PRIVATE SECTOR ENGAGEMENT IN MUNICIPAL CLIMATE POLICIES
Featured Speakers:

Alisha Pegan  
Climate Ready Boston Coordinator in Boston's Office of Environment, Energy and Open Space

Jerry Tinianow  
Chief Sustainability Officer of the City of Denver
Alisha Pegan
Climate Ready Boston Coordinator in
Boston's Office of Environment, Energy and Open Space
Climate Ready Boston is an initiative to develop resilient solutions to prepare Boston for climate change.
YOUR CITY- RESILIENT HARBOR VISION
YOUR NEIGHBORHOOD

DISTRICT-SCALE FLOOD PROTECTION

- Current Project Sites
- Future Project Sites
Article 37 Green Building and Climate Resiliency Guidelines
Buildings over 50,000 sqft are required to be LEED certifiable and complete the Resilience Checklist
Greenovate Leaders:
Get **trained** to **engage** and **inform** your own communities on climate action
WHAT YOU CAN DO

Get involved in Climate Ready Boston planning

Prepare your home and family for emergencies

Host an emergency preparedness workshop

Help green Boston
Jerry Tinianow
Chief Sustainability Officer of the City of Denver
HOW DENVER ENGAGES THE COMMUNITY IN MEETING GHG REDUCTION GOALS

April 4, 2019
CABA Webinar
DENVER
OFFICE OF SUSTAINABILITY

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ENERGY AND CLIMATE GOAL RULE #1:

DO NOT EQUATE RENEWABLE ENERGY WITH RENEWABLE ELECTRICITY!
KEY DENVER GHG REDUCTION GOALS:

- By 2020: Reduce total community and government operations emissions back to 1990 level
- By 2025: All electricity used by city government to be 100% renewable
- By 2026: Match or exceed Obama Administration 2026 reduction goal set under the Paris Climate Agreement (24% reduction)
- By 2030: 100% of electricity used by the community is renewable
- By 2050: Reduce total community emissions by 80% below the 2005 total (80 x 50)
Our #1 Community Engagement Partner:

Xcel Energy℠
2018 SUSTAINABLE DENVER SUMMIT

A CITY FOR ALL

TODAY AND TOMORROW
Professor Cleveland was unable to join due to a family emergency. Please review his slides. You are welcome to email him at cutler@bu.edu with any questions.
Carbon Neutrality Requires Decisive Action

![Graph showing GHG emissions (Mt CO₂e) from 2005 to 2050 with three paths: Historical, Current Path, and Path to Zero.](image)
Four Mutually Reinforcing Strategies Must Be Pursued Together

- Reduce demand for energy and maximize energy efficiency
- Electrify all activity to maximum extent feasible
- Use GHG-free fuels and electricity
- Improve social outcomes via intentional action
Boston’s Path to Carbon-Neutrality

Total Baseline (Clean Energy Standard)

- Transportation Fuels
- Transportation Electricity
- Buildings Electricity
- Buildings Gas
- Buildings Oil
- Waste

GHG Emissions (Mt CO₂e)

- Full Strategy Implementation with 80% Clean Grid
- 100% Clean Supply

2015 - 2050
## Summary of Building Options

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Policy Mechanisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Electrification</td>
<td>Incentives and/or mandates</td>
</tr>
<tr>
<td>Energy Conservation Measures</td>
<td>Incentives</td>
</tr>
<tr>
<td>Performance Requirements</td>
<td>BERDO Expansion</td>
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<tr>
<td>Deep Energy Retrofits</td>
<td>Requirement with sale or major renovation</td>
</tr>
<tr>
<td>Low Energy New Construction</td>
<td>Code / Planning Requirements</td>
</tr>
</tbody>
</table>
Cutting Buildings Emissions Improves Health, Affordability, and Equity

Benefits

75% reduction in harmful air pollution in 2050
  • minority HHs benefit the most
$600 million in energy cost savings in 2050
  • reduced energy burden for poor and minority HHs
Health benefits from improved indoor air quality
Economic stimulus (disposable income, jobs, asset value)
Enhanced climate resiliency
## Summary of Transportation Options

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Policy Mechanisms</th>
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</thead>
<tbody>
<tr>
<td><strong>MODE SHIFT</strong></td>
<td></td>
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<tr>
<td>Improved Transit</td>
<td>• 100% electric</td>
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<tr>
<td></td>
<td>• Expanded BRT &amp; rail</td>
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<tr>
<td>Free/reduced cost</td>
<td>• Free for walk-access transit</td>
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<tr>
<td>transit</td>
<td>• 50% reduction for drive-access</td>
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<tr>
<td>Walking &amp; Biking</td>
<td>• Citywide bike lane &amp; walking improvements</td>
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<tr>
<td>Trip Pricing</td>
<td>• Cordon/Congestion Fee</td>
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<td></td>
<td>• Parking Fee</td>
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<td></td>
<td>• VMT Fee</td>
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<tr>
<td>Shared mobility</td>
<td>• Fee for ride alone</td>
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<tr>
<td></td>
<td>• Subsidy for pooled ride</td>
</tr>
<tr>
<td><strong>AUTONOMY</strong></td>
<td></td>
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<tr>
<td>Connected</td>
<td>• Requires regulatory framework</td>
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<tr>
<td>Autonomous Vehicles</td>
<td></td>
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<tr>
<td><strong>ELECTRIFICATION</strong></td>
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<tr>
<td>Electric Vehicles</td>
<td>• Drive market transformation</td>
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<tr>
<td></td>
<td>• Create infrastructure</td>
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<tr>
<td></td>
<td>• Prohibit fossil fuel vehicles</td>
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</tbody>
</table>
Benefits of Carbon-Neutral Transportation

Benefits in 2050

Access and cost inequities can be eliminated through intentional design

$ 259 million reduction in motor vehicle crash costs

29% to 55% reduction in harmful air pollutants; minorities disproportionately benefit

$ 8 million health care savings from air quality improvements; minorities disproportionately benefit

$ 52 million in health care savings from increased physical activity

$ 414 in vehicle operation cost savings
Summary of Energy Options and Benefits

Options
In-city generation (rooftop solar; district cogeneration with clean fuels)
Procure clean electricity (RECs, PPA (including CCA), and VPPA)

Benefits
Workforce development
Increased resiliency
Cleans up fossil-fuel intensive grid
Summary of Waste Options and Benefits

Options
Zero Waste Boston: Increase MSW diversion from 25% to 80-90%

Benefits
Reduced air and water pollution and related health benefits (regional)
Workforce development
Avoided emissions and resource depletion
Moderated Q & A

For more information email Kristin Kelleher, CABA Programs Director at Kristin.Kelleher@cabaus.org
Visit us at cabaus.org