# City of Cambridge Getting to Net Zero Action Plan 5-Year Review

# Meeting 3: Establishing the Framework for NZAP Adjustments

January 21, 2021

THE PATH TO A

# Meeting Objectives

- Ensure Task Force members are of the same understanding for determining adjustments
- Begin to capture as broad of a range as possible for NZAP strategy adjustments
- Give task force members a starting point and structure to work from

Mtg. 3: Solidify Adj Framework and Complete Initial Brainstorm Mtg. 4: Prioritize Adjustments Based on Impact Potential (TF to Pitch Ideas) Mtg. 5: Review Impacts of Proposed Adjustments and Get Buy-in from TF

Mtg. 6: Focus on implementation plan



# Meeting Agenda

- 4:00 4:20 Part 1: Welcome and Recap of Meeting 2
- 4:20 4:30 Part 2: Context for NZAP Adjustments
- 4:30 4:50 Part 3: Considerations for NZAP Adjustments from Consulting Team
- 4:50 5:20 Part 4: Breakout Brainstorm Possible Adjustments
- 5:20 5:50 Part 5: Breakout Report Back and Homework Group Organization
- 5:50 6:00 Part 6: Public Comment



Part 1

## **MEETING 2 RECAP**

#### **GHG** Emissions Trends from Building Stock



## Measurable Results To-date

From the 5-year impact assessment, 4 NZAP Actions were found to have measurable results to-date

- Custom Retrofit Program (Action 1.1.1)
- Green Building Requirements (Action 2.3)
- Renewal of Municipal Building (Action 2.4.2)
- Rooftop Solar Ready Requirements (Action 3.2)

## Assessing Impacts and Co-benefits of NZAP Adjustments

- What is the potential for emissions reductions from an Action?
- What is the technical and economic feasibility of implementing the Action when reflecting upon current Policy and available Technology?
- What other benefits to the community might be realized by pursing an Action?

All adjustments need to be evaluated for equity implications

## **Co-benefits of NZAP Actions**

Consider Each through an Equity Lens			
Government and Policy Development	Economic	Environmental	
Leadership by example	Employment Growth	Reduction in Water Use	
Promotes Collaboration	Enhanced Economic Competitiveness	Less Materials Use Impacts	
Facilitates Public Participation	Reduction in Operation Costs	Reduction in Waste	
Enhances Policy Evaluation	Reduction in Cost of Public Infrastructure	Lowers air pollution from generation assets	
Enhanced data availability and access	Decreased Energy Costs	Life-cycle Carbon Emissions Reductions	
Health and Wellbeing	Climate Resilience	Access and Engagement	
Promotes Healthy Lifestyle for Residents	Increased Energy Security	Improved Access to Public Space	
Lowers Combustible Gases in Buildings	Provides opp. for hardening infrastructure	Improved Access to Public Transit	
Improves Community Aesthetics	Provides opp. for improved building resilience	Improved Access to Employment /Training	
Improved Building Comfort/IAQ	Reduces Risk for Vulnerable Populations	Engagement of Local Women/Minority Owned Businesses	

### Feedback from Task Force on Co-benefits

Following Meeting 2, we asked:

- What are your top priorities for co-benefits that we need to consider when assessing actions?
- Are there other co-benefits that should be considered?
- What other ways might we evaluate adjustments to NZAP actions?

## **Co-benefits of NZAP Actions**

#### **Consider Each through an Equity Lens**

Government and Policy Development	Economic	Environmental
Leadership by example	Employment Growth with emphasis on marginalized populations	Reduction in Water Use
Promotes Collaboration	Enhanced Economic Competitiveness	Impacts of Materials Use
Facilitates Public Participation	Reduction in Operation Costs	Reduction in Waste
Enhances Policy Evaluation	Reduction in Cost of Public Infrastructure	Lowers air pollution and associated health impacts
Enhanced data availability and access	Decreased Energy Costs overall and relative to % of income	Life-cycle Carbon Emissions Reductions / Embodied Carbon
	Provided opportunities for employment training	Reduces urban heat islands
Health and Wellbeing	Climate Resilience	Access and Engagement
Promotes Healthy Lifestyle for Residents	Increased Energy Security	Improved Access to Public Space
Lowers Combustible Gases in Buildings and exposure to CO gases	Provides opp. for hardening infrastructure	Improved Access to Public Transit
Improves Community Aesthetics	Provides opp. for improved building resilience	Improved Access to Employment /Training
Improved Building Comfort/IAQ	Reduces Risk for Vulnerable Populations	Engagement of Local Women/Minority Owned Businesses
Improves building operations/operational performance		Public education (energy/emissions)
		Promotes mobilization of resources provides opportunities for engagement

### Feedback from Task Force on Co-benefits

#### Other feedback received:

#### **Re: Priorities for Actions**

"Most important priority is to electrify buildings in Cambridge as quickly as possible, and to take steps to ensure that as much of that electricity as possible comes from fossil-fuel-free sources"

#### **Re: Policy and Tech**

"Restructure state level incentive programs to account for and reward carbon reductions"

"Ensure that embodied carbon is considered/evaluated"

Re: Greatest potential for meeting sciencebased targets:

"BEUDO Requirements - Existing buildings play a huge role in meeting the carbon goals, and we need to challenge the market to proactively come up with and implement solutions to improving their performance

"Combine Net Zero New Construction/Article 22 - While the piece of the pie related to these buildings is not huge, this can happen right now and make sure we are not digging the hole any deeper with our new buildings."

Part 2

## **CONTEXT FOR NZAP ADJUSTMENTS**

#### NZAP Structure – Actions vs. Action Categories

Action Categories	Actions
1. Energy Efficiency	1.1.1 Custom Retrofit Program
	1.1.2 Additional BEUDO Requirements
	1.1.3 Upgrades at Time of Renovation or Sale
	1.1.4 Operations and Maintenance Plan Requirement
2. Net Zero New Construction	2.1 Net Zero New Construction
	2.2.1 Market Based Incentive Program
	2.2.2 Height and FAR Bonus
	2.3 Increase Green Building Requirements
	2.4.1 Net Zero Requirement for New Construction Municipal Buildings
	2.4.2 Renewal of Municipal Buildings
	2.5 Removal of Barriers to Increased Insulation
3. Energy Supply	3.1 Low Carbon Energy Supply Strategy
	3.2 Rooftop Solar Ready Requirement
	3.3 Development of MOU with Local Utilities
4. Local Carbon Fund	4 Investigate Local Carbon Fund
5. Engagement and Capacity Building	5.1 Communication Strategy
	5.2 Develop Ongoing Capacity to Manage NZAP
	5.3 Net Zero Labs Standards

## Frames of Reference

Three Frames of reference for considering NZAP Adjustments

- 1. Original NZAP Principles
- 2. Current Science, Policy, Technology and Equity conditions
- 3. Overall **potential impacts and co-benefits** to the community
  - What is the potential for emissions reductions from an Action?
  - What is the technical and economic feasibility?
  - What co-benefits might be realized by the community if pursing an Action?



#### **Recent GHG Emissions Trends from Building Stock**



Between 2015 and 2020 Cambridge Added 8.1 million square feet of floor area, yet emissions remained flat

#### % of GHG Emissions by Fuel



Nearly half of emissions relate to use of natural gas and half relate to electricity consumption

## **Considerations for Program Development**



- By end use, space and water heating, cooking, cooling, lighting, refrigeration, and plug loads are the top energy users in buildings.
- Since each end use leverages a different primary fuel, impacts of actions can be drastically different.
- Where we focus our efforts will be driven by how much progress has been made towards decarbonization

## Expectations for NZAP Adjustments

- Original NZAP was a comprehensive assessment and development of a set of actions that would help the city reach it's NZE goals
- Goal of the NZAP 5-year review is not to re-write the plan but consider how to make the existing plan work better

Adjustments may be:

- 1. Modifications to actions based on priorities or new information
- 2. Operational what is needed to make implementation more effective
- 3. New strategies that will support deep levels of emissions reductions

## NZAP Adjustment Guidance

• When considering adjustments, NZTF members may refer to the NZAP Adjustment Tool developed to help guide the process

#### N7AP Action Adjustment Guideline

This tool was developed to help NZTF think through potential adjustments to the NZAP. The NZAP was originally developed with a robust set of actions that, at the time, represented a comprehensive approach to achieving the city's net zero goals. The current NZAP contains 5 Action Categories and 17 Actions. Adjustments to the NZAP actions may be of operational nature (with respect to implementation), changes in priorities, or the addition of new action actions all together based on conditions that exist today. When considering adjustments, there are three frames of reference that have been discussed:

- Adherence to the original NZAP Principles
- Current Science, Policy, Technology, and Equity conditions
- Potential for emissions reductions and other co-benefits to the community

This guideline is organized according to these frames of reference. Net Zero Task Force members may use this tool to document ideas as well as rate possible adjustments on a scale of 1-5 relative to the anticipated co-benefits of pursuing such an action. NZTF members will be divided into topical working groups to generate ideas for adjustments to energy efficiency, new construction, and energy supply related actions. the working groups shall fill out this template for each idea. The consulting team will then compile this information, prioritize suggestions with NZTF input, and incorporate the feedback into an Updated NZAP.

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Action Item for Consideration:	[Enter Action Name]	Emissions Sector:	Commercial & Institutional
Description:	[Enter Description]	Applies to Existing Buildings or New:	Existing Buildings
Adherence to Original NZAP Princip			
Autorence to originarites a rinicip	les:	Check off those that apply	Notes
1 Supports climate goals an	les: Healthy economic strategies	Check off those that apply x	Notes
1 Supports climate goals an 2 Uses science, market, and	les: I healthy economic strategies data-driven analysis to inform decision making	Check off those that apply x	Notes
1 Supports climate goals an 2 Uses science, market, and 3 Support an openness to ne	les: I healthy economic strategies data-driven analysis to inform decision making w ideas when circumstances change	Check off those that apply x	Notes
Supports climate goals an Uses science, market, and Support an openness to ne Commitment to allowing the	les: J healthy economic strategies data-driven analysis to inform decision making wi deas when circumstances change e principle of offsets	Check off those that apply x	Notes
Supports climate goals an Uses science, market, and Support an openness to ne Commitment to allowing th S Commitment to measuring	les: healthy economic strategies data-driven analysis to inform decision making w ideas when circumstances change e principle of offsets and monitoring impact over time	Check off those that apply x	Notes

Current Science, Policy, Technology, and Equity conditions	Notes on Potential Adjustment Relative to SPTE	
8 NEW: Commitment to implementing the NZAP through a racial equity and social justice lens		
7 Commitment to developing informative and replicable models		
6 Ensures consultation is comprehensive and engages affected stakeholders		

current science, Folicy, reciniology, a	na Equity conditions	Notes on Potential Aujustment Relative to SPTE
Science:	The latest scientific assessments that tell us emissions need	
	to be reduced 45% below 2010 levels by 2030 and 100% by	
	2050 to stay below a 1.5-degree increase. How will this action	
	help support that goal?	
Policy:	Consider how favorable current Federal, State and Local	
	Policies for supporting our effort to reach the science-based	
	goals.	
Technology:	Consider how well established technologies are that are	
	needed to pursue this action	
Equity:	Consider the strength of this action relative to supporting	
	NZAP social equity goals	
1		

## CONSIDERATIONS FOR NZAP ADJUSTMENTS FROM CONSULTING TEAM

Part 3:

## **GHG Emissions Goals**



Note: The Current Trendline above does not consider the impacts of NZAP actions that are underway including the BEUDO Performance Requirements which are expected to have a significant impact going forward.

### Policy Implications for GHG Emissions Forecast



**BAU GHG Emissions Forecast** 

### State Policy Implications on GHG Emissions Forecast



**GHG Emissions Forecast with State-wide CES Standards Met** 

### City Policy Implications on GHG Emissions Forecast



GHG Emissions Forecast with BEUDO goals achieved

Legend:

- Energy Performance Large Buildings (Electricity)
- Energy Performance Large Buildings (Gas)

### Policy Implications on GHG Emissions Forecast



**GHG Emissions Forecast with State-wide and BEUDO** 



#### **GHG** Emissions Reduction Targets



GHG Emissions Targets for Multiple Actions (For Illustrative Purposes Only)

#### Legend:

- State CES
- Energy Performance Large Buildings (Electricity)
- Energy Performance Large Buildings (Gas)
- EE Retrofits for Homes and Sm. Business
- NZE New Construction
- On-site DER / Renewable Energy

#### **Technology Assessment**

Tech Category	NZAP Enabling Technologies	Energy Effic Existing Bui	iency in Idings	Net Zero Ne Constructio	ew n	Energy Sup	ply	Relative Impact on Overall Future Cambridge Emissions
		Economic	Technical	Economic	Technical	Economic	Technical	
Thermal Tech	Air / Water Source Heat Pumps					n/a	n/a	+++
	Ground Source Heat Pumps				<b>☆</b>	n/a	n/a	++
DER	Rooftop PV					n/a	n/a	+++
	Solar Thermal					n/a	n/a	+
	Fuel Cells				<b>↑</b>	n/a	n/a	+
Energy Efficiency	Lighting Systems	$\mathbf{t}$			<b>∱</b>	n/a	n/a	++
	Demand Flexibility					n/a	n/a	+++
Materials	PCM / Thermal Storage				<b>∂</b>	n/a	n/a	+
	Cement Alternatives	•				n/a	n/a	++
	Glass				$\mathbf{t}$	n/a	n/a	++
Thermal Energy	Electrolysis / Hydrogen Blending	n/a	n/a	n/a	n/a			++
Supply	Geothermal Districts	n/a	n/a	n/a	n/a			++
Grid-scale	Wind	n/a	n/a	n/a	n/a			+++
Renewables	Microgrids	n/a	n/a	n/a	n/a			++
	Off-site RE Procurement	n/a	n/a	n/a	n/a	<b>1</b>		+++
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Estimated Level of Feasibility:

Moderate 🔶 Strong

Scale of Estimated Potential Impact on Overall Future Emissions:

+ Minor ++ Moderate +++ Significant

#### **Technology Assessment**

Tech Category	NZAP Enabling Technologies	Energy Effic Existing Bui	iency in Idings	Net Zero Ne Constructio	ew n	Energy Sup	ply	Relative Impact on Overall Future Cambridge Emissions
		Economic	Technical	Economic	Technical	Economic	Technical	
Thermal Tech	Air / Water Source Heat Pumps			Û	$\mathbf{\hat{t}}$	n/a	n/a	+++
	Ground Source Heat Pumps		$\mathbf{t}$		<b>1</b>	n/a	n/a	++
DER	Rooftop PV	Û	<b>∂</b>	Û	Û	n/a	n/a	+++
	Solar Thermal					n/a	n/a	+
	Fuel Cells				<b>↑</b>	n/a	n/a	+
Energy Efficiency	Lighting Systems			<b>∂</b>	<b>☆</b>	n/a	n/a	++
	Demand Flexibility			Û	仓	n/a	n/a	+++
Materials	PCM / Thermal Storage				<b>∱</b>	n/a	n/a	+
	Cement Alternatives		•			n/a	n/a	++
	Glass				ſ	n/a	n/a	++
Thermal Energy	Electrolysis / Hydrogen Blending	n/a	n/a	n/a	n/a			++
Supply	Geothermal Districts	n/a	n/a	n/a	n/a			++
Grid-scale	Wind	n/a	n/a	n/a	n/a	Û	仓	+++
Renewables	Microgrids	n/a	n/a	n/a	n/a			++
	Off-site RE Procurement	n/a	n/a	n/a	n/a	Û	Û	+++

Estimated Level of Feasibility:

Moderate 🔶 Strong

Scale of Estimated Potential Impact on Overall Future Emissions:

+ Minor ++ Moderate +++ Significant

### Consulting Teams Suggestions for NZAP Adjustments

Reflecting on the challenges previously mentioned and the current Science, Policy, and Technology conditions, the two greatest areas of need are:

- Electricity supply while current policies suggest the emissions from grid-supplied electricity will decrease, building owners need access to off-site renewable energy to meet emissions reductions goals
- Heating Emissions from natural gas combustion make-up almost half of city-wide emissions and while it is expected that heat consumption could decrease by up to 59% over the next 20-years (See LCESS Report), reducing natural gas use will be a key and difficult challenge in the years ahead



**Pillars of Decarbonization** 

### Consulting Team Suggestions for NZAP Adjustments

Structural Suggestion: Organize NZAP by Decarbonization Strategies and Enabling Actions

To further define the purpose of Actions and enable better tracking of impacts, consider:

- Action Categories as Decarbonization Strategies
- Actions as the activities undertaken to achieve the goals of the strategy
- Tracking emissions impacts at the strategy level (i.e. are these combinations of actions achieving the desired outcome)

#### Example of Structural Modifications to NZAP

Decarbonization Strategies	Enabling Actions (organized by where impacts occur)
1. Energy Performance Requirements for	1.1.2 Enact Additional BEUDO Requirements
Large Buildings	5.3 Net Zero Labs Standards
	1.1.4 Operations and Maintenance Plan Requirement (parked)
2. Energy Efficient Retrofits for Homes and Small Businesses	1.1.1 Custom Retrofit Program
	1.1.3 Upgrades at Time of Renovation or Sale
	5.1 Communications Strategy and Mobilization
	4 Investigate Local Carbon Fund
3. Net Zero New Construction	2.1 Net Zero New Construction
	2.2.1 Market Based Incentive Program (parked)
	2.2.2 Height and FAR Bonus (parked)
	2.3 Increase Green Building Requirements
	2.4.1 Net Zero Requirement for New Construction Municipal Buildings
	2.4.2 Renewal of Municipal Buildings
	2.5 Removal of Barriers to Increased Insulation
4. Low Carbon Energy Supply	3.1 Low Carbon Energy Supply Strategy
	3.2 Rooftop Solar Ready Requirement
	3.3 Development of MOU with Local Utilities (parked)

### Consulting Team Suggestions for NZAP Adjustments

#### For Energy Efficiency and Electrification:

- Implement a Point-of-Sale requirement that focuses on replacing fossil-fuel heating systems with heat pumps in homes and small businesses
- Continue to pursue a Carbon Fund to subsidize emissions reducing projects in disadvantaged communities

#### For New Construction Actions

Net Zero / Passive House Requirements for All New Construction

### Consulting Teams Suggestions for NZAP Adjustments

#### For Energy Supply Actions:

- Enable greater access to NZAP compliant off-site renewable energy
- Expand district heating systems incorporating alternate fuel sources for energy production. This may include:
  - District geothermal networks
  - Electrolysis / Hydrogen production
  - Biomass
  - Thermal energy storage



**Pillars of Decarbonization** 

#### **EXAMPLE Modifications based on Consulting Team Suggestions\***

Emissions Reduction Strategies	Enabling Actions (organized by where impacts occur)
1. Energy Performance Requirements for	1.1.2 Enact Additional BEUDO Requirements
Large Buildings	Engagement and capacity building through Cambridge Compact (CCSF)
	5.3 Net Zero Labs Standards
	1.1.4 Operations and Maintenance Plan Requirement-(no longer being pursued)
2. Energy Efficient Retrofits for Homes and Small Businesses	1.1.1 Custom Retrofit Program
	1.1.3 Electrification Upgrades at Time of Renovation or Sale
	5.1 Communications Strategy and Mobilization
	4 Investigate-Local Carbon Fund for Disadvantaged Communities
3. Net Zero New Construction	2.2.1 Market Based Incentive Program (no longer being pursued)
	2.2.2 Height and FAR Bonus (Determined to not be desirable)
	2.3 Increase Green Building Requirements to All NC ZNE
	2.4.1 Net Zero Requirement for New Construction Municipal Buildings
	2.4.2 Renewal of Municipal Buildings
	2.5 Removal of Barriers to Increased Insulation (Incorporated into Art. 22)
	Selection of Materials that Minimize Embodied Carbon
4. Low Carbon Energy Supply	3.1 Low Carbon Energy Supply Strategy Expand District Heating Systems
	3.2 Rooftop Solar Ready Requirement-Multi-initiative Solar/DER
	3.3 Development of MOU with Local Utilities (no longer being pursued)
	Enable access to NZAP Compliant Off-site Renewable Energy

\*This table is provided in the interest of providing NZTF guidance on possible modifications

Part 4:

## **BREAKOUT SESSION**

#### **Objective of this Breakout:**

- Socialize content and what it means for process
- High-level brainstorming of action adjustments

#### Following the meeting:

- Task Force members are asked to come up with a list of recommended changes for their respective areas
- Conduct some additional research
- Complete the NZAP adjustment guidance tool for each proposed adjustment

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Mtg. 6: Focus on implementation plan

#### **Consider Structural Modifications to NZAP**

- Suggestions on overall action framework
- Potential new actions within the action categories
- Potential adjustments for capacity building
- Possible elimination of actions

#### Considerations for new actions or adjustments to existing actions

- Alignment with NZAP Principles
- Reflection of Science, Technology, Policy & Equity
- GHG reduction potential & Co-benefits associated with action

#### **Reporting out**

• Following the breakout groups will take 2 minutes to share what was discussed and their top idea

## GROUP ORGANIZATION FOR HOMEWORK

#### Homework

- TF will receive an email from appointed facilitator based on breakout groups; *let us know if you prefer a different group*.
- Members should schedule an additional meeting of their group to continue the discussion started today.
- Participants might consider each working on researching one proposed adjustment and evaluating with scorecard.
- Each group is to prepare a "pitch" of the proposed adjustment(s) for the next meeting.

#### Governance

- Set up organization of note taking, identification of responsibility for pitching at next meeting.
- Google docs may be used to refine proposed adjustments
- Participants can comment on other groups' ideas in the Google docs for the other groups.

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7 Commitment to developing informative and replicable models

8 NEW: Commitment to implementing the NZAP through a racial equity and social justice lens

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Action Item for Consideration:	[Enter Action Name]	Emissions Sector:	Commercial & Institutional
Description:	[Enter Description]	Applies to Existing Buildings or New:	Existing Buildings
Adherence to Original NZAP Princip	es:	Check off those that apply	Notes
1 Supports climate goals and			
	healthy economic strategies	х	
2 Uses science, market, and o	healthy economic strategies lata-driven analysis to inform decision making	x	
2 Uses science, market, and o 3 Support an openness to new	healthy economic strategies lata-driven analysis to inform decision making v ideas when circumstances change	x	
2 Uses science, market, and o 3 Support an openness to new 4 Commitment to allowing th	healthy economic strategies lata-driven analysis to inform decision making v ideas when circumstances change e principle of offsets	×	
2 Uses science, market, and o 3 Support an openness to ner 4 Commitment to allowing th 5 Commitment to measuring	healthy economic strategies lata-driven analysis to inform decision making v ideas when circumstances change e principle of offsets and monitoring impact over time	x	

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current science, Policy, rechnology, a	ind Equity conditions	Notes on Potential Adjustment Relative to SPTE
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	goals.	
Technology:	Consider how well established technologies are that are	
	needed to pursue this action	
Equity:	Consider the strength of this action relative to supporting	
	NZAP social equity goals	

Part 6:

## **PUBLIC COMMENT**

# Closing

- Next Meeting is planned for late February
- Topic: NZAP Adjustments

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Mtg. 6: Focus on implementation plan

# Thank You!

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