



*Clean Energy Networks presents:*

# **AEG Net-Zero Building Summit**

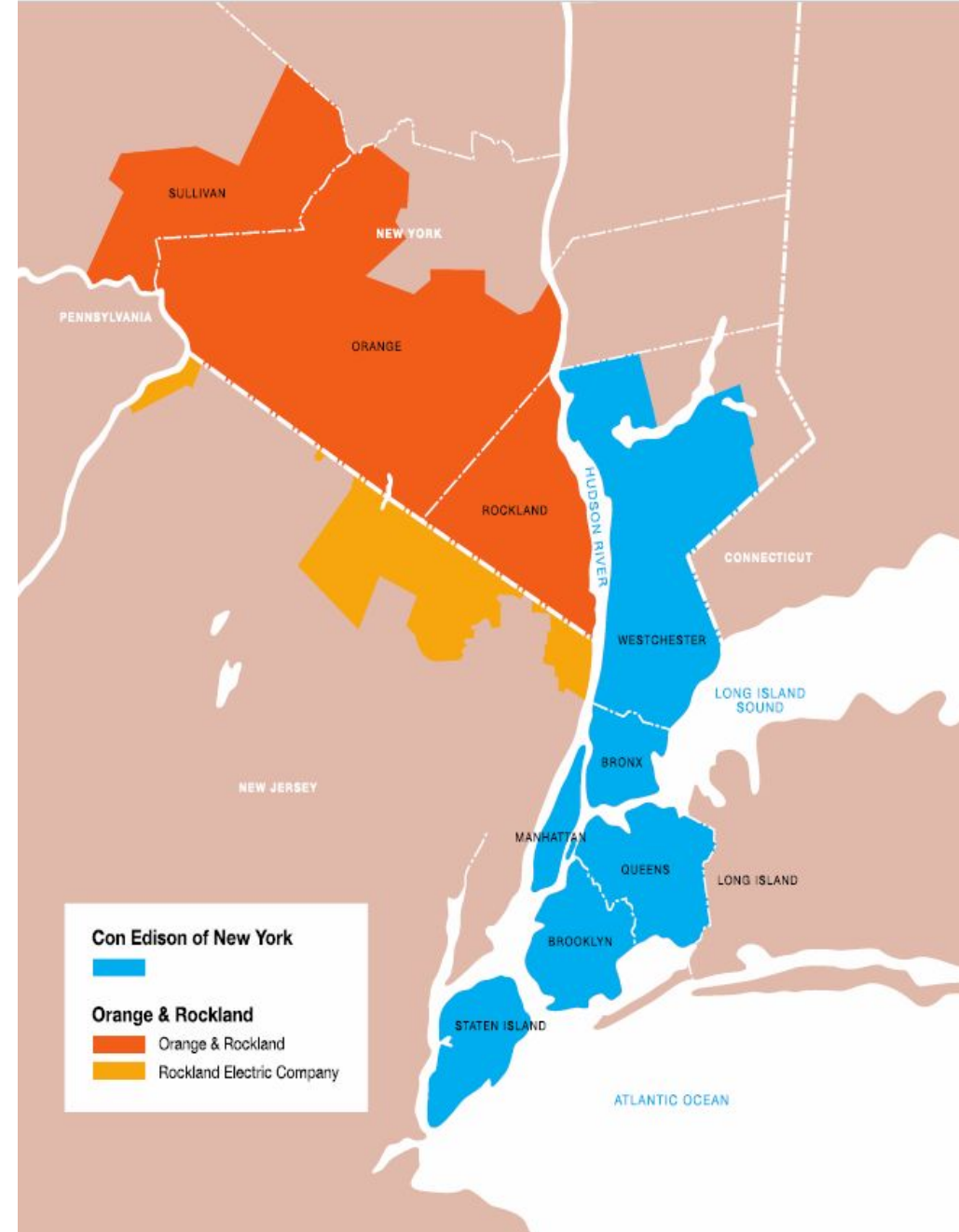
Thursday, April 20, 2023



# About Con Edison

We deliver electricity, gas, and steam to 10 million people.

- That's about 44% of New York State's electricity needs
- We provide natural gas to 1.2 million customers.
- We operate the largest steam distribution system in the U.S.



# Con Edison's Clean Energy Commitment



## Build the Grid of the Future

Build a resilient, 22nd century electric grid that delivers 100% clean energy by 2040.



## Empower All of our Customers to Meet their Climate Goals

Accelerate energy efficiency with deep retrofits, aim to electrify the majority of building heating systems by 2050, and all-in on electric vehicles.



## Reimagine the Gas System

Decarbonize and reduce the utilization of fossil natural gas, and explore new ways to use our existing, resilient gas infrastructure to serve our customers' future needs.



## Lead by Reducing our Company's Carbon Footprint

Aim for net zero emissions (Scope 1) by 2040, focusing on decarbonizing our steam system and other company operations.



## Partner with our Stakeholders

Enhance our collaboration with our customers and stakeholders to improve the quality of life of the neighborhoods we serve and live in, focusing on disadvantaged communities.

# State and City Policies that Impact EEDM

## New York State Goals

Climate Leadership and  
Community Protection Act  
(CLCPA)

- 85% Reduction in GHG Emissions by 2050
- 100% Zero-emission Electricity by 2040
- 70% Renewable Energy by 2030
- 9,000 MW of Offshore Wind by 2035
- 3,000 MW of Energy Storage by 2030
- 6,000 MW of Solar by 2025
- 22 Million Tons of Carbon Reduction through Energy Efficiency and Electrification

## New Efficiency: New York (“NENY”) Order

- Order based on New York State’s 40% reduction in GHG emissions by 2030 goal
- Outlines 6-year EE budgets and goals for all joint utilities
- NYSERDA is committing an additional \$36.5 million to train over 19,500 New Yorkers for clean energy jobs

## Con Edison’s Clean Energy Commitment

- Integral player in the State’s Clean Heat transition
- Triple “EE” investments by 2030
- Support for Clean Transportation through “EVs”
- Integrate energy storage solutions
- Provide 100% clean energy by 2040

**WHY?**

















7 103 15 12 06

BEST BUY

NORDSTROM rack

DUANE reade

pharmacy

DUANE reade

Mount Sinai  
UNION SQUARE

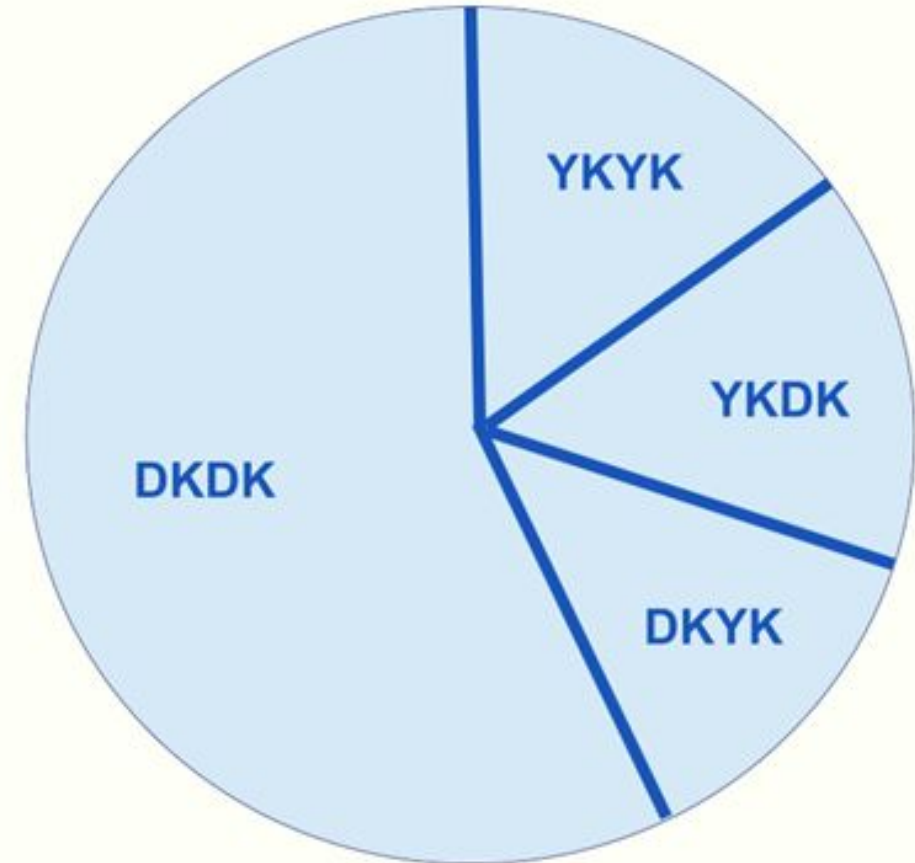


# Circle of Knowledge



# Circle of Knowledge - Rumsfeld's Logic

1. YKYK – You Know You Know
2. YKDK – You Know You Don't Know
3. DKYK – You Don't Know You Know
4. DKDK – You Don't Know You Don't Know

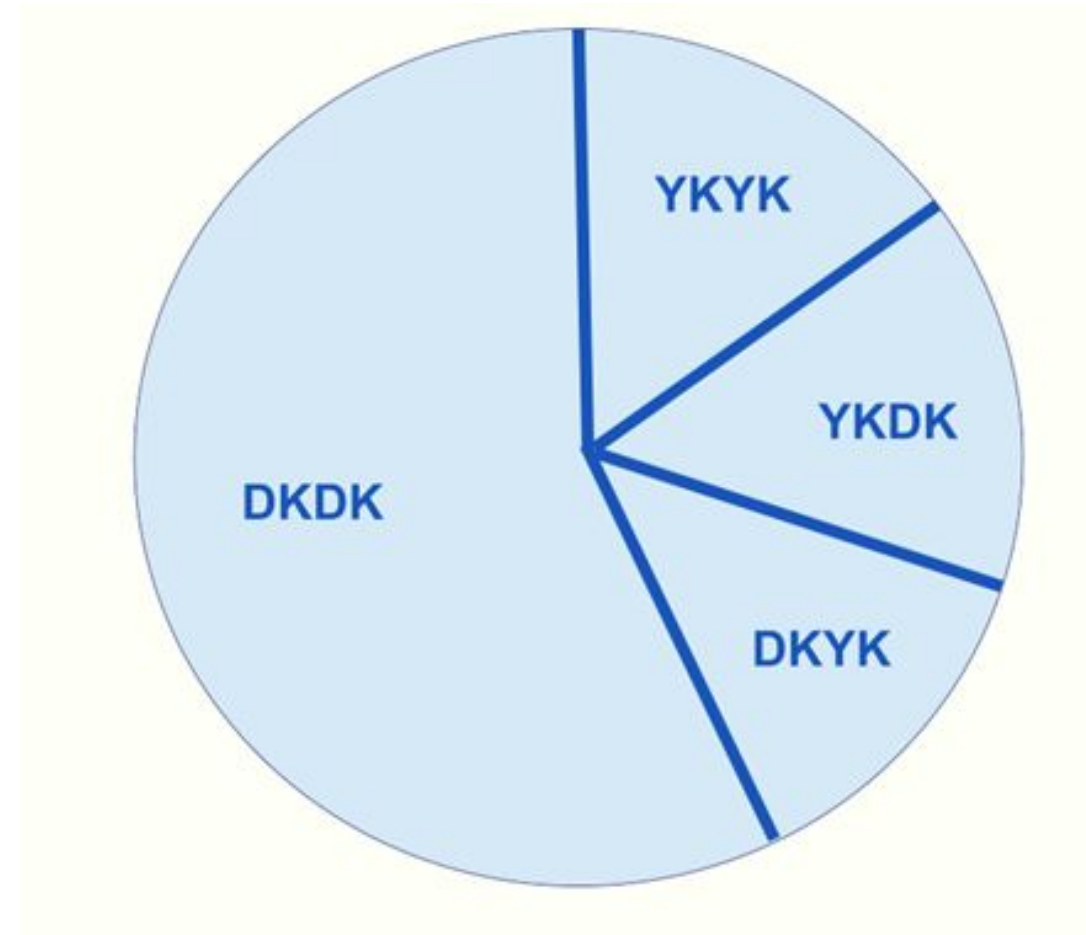


Source: Coro LNY

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Facts, rules, and laws that we know with certainty



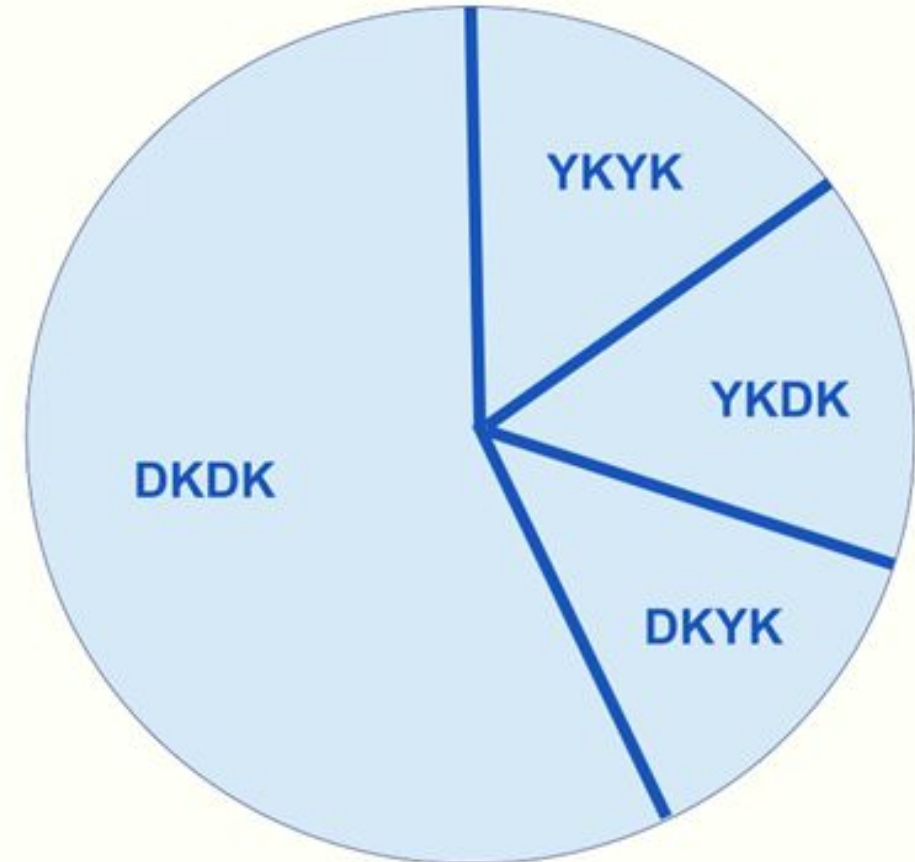
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Gaps in our knowledge, but they are gaps that we know exist

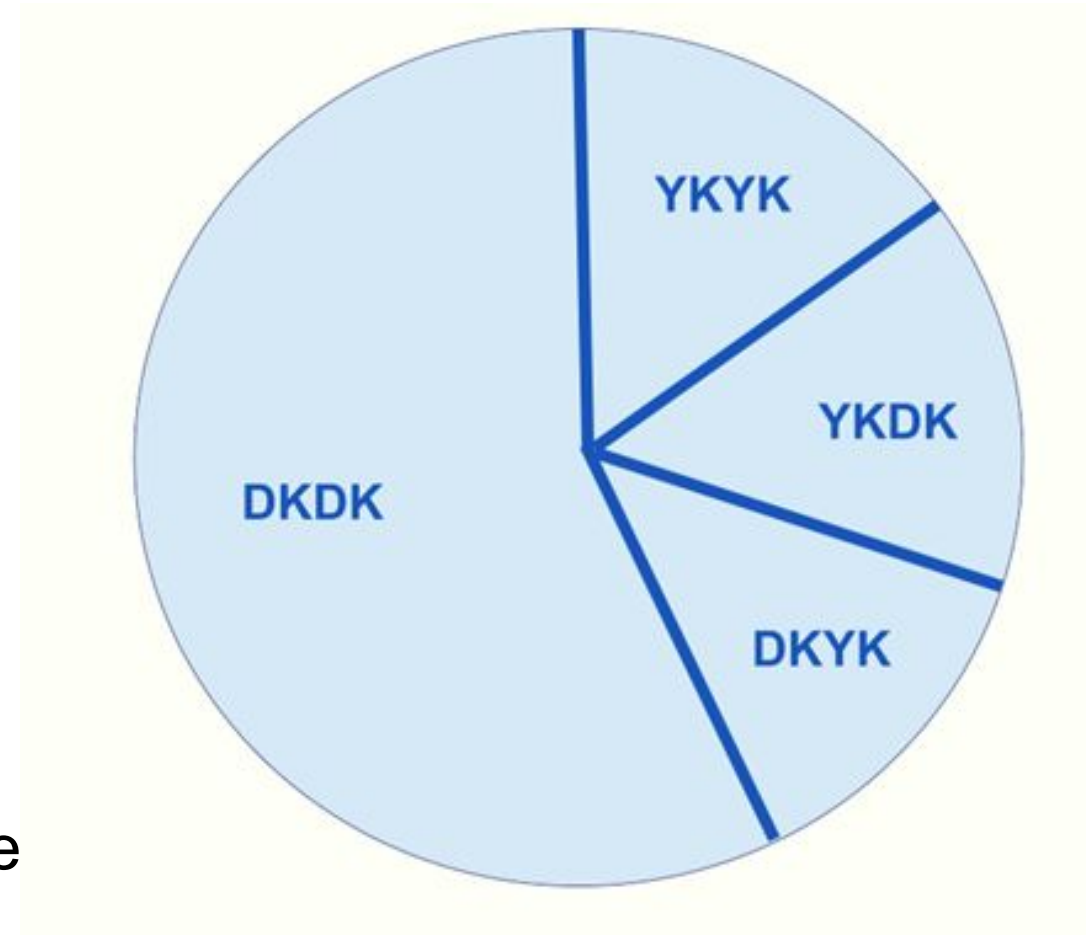


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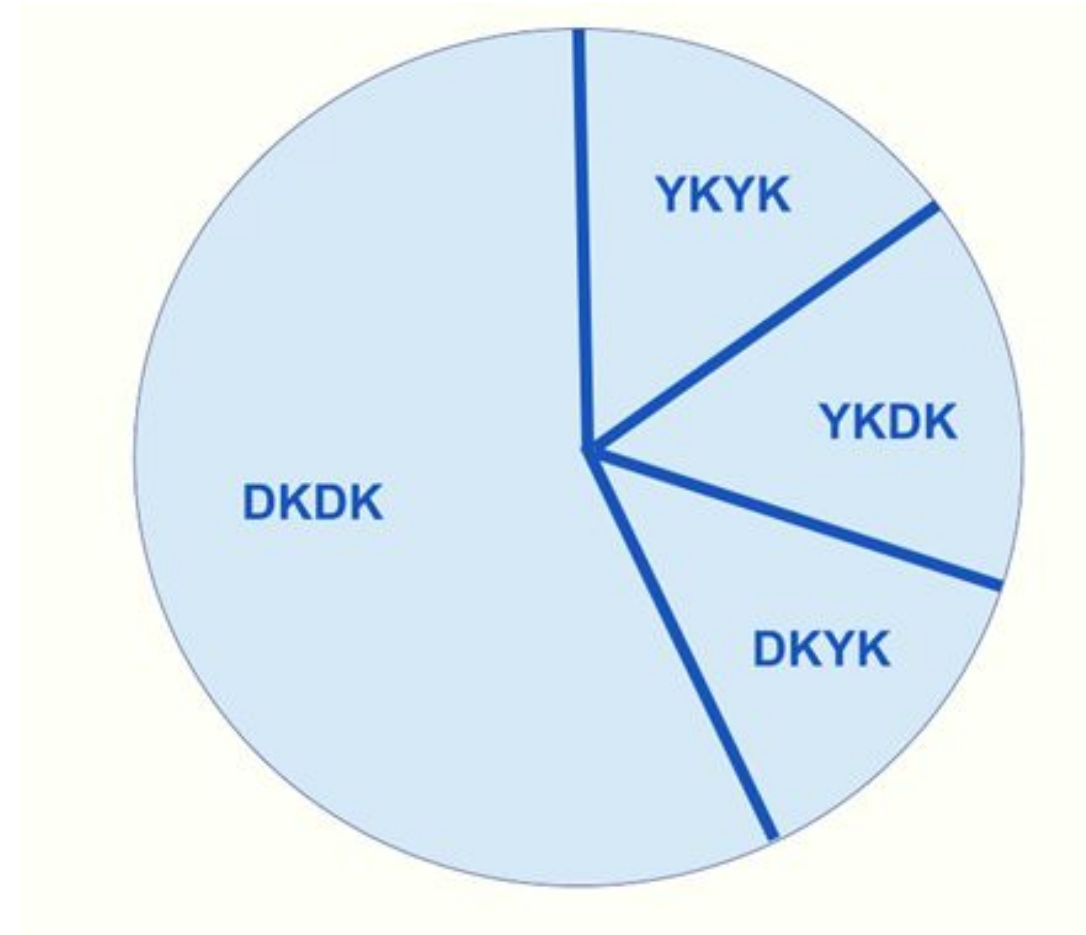
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Things we cannot understand except by first conceptualizing other unknowns




Source: Coro LNY

# Systems Thinking



OUR  
HOUSE  
IS ON  
FIRE!!

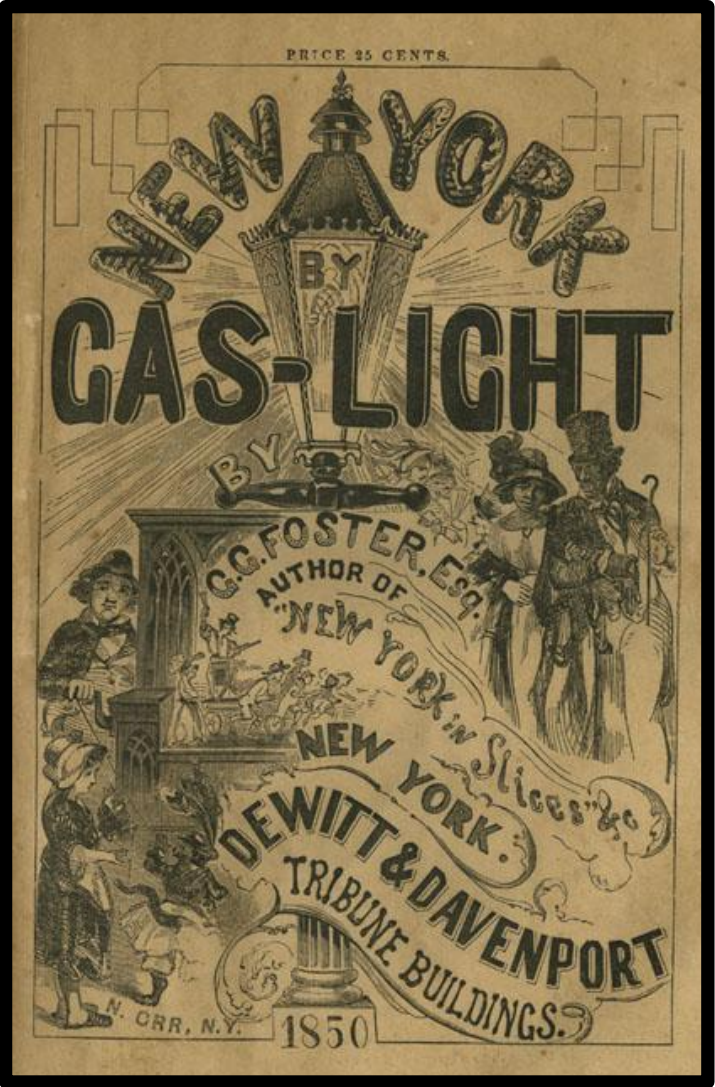
There is  
NO  
PLANET B

SYSTEM  
CHANGE  
  
NOT  
CLIMATE  
CHANGE!

EVIDENCE  
GOVERNMENT  
IGNORANCE



# Lighting



# Refrigeration



CUTTING ICE AT MOUNDVILLE, WEST VIRGINIA, CIRCA 1900. - SOURCE: CHURCH OF GOD ARCHIVES, ANDERSON UNIVERSITY, ANDERSON, INDIANA.



# Cooling - Fans





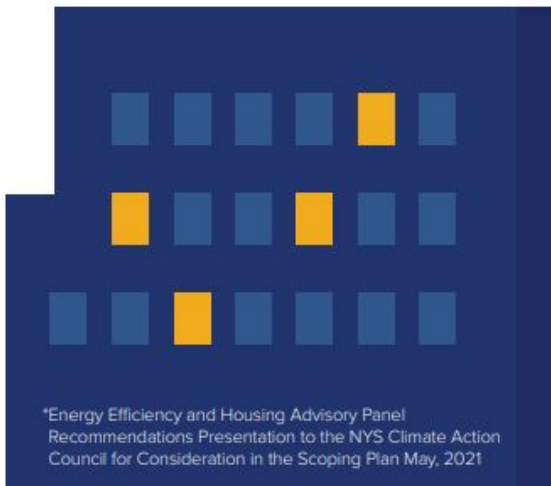
# Heating – Indoor Spaces



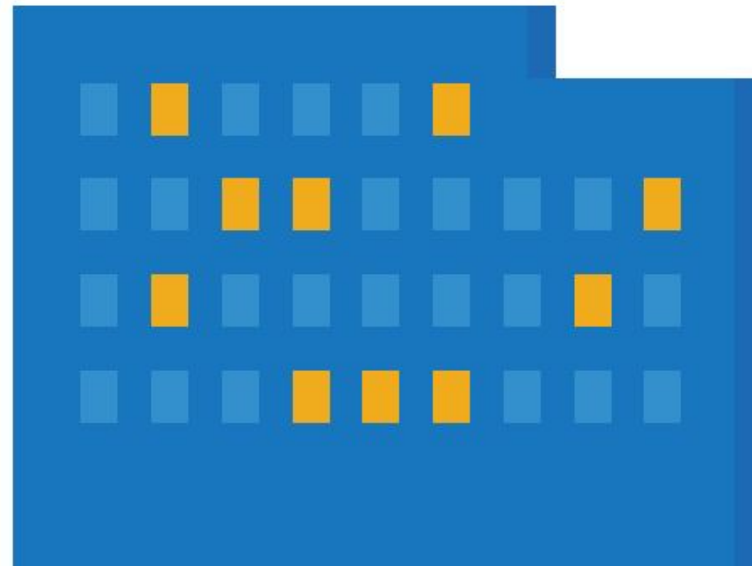
# New York State Clean Heat

**Making Electrification Part of Your Decarbonization Strategy** and increasing scale of building electrification is critical to reaching our greenhouse gas emission goals and reducing local pollution.

There are more than  
**6.2 million\***  
buildings in New York



**500 buildings**  
per day need to be decarbonized  
over the next 30 years



**100%**

of new construction projects  
need to be all electric





A photograph of a man and a woman in a kitchen. The man is on the left, wearing a grey t-shirt, and the woman is on the right, wearing a black t-shirt and a patterned skirt. They are standing near a kitchen counter with a sink and a stove. There are several potted plants on the counter and a window with blinds in the background. A chandelier hangs from the ceiling. The overall atmosphere is warm and domestic.

**92%**

of people say they want to live a sustainable life

**16%**

but only 16% are actively changing their behaviours

# Technical Problems & Adaptive Challenges

# Technical Problems & Adaptive Challenges

- Identify and understand the difference between adaptive challenges and technical problems.
- Understand the skills, capacities, and tools necessary to work on adaptive challenges
- Distinguishing between technical and adaptive problems is important for making progress on the challenges you are facing. Each requires a different set of skills and strategies.
- Technical problems are easy to recognize. You know how to solve them.
- Adaptive challenges are a problem that is not clearly defined and will require learning to understand what's going on.



# Thank You!

For more information,  
please contact:

“Plan for the future, because that’s where you’re  
going to spend the rest of your life” – Mark Twain

**Shaun Hoyte**

Head of Clean Energy Networks

