revolutionary technology delivering 140%+ efficiency

**Smart Gas Infrastructure:** Advanced metering and leak detection systems

#### **Electric System Efficiency**

Smart Lighting Systems: LED technology with occupancy sensors
Variable Speed HVAC: Heat pumps with advanced controls
Building Automation: Integrated energy management systems
IIINNCF \*\*\*\* hnologies: Demand flexibility and peak shaving



### **Universal Solutions**

**Building Envelope Improvements** reduce energy demand regardless of fuel source. Enhanced insulation, high-performance windows, and air sealing create lasting benefits that compound over decades. These "fuel-neutral" investments often deliver the highest returns.

**Hybrid Systems** provide fuel flexibility, allowing buildings to optimize between electricity and gas based on real-time pricing and grid conditions. This approach enhances both affordability and resilience.

## Policy & Regulatory Framework

What to watch & What to do with customers now

### **Affordability**

Reducing energy burdens for families and businesses

### Reliability

Ensuring grid stability and energy security

### Choice

Preserving consumer options and fuel flexibility

State public utility commissions consistently identify affordability, reliability, and consumer choice as their top priorities. Energy efficiency addresses all three simultaneously, making it an essential tool for regulators navigating complex energy transitions.

### **Key Policy Considerations:**

- Resource Planning
  - Rate Design
- Performance Metrics
- Technology Neutrality

### **Supply-Side Resources**

**Traditional Approach:** Build more power plants to meet peak demand. High capital costs, long lead times, and rate impacts.

- New generation capacity: \$1,500-\$4,000/kW
- Transmission infrastructure: billions in investments
- Ratepayer cost recovery through base rates

### **Demand-Side Management**

**Efficiency-First Approach:** Reduce peak demand through efficiency and flexible loads. Lower costs, faster deployment, multiple benefits.

- Efficiency programs: \$200-\$800/kW saved
- Demand response: \$50-\$300/kW of capacity
- Participant bill savings offset program costs



## **Alliance Federal Policy Engagement**

### Congressional Engagement



### Government

Implement ambitious policies for energy efficiency and demandside management, such as energy codes and appliance standards, and prioritize measures that drive equitable outcomes.



### **Industry**

Promote
adoption of
energy-efficient
technologies and
practices,
improve
energy management
systems, and invest in
research,
development, and
deployment to drive
innovation.



### **Utilities**

Leverage demand-side resources, modernize grids, and integrate distributed energy resources (DERs) to support grid reliability, flexibility, and decarbonization.



## Industry Leadership:

Showcasing how ASE members are leading the way in energy efficiency innovation and implementation.



# Equity and Impact:

**Highlighting Energy Efficiency Projects** 

Emphasizing projects that prioritize equity and deliver tangible benefits to underserved communities.



## Cross-Sector Collaboration:

Highlighting projects that demonstrate successful collaboration across different sectors, such as buildings, industry, and transportation.



### Future Priorities: Bipartisan Advocacy

1

2

3

4

# Identify Common Ground

We'll focus on finding areas of agreement across party lines, such as job creation, energy independence, and cost savings for consumers. These shared interests will continue to form the foundation of our bipartisan approach.

### **Build Coalition**

ASE will work to build a diverse coalition of supporters, including industry leaders, environmental groups, and policymakers from both parties. This united front will strengthen our advocacy efforts.

# **Develop Policy Proposals**

We'll craft policy proposals that address bipartisan priorities, focusing on practical solutions that can gain support from both sides of the aisle.

# **Engage Lawmakers**

Through targeted outreach and education, we'll engage lawmakers to champion energy efficiency initiatives, providing them with the data and talking points needed to build support among their colleagues.



## Thank You!

## **Questions & Discussion**

### **Get Involved**

Join our mailing list for updates on energy efficiency policies and initiatives. Explore partnership opportunities or consider becoming a member of ASE to support our mission.

### **Contact Information**

Email: sgdowla@ase.org

Website: www.ase.org

**LinkedIn:** Alliance to Save Energy



Sapna Gheewala Dowla

Associate Vice President for Policy and Research.

Sapna, spearheads our research efforts and policy development, ensuring ASE remains at the energy efficiency innovation.

### Resources

Visit our website for white papers, case studies, and toolkits on energy efficiency.

