

Energy Efficiency and Housing Advisory Panel

Planning and Working Session
January 12, 2021



**Climate Action
Council**

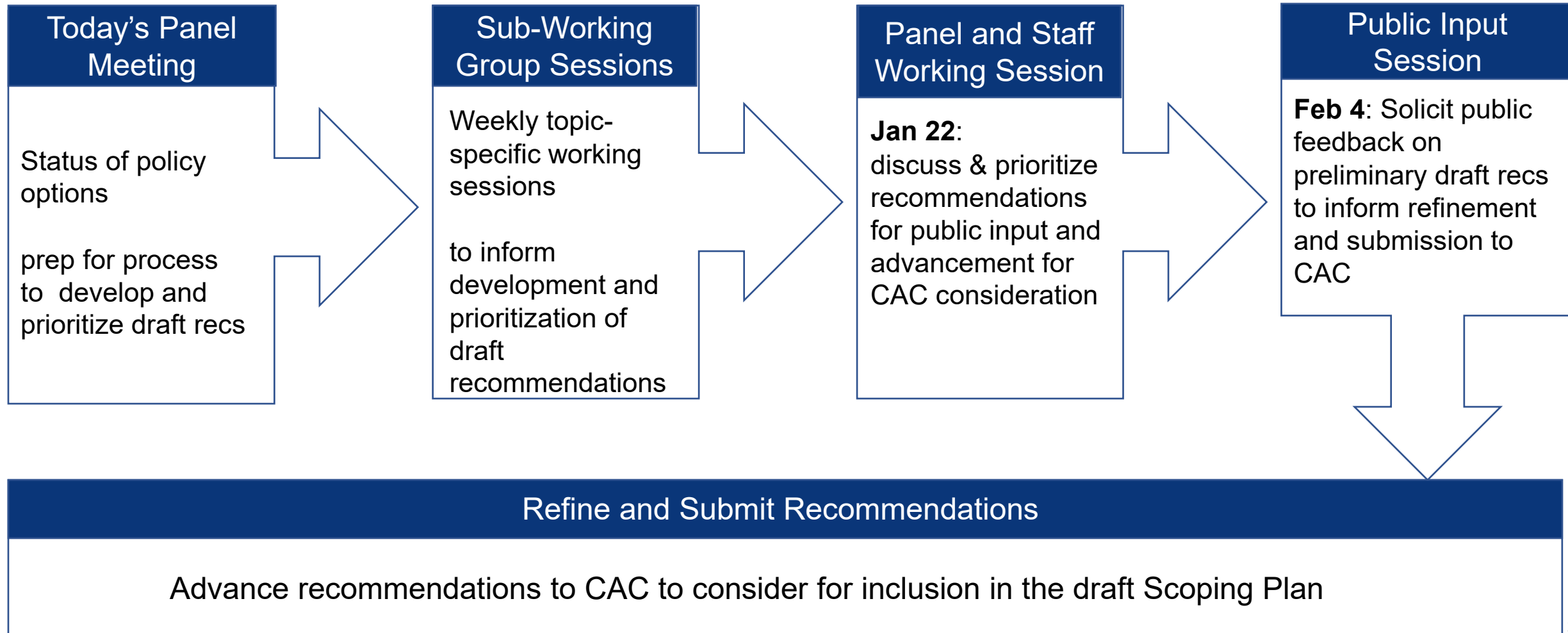
Agenda

Objective: Prepare to advance recommendations for public input and CAC consideration in Q1 2021

Agenda

- > Welcome and re-group
- > Near term activity updates
- > Getting to Recommendations (Jan 22 Working Session)
 - Workshop Plan
 - Overview of Prep Materials - Policy Options Document (rev.) and Recommendations Workbook (new)
 - Discussion on Prep Materials and Prioritization Criteria

Overview



Working Group Sessions

Voluntary topic-focused working sessions open to all Panel Members, typically on Wednesdays: 12-1:30 pm

Proposed Topics in January:

- **1/13:** Time available to review policy options materials (no meeting)
- **1/20:** Discussion re: agenda and outreach for February 4 public input session
- Date TBC: 32BJ and REBNY session with market participants
 - Practical implications of policy options on co-op/condo market segment and labor

Other upcoming topics for working group sessions:

- Regroup with CJWG representative on DAC definition
- Financing mechanisms? (topic TBC)
- Rate design? (topic TBC)
- Other near-term suggestions?

Beginning in Feb: refine policy proposals, after prioritization discussions

Upcoming CAC and Cross-Panel Session

Next Climate Action Council meeting:

- Tuesday, January 19 at 3pm (see graphic to locate WebEx link)
- Agenda topics include: CAC “Integration Analysis” process, Advisory Panel recommendations submission process, waste panel progress update, agency updates

Cross-Panel - Agriculture and Forestry Advisory Panel

- **1/26, 2pm:** Bioeconomy subgroup meeting on **end-use applications for biofuels**
 - Interested EEAH (and SWG) members are invited to join
 - **RSVP to maureen.leddy@dec.ny.gov**
 - Recommendations for additional experts on the subject to join the conversation?
 - December notes on feedstock potential will be shared in advance

Climate Act **Advisory Panels** **New York Climate Action Council** **Climate Justice Working Group** **Resources** **Events**

Get Involved. Stay Involved.
Sign up to be Among the First to Learn of New York State Climate News and Developments

Climate change is a reality. New York is fighting it.
Our future is at stake. That's why New York State is committed to the most aggressive clean energy and climate agenda in the country. In 2019, we passed the nation-leading Climate Leadership and Community Protection Act (Climate Act) to empower every New Yorker to fight climate change at home, at work, and in their communities.

New York's Climate Act builds on almost a decade of climate leadership by Governor Andrew M. Cuomo. Based on the latest climate science, the Climate Act's targets are among the most rigorous of any major economy in the world. Every New Yorker will play a key role in protecting our communities and ensuring a sustainable future. Together, we will transform New York's economy, create new jobs, and stimulate industry and innovation, while building more resilient communities to benefit, and protect, all New Yorkers.

[View the Climate Act Fact Sheet \(PDF\)](#)

New York's Nation-Leading Climate Targets

- 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

Climate Action Council to Lead the Transition
The [New York State Climate Action Council](#) (Council) is a 22-member committee that will prepare a Scoping Plan to achieve the State's bold clean energy and climate agenda. The Council will also oversee the establishment of sector-specific advisory panels and working groups and will work in consultation with the [Climate Justice Working Group](#) and the Environmental Justice Advisory Group.

The next meeting of the Climate Action Council will be held on Tuesday, January 19, 2021 at 3:00 p.m.

In keeping with measures designed to limit the spread of COVID-19, the meeting will be held via teleconference. To observe the meeting, please use the WebEx information below. A recording of the meeting will be posted on the Climate Act website within three days of the meeting, or as soon as practicable.

[Meeting Agenda \(PDF\)](#)
[View Meeting#](#)

Event Number: 145 880 6755
Event Password: climate
Phone Number: 1-415-655-0003
Access Code: 145 880 6755



Background and Prep for the Jan. 22 Working Session

Presentation by:
Toby Berkman, Senior Associate



CBI

CATALYZING COLLABORATION

Overview



- Goals for the Jan. 22 working session
- Preparatory work for staff and Panelists
- Rough Jan. 22 meeting agenda
- Review draft Policy Options and Recommendations Workbook

Jan. 22 Meeting Goals



During the meeting, we will...

- Review and discuss feedback on potential EE&H recommendations
- Elicit group preferences on potential recommendations packages

By the end of the meeting, we will have...

- Identified areas of consensus, areas of difference, and potential approaches for bridging differences around a package of recommendations for the CAC

After the meeting...

- Staff will use Panelists' feedback to develop one or more (improved) draft recommendations package(s) for additional consideration

Preparing for the Jan. 22 Meeting



Staff has worked to

- Consolidate existing long list of brainstormed recommendations into a more manageable/refined list for Panelists' consideration. They aim to:
 - Include the main ideas that have been suggested by Panelists, while grouping similar ideas
 - Articulate concrete and ambitious recommendations that are “pitched” at a middle level of abstraction vs. specificity
 - Fill in key background information around issues like timeline, impacts, etc.

Example draft recommendation:

- *Building Code to require electrification-readiness and on-site renewable energy in new construction*
- *Timeline to implement: 2025 for small residential, 2030 for multifamily and commercial*

Preparing for the Jan. 22 Meeting



Staff will

- Circulate the Recommendations Workbook that will be presented today for Panelists to: a) review and offer feedback on the recommendations, and b) indicate their priority recommendations, informed by relevant criteria

Panelists will

- Respond to the Recommendations Workbook by indicating top priority recommendations (using 8 "virtual sticky dots") and offering any additional comments/suggestions in the workbook provided

Important caveat: The exercise is completely non-binding and will be solely for the purpose of informing ongoing Advisory Panel discussions. It is, in effect, an effort to check the “pulse” of the group on different recommendations to stimulate further conversation.

Potential Jan. 22 Meeting Agenda



-> Review initial prioritization exercise

- *Staff share summary of results, feedback, and observations from the initial prioritization*

-> Small group discussions on potential recommendations

- *In light of the initial results and your own thinking, which recommendations should be included and/or prioritized? Which should be deprioritized, eliminated and/or need to be improved?*
- *What might a strong overall package of recommendations look like?*

-> Large group discussion on potential packages

- *What are the similarities and differences across the small groups?*
- *What are the areas of agreement, areas of difference, and potential paths forward for developing a consensus recommendations package for the AP as a whole?*

Potential Jan. 22 Meeting Agenda



Questions/feedback on the rough agenda?

Questions/feedback on the overall process?



About CBI

CBI is a nonprofit organization with decades of experience helping leaders collaborate to solve complex problems.

Our staff are experts in facilitation, mediation, capacity building, citizen engagement, and organizational strategy and development.

We are committed to using our skills to build collaboration on today's most significant social, environmental, and economic challenges. We work within and across organizations, sectors, and stakeholder groups.

FOR MORE INFORMATION: CBI.ORG

100 CambridgePark Drive, Suite 302
Cambridge, MA 02140
Tel (617) 492-1414

CAMBRIDGE, MA

WASHINGTON, DC

NEW YORK, NY

SAN FRANCISCO, CA

DENVER, CO

SANTIAGO, CHILE

MONTREAL, CANADA

Policy Options Document and Recommendations Workbook

Revised Policy Options Document (1 of 4)

Draft – Not for Circulation/Citation – EE&H Working Material

Contents

1	REGULATIONS THAT REQUIRE ENERGY EFFICIENCY IMPROVEMENTS AND ONSITE EMISSIONS REDUCTIONS IN BUILDINGS AND APPLIANCES	3
1.1	ENERGY EFFICIENCY CODE FOR NEW CONSTRUCTION AND SUBSTANTIAL RENOVATION.....	3
1.1.1	<i>Continue Improving the State Energy Code.....</i>	3
1.1.2	<i>Implement a Third-party Energy Code Inspection/Verification Program.....</i>	3
1.1.3	<i>Continue Advancements in a Local Stretch Energy Code.....</i>	3
1.2	ONSITE EMISSIONS-BASED REGULATION FOR NEW CONSTRUCTION AND SUBSTANTIAL RENOVATION	4
1.2.1	<i>Enact an Onsite Emissions-based Regulation for Small Residential Homes</i>	4
1.2.2	<i>Enact an Onsite Emissions-based Regulation for Multifamily and Commercial Buildings</i>	4
1.3	UPDATE UNIFORM CODES.....	4
1.3.1	<i>Amend the Uniform Code to Require Electrification-readiness and Onsite Renewable Energy</i>	4
1.4	BUILDING PERFORMANCE STANDARDS AND BENCHMARKING FOR EXISTING BUILDINGS	5
1.4.1	<i>Annual Onsite Emissions Standard for Commercial Buildings Larger than 25,000 sf in Floor Area</i>	5
1.4.2	<i>Energy Efficiency Standard for Existing Buildings Larger than 25,000 sf in Floor Area</i>	5
1.4.3	<i>Benchmarking and Disclosure</i>	5
1.5	STANDARDS FOR NEW AND REPLACEMENT EQUIPMENT AND APPLIANCES.....	5
1.5.1	<i>NYS Energy Efficiency Standard for Equipment and Appliances.....</i>	5
1.5.2	<i>NYS Emissions Standard for Residential Equipment and Appliances.....</i>	5
1.5.3	<i>NYS Emissions Standard for Commercial Equipment and Appliances</i>	6
1.6	REGULATIONS AT POINT-OF-SALE/LEASE FOR EXISTING BUILDINGS	6
1.6.1	<i>Energy Conservation Requirements in Residential Properties at Point-of-Sale or -Lease.....</i>	6
1.6.2	<i>Energy Conservation Requirements in Commercial Properties at Point-of-Sale or -Lease</i>	6

Revised Policy Options Document (2 of 4)

2	FINANCING AND INCENTIVES	6
2.1	PROVIDE FINANCING AND TRANSFORM FINANCING MARKETS	6
2.1.1	<i>Shift Lenders to Underwrite to Energy Cost Savings.....</i>	6
2.1.2	<i>Create a State Authority to Provide Low-Cost Capital for Public Benefits (Clean Water Model)</i>	6
2.1.3	<i>Develop Utility Financing Products.....</i>	7
2.1.4	<i>Expand NYS-supported Financing Products.....</i>	7
2.1.5	<i>Modifications to Affordable Housing Financing Mechanisms</i>	7
2.1.6	<i>Transform Insurance Industry Practices</i>	7
2.1.7	<i>Expand the Use and Flexibility of Performance Contracting to Achieve Public Mandates</i>	7
2.1.8	<i>Provide for Consumer Protections in Financing Products and Incentive Programs</i>	7
2.2	PROVIDE FINANCIAL INCENTIVES.....	7
2.2.1	<i>Create Pricing Mechanisms to Influence Markets (e.g. Tax incentives, Fees)</i>	8
2.2.2	<i>Direct Cash Incentives for Building Owners and Occupants to Make Upgrades</i>	8
2.2.3	<i>Dedicated Direct Cash Incentives for LMI households, DACs, and Affordable Housing.....</i>	8
2.2.4	<i>Possible Sources of Funds for Subsidies.....</i>	8
2.2.5	<i>Coordinate and Leverage Available Resources for Healthy Housing</i>	9

Revised Policy Options Document (3 of 4)

3	WORKFORCE DEVELOPMENT, TRAINING, AND EDUCATION	9
3.1	VOLUNTARY APPROACHES: TRAINING, HIRING, PLACEMENT IN CLEAN ENERGY AND ADJACENT INDUSTRIES	9
3.1.1	<i>Continue to Invest in Training of Incumbent and New Clean Energy Workers</i>	<i>9</i>
3.1.2	<i>Train Affected Stakeholders and Adjacent Industries on Building Decarbonization.....</i>	<i>9</i>
3.1.3	<i>Targeted Training and Business Development Support for Industries Affected by Clean Energy Transition.....</i>	<i>10</i>
3.2	REGULATORY AND NON-VOLUNTARY ACTIONS FOR BUILDING DECARBONIZATION WORKFORCE	10
3.2.1	<i>Wage Protections</i>	<i>10</i>
3.2.2	<i>Licensing and Continuing Education Requirements.....</i>	<i>10</i>
3.2.3	<i>Requirements for State-funded Educational Institutions</i>	<i>10</i>
3.3	DIVERSIFYING THE INDUSTRY WORKFORCE.....	10
3.3.1	<i>Support for MWBEs and Cooperatives</i>	<i>10</i>
3.3.2	<i>Community-to-Employment Pipelines and Career Pathways for Disadvantaged Communities.....</i>	<i>11</i>
4	CONSUMER EDUCATION AND TECHNICAL ASSISTANCE	11
4.1	CONSUMER EDUCATION	11
4.1.1	<i>Support and Scale Up Multilingual Consumer Education Efforts</i>	<i>11</i>
4.1.2	<i>Create Strategic Partnerships that Can Have Broad Impact</i>	<i>11</i>
4.2	EDUCATION AND TECHNICAL ASSISTANCE FOR DISADVANTAGED COMMUNITIES.....	12
4.2.1	<i>Focus Education and Technical Assistance on Disadvantaged Communities</i>	<i>12</i>
4.3	TECHNICAL ASSISTANCE FOR HOMEOWNERS, BUILDING DECISION-MAKERS AND OPERATORS	12
4.3.1	<i>Provide Technical Assistance and Resources for Building Decision-makers</i>	<i>12</i>
4.3.2	<i>Provide Targeted Assistance for Condos and Coops.....</i>	<i>12</i>
4.3.3	<i>Support education and best practices for efficient operations in large buildings</i>	<i>12</i>

Revised Policy Options Document (4 of 4)

5	TECHNOLOGY INNOVATION AND DEMONSTRATIONS	13
5.1	CONTINUE R&D AND DEMONSTRATIONS FOR ALL-ELECTRIC BUILDINGS.....	13
5.2	CONTINUE R&D AND STANDARDS DEVELOPMENT FOR GRID-INTERACTIVE EFFICIENT BUILDINGS (GEBs).....	13
5.3	NEW R&D AND DEMONSTRATIONS FOR LOW-EMBODIED-CARBON	13
5.4	NEW R&D AND DEMONSTRATIONS FOR RESILIENCY	14
6	RESILIENCE AND CLIMATE ADAPTATION	14
6.1	RELIABLE CONNECTIVITY AND INDEPENDENCE FROM THE GRID	14
6.2	IMPROVE BUILDING STOCK TO WITHSTAND THE IMPACTS OF CLIMATE CHANGE.....	14
7	NOTABLE AREAS FOR CROSS-PANEL COLLABORATION	14
7.1	ENERGY RATES AND UTILITY REGULATORY POLICY (POWER GENERATION PANEL)	15
7.1.1	<i>Rate Design</i>	15
7.1.2	<i>Process</i>	15
7.1.3	<i>Consumer Protections for LMI Households (Power Generation Panel, Climate Justice Working Group)</i>	15
7.2	GAS TRANSITION (POWER GENERATION PANEL, JUST TRANSITION WORKING GROUP).....	15
7.3	LOCAL GOVERNMENT COORDINATION (LULG PANEL)	16
8	FEDERAL AGENDA.....	16
8.1	FINANCIAL/FUNDING SOURCES	16
8.2	FEDERAL PROGRAM ADVOCACY.....	16
8.3	FEDERAL SUPPORT FOR R&D	16
	APPENDIX: PROGRAM DESIGN	17
A.1	PROGRAM DESIGN AND CO-DESIGN IN DISADVANTAGED COMMUNITIES	17
A.1.1	<i>Fund Community-based Approaches to Electrification and Energy Efficiency</i>	17
A.2	PROGRAM DESIGN FOR CONSUMER INCENTIVE PROGRAMS	17
A.2.1	<i>Design Programs and Incentives that are User-friendly and Advance Policy Aims</i>	17

Recommendations Workbook

		Estimate Timeline & Resources		Qualitatively Describe Impacts (Complete Only Relevant Fields)				Priority item? (pick 8)	Other
#	Name of recommendation	Description	Timeline to implement	Total Resource Cost (low/med/high)	GHG Impacts in 2030 and 2050 (only for mitigation strategies)	Owner and Occupants	Disadvantaged Communities	Workforce	
1	1.2 Regulation of onsite emissions (e.g. through codes) for new construction and substantial renovation	In new construction and substantial renovation, no onsite fossil fuel space heating or hot-water systems	2025 for 1-4 family homes, 2030 for multifamily and commercial	MEDIUM (includes costs to the grid)	MEDIUM	<ul style="list-style-type: none"> incremental cost increase to developers in some markets improved indoor air quality 	<ul style="list-style-type: none"> will place disproportionate financial impact on DACs without supporting financing or incentives. implementation will also lead to lower emissions in DACs 	<ul style="list-style-type: none"> workforce exists; training / upskilling needed. 	
2	1.3.1 Building Code to require electrification-readiness and on-site renewable energy in new construction	In new construction and substantial renovation, requirement for Solar PV and 240V outlets in mechanical closets	2025 for 1-4 family homes, 2030 for multifamily and commercial	LOW	LOW	<ul style="list-style-type: none"> incremental cost increase to developers energy cost payback to owners 	<ul style="list-style-type: none"> will place disproportionate financial impact on developers in DACs without supporting financing or incentives. implementation will also lead to lower emissions in DACs 	<ul style="list-style-type: none"> workforce exists; training / upskilling needed. 	
3	1.5.2 Emissions Standard for Heating and Hot Water Equipment/Appliances for new and replacement of existing	In new construction and for replacement of existing systems, ban the sale and installation of fossil fuel heating and hot water equipment	2025 ban replacement gas cooking/dryers, 2025 ban replacement gas/oil hot water in 1-4 family homes & commercial, 2030 ban replacement gas/oil space heating in 1-4 family homes, 2030 ban replacement gas/oil hot water in multifam, 2035 ban replacement gas/oil space heating in multifam & commercial	HIGH (includes costs to the grid)	HIGH	<ul style="list-style-type: none"> incremental cost increase to most building owners 	<ul style="list-style-type: none"> will place disproportionate financial impact on DACs without supporting financing or incentives. implementation will also lead to lower emissions in DACs 	<ul style="list-style-type: none"> significant incumbent (fossil fuel equipment-based) workforce affected; requires significant scale up in workforce that can deliver EE and electrification services. 	
4	1.4.2 Annual Energy Efficiency Performance Standard for Existing Commercial Buildings Larger than 25,000 sf	Existing commercial buildings meet efficiency requirements for energy consumption by dates certain	2030 Building Performance Standard, 2025 for Energy Audits, 2030 for lighting upgrades	MEDIUM	MEDIUM	<ul style="list-style-type: none"> incremental cost increase to most building owners over business as usual, net positive paybacks in long run for some efficiency measures 	<ul style="list-style-type: none"> will place disproportionate financial impact on businesses within DACs without supporting financing or incentives. implementation will also lead to lower emissions to businesses in DACs 	<ul style="list-style-type: none"> workforce (architects, engineers, contractors) exists that is delivering conventional services; training needed on building decarbonization solutions 	
5	1.6 Energy conservation requirements for existing properties at point-of-sale or -lease	Existing homes and buildings require weatherization and electrification readiness at point-of-sale	2023 energy disclosure for Residential, 2023 energy audit for Commercial, 2030 weatherization and electrification readiness for	MEDIUM	MEDIUM	<ul style="list-style-type: none"> incremental cost increase to most building owners over business as usual, net positive paybacks in long run for some 	<ul style="list-style-type: none"> will place disproportionate financial impact on DACs without supporting financing or incentives. residents living in homes with low or no remaining equity would be stuck in 	<ul style="list-style-type: none"> need significant scale up in workforce that can deliver EE and electrification solutions 	

Quick_Start

RecommendationProposals

NoRegrets



Recommendations Workbook

#	RECOMMENDATION
1	1.1 – Provide State funding for administrative costs of code updates incurred by local governments and state agencies, including enforcement, purchase of codes books, & guidance documents
2	1.1.2 – Implement a third-party energy code inspection program (similar to current electrical inspections)
3	1.5.1 – Energy Efficiency Standard for Appliances not Federally-preempted, starting in 2023
4	2.1.5 – Provide for consumer protections in financing products and direct cash incentives
5	2.1.7 – Expand the use and flexibility of performance contracting to achieve public mandates
6	2.2.1a – Establish a carbon fee for fossil fuels combusted in buildings (aligned with fees applied to electricity generation), and use fee revenues to subsidize electrification for LMI customers [CROSS-SECTOR topic]
7	2.2.2c – Stop offering incentives that reinforce conversions to gas (e.g., eliminate gas appliance rebates by 2023). stop any advertising of gas as "clean"
8	2.2.3f – Streamline and integrate access to all utility, NYSEDA, and HFA funds, with one point of contact to the consumer
9	2.2.5 – Coordinate and leverage NY health insurance and community-based organizations to promote healthy housing and energy efficiency

Quick_Start

RecommendationProposals

NoRegrets



Discussion

Questions for you:

- > *What feedback would you give staff on the revised Policy Options document (in Word)?*
- > *What feedback would you give the staff on the consolidated Recommendations Workbook (in Excel)?*
 - *Are you comfortable using a “Recommendation Proposals” tab to prioritize recommendations and also a “No Regrets” tab to capture some items?*
 - *Have we identified the right criteria for considering (qualitative) impacts?*
- > *Any other suggestions about the preparatory work or Recommendations Workbook?*

***Deadline for returning initial priority votes (“virtual sticky dots”) with any notes:
Tuesday, January 19***

Next Steps and Reminders

- > Today: staff will (re-)circulate updated Policy Options document and Recommendations Workbook, with the Panel assignment before January 22nd Workshop
 - Pre-workshop assignment due via provided workbook by **COB Tuesday, January 19th**

- > RSVP to Maureen Leddy, maureen.leddy@dec.ny.gov, if interested in joining the Agriculture and Forestry Bioenergy subgroup discussion. Please cc: todd.crawford@health.ny.gov, vanessa.ulmer@nyserda.ny.gov, Simon.McDonnell@nyshcr.org