

# ***Sustainability Advisory Board***

## ***Agenda***

**June 21, 2023**

**Louisville Public Library, Second Floor Board Room**

**951 Spruce Street**

**6:30 PM**

*Members of the public are welcome to attend and give comments remotely; however, the in-person meeting may continue even if technology issues prevent remote participation.*

- You can call in to +1 408 638 0968 or 833 548 0282 (Toll Free)  
Meeting ID #829 8194 5389  
Meeting Password # 741017
- You can log in via your computer. Please visit the City's website here to link to the meeting: [www.louisvilleco.gov/sustainabilityboard](http://www.louisvilleco.gov/sustainabilityboard).

*The Board will accommodate public comments during the meeting. Anyone may also email comments to the Board prior to the meeting at [KBetzold@LouisvilleCO.gov](mailto:KBetzold@LouisvilleCO.gov).*

- I. Call to Order
  - Dan is June secretary.
- II. Roll Call
- III. Approval of Agenda
- IV. Approval of Minutes
- V. Public Comments on Items Not on the Agenda – 10 minutes
  - 3 minutes per comment
- VI. Staff Updates – 10 minutes
- VII. Discussion Item: Internal Decarbonization Plan – 45 minutes

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Persons planning to attend the meeting who need sign language interpretation, translation services, assisted listening systems, Braille, taped material, or special transportation, should contact the City Clerk's Office at 303 335-4536 or [MeredythM@LouisvilleCO.gov](mailto:MeredythM@LouisvilleCO.gov). A forty-eight-hour notice is requested.

Si requiere una copia en español de esta publicación o necesita un intérprete durante la reunión, por favor llame a la Ciudad al 303.335.4536 o 303.335.4574.

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### **City of Louisville**

**City Manager's Office** 749 Main Street Louisville CO 80027  
303.335.4534 (phone) [www.LouisvilleCO.gov](http://www.LouisvilleCO.gov)

- Consultant Presentation – McKinstry Engineering
- Public Comment (3 minutes per comment)
- LSAB Discussion and Direction
  - i. What recommendation does LSAB want to include in a memo?
  - ii. Appoint LSAB member to draft memo for July meeting approval

VIII. Discussion Item: Dark Sky Lighting Draft Memo – 10 minutes

- Draft Memo Overview – Josh Cooperman
- Public Comment (3 minutes per comment)
- LSAB Discussion and Approval

IX. Discussion Item: 2023 LSAB Work Plan – 10 minutes

- Staff Update
- Public Comment (3 minutes per comment)
- LSAB Discussion

X. Sub-Committee and Board Member Updates

XI. Administrative Tasks

- Megan to write July Spotlight
- Determine writers for remaining 2023 Spotlights
- Lev is July secretary

XII. Discussion Items for Next Meeting

- Internal Decarbonization Plan draft memo
- Electrification incentives
- EE/electrification outreach and education
- Neighborhood engagement strategies

XIII. Adjourn

# ***Sustainability Advisory Board***

## ***Meeting Minutes***

**May 17, 2023**  
**Louisville Public Library, Second Floor Board Room**  
**951 Spruce Street**  
**6:30 PM**

**Call to Order** – Chairperson Todd Budin called the meeting to order at 6:33 pm.

**Roll Call** was taken and the following members were present:

Board Members Present: Tiffany Boyd, Todd Budin, Josh Cooperman,  
John Cowley, Megan Ottesen and Lev Szentkiralyi

Board Members Absent: Dan Mellish

Staff Members Present: Kayla Betzold, Amelia Brackett-Hogstad

### **Approval of Agenda –**

Lev moved to approve the agenda; Josh seconded the motion. The agenda was approved by all members.

### **Approval of Meeting Minutes –**

Tiffany moved to approve last meeting's minutes; Josh seconded the motion. The minutes from the April 19, 2023 meeting were approved as written.

### **Public Comments –**

None.

### **Staff Update –**

LSAB members asked questions about the staff updates and Kayla added some items. Kayla explained that Louisville has used the \$10,000 in rebates provided to the Regional Air Quality Council. She also mentioned the Louisville film in the Sustainability Film Series is showing on 5/17.

The Summer Carnival is on June 14 from 10a-12p. Kayla asked if the board would like a booth at the event. Typically there are 700 people over 2 hours. The board discussed the information they might provide including a flier with key information and updates. Kayla said she could potentially attend to provide an informational flier that contains City sustainability programs and QR codes for upcoming events or a children's activity. Josh and Tiffany will check to see if they can attend.

The Electrify Your Ride event is on Tuesday, June 27 from 5-7p at Steinbaugh Pavilion. Drive Clean Colorado is organizing an EV Ride and Drive and E-bike Ride and Drive. The Sustainability Division will be providing the tabling materials and Xcel Energy will be providing information about their programs.

The IRA Urban Forestry grant application is due May 31. Louisville is in the process of applying for this grant and is working to develop a community of individuals who are dedicated to caring for the trees planted over the years. The goal is 25 tree tenders in each community. There is a meeting with the team next week to discuss the grant proposal in more detail. Louisville will likely use its funds for a Marshall Fire-affected resident tree giveaway. The project also includes funding for a Marshall Fire tree canopy and urban heat study.

Kayla confirmed that Louisville is part of the Northwest Regional Building Code Cohort. She also confirmed Louisville is part of a regional transportation electrification group that has multiple subgroups. One group focuses on residential charging (which includes multifamily buildings) and another group works with Xcel Energy to provide capacity pre-checks to sites that have been identified as good candidates for public EV charging. The parking lot near Sweet Cow is publicly owned and the City is considering installing public charging at this site.

Kayla explained that cities can apply to the Colorado Water Conservation Board (CWCB) for lawn replacement grants. Louisville applied for \$23,000 to expand its residential lawn replacement program and Louisville may also expand the program to include a commercial lawn replacement program this year. Louisville current has a lawn replacement program with a budget of \$14,000 - \$15,000 and this grant will expand the budget.

In regards to the Xcel distribution system infrastructure capacity constraint situation, there are no large updates. Capacity constraints continue to hinder the expansion of rooftop solar in Louisville, especially for new construction that uses solar installations to comply with the new building codes. Xcel is putting together an FAQ about this issue. The Colorado Public Utilities Commission (PUC) may take up the issue this summer. Louisville has not decided whether to participate in the PUC proceeding, but Louisville will likely sign a letter that will be sent to the PUC explaining how Xcel's capacity constraint issue is hindering the implementation of new building codes.

House Bill 291: Requires the PUC to conduct a study on investor-owned utility tariffs and interconnection policies. "On or before January 1, 2024, the Commission shall conduct a study to be completed no later than March 15, 2024 examining existing investor-owned electric utility tariffs and interconnection policies and practices to determine [...] whether requiring a customer that seeks to interconnect distributed energy resources or beneficial electrification resources to the investor-owned electric utility's electric grid to bear the full incremental cost of transformer or service upgrades needed at the time of interconnection imposes an undue burden on the customer."

[https://leg.colorado.gov/sites/default/files/2023a\\_291\\_signed.pdf](https://leg.colorado.gov/sites/default/files/2023a_291_signed.pdf)

The new Sustainability Specialist starts on June 20. Hannah Miller currently works at ICLEI and has expertise in GHG accounting. Kayla has worked with Hannah in the past.

Anschutz School of Public Health students assessed what building benchmarking programs exist in Colorado and assessed what a benchmarking program could look like in the City of Louisville. The state's program includes buildings 50,000

square feet or larger and a potential Louisville program could require smaller commercial buildings to participate. The building size for a Louisville program is undecided. Golden is developing a benchmarking program for buildings sized at least 5,000 square feet and other local governments are considering a 25,000 square foot threshold. Louisville would likely partner with other local governments to implement.

### **Discussion Item – Dark Sky Lighting Ordinance Overview**

A presentation was shown by Amelia Brackett-Hogstad. More information about the ordinance can be found in the May packet slides. The draft ordinance will be presented to Planning Commission in July and City Council in August. Based on community engagement to date, the City has found that there is general community support for a dark sky ordinance and the main motivations appear to be safety and the need for dark skies. The Chamber of Commerce did a poll of its members - 72% were in support, 13% oppose, and 15% need more info. After community engagement, staff made updates to the draft ordinance that attempted to address concerns that were voiced during the public engagement process. Proposed changes to the ordinance include:

Compliance Options - Council can choose option 1, options 1 and 2, or options 1 and 3. Choosing options 2 and 3 would create more work for city planners to implement. The options are for the ordinance to apply to the following:

- New and replacement lighting only
- Additions and alterations – if whole site wide compliance must occur, that would include the parking lot
- Tiered amortization - would be unique to Louisville. All sites must comply within 10 years and meet established milestones along the way so that people can gradually begin to comply and incorporate the updates into their annual budgets. Amelia said that ideally the third option would lead to hiring someone to focus on education and the creation of financial incentives.

Uplighting is not allowed in any of the options.

Downtown commercial buildings are not subject to trespass limitations, but curfew limitations still apply to them

- “Trespass” is impact of light on another property - just because you can see the light from your property doesn’t make it a trespass, but if the light illuminates someone else’s property, then that counts as trespass
- Louisville already has trespass regulations for commercial and residential lights onto open space
- Curfew on unshielded low-lumen lights

*Public Comment*

Michiko Christiansen: Resident asked how motion-censored lights are impacted and how the city’s Christmas lights are impacted by this ordinance.

*LSAB Discussion*

Amelia began by answering the public comment questions. Motion censored lights can only be on for 5 minutes and there is a lumen cap. Light would still need to be in compliance with other parts of the ordinance (e.g. be down-lit). She explained that holiday lights are exempted with limitations (e.g. blink lights are not allowed on commercial properties), but there is no curfew. The City is proposing a year-round exemption for holiday lighting.

John began the discussion by noting that incentives would be very valuable, especially if people know they are time-limited. He asked if parking lot owners could just change the fixture at the top or put a cover over it instead of retrofitting the entire parking lot. Amelia responded that it’s easy to add a backshield or change the fixture for some types of lights but not for all. He asked about the rules for baseball fields and she replied that baseball fields abide by different rules than what the ordinance would cover.

Josh suggested the ordinance recommend that people choose lights at a low lumen level – just because they can choose lights up to a certain lumen doesn’t mean everyone should choose the brightest light possible. He asked why the City doesn’t want to recommend compliance options 2 and 3. Amelia responded that the City would rather focus on tiered amortization (option 3) than split their time

between two options, but does think it's reasonable to execute options 2 and 3 simultaneously.

Tiffany asked if the City's EDI Manager will be involved with making sure there are incentives for families and communities to make these transitions. Amelia responded that this is on the City's radar.

Lev voiced his support for options 2 and 3 simultaneously and thinks redundancy is good. He asked how the upper limits of the lumens were established and noted that the lumens for commercial are much higher than residential. Amelia responded that a 20,000 limit was initially considered since the initial ordinance draft was meant to incorporate parking lots. However, the city planners will likely create separate lumen limits for parking lot lighting and non-parking commercial lighting. The residential lighting limit was based on limits from other programs and the lumen levels of lights available online.

Todd asked about the budget impacts of this ordinance. He posed a question to the board asking if the board believes this is the best use of City funds. Amelia mentioned that it would be valuable for LSAB to state in the memo if the board thinks this is a good use of City funds. He asked about an upstream approach to put pressure on manufacturers and retailers to no longer sell noncompliant lighting or to encourage the promotion of compliant lighting. Amelia responded that a large number of people buy bulbs online, which makes it difficult to accomplish dark sky goals solely through a retailer approach.

LSAB will decide in June what its memo about Dark Lighting should say. To prepare for the meeting, LSAB members should review the Engage Louisville website that contains information on how the ordinance has changed. LSAB's memo can generally support the Dark Sky ordinance without recommending a specific path, or we can choose to recommend a specific path. We can decide whether to keep the current draft memo or update it during the June meeting.

### **Discussion Item – Solar United Neighbors**

Kayla provided an overview of the communication tools currently used by the Sustainability division. For more information about the sustainability communication plan, view the May LSAB packet.



*Public Comment*

Michiko Christiansen: She suggested that the city create videos for the deaf community. She would rather see a short video with an interpreter than to read something long.

*LSAB Discussion*

LSAB's ideas for creating a partners contact list included reaching out to the neighborhood captains and creating a neighborhood contact directory. After the Marshall Fire, the City created neighborhood captains to share information from the City with neighborhoods. Todd is interested in a similar structure to create two-way communication about sustainability topics. Todd asked the board how we plug into HOA newsletters, neighborhood newsletters, etc. for more two way communication. Ideas included: potential communities such as golf, deaf, HOA, etc. There was also an idea to recruit captains from the sustainability newsletter email list that Kayla maintains and rally them around 4 projects per year. Kayla asked if the board wants to create a partners contact database. The board like the idea but feels the task is too large for LSAB to manage. While LSAB can share sustainability updated with their networks, this won't lead to citywide awareness. The board and Kayla like the idea of looking at whether a third party could help with this (e.g. Sustainable Neighborhood Network). Kayla mentioned that the new Sustainability Specialist has researched neighborhood engagement programs and will ask her to present findings at a future LSAB meeting. The board decided to table the conversation and come back to it at a future meeting.

**Discussion Item – Board Purpose and Role**

The City Clerk emailed several questions to members of all City boards. Kayla will resend the questions to the board along with the LSAB bylaws and work plan and board members can directly respond to the City Manager. The questions include:

- What do you consider to be the purpose and role of your body? Do you have suggestions on changing that role in the future?
- What have been your greatest successes?
- What about your greatest failures?

- How is your process to develop your annual work plan? How does it align with Council's work plan?
- If Council will be considering changes, what changes would you recommend?
- Do you feel that your body has been effective or ineffective? Why?
- City Council has an informal policy of managing meeting time and canceling or reducing meeting times when agendas are light. What are the practices of your body in regards to agenda development, meeting duration, and meeting tempo?

*Public Comment*

None.

*LSAB Discussion*

John said that LSAB should spend more of its time focusing on actions or policies that lead to greenhouse gas (GHG) reductions rather than non-GHG reduction activities.

**Sub-Committee and Board Member Updates –**

None

**Administrative Tasks –**

Staff will write the June Sustainability Spotlight. Dan is the June secretary.

**Discussion Items for Next Meeting –**

Kayla said that the June meeting would include a discussion about the Internal Decarbonization Plan and the dark sky lighting memo. Kayla will talk to Hannah about presenting neighborhood engagement programs in July.

**Adjourn –**

Megan moved to adjourn the meeting and Josh seconded the motion. The meeting was adjourned at 8:40 p.m.

## Memorandum

**To:** Louisville Sustainability Advisory Board  
**From:** Kayla Betzold, Sustainability Manager  
**Date:** June 21, 2023  
**Re:** Staff Updates

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### *Resource Central Programs*

- Free, online Waterwise Yard Seminars will be hosted by Resource Central and partner organizations throughout 2023 to educate residents about low-water landscaping. Find out more at <https://resourcecentral.org/seminars/>. The City of Louisville seminar will be held on Monday, July 10 from 6:00 – 8:00 p.m. and will be titled Firewise Landscaping: Methods and Design
- [Slow the Flow](#) sprinkler assessments and [Rachio smart controller](#) installations will start to be advertised in late May/early June. New this year, Louisville businesses can participate in the Slow the Flow program.

### *Events*

- The Electrify Your Ride event will be hosted by the City of Louisville Sustainability division on Tuesday, June 27 from 5-7p at Steinbaugh Pavilion.
  - It will feature an EV ride and drive with an EV 6, Subaru Solterra, Mini Cooper, and a BMW model. There will also be an EV showcase with a Mustang, Rivian, Tesla 3 and VW ID.4.
  - The event will also feature e-bike ride and drives with bikes from E-bike of Colorado and Louisville Cyclery.
- The City will host a Bike to Work Day station on Wednesday, June 28 from 7-9a at City Hall. Bikers will receive free breakfast and bicycle-related giveaways.
- The final film in the Sustainability Film Series will be hosted by Superior on July 20 and will highlight the topic of a circular economy.

### *Projects and Programs*

- The Green Business Program is now open to new businesses and re-certification for existing businesses. The applications will be open through September 30, 2023.



# City of Louisville

## City Manager's Office

- The [Community Decarbonization Plan stakeholder application](#) is open now through Friday, June 23. Workshops will be held July – December.
- 13 e-bike rebates were awarded through the Louisville E-bike Rebate Pilot Program. The [state's e-bike rebate program](#) for low to moderate income individuals will be available in summer 2023.
- The Ice Box Challenge will be coming to Louisville July 27 through August 13 and will be located at the John Breaux park across from the public library. More information about the Ice Box Challenge can be found in the June packet.

### *Marshall Fire*

- According to the City's Planning department, 106 residents are rebuilding to IECC 2018, 218 residents are rebuilding to IECC 2021 and 31 residents are rebuilding to IECC 2021 + RC. 70% of residents are building to IECC 2021+.
- The Sustainability division dispersed 18 Rachio smart controllers to Louisville residents affected by the Marshall Fire to install at their homes with their new irrigation systems.



# **Sustainability Advisory Board**

June 2023

Kayla Betzold, Sustainability Manager

# Discussion Item: Internal Decarbonization Plan

## Overview

- John Kearns, McKinstry Engineering

## Public Comment

- 3 minutes/comment

## LSAB Discussion and Direction

- What recommendation does LSAB want to include in a memo?
- Appoint LSAB member to draft memo for July meeting approval
  - Motion
  - Seconded motion
  - LSAB vote
  - Record vote

# Internal Decarbonization Plan

**Sustainability Advisory Board**

**Update**

City of Louisville, Colorado  
June 21, 2023



# Project Overview

## City of Louisville Decarbonization Plan



Electrification  
& Efficiency

- Buildings
- Fleet
- Operations
- Parks Equipment



Renewables

- Roof-mounted
- Ground-mounted
- RECs

## Team Leads



Kayla Betzold  
Louisville Sustainability  
Manager



Ashley Brasovan  
McKinstry Team Director



Brian Goldcrump  
McKinstry Technical  
Study Director

## GOALS



## DELIVERABLES

Develop an **implementable action plan** to achieve cost-effective decarbonization by 2030.

Foster buy-in across City departments and the public.

- 10 Building Audit Reports
- Final Summary and Plan
- Board Presentations
- City Council Presentations

## Project Timeline

Phase 1: Information Gathering and Audits

Phase 2: Analysis

Nov.

★ City Council  
Presentation

May

Phase 3: Roadmap, Action Plan, + Presentations

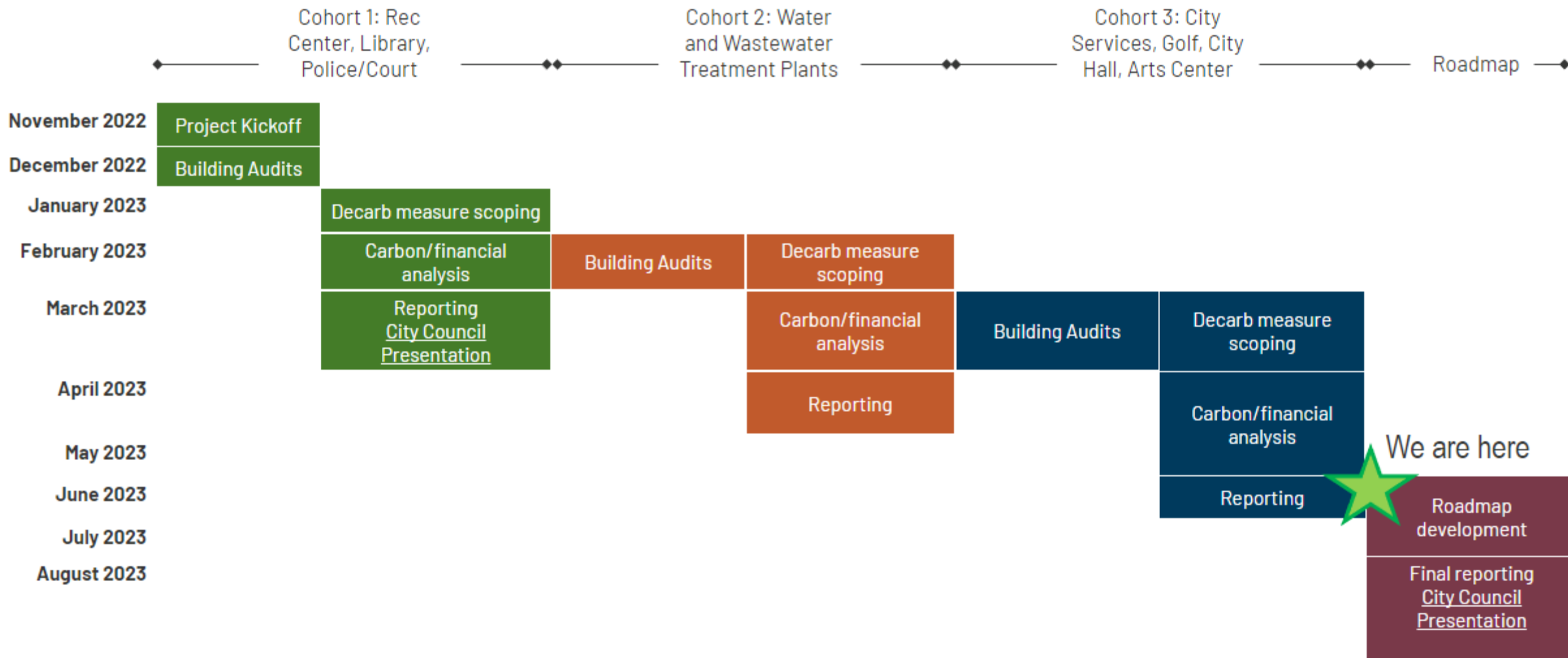
Implementation

August

★ City Council  
Presentation



# Internal Decarbonization Process



Funding Analysis - On-going

# Overview of roadmap

## Project Scope

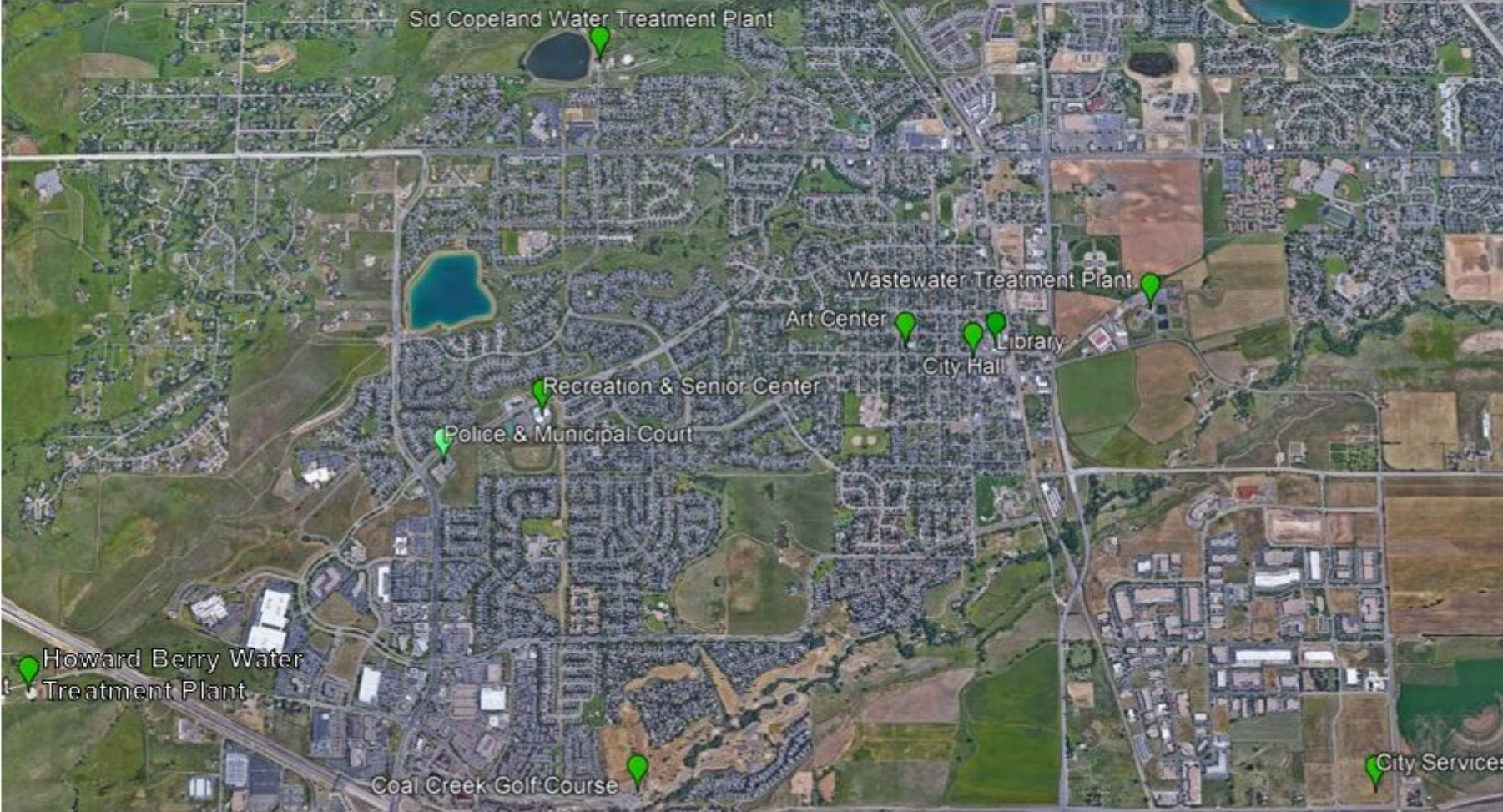
- 10 Building Sites
- City Fleet
- Electric Vehicle Infrastructure
- Miscellaneous Equipment

## Decarbonization Planning

- Load Reduction
- Electrification
- Carbon Reduction
- Utility Cost
- Construction Costs

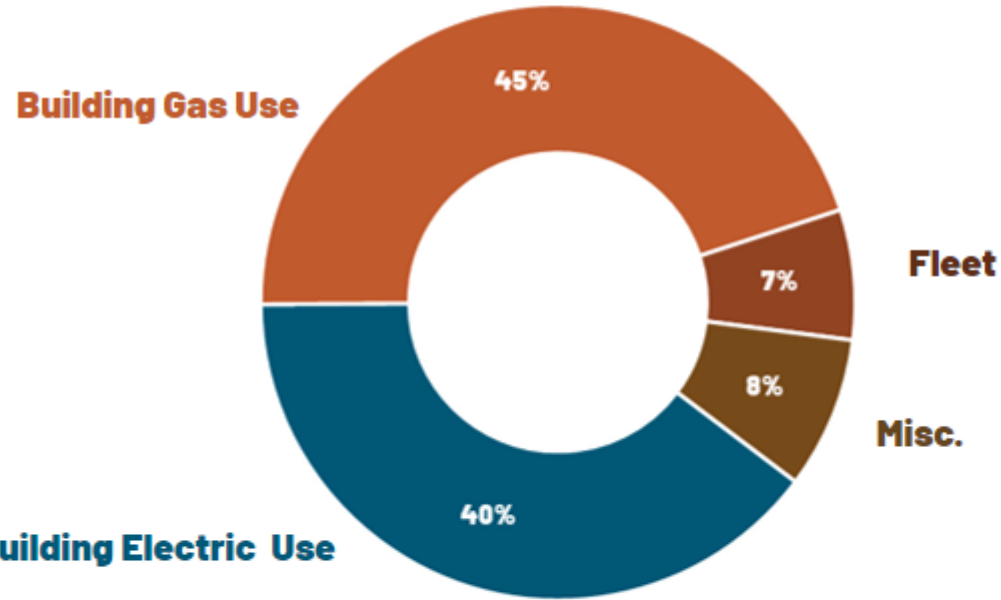
## Implementation Roadmap

- Age of Equipment
- Business-As-Usual
- Co-Benefits
- Funding Options

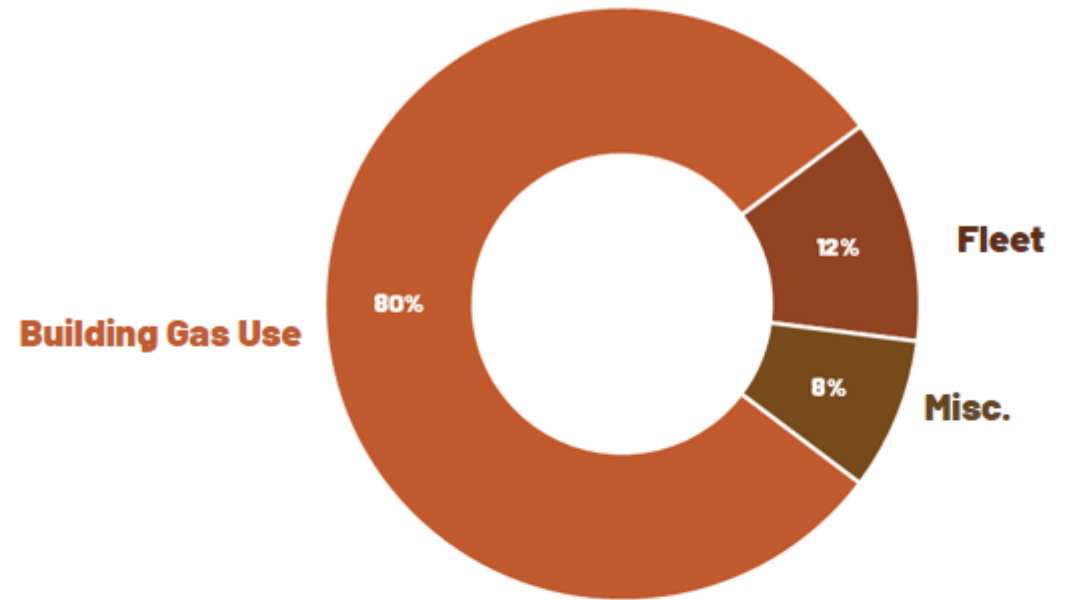


# Current Overall Emissions

## Portfolio Energy By End Use



## Portfolio Fossil Fuel Emissions By End Use



# Current Fleet Emissions

1. Light duty:

- Sedans, SUVs, light pickup trucks, and minivans
- Used for transporting people and small cargo

2. Light duty high performance:

- Mainly police vehicles
- Similar to light duty but with police-specific modifications.

3. Heavy duty

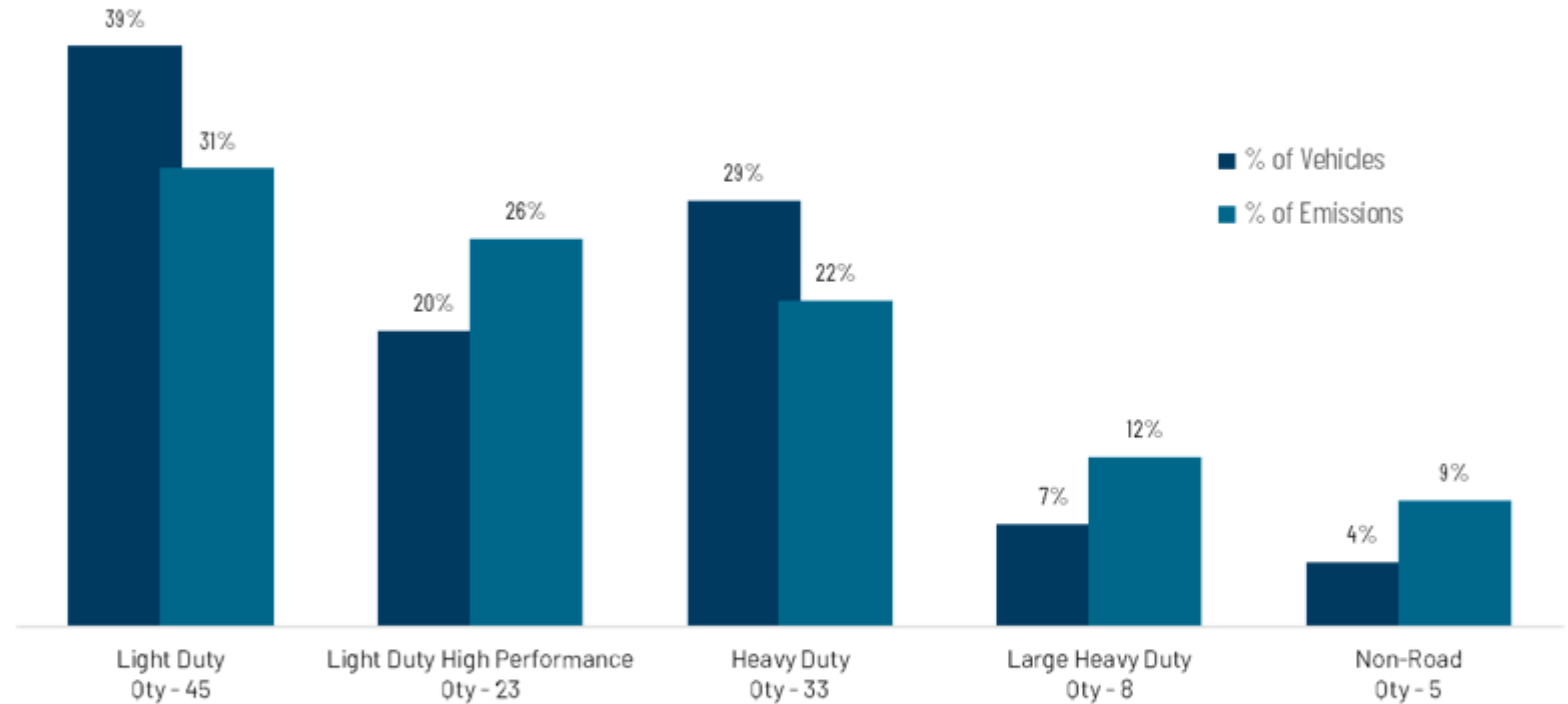
- Large pickup trucks
- Used for hauling and towing heaving loads.

4. Large heavy-duty

- Large snowplows and street sweepers
- Only used seasonally and have a varying workload that is dependent on the weather

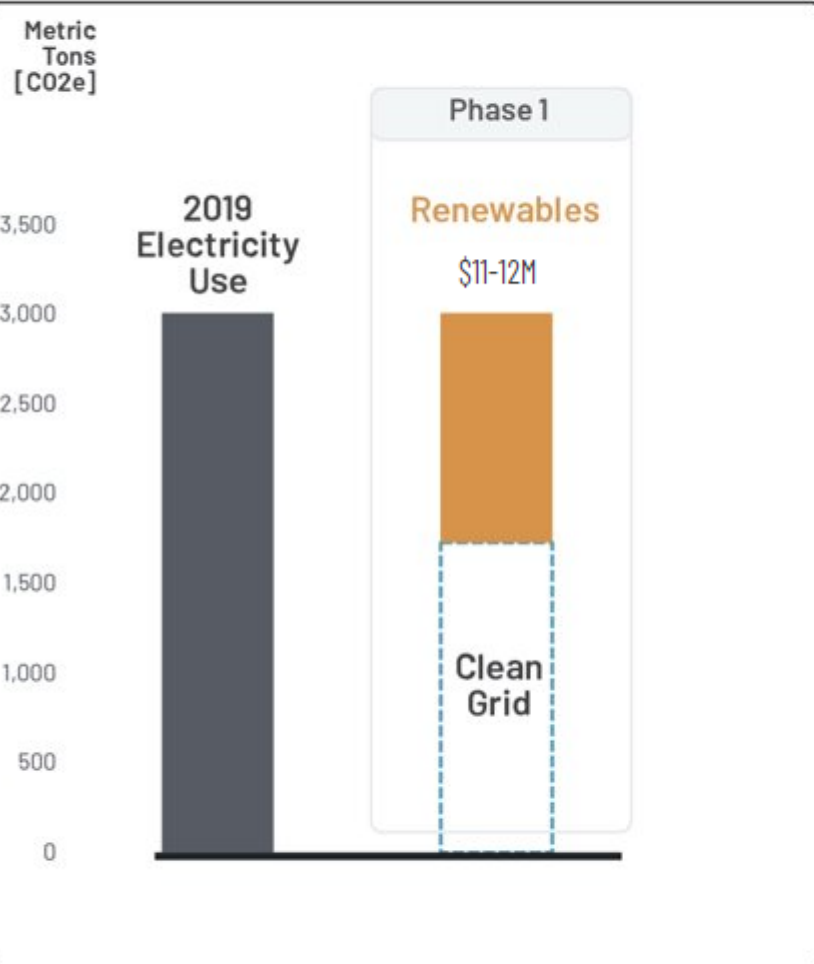
5. Non-road

- Construction-type vehicles
- Usage measured in hours of operation instead of miles.

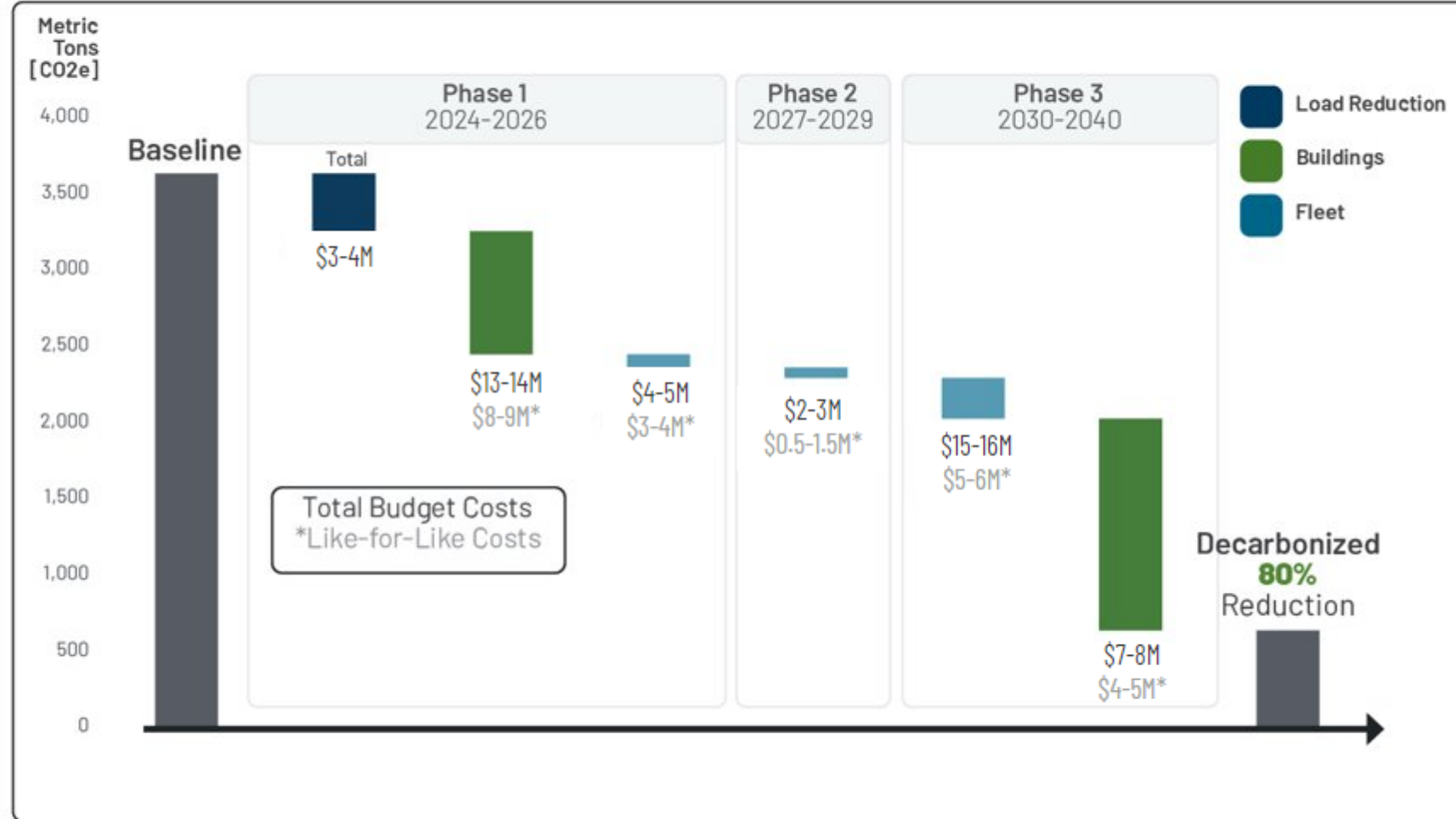


# Decarbonization Roadmap

## Electricity Emissions



## Fossil Fuel Emissions

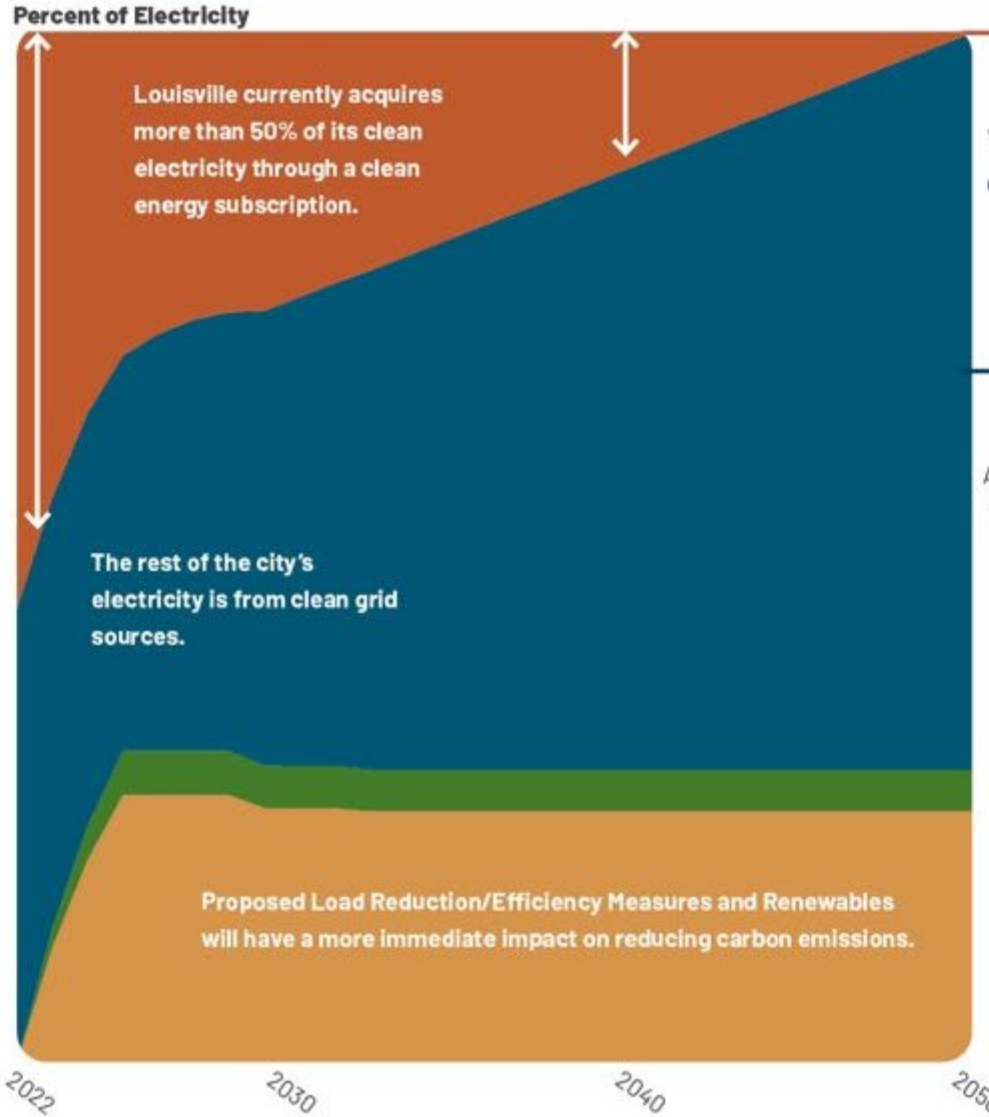


### Notes:

- Like-for-Like Costs: the "business as usual" costs for replacing existing fossil fuel equipment with similar fossil fuel equipment.
- Total Budget Costs: total costs needed for budgetary purposes. **The true cost of decarbonization is the total cost minus the like-for-like cost.**
- Costs do not include incentives or grants. The Inflation Reduction Act will potentially offset 30-40% of the cost of renewables and fleet.

# Emissions-Over-Time

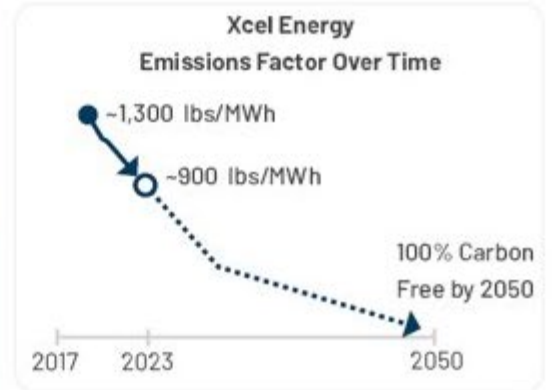
## Electricity Emissions Decarbonization



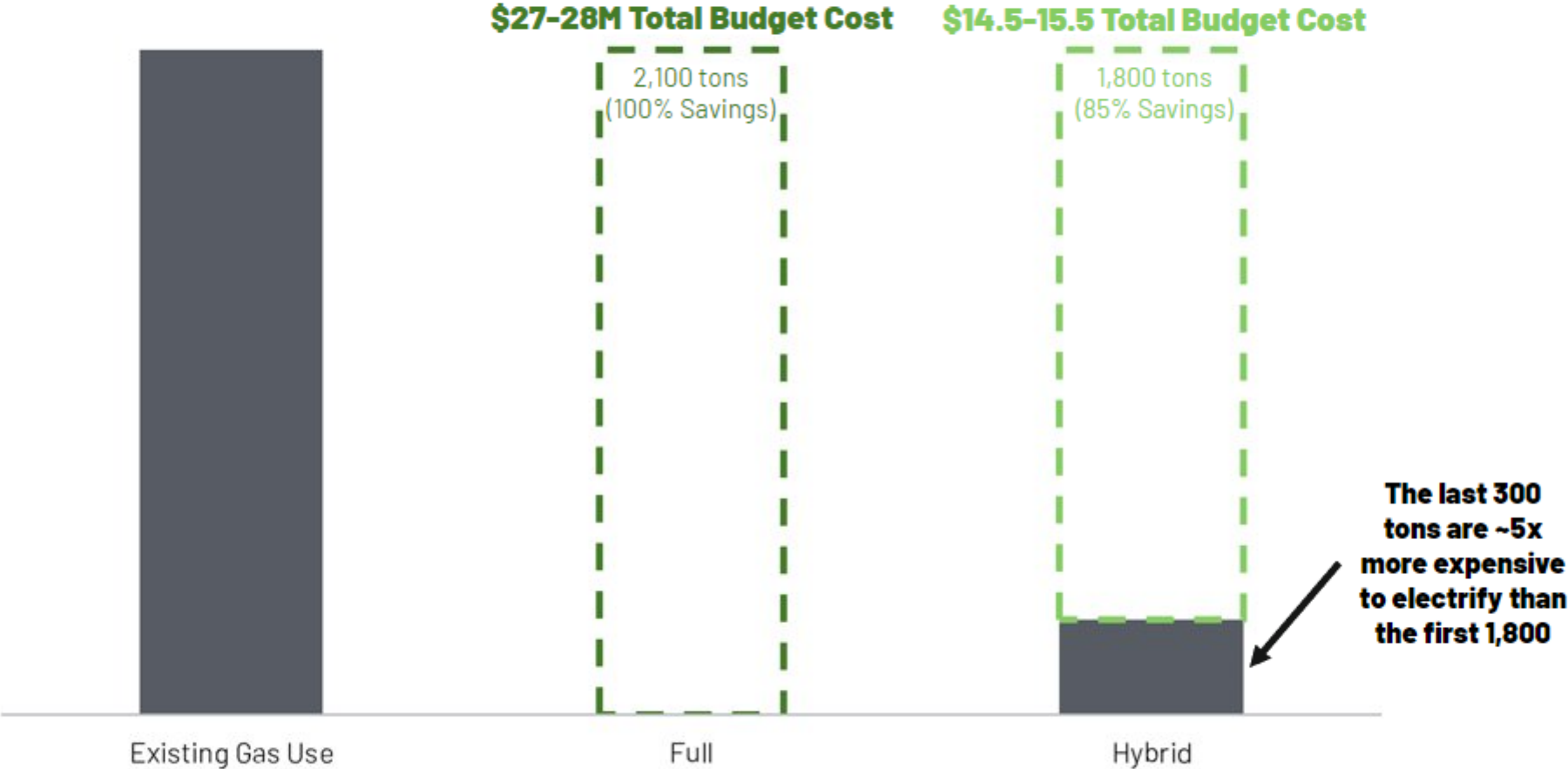
- Efficiency (Load/Carbon Reduction)
- On-Site Renewables
- Xcel Electricity
- Clean Energy Subscription Purchase

**Reducing Clean Energy Subscriptions**  
 With a reduced load, renewables and 100% carbon free grid, the need for Clean Energy Subscriptions will be eliminated.

**Decreasing Carbon Emissions Factors**  
 Available carbon-free clean energy from the grid will increase as the fossil fuel carbon emissions factor decreases, eventually to zero in 2050.



# Building Heating – Full Electrification vs Hybrid



# Renewables

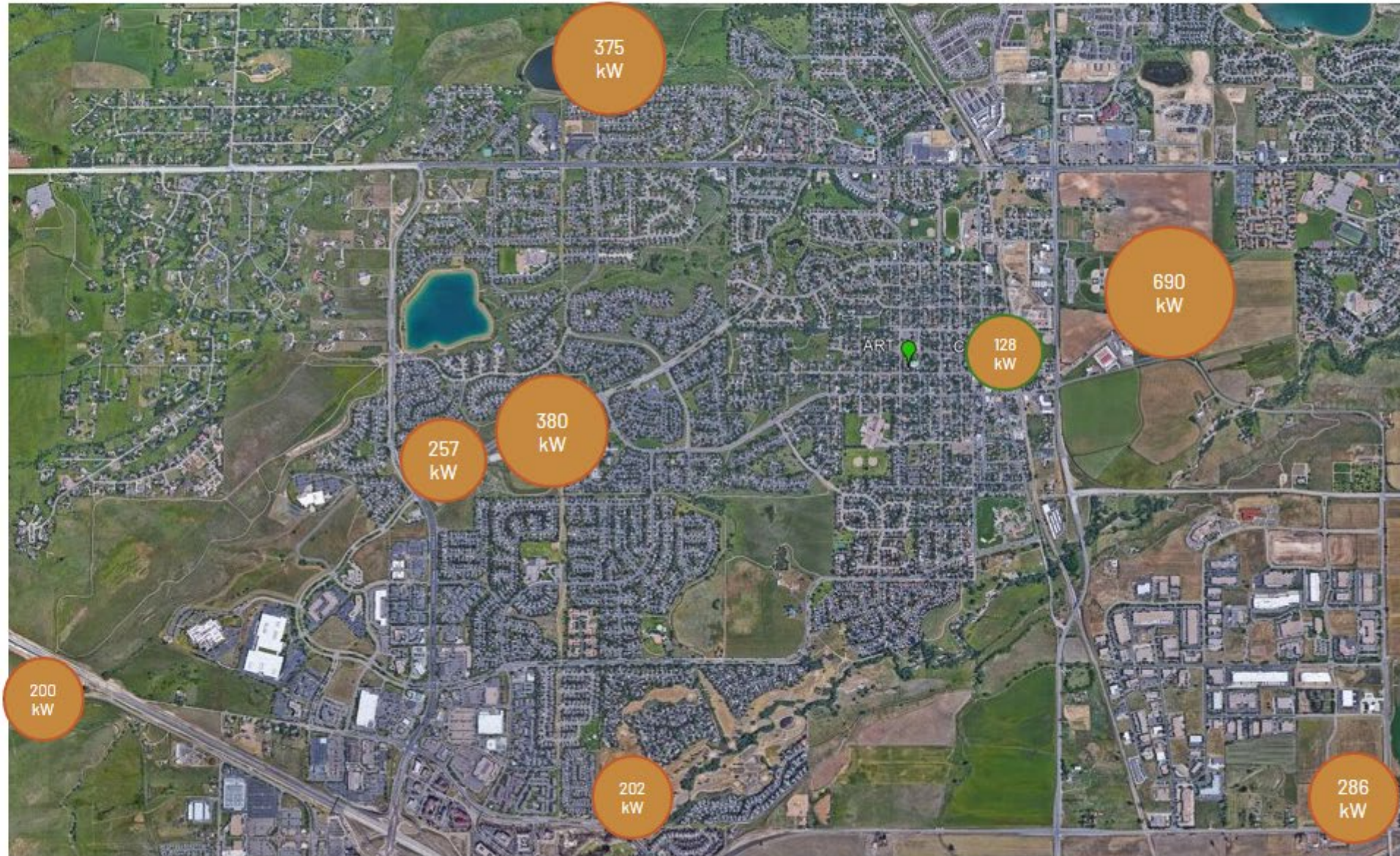


Roof Mount



Ground Mount

Total = 2.5 MW  
Future % Offset = 25%





# EV Charging

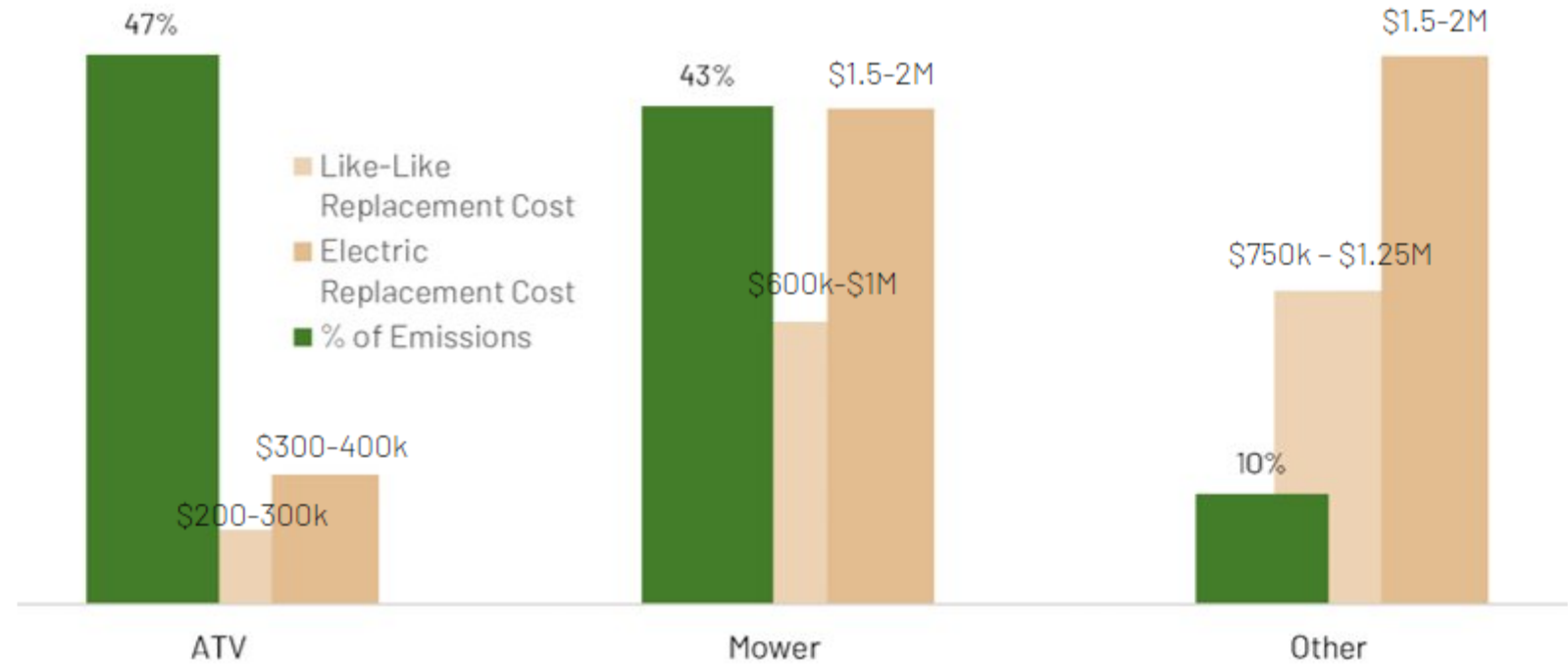
Qty EV  
Chargers  
Added



# Misc. Equipment – Emissions & Electrification

## Equipment Includes:

Aerator	Mower
ATV	Roller
Blower	Saw
Cart	Skid
Chainsaw	Sprayer
Chipper	Tractor
Forklift	Trimmer
Generator	Washer
Loader	

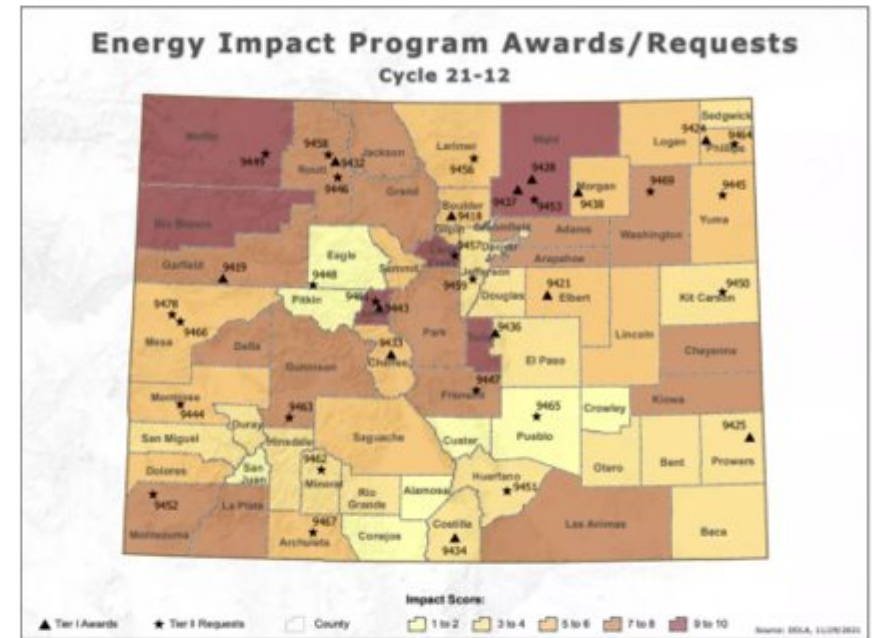


# Funding & Implementation Strategies Identified

- Colorado Public Building Electrification Grant
- Colorado Department of Local Affairs - RENEW & EIAF grants;
- State of Colorado Geothermal Grant
- Congressionally Directed Spending - due March 10th
- FEMA Building Resilient Infrastructure and Communities (BRIC) grant
- Charge Ahead Grant
- Inflation Reduction Act
  - Investment Tax Credit - Direct Pay
- US Department of Energy
- Xcel rebates
- Capital/CIP dollars
- Sustainability Tax
- Energy Performance Contract
- Lease purchase/COP/Bond



**COLORADO**  
Energy Office



**COLORADO**  
Department of Local Affairs

# Next Steps

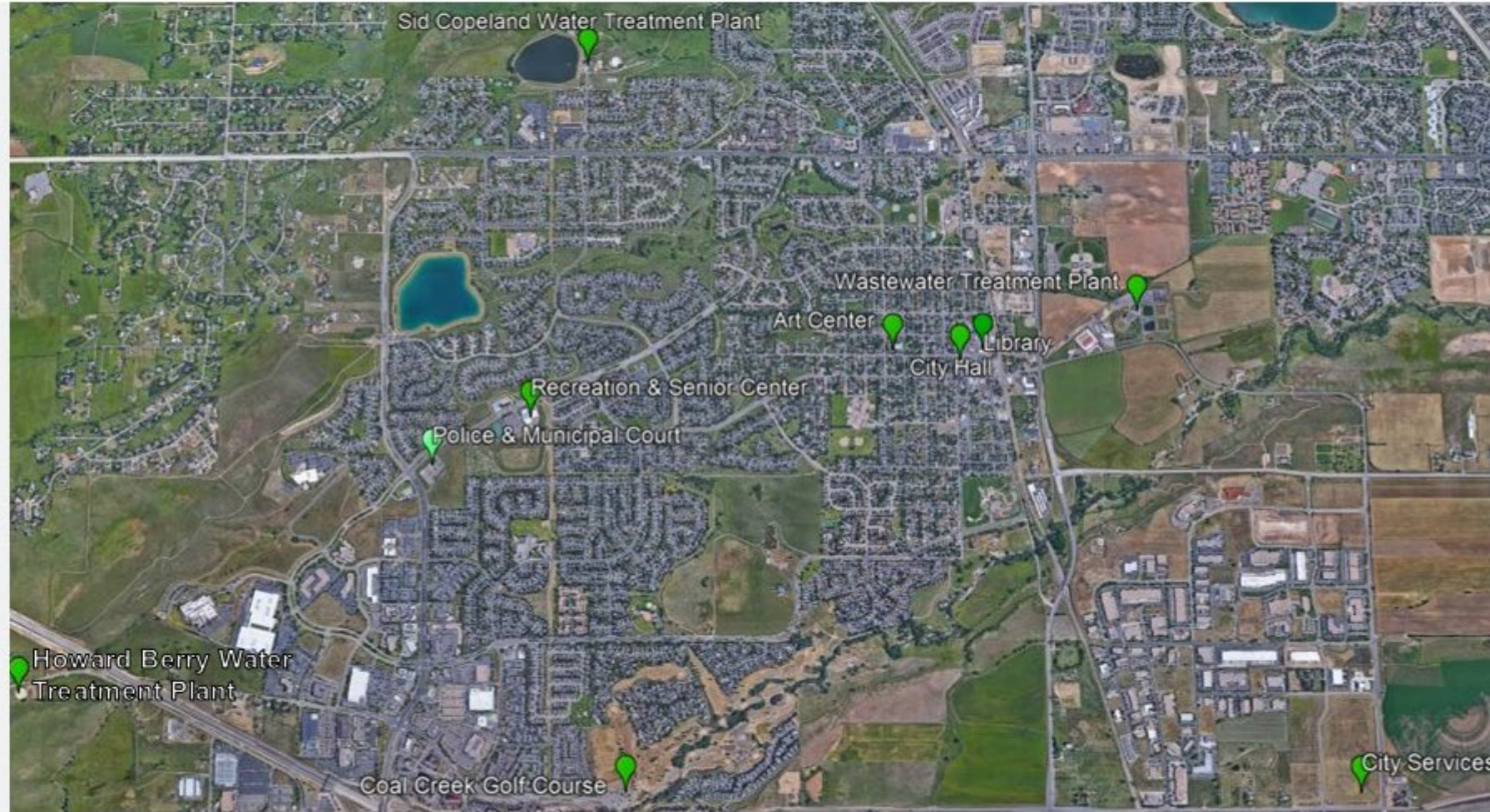
**Jul 12**  
Staff Final  
Feedback &  
Presentation

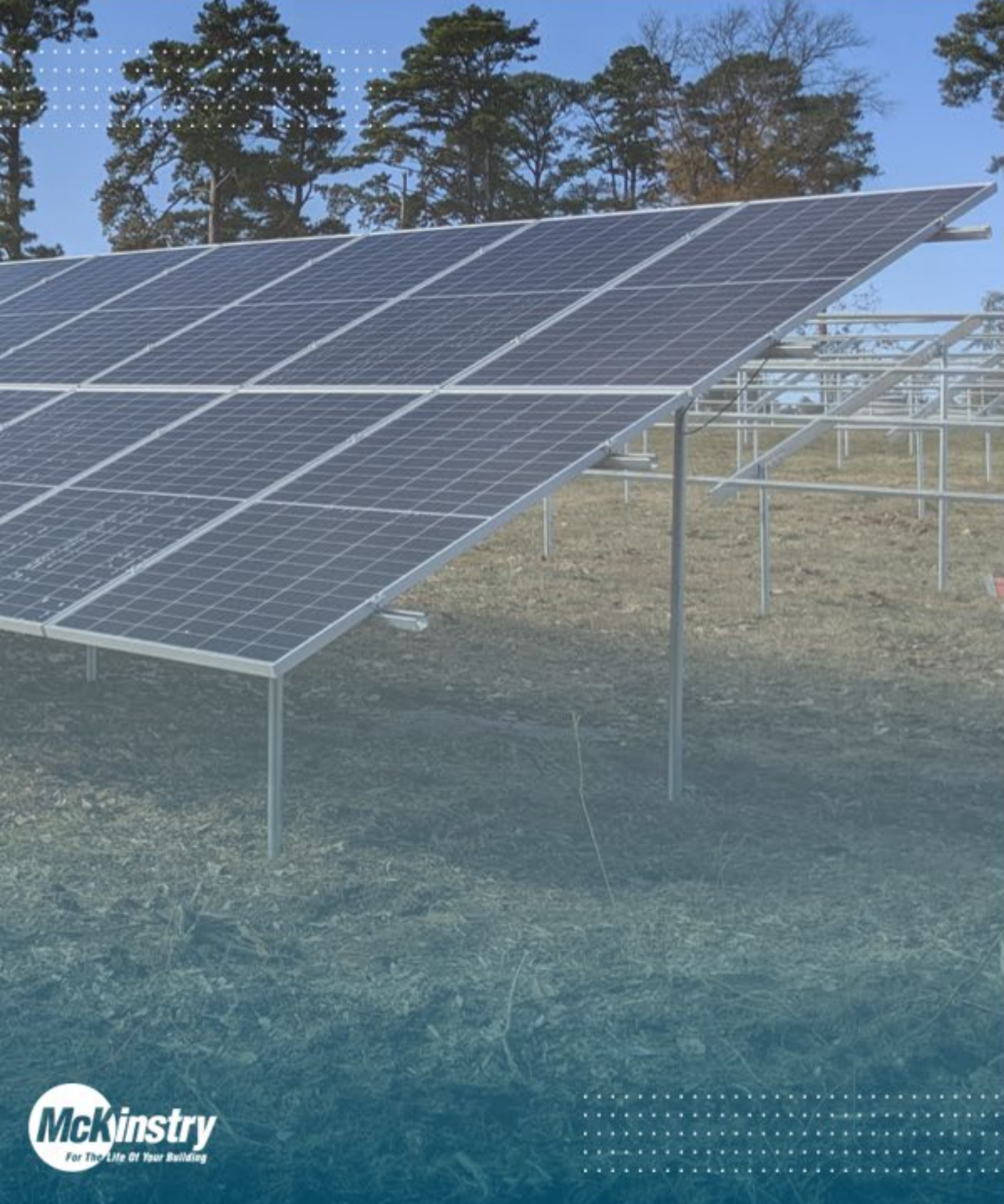


**Aug 1**  
Final Roadmap  
& Plan Due



**Aug 15**  
City Council Pres  
& Plan Adoption





— ◆ — **Discussion/Q&A**

# Discussion Item: Dark Sky Lighting Draft Memo Review

Overview - Josh Cooperman

Public Comment

- 3 minutes/comment

LSAB Discussion and Direction

- Draft memo changes, comments, discussion
  - Motion
  - Seconded motion
  - LSAB vote
  - Record vote

# Discussion Item: 2023 LSAB Work Plan

Staff Update

Public Comment

- 3 minutes/comment

LSAB Discussion

# LSAB June 2023 Meeting

## Sub-Committee and Board Member Updates

### Administrative Tasks

- Megan to write July Sustainability Spotlight
- Determine remaining Spotlight writers
- Lev is July secretary

### Discussion Items for Next Meeting

- Internal Decarbonization Plan draft memo
- Electrification incentives
- EE/electrification outreach and education
- Neighborhood Engagement Strategies

Adjourn



## DRAFT Memorandum

**To: Louisville City Council Members**  
**From: Louisville Sustainability Advisory Board**  
**Date: August 15, 2023**  
**Re: Dark Sky Lighting Ordinance**

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Dear Louisville City Council members,

The Louisville Sustainability Advisory Board strongly supports the adoption of a dark night sky lighting ordinance. Such an ordinance would constitute a welcome advance for environmental sustainability in Louisville.

As the Board previously noted, a dark night sky lighting ordinance would reduce the City's light pollution. Light pollution adversely affects many forms of wildlife endemic to and migrating through Louisville including pollinating insects, migratory birds, and nocturnal mammals; light pollution harms the health of Louisville's residents, for instance, by disrupting sleep patterns; and light pollution denies our community a vital part of our natural environment, the night sky. A dark night sky lighting ordinance would help to remediate these negative effects of light pollution. While the City's Comprehensive Plan and Sustainability Action Plan do not specifically address light pollution, these Plans do call for the protection and restoration of Louisville's natural environment. Moreover, curbing light pollution represents a clear extension of the goals enunciated in the Sustainability Action Plan, which we hope to update to explicitly address light pollution.

As the Board also previously noted, a dark night sky lighting ordinance would enhance the City's energy efficiency. Light fixtures compliant with a dark night sky lighting ordinance would not waste energy illuminating areas that do not require illumination; lighting plans compliant with a dark night sky lighting ordinance would not over illuminate areas that do require illumination; and the replacement of light



COLORADO • SINCE 1878

fixtures not compliant with a dark night sky ordinance would make the City's lighting more energy efficient as modern fixtures typically have higher intrinsic efficiencies.

The Board encourages the City to further educate its residents and business owners about the benefits and intents of dark night sky lighting, to offer its residents and business owners incentives and rebates to install dark night sky lighting, and to advance regional alignment on outdoor lighting standards.

Thank you for considering our recommendation.

Best regards,

The Louisville Sustainability Advisory Board

# LOUISVILLE SUSTAINABILITY ADVISORY BOARD

## 2023 WORK PLAN

### LSAB Role

#### Advise & Recommend

- Provide feedback to staff regarding programs, projects, etc.
- Sustainability budget requests
- Council work plan recommendations
- Letters of support for Council policy discussions
- Additional memos to Council/City leadership that state group recommendations

#### Research & Analysis

- Vetting ideas through cost/benefit analysis, alignment with City plans, equity lens, etc.
- Prepping for future budget requests/work plan ideas

#### Outreach & Engagement

- Coordination with partners and community members
- Distribution of materials
- Monthly eNewsletter
- Other ideas

### 2023 Priority Items

1. Support and participate in Louisville-specific community decarbonization plan through Partners in Energy (January – June)

LSAB Role: Provide input on planning process and equity considerations, participate in planning process through stakeholder/community meetings and focus groups

2. Support implementation of Louisville-specific community decarbonization plan (June – December)
  - a. Residential retrofit roadmap and/or workshop series
  - b. Residential and commercial energy program outreach and engagement
  - c. Energy efficiency/electrification stacking rebates

LSAB Role: TBD (based on outcome of plan), will likely include residential and commercial program and incentives outreach and engagement and residential education recommendations

3. Partner with US Solar/SunShare, Boulder County/Solar United Neighbors and Partners in Energy to develop a renewable energy portfolio that educates residents and business owners about their renewable energy options. (Jan – April)

LSAB Role: Provide recommendations about components of the renewable energy portfolio, provide recommendations about draft renewable energy portfolio

4. Partner with US Solar/SunShare, Boulder County/Solar United Neighbors and Partners in Energy to educate residents and business owners about the renewable energy portfolio and their renewable energy options (April – December)

LSAB Role: Provide input for outreach and engagement plan development, outreach and engagement efforts through community events and involvement

5. Support Louisville sustainability events
  - a. Sustainability Film Series (Jan – May)
  - b. Lafayette Earth Day (April)
  - c. Spring Cleaning Event (April)
    - i. HHW
    - ii. Electronics
    - iii. RAQC incentives
  - d. Electrify Your Ride (June)
    - i. EV showcase/ride n drive
    - ii. E-bike showcase/ride n drive
  - e. Farmers Market/tabling opportunities (June - September)
  - f. Labor Day parade/festival (September)
  - g. EcoTober (October)

LSAB Role: Provide recommendations on event development as needed, volunteer recruitment, event outreach and engagement, event volunteering

6. Support Louisville Green Business Program (March – September)
  - a. Business outreach and education

LSAB Role: Provide recommendations for outreach and engagement plan development, business outreach and engagement efforts

7. Create content for Sustainability Spotlight (bi-monthly)

LSAB Role: Research sustainability topic, write content, provide content to Coordinator for publication

8. Research and analysis for new potential sustainability initiatives (As Needed)
  - a. Alignment with Sustainability Action Plan and Climate Action Goals
  - b. Cost/benefit analysis
  - c. GHG reduction potential
  - d. Equity evaluation in support of City's EDI goals

LSAB Role: Conduct research and analysis, present results to Coordinator and board

9. Exploring funding sources/grants & identifying uses in alignment with Sustainability Action Plan (As Needed)

LSAB Role: Conduct research and analysis, present results to Coordinator and board

## 2023 Meeting Outlines

<b>Month</b>	<b>Focus</b>	<b>Lead/Partners</b>
January	<ul style="list-style-type: none"> <li>- Welcome new member, Board Overview, Discussion/adoption of 2023 work plan and sub-committees</li> <li>- Officer Election</li> <li>- US Solar introduction</li> <li>- Sustainability Film Series – film and speaker recommendations</li> </ul>	Tim Hilgert, US Solar
February	<ul style="list-style-type: none"> <li>-Appointment of LSAB member to OS tax task force</li> <li>-LSAB Decision Making Process &amp; Expectations</li> <li>- Bag tax funded waste programs feedback</li> <li>-Spring Cleaning Event and volunteer requirements</li> <li>-Gas Station Moratorium LOS</li> </ul>	
March	<ul style="list-style-type: none"> <li>-E-bike pilot program feedback</li> <li>- Communications/Outreach and Engagement/Events Discussion</li> <li>-Gas Station Moratorium</li> <li>-Earth Day flyer (to include in packet)</li> </ul>	- Rob Zuccaro, Community Development Director
April	<ul style="list-style-type: none"> <li>- Community decarbonization plan introduction</li> <li>- Solar United Neighbors (SUN) Co-Op Overview</li> <li>-Dark Sky Lighting Ordinance overview – decide if board would like to submit memo for Council</li> <li>-RE portfolio (to include in packet)</li> </ul>	- Lynn Jemison, Partners in Energy
May	<ul style="list-style-type: none"> <li>-Dark Sky Lighting board feedback</li> <li>-Communications plan</li> </ul>	Amelia Brackett-Hogstad, City Planner

	-Board Purpose and Role (CM Request)	
June	Internal Decarb Plan – consultant presentation, memo outline creation – appoint member to write memo -Dark Sky Lighting LOS approval -check in 2023 work plan	Brian Goldcrump, McKinstry
July	-Residential retrofit roadmap/workshop series and EE/electrification incentives -IDP LOS approval -Communications plan – neighborhood engagement strategies	
August	TBD – lawn equipment electrification presentation and recommendation?	
September	Annual Sustainability Progress Update	
October	Council 2024 work plan items discussion	
November	2024 LSAB work plan discussion	
December	2024 LSAB work plan discussion	Emily Hogan, Assistant City Manager

**Additional Focus Items**

- Council Work Plan Items
  - LSAB work plan may change if sustainability items are added to Council’s work plan
- Gas station moratorium
  - LSAB may want to submit memos to Council when this topic arises on meeting agendas

**Additional Information**

**Subcommittees**

Instead of topic area subcommittees, there will be needs for project-specific support in 2023. Staff will communicate these needs to the board as they arise.

**Commercial program outreach and engagement needs**

- a. Green Business Program
- b. PACE programs, rebates and incentives
- c. Xcel Energy programming
- d. Additional incentives

**Residential program outreach and engagement needs**

- e. EnergySmart programs
- f. Xcel Energy programs
- g. City EE/electrification rebates
- h. Additional incentives

# 2023 Passive House Network Conference

# COLORADO ICE BOX CHALLENGE

Fort Collins | Louisville | Denver

## What Is the Ice Box Challenge?

The Ice Box Challenge is a public installation event that demonstrates the power of Passive House design and construction. [Watch the video.](#)

## The Process

Two boxes are constructed, one box to the local building requirements, while the other is built to the international Passive House Standard. The two boxes are then placed in a central, high foot-traffic area for a set period of time - usually two weeks.

Both are filled with 1 ton of ice. Monitoring devices and cameras inside the boxes can measure the temperatures and photograph the depleting ice.

The amount of ice left in each box at the end of the display period is then measured, and the level of remaining ice is used to demonstrate how well each ice box kept out the heat.

## Engagement

Public events are planned for the placement of the ice and the reveal at the end, with remarks by public and private supporters of the effort.

During the 2-week period of exhibition, volunteers will engage public visitors and explanatory events can be planned to engage school, camp or other groups of kids and adults.

A free game to guess the final weights of the ice in each box will offer prizes to the closest guesses.

## Locations & Schedule

(note: precise locations and dates to be determined)

- Fort Collins, July 2023
- Louisville, August 2023
- Denver, September 2023

## Ice Box Challenges from Around the World:



Glasgow, Scotland



Brussels, Belgium



Santiago, Chile



Sydney, Australia



New York City



Vancouver, British Columbia

Ask us about community partnership and sponsorship opportunities. We want to work with you! Email: [phrm@passivehousenetwork.org](mailto:phrm@passivehousenetwork.org)

The Ice Box Challenge is part of the [2023 Passive House Network Conference](#) effort to expand the conversation about how Passive House building helps us address our climate, health and social equity crises. Join us!

