

Welcome to the waiting room. We'll begin shortly.





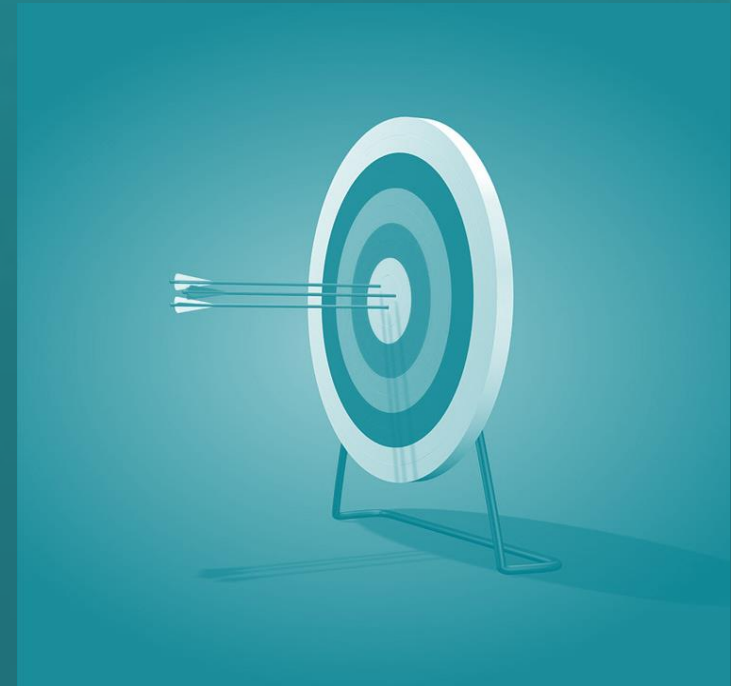
# **New Jersey Zero Energy Building (ZEB) Code Collaborative Meeting #2**

Wednesday, April 21th, 2021

# Goals for the Meeting



*The purpose of this meeting is to share the initial results of the survey. We will discuss key findings, trends, and important takeaways as we begin developing recommendations for the Zero Energy Buildings Roadmap*



# Agenda



- Welcome and Introductions
- Overview of Survey Results
  - Breakdown of results
  - Q & A
- Guided Discussion
- Next Steps and Closing Remarks
  - Topics and scheduling for upcoming meetings
  - Changes to meeting platform
  - Roadmap Development

# Housekeeping



- GoToWebinar Troubleshooting:
  - *For best audio quality, call in using your phone to the number provided and enter your pin*
  - *If you have any technical issues, comments, or questions, please type them into the chat box*



Type questions into chat box or “raise your hand”

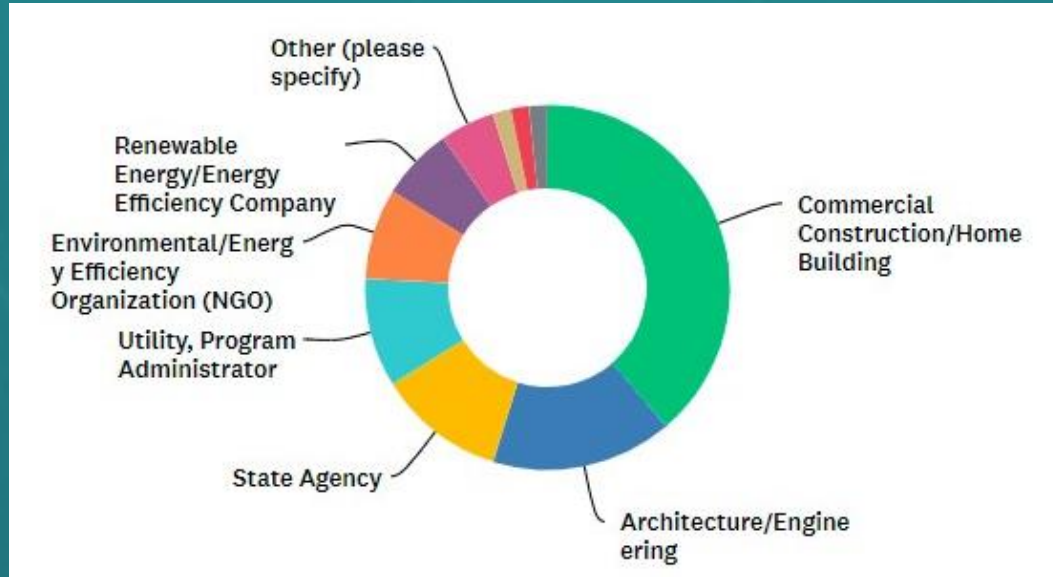
Please self mute!

Slides and notes will be shared following the meeting

# Round of Introductions



# Survey Demographics



ANSWER CHOICES	RESPONSES	
Commercial Construction/Home Building	38.71%	24
Architecture/Engineering	16.13%	10
State Agency	11.29%	7
Utility, Program Administrator	9.68%	6
Environmental/Energy Efficiency Organization (NGO)	8.06%	5
Renewable Energy/Energy Efficiency Company	6.45%	4
Other (please specify)	4.84%	3
Academic/Trade School	1.61%	1
Municipal Government	1.61%	1
Manufacturing	1.61%	1
<b>TOTAL</b>		<b>62</b>

Please rank the following building energy code measures based on their importance for meeting state goals.



### Top 5 Choices:

1. Energy efficiency and electrification updates to the Rehabilitation (Existing Buildings) Subcode
2. Expanded energy code training opportunities
3. Zero energy code adoption timeline
4. Legislation to expand code adoption opportunities
5. Electronic Permitting/Virtual Inspections capacity

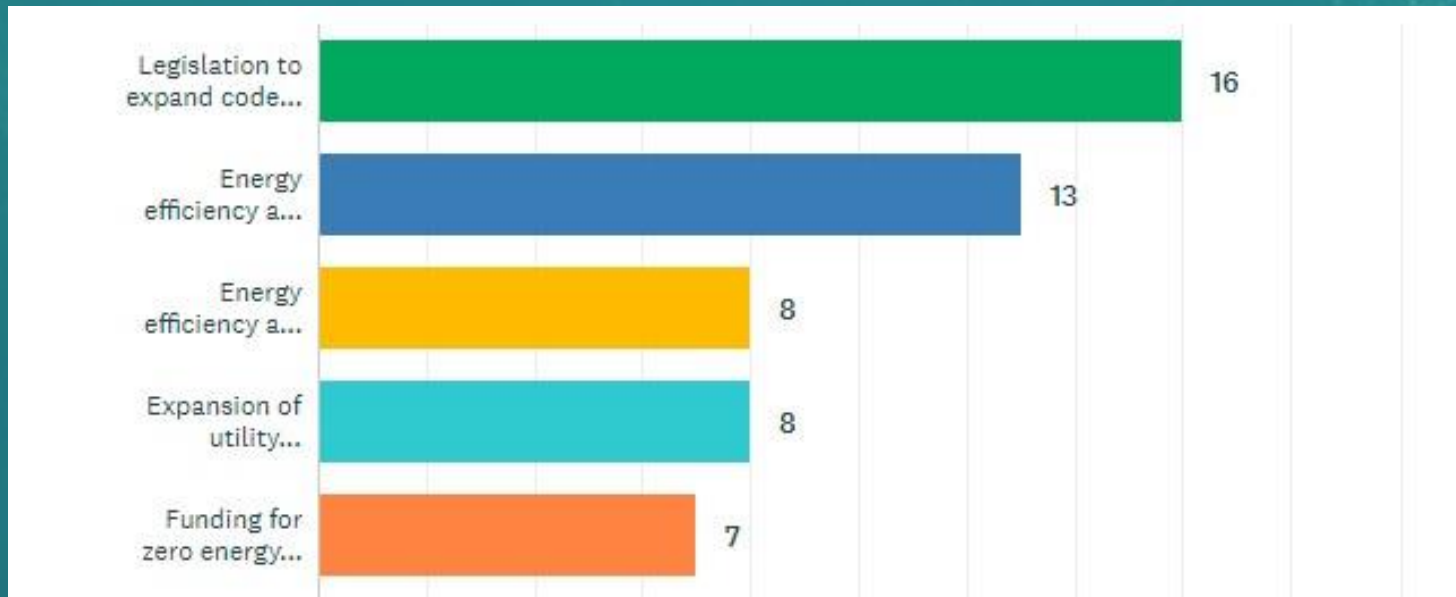
Please rank the following building decarbonization measures based on their importance for meeting state goals.



Top 5 Choices:

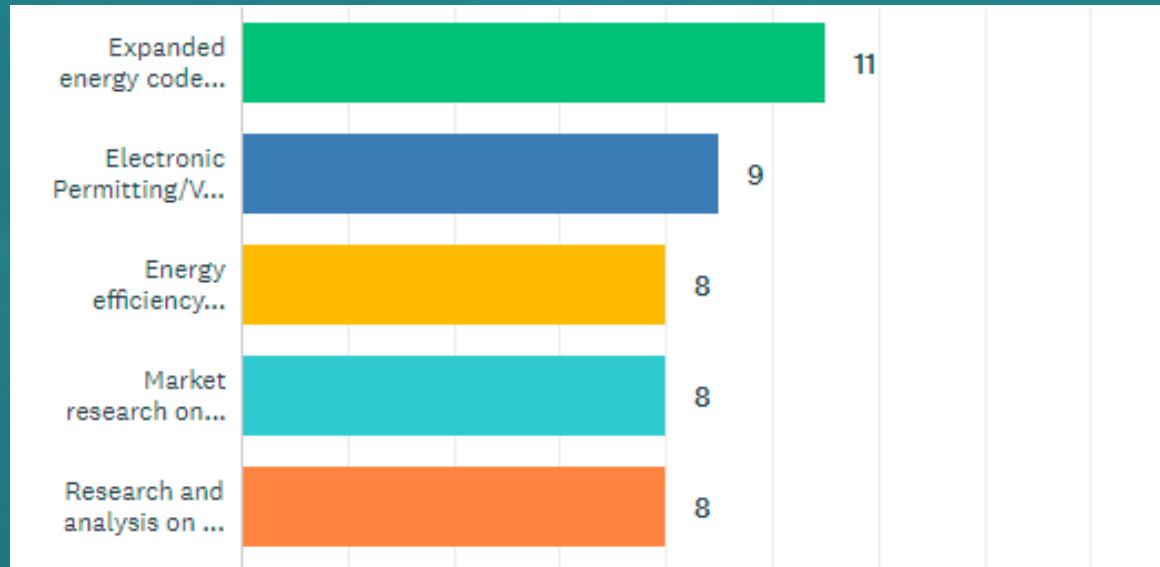
1. Lifecycle cost analysis of zero energy buildings
2. Expansion of utility incentives for whole building performance, building electrification technology, and weatherization
3. Building Energy Performance Standards (BEPS)
4. Research and analysis of grid impacts from building electrification and electric vehicles
5. Research and analysis on the existing building retrofit market

# In your opinion, which measure(s) face the greatest barrier to implementation?



ANSWER CHOICES	RESPONSES
Legislation to expand code adoption opportunities	47.06% 16
Energy efficiency and electrification updates to the Rehabilitation (Existing Buildings) Subcode	38.24% 13
Energy efficiency and electrification funding for LMI communities	23.53% 8
Expansion of utility incentives for whole building performance, building electrification technology, and weatherization	23.53% 8
Funding for zero energy building pilot programs	20.59% 7

# In your opinion, which measure(s) are the most feasible for rapid implementation?



ANSWER CHOICES	RESPONSES
Expanded energy code training opportunities	32.35% 11
Electronic Permitting/Virtual Inspections capacity	26.47% 9
Energy efficiency workforce training programs	23.53% 8
Market research on building electrification technology	23.53% 8
Research and analysis on the existing building retrofit market	23.53% 8

# Which measure(s) referenced above are you least familiar with and would like more information on?



## Common Topics:

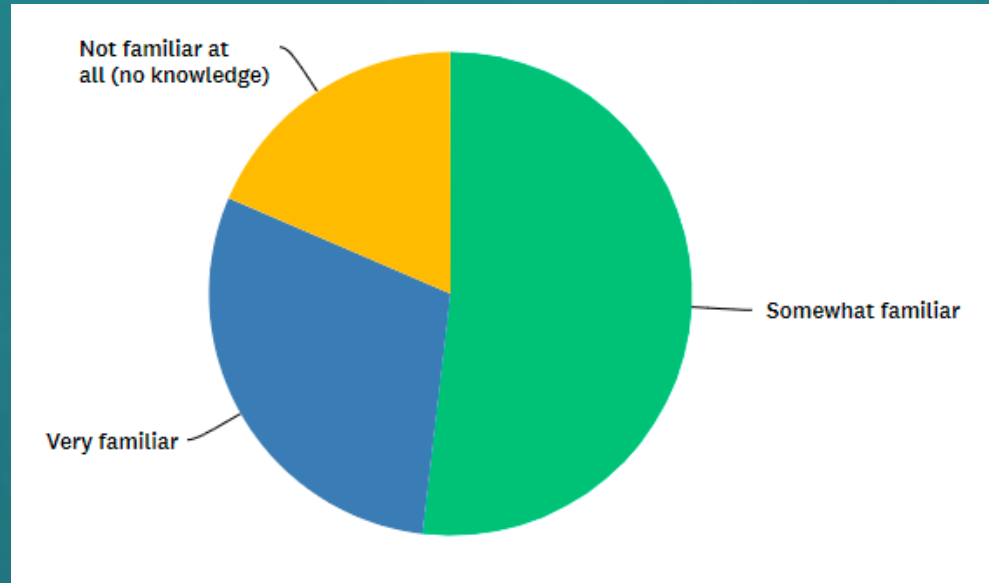
- Code Attribution for Utilities
- Grid-Interactive Efficient Buildings (GEBs)
- Building Energy Performance Standards (BEPS)
- Research and Analysis of Grid Impacts
- Voluntary stretch Codes



# Questions



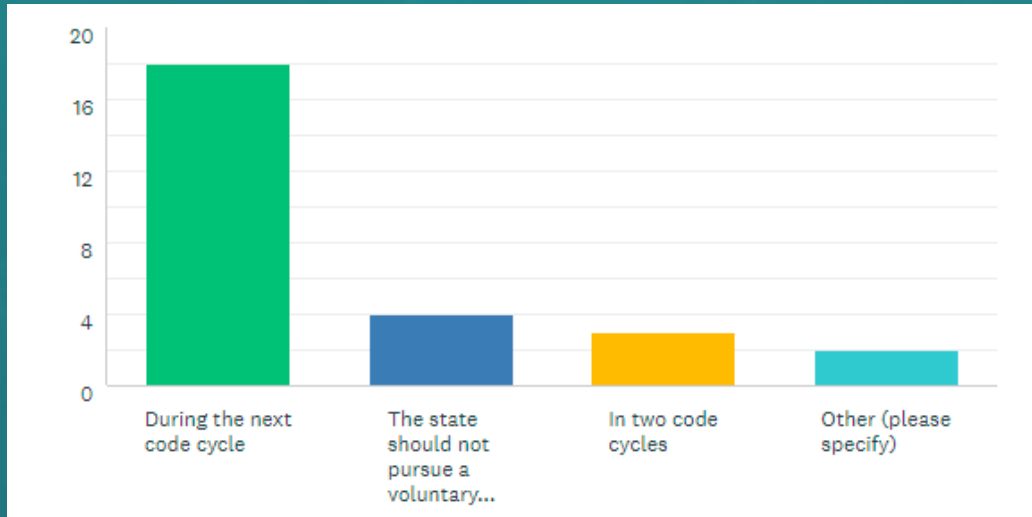
# Familiarity with Code Adoption in New Jersey



**What type of resources would be most helpful for you to have to better engage with the code adoption process?**

- Newsletter
- Webinars
- Infographics
- Best practices in other states

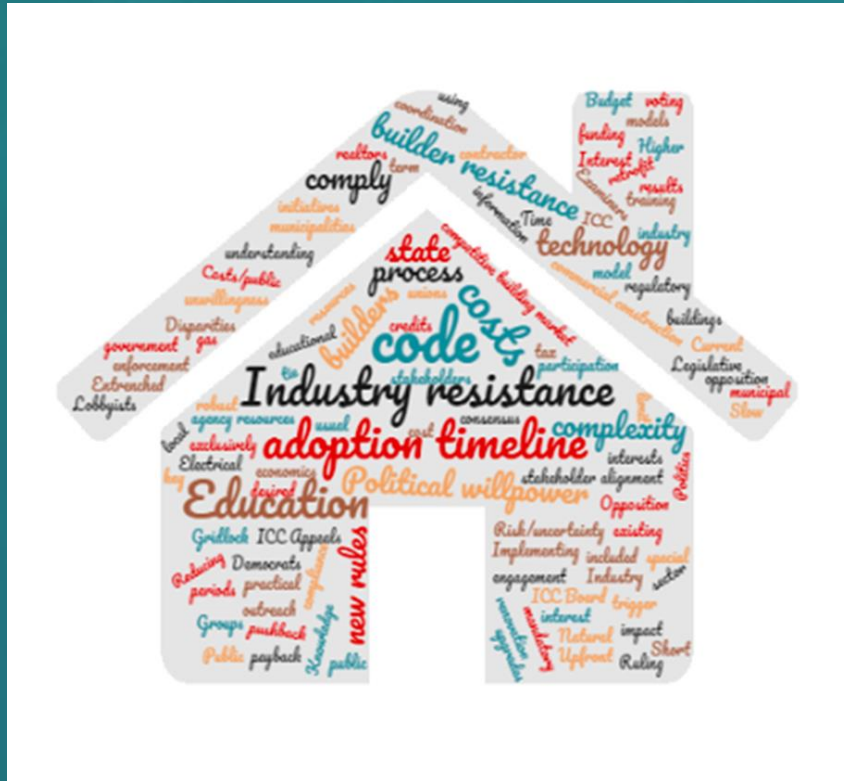
# Stretch Code Adoption



If the state should NOT adopt a voluntary stretch code, please briefly explain why.

- No mechanism for stretch code incentivization
- There should be more focus on improving existing homes and buildings

# Barriers to code Adoption, Compliance, and Enforcement



## Adoption Barriers:

- Industry resistance
- “Business as usual”

## Enforcement Barriers:

- Workforce (code officials)

## Compliance Barriers:

- Enforcement mechanisms
- Workforce training (builders, contractors, etc.)

# Biggest challenges to designing and building to more energy-efficient code standards



- Industry apprehension
- *\*Low of consumer demand (upfront costs)\**
- Lack of product options and availability
- Knowledgeable contractors, installers and designers



# Zero Energy Buildings and Energy Efficient Codes



Demonstrate lower life cycle cost and better performance through case studies and marketing



Environmental impacts



Energy and utility savings



Promoting non-energy benefits (comfort, health, etc.)

# Code or building-related education opportunities



- Awareness of utility and NJCEP incentives
- Model codes webinars and workshops for local code officials, contractors and design firms
- Cost impacts (life cycle costs, payback periods, etc.)
- Building electrification technologies
- Demand response and grid benefit
- Electric vehicle infrastructure
- Automated Load Management Systems



# Questions and Discussion

What topics did the survey NOT touch on that should be addressed in the roadmap?

Given the barrier of code legislation and desire to pursue a stretch code during the next code cycle, what are feasible next steps that this collaborative can help address?

What types of resources would be most helpful to increase industry buy-in and consumer demand for zero energy buildings?



# Next Steps

- Please fill out the survey and share it:

<https://www.surveymonkey.com/r/ZEBroadmapsurvey>

- Meeting Schedule
- Roadmap Development



For additional info and questions, contact:  
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