Charge

The Energize Denver Task Force will help the City design a building performance policy for existing buildings that:

- Improves Health and Equity
- Creates Jobs
- Drives Climate Solutions in Buildings that Achieve Net Zero Energy by 2040
<table>
<thead>
<tr>
<th>Energize Denver Task Force</th>
<th>Introductions</th>
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<tr>
<td>Building Owners/Managers</td>
<td>Amie Mayhew</td>
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<td>Frank Arellano</td>
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<td>Jon Buerge</td>
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<td>Kathie Barstnar</td>
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<td>Lori Pace</td>
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<td>Peter Muccio</td>
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<td>Stephen Shephard</td>
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<td>Utility/Oil and Gas</td>
<td>Kirk Scheitler</td>
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<td>Sam Knaizer</td>
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<td>Scott Prestidge</td>
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<td>Residents/Tenants/Non-Profit Representatives</td>
<td>Aaron Martinez</td>
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<td>Angela Fletcher</td>
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<td>Jennifer Gremmert</td>
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<td>Jonathan Cappelli</td>
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<td>Labor/Workforce Training</td>
<td>Eddie Bustamante</td>
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<td>Jennie Gonzalez</td>
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<td>Sergio Cordova</td>
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<td>Environment/Clean Energy</td>
<td>Ariana Gonzalez</td>
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<td>Celeste Cizik</td>
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<td>Christine Brinker</td>
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<td>Jenny Wilford</td>
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<td>Mike Kruger</td>
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<td>Monique Dyers</td>
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<td>Steve Morgan</td>
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<td>City Council</td>
<td>Jolon Clark</td>
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Today's Agenda

1:55 Task Force Purpose, Goals and Scope
• Presentation
• Initial questions/comments
• What principles and questions will help guide our process? (small groups)
• Group Discussion

3:20 How will the Task Force do its work?
• Presentation – proposed roles, decision-making, resources, schedule
• Questions/Discussion

3:45 Next steps and February’s Task Force meeting
Meeting Agreements

❖ Attend all meetings and participate in discussions.
❖ Come prepared, having read materials prior to meetings and responded as needed (e.g., surveys to provide input on materials).
❖ Engage in respectful, constructive dialogue with others.
❖ Seek creative solutions that respond to your and others' interests.
❖ Solicit and share input from constituents, keeping them informed of key issues and bringing their input to Task Force discussions.
❖ Please close email and minimize other distractions during meetings (we promise to take breaks!).
❖ Please mute yourself on Zoom when not speaking.
Presentation of Purpose and Goals
Commercial and Multifamily Buildings Account for 48% of Denver’s GHG Emissions
Progress Towards Goals: All Buildings

- Current Trajectory:
  - +5% in 2020
  - +17% in 2026

- Baseline:
  - Stable from 2016 to 2030

- Goal Trajectory:
  - -10% in 2020
  - -30% in 2030

Graph showing total energy use (in billion kBtus) from 2016 to 2030.
Climate Action Task Force: Existing Buildings and Homes Recommendations

Overview

• Implement building performance policy that includes the strategic electrification of all existing buildings & homes so they achieve net zero energy by 2040.

• Equitably enhance affordable housing incentives and low-income programs.
Net Zero Energy

- Highly Energy Efficient
- All-Electric
- Renewable Energy
- Demand Flexible
Charge

The Energize Denver Task Force will help the City design a building performance policy for existing buildings that:

- **Improves Health and Equity:** Improve indoor air quality, comfort and health outcomes. Lower energy costs for businesses and improving energy equity. Ensure under resourced communities can thrive under the policy.

- **Creates Jobs:** Create clean energy jobs and driving economic recovery from COVID.

- **Drives Climate Solutions in Buildings:** Buildings are responsible for over half of the greenhouse gas emissions in Denver today. The task force will design a policy that will require existing buildings to achieve Net Zero Energy by 2040. The task force will help the City design a regulatory path that enables all buildings achieve this goal. Net Zero Energy means highly efficient, all electric, grid flexible, and powered by 100% renewable electricity.
Expected Outcomes: An example

The Green Roof Review Task Force’s 18 pages of recommendations

Green Building Ordinance and Green Building Rules and Regulations
Guiding Principles

• Focus on people and real human lives. Improve overall well-being.
• Account for disparate climate impacts and historic racial inequities in Denver. Accelerate positive impacts to low-income and BIPOC communities from a clean energy transition.
• Provide for multiple pathways, rather than one-size-fits-all.
• Ensure policies are achievable, workable on the ground, effective, and sustainable.
• Seek cost-effective strategies.
• Seek ‘eager compliance’ among building owners and managers by ensuring solutions are achievable, well supported, and rolled out gradually and strategically. Consider flexible compliance options that are both performance-based and prescriptive.
• Recommend incentives with financing to ensure all Denver buildings, and especially low-income communities, benefit from and can comply with the policy.
Guiding Principles (cont.)

• Allow for flexibility with changing circumstances, such as technologies becoming cost effective.
• Minimize unnecessary requirements.
• Seek mutually supportive co-benefits (e.g., lowered heating/cooling costs, improved air quality).
• Benefit local families and Denver’s economy by providing for robust job training/workforce transition and good, livable, new jobs that help alleviate the economic devastation of COVID-19.
• Seek to attract new businesses by making Denver one of the greenest cities in the country.
• Recognize Denver is unique but don’t reinvent wheels; learn from what is working elsewhere.
• Recognize we don’t have a choice about getting to Net Zero Energy – this is the biggest and most important challenge of our time!
Key Questions

What Questions Must We Answer in Order to Develop Policy Recommendations that Satisfy Our Guiding Principles and Overall Charge?
Equity

What criteria must be met by all Task Force decisions in order to ensure equitable outcomes?
Workforce

What training and workforce supports are needed?

How can we ensure people are ready for the clean energy jobs created by this policy, that good jobs are created, and that under-resourced communities have a path into those jobs?
Incentives and Technical Support

What incentives and technical support are needed?
• How should incentives be allocated to prioritize and meet the needs of under resourced communities?
• Should incentives support non-climate-related health improvements like mold, radon, and lead paint remediation in under resourced buildings?
• What should a 'building performance hub' look like that makes compliance easier for building owners and managers?
All Electric

Consider timing and approach by building type and size.

When must all end-of-life boiler and furnace replacements be electric?

How to achieve the electrification of all HVAC systems by 2040?

What efficiency and renewables are needed to ensure the new winter peaking load can all be met with renewable electricity?
Highly Efficient

Consider timing and approach by building type and size.

Do we want prescriptive and performance energy efficiency targets?

Determine how the City should set performance – e.g., energy use intensity (EUI)) targets for all 17,000 existing buildings.

Determine prescriptive options or pathways.
100% Renewable

When and how to require solar panels and grid flexibility from existing buildings?

What alternate compliance pathways make sense, such as payment into a Renewable Denver Solar Development Fund?
How It All Comes Together

Whether and how trading should be allowed between the above requirements?

What alternative compliance pathways or exemptions should be considered?
Small Group Discussion

Refine list of 'Guiding Principles'

Discuss + brainstorm additional 'Key Questions' to address in developing Task Force recommendations (this is a living list!)
How will the Task Force do its work?
Consensus Decision Making

❖ Consensus: decision all members can accept or live with
❖ Interest-based approach: work to satisfy the relevant interests and concerns
❖ If needed, can fall back to 'Consensus Minus One' or even majority vote (must be at subsequent meeting, with concerns or minority views noted in writing)
❖ The higher the degree of consensus, the stronger the recommendation
Agenda Design Group

❖ Support productive use of Committee members’ time
❖ Process advice only; no substantive decision-making authority
❖ Work with City Staff and the CBI facilitator between meetings to design agendas and frame meeting topics
❖ Volunteers should have skill and orientation in collaborative problem solving and inclusive process
Work Groups

- Equity
- Workforce
- Climate Solutions
- others?
Technical Resources to Support the Task Force

What resources do we have or are we developing to support you in your work?
Relevant Existing Denver Resources

- Climate Action Task Force Report
- Green Roof Review Task Force Recommendations and Green Building Ordinance and Rules and Regs – as an example of how task force recommendations can shape a policy.
- NZE New Buildings Implementation Plan, including detailed NZE Denver definitions – available soon.
- Denver Renewable Electricity Implementation Plan
- High Performance Buildings and Homes Committee – CASR’s standing technical advisory group advising us on all buildings work – can be a technical resource for the Task Force.
Resources on Other Cities

- **ACEEE report on other cities**, research on other cities and participation in working group with other ACCC cities.
- American Cities Climate Challenge (ACCC) Equity Advisory Committee participation – *for developing equity principles.*
Items Under Development for this Task Force

- Social Equity Index tool – based on the [Greenlink Equity Map](#), with additional indicators added for Denver.
- Dr. Nita Mosby-Tyler – equity trainer and resource for the task force
- Inclusive Economics Jobs analysis – to be shaped by the Workforce Work Group.
- Strategic Existing Building Electrification Implementation Plan – in progress.
  - Building Heating Typologies
  - Cost of conversion
  - Grid analysis
- Existing Building Max Tech analysis – to help set performance targets by building type.
- Survey of benchmarked building owners – to inform policy design and building performance hub design
- Building Performance Hub research - Research into other cities approaches, and ACCC study on best approaches.
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<tr>
<th>Time</th>
<th>Mtg#</th>
<th>Purpose:</th>
<th>Outcome:</th>
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<tbody>
<tr>
<td>January 7th, 2021</td>
<td>1</td>
<td>• Review purpose and scope of TF</td>
<td>• Members have a common base of knowledge and a shared understanding of the task</td>
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<td>• Establish ground rules</td>
<td>• Agreement to work cooperatively toward a common goal</td>
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<td>• Introduce members</td>
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<td>• Scope overview</td>
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<td>• How will the task force do its work?</td>
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<tr>
<td>February 18, 2021</td>
<td>2</td>
<td>• Equity Workshop</td>
<td>• Shared draft set of equity criteria that the equity work group can refine and bring to the group to finalize.</td>
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<td>• Decide what criteria must every decision meet to be equitable.</td>
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<td>March</td>
<td>3</td>
<td>• Review other cities approaches and Denver resource that help answer questions before the task force.</td>
<td>• Process agreed upon for answering all questions before the task force.</td>
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<td>• Shape the process and additional research needed to develop outcomes.</td>
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<td>April</td>
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<td>• All-electric policy options discussed.</td>
<td>• Begin to develop electrification recommendations.</td>
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<td>• Determine workforce, incentives and technical</td>
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| May          | 5    | • Finalize equitable draft electrification policy and supports recommendations.  
|              |      | • Determine implications for Highly Efficient and 100% Renewable goals.    | • Draft electrification recommendations.                                                      |
|              |      |                                                                          | • Plan for work ahead on efficiency and 100% renewables.                                      |
| June         | 6    | • Highly Efficient – determine how the City should set equitable energy efficiency performance and prescriptive pathways.  
|              |      | • Determine workforce, incentives and technical supports needed.          | • Draft efficiency recommendations.                                                           |
| July         | 7    | • 100% renewable - determine how the City should set equitable solar requirements.  
|              |      | • Determine workforce, incentives and technical supports needed.          | • Draft renewables recommendations.                                                           |
| August (or Sept.) | 8 | • How it all comes together  
|              |      | • Decide if and how trading should be allowed between the above requirements, and what | • Final recommendations                                                                      |
Next Steps and Closing

✓ Workforce Work Group will meet
✓ Equity Work Group will meet
✓ Next meeting: February 18th 1-4pm, Equity Focused