

# Climate Solutions Workgroup

March 2nd, 2021 11:00 - 12:00pm MT

## Agenda

- Introductions and good news
- Introduce how we're planning to set the carbon goal for the task force
- Review policy options to get to goal (EE, RE, Elec)
- Discuss what they would need to know about the policies to make decisions about them (inputs and outputs)
- Introduce the concept of the policy design tool and its goal to help the group make policy decisions
- How can we address racial equity in this framework?
- Begin to draft a work plan (a sample draft work plan from the workforce workgroup is attached)

## Participants

### Energize Denver Task Force Members

Steve Morgan, Boulder Energy Engineers

Jennie Gonzales, IBEW 68

Amie Mayhew, Colorado Hotel and Lodging Association

Christine Brinker, SWEEP

Ariana Gonzalez, NRDC

Celeste Cizik, Group 14

Laura Dyas, Group 14

Scott Prestidge, COGA

Sergio Cordova, Local Pipefitters 208

Jonathan Cappelli, Neighborhood Development Collaborative

### Supporting Staff and Subject Matter Experts

Katrina Managan, City and County of Denver

Jan Keleher, City and County of Denver

Amber Wood, City and County of Denver

Ryan Golten, Consensus Building Institute

Kim Cheslak, NBI

Zack Hart, IMT

## Meeting Notes

### Review policy options to get to goal (EE, RE, Elec)

- What types and sizes of buildings will EE, RE, and Elec fit in to, how difficult will it be?

- Ease of implementation for installers
  - Ease of implementation for building operators
  - Costs
  - How well equipped is the workforce to install these measures
    - Is there training available for the workforce?
  - Listing of products available for the need of electric heating
    - Provide competitive options for contractors
  - How well implementations mesh with measures at the State level
  - Do we have the technology available to make this happen?
    - Power energy to support it
  - What is feasibly possible from an infrastructure or consumer standpoint?
    - Consumer Standpoint
      - What is the logistical process for low income residents? People who do not want to comply? Restaurants?
        - How are these challenges met with solutions and not mandates
        - CO2 equivalents could allow for more flexibility for these groups
        - What do you do when it is not economical to install mandated EE, RE, or Electric on a property
          - Alternative compliance pathway?
            - Offsets? Credits?
      - What is commonly and widely used now? What is not commonly available right now? What is in the process that needs more R&D?
- Data on different appliances/Feedback from early adopters
  - Learning from others
    - What technology has shown to work best in certain conditions?
- How do we retrofit older buildings while still maintaining their integrity
  - Older buildings will have higher costs for retrofits
    - Does that all fall on the building owner?

Discuss what they would need to know about the policies to make decisions about them (inputs and outputs)

Introduce the concept of the policy design tool and its goal to help the group make policy decisions

- What do you feel could be added in?
  - Drop down box of what % of a buildings heating load electrification will equate to what costs?
    - What is the output of a measure
      - If 80% of electrification was able to be implemented how much would the final 20% cost?
        - What would be the residual output from the remaining 20%

- Flexibility for the last 20%, can be the hardest/most expensive to fix
    - Measure in total energy consumption like BtU's
    - What are the costs of switching to all electric?
    - What are the costs of maintaining all electric?
  - Would it be beneficial to keep some gas infrastructure for emergency back up loads?
    - Very cold days
    - Hospitals
  - Additional options for custom or unique buildings
  - Diesel generators are what is primarily used right now
    - Diesel generators can be rebuilt to run off different fuels
- Will the city do a specific analysis to determine what will work for buildings and what won't
  - Helps to create categories to find what buildings might need more focus
  - Other cities like San Francisco have hubs where building owners can create plans for their carbon reduction pathway