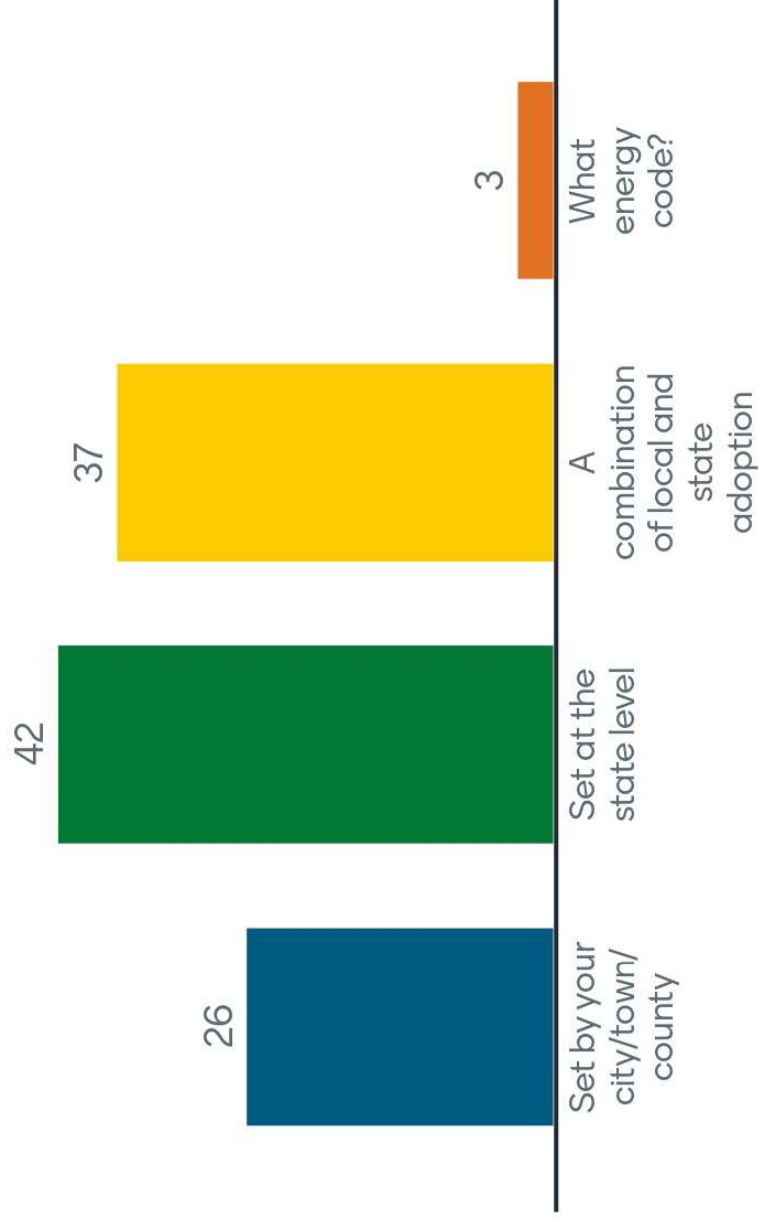


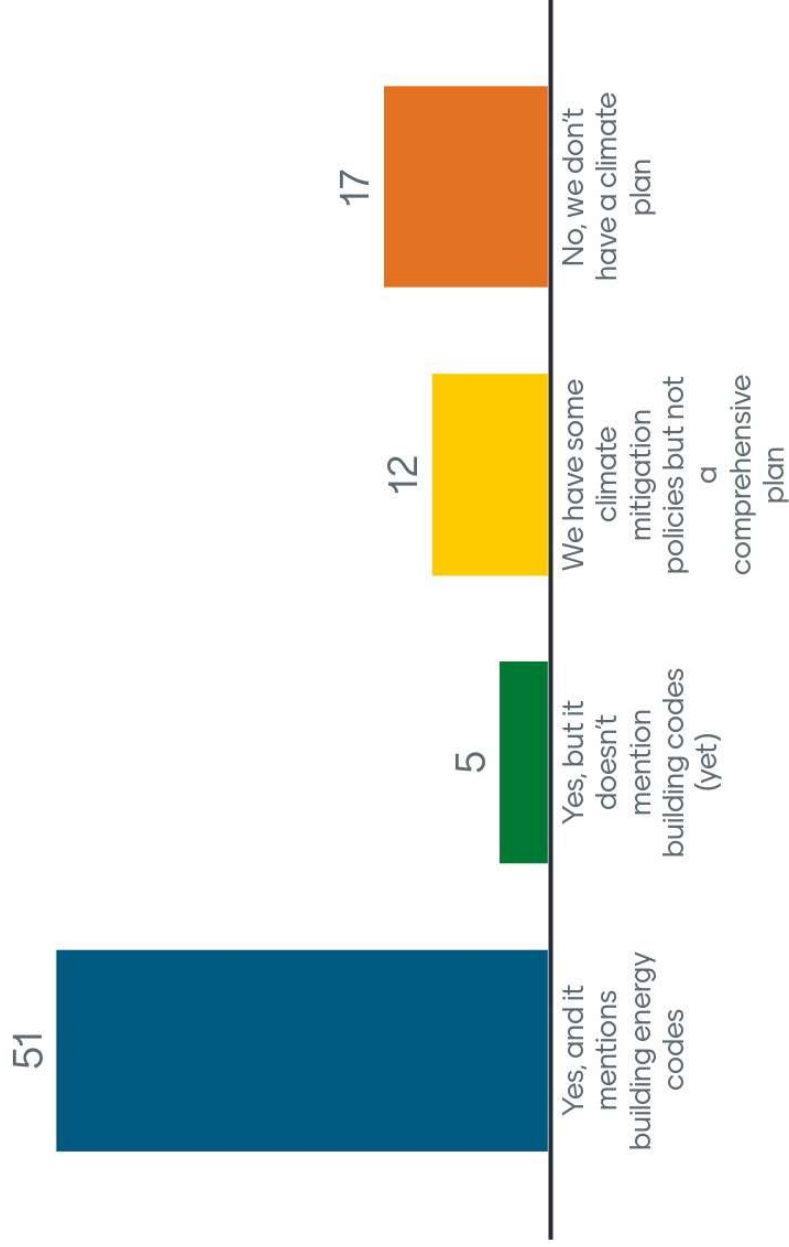
How Building Energy Codes Fit your State's or City's Climate Plan



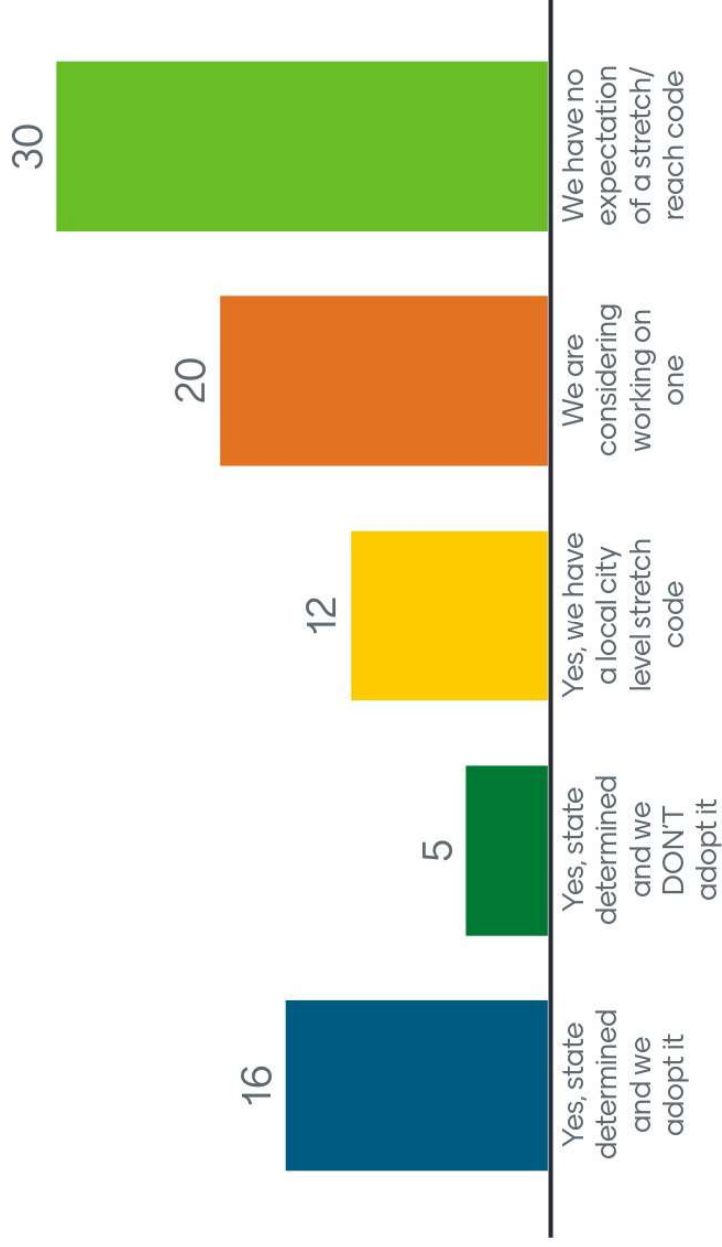
Is your local energy code



Do you have a local or state climate plan?



Do you have a stretch code available to you?



What is the biggest challenge you face in adoption of new energy codes?



Awareness of the value of updated energy codes



Funding



Political Support



Buy-in from the code officials



All of the above



Something else (write in chat)

How does your current energy code help to achieve climate plan goals?

Yes

increased efficiency.

energy choice

Not sure

It doesn't

Consistent enforcement

Not well aligned

directional guidelines

Focus on decarbonization

How does your current energy code help to achieve climate plan goals?

NA

Close but no cigar

Most up-to-date codes in the Nation.

None yet

embraces renewable energy

Needs improvement

Keeps us on the model energy code path

We're at 2009 IECC - so very little statewide

Still lacking - the state's residential energy code is at 2012 levels

How does your current energy code help to achieve climate plan goals?

Work with multiple states varies with locality

Solar

Prepares buildings for the next step to net zero (ZNE).

not sure

Reduces energy generation demand

Very important, very effective

energy efficiency

it doesn't

Codes lag behind goals

How does your current energy code help to achieve climate plan goals?

it doesn't

Code is only as effective as compliance, which is less than great

needs work! And needs reinforcement and needs to progress to the latest version

emissions reduction

Reduces energy use, but falls short on reducing fossil fuel use in buildings and encouraging a sustainable electricity ecosystem overall

Solar

Better envelopes

Empowers the Code Official

Reduces emissions

How does your current energy code help to achieve climate plan goals?

N/A

no guidance

increased efficiency requirements

Seen as important, but most don't really understand it

Reduce EUI

Title 24 moving in the right direction

Energy code is to far behind for climate goals

There is a gap between code adoption, compliance and enforcement

N/A

How does your current energy code help to achieve climate plan goals?

Decouple the two so it can be adopted.

Carbon reduction

Set goals

Includes a gas ban for buildings >4 stories

it does not, need political support

to be improved

Helps local governments

adoption of the 2015 IECC

Pretty well even though different agencies are responsible for energy codes and climate goals.

How does your current energy code help to achieve climate plan goals?

It doesn't, at least directly. States and local governments should more actively/deliberately align energy codes with energy and climate goals.

Well

small step to the main goal

Energy code is new and just being rolled out so it is not really active. Does not relate to climate plan goals as is.

Ensures that new buildings are efficient... though not necessarily future-proofed (no gas, yes grid integration).

lessens energy demands

My municipality sends out Energy Inspectors to the job sites to enforce the building plans that were also reviewed specifically for energy code compliance.

automatic updates each cycle ensures advancement (if model codes keep up!)

minor part

How does your current energy code help to achieve climate plan goals?

Supporting electrification

Ditch prescriptive and focus on performance/outcome

More conversations with widespread players.

Consistent enforcement

Decouple them from climate goals so our political atmosphere will accept energy codes

energy resilience

Develop better financial models to include environmental impact

How to deal with certain building types

strategies for peak demand

How does your current energy code help to achieve climate plan goals?

increased insulation levels.

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

increased data gathering requirements

Actual movement in the Residential 2024 IECC instead of what is happening now in the process.

Branching out beyond just buildings.

code that impacts EXISTING buildings

Move away from cost effectiveness metric

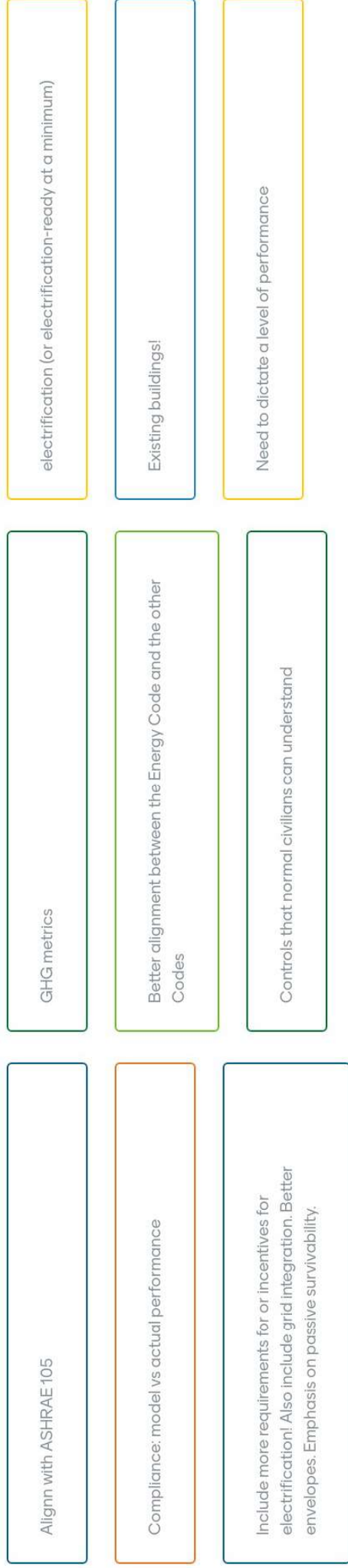
Focus on reducing CO2E, not energy use

Focus on existing buildings

All cost-effective improvements should be included in the base model codes.

Model codes need to advance faster

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?



Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

Addressing existing building stock

Have all new buildings run through simulation software.

existing buildings

existing buildings

existing buildings

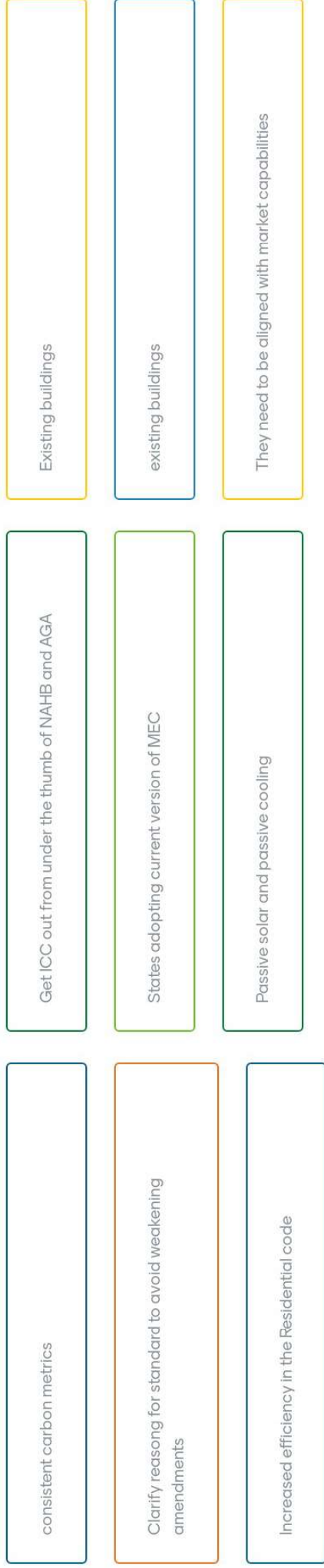
HAVE COMMERCIAL BUILDINGS PRODUCE THEIR OWN WATER SUPPLY

WWR ratios for residential

existing buildings

existing buildings

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?



Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

all of your suggestions

Existing building improvements

resilience

shifting from EUJ to total energy consumption / promoting smaller buildings

Need to link new gas hookups to penalties

controls, smart thermostats, etc

data-driven benchmarking/retrofit funding for existing buildings

Data comparison on existing buildings

Cost-effectiveness including need to address climate change impacts in the future

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

Focus on embodied carbon

Encourage heat pumps

Incentives for improving existing buildings

The whole building as a system, including systems and components ... PV, ESS, EV Charging, electrification.

Renewable natural gas

Focus on helping the people managing equipment

Improvements for existing buildings

Cost-effectiveness metrics need to better account for ancillary effects, including social impacts of GHGs, health, equity, etc.

Existing residential buildings

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?



Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

Better alignment with metrics

Carbon! Carbon! Carbon!

Consistent Enforcement

energy choice and availability of several fuel sources

More comprehensive energy and resilience planning--at both state and local levels--and model plans for them to work with an adapt to their needs

provide software tools and guidance resources

Better guides for Code Officials on enforcement

More aggressive national model codes

equity/affordability considerations

Where do you see room for improvement in model energy codes to better align with achievement of climate plan goals?

ICC and ASHRAE bodies need to more directly embrace energy and climate goals--those development bodies have traditionally been too agnostic to societal level goals and impacts

Federal preemption is a big barrier. Need easier exemption from preemption pathways.

Metrics need be aligned or at least have viable "crosswalks." For example, model energy codes should use long run marginal GHG emissions but there may not be a clear way to determine whether buildings comply with the GHG emissions limits and how the

Carbon emissions should be valued on a long-run marginal basis based upon hourly source energy

electrical and solar ready requirements

be reported for the climate action plans.

Model energy code development processes are overly burdensome

training and education

What code enforcement approach do you think would work best for your current or future climate plan?



Home rule - local energy code adoption



State minimum code



State min code with local option to adopt stretch code



No energy code



Something else (write in chat)

For advanced reach or stretch codes what elements would be most important to support your climate plan goals?



Electrification (Heat pumps, EVs)



Solar requirements



More energy efficiency (e.g. Passivehouse)



Embodied carbon



Resilience & Grid integration



Other (write in chat)

What do you see as the best strategy for improving energy code compliance in your jurisdiction?



More education on the code requirements



Using 3rd party inspections by energy specialists



Making the code more performance-based/
flexible



Other (write in chat)