

Sustainability Advisory Board

Agenda

June 12, 2024

White House Conference Room

717 Main St.

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.

The Board will accommodate public comments during the meeting. Anyone may also email comments to the Board prior to the meeting at HMiller@LouisvilleCO.gov.

- I. Call to Order
 - a. Megan is June secretary
- II. Roll Call
- III. Approval of Agenda
- IV. Approval of Minutes
- V. Public Comments on Items Not on the Agenda
 - a. 3 minutes per comment
- VI. Sub-Committee and Board Member Updates
- VII. Administrative Tasks
 - a. August Sust. Spotlight is covered by the Sustainability Division
 - b. July Sust. Spotlight, Solar Farms from John due 6/15.
- VIII. Staff Updates – 10 minutes

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. 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.

City of Louisville

City Manager's Office 749 Main Street Louisville CO 80027
303.335.4534 (phone) www.LouisvilleCO.gov

- IX. Discussion Item: LSAB Mission Wording on Website- 10 minutes
 - a. LSAB presentation
 - b. Public Comment (3 minutes per comment)
 - c. LSAB Discussion and Direction
- X. Discussion Item: Commercial Decarbonization Strategy: CU-Anshutz Research and PACE Rebates- 45 minutes
 - a. Jenn Dingman, PACE Sustainability Business Advisor presentation
 - b. Public Comment (3 minutes per comment)
 - c. LSAB Discussion and Direction
- XI. Discussion Item: LSAB Legislative Agenda to Inform City Council- 25
 - a. Josh Cooperman, LSAB member presentation
 - b. Public Comment (3 minutes)
 - c. LSAB Discussion and Direction
- XII. Discussion Items for Next Meeting
 - a. LSAB Legislative Agenda to Inform City Council
 - b. Economic Vitality- City's Property Improvement Programs
- XIII. Adjourn

***Sustainability Advisory Board
Meeting Minutes***

**May 15, 2024
Louisville Public Library, 2nd Floor Board Room
951 Spruce Street
6:30 PM**

Call to Order- Todd called the meeting to order at 6:35 pm.

Roll Call-

Board members Todd Budin, Joshua Cooperman, John Cowley, Allison Kay, and Kevin Lombardo were present. City staff members Hannah Miller and Samma Fox were present. Resident Laura Levesque-Catalano was present.

Approval of the Agenda

Kevin motioned to approve the agenda; Josh seconded his motion.

Approval of Last Month's Meeting Minutes

Josh motioned to approve last month's meeting minutes; Kevin seconded his motion.

Public Comments on Items Not on the Agenda

There were no public comments.

Subcommittee and Board Member Updates

There were neither subcommittee nor board member updates.

Administrative Tasks

Hannah will follow up with John regarding the next Sustainability Spotlight.

The Board agreed to reschedule—or perhaps cancel—its June meeting since its usual meeting date coincides with Juneteenth.

Staff Updates

Hannah described the new residential building material waste diversion program, and she highlighted a few other items on her list of staff updates.

John inquired about interest in advocating for a Front Range Passenger Rail station in Louisville from the Board's counterparts in Lafayette and Superior. Hannah stated that the boards in Lafayette and Superior are not currently so interested. John expressed his

disappointment at such lack of interest. Josh and Todd suggested that John could personally advocate with the boards in Lafayette and Superior.

Josh inquired about the frequency of the new residential building material waste diversion program. Hannah replied that the program will be weekly as well as by appointment; participants will register for pickup beforehand.

Todd inquired about Hannah's role in planning the next 123 Electrify workshop. Hannah replied that she is actively planning the workshop with input from Clearesult and EnergySmart. Todd indicated that he will reprise his presentation from the first workshop based on the next workshop's focus and the first workshop's feedback. Hannah plans to include other information specific to Louisville like the City's renewable energy portfolio and community solar farm subscriptions. The Board agreed that residents need a better step-by-step plan to follow based on the information presented at the workshops.

Josh inquired whether City Council plans to explicitly ask for board and commission input on its 2025 work plan. Hannah indicated that City Council has not yet decided.

Bag-Tax Funded Programming Update

Hannah provided an overview of the current bag-tax funded programming including changes since its inception. See the slides in the meeting packet. In particular, Hannah is rebranding the program as general sustainability grants for businesses in Louisville.

John inquired about how many businesses have participated in the programming. Hannah pointed to a pie chart in her slides with this information. She has not yet received any feedback from participating businesses. Hannah stated that five businesses have applied for the general sustainability grants, one of which (Moxie Bread Company) has implemented their proposal for updated waste receptacles, two of which are interested in smart thermostats, and one of which is interested in electric HVAC. John also inquired whether businesses not remitting bag taxes can participate in the programming. Hannah replied that the programming is now available to all businesses and even vendors at events like the farmers' market.

Hannah provided an overview of residential programming at Parco Delle Zingaro. See the slides in the meeting packet. Kelsey, an engaged resident, and Kevin, the owner and manager, are collaborating with her.

Public Comments

Laura Levesque-Catalano informed the Board that the City of Lafayette will soon consider a universal recycling ordinance, which would mandate that all entities in the city, including businesses, recycle. Boulder adopted a similar ordinance several years ago. She suggested that the City of Louisville might want to consider such an ordinance.

Kevin inquired about how businesses learn about the programming. Hannah replied that the City held a kickoff event, which was not particularly successful, made cold calls to businesses, send postcards to businesses, and promoted the programming through its usual communication channels. Kevin suggested that the City could target businesses that would be good matches for the various programming. Todd inquired whether businesses may apply for any of the programming. Hannah replied that businesses may indeed choose. Todd expressed support for rebranding the programming, and he suggested that this programming be combined with any money offered by the City for commercial electrification rebates. John inquired about the cost of sending postcards. Hannah replied that postcards are relatively expensive.

Josh inquired about the Community Decarbonization Plan's recommendations for Parco Delle Zingaro fit with the bag tax funded programming there. Hannah replied that these efforts will be largely separate.

Go Electric Colorado Presentation

Todd provided a brief introduction to Louisville's efforts on residential decarbonization, and he indicated how Go Electric Colorado might become involved. Julia Moravcsik and Stuart Cummings gave a presentation on Go Electric Colorado. See the slides in the meeting packet.

John inquired about the possibility of a presentation from Go Electric Colorado for his homeowners' association. Julia and Stuart explained that they have done such presentation before and that they have tried to arrange bulk electrification discounts if many homeowners are interested.

Stuart volunteered that Go Electric Colorado's team of technical advisors provided one-on-one tours of their own homes.

Kevin asked whether Go Electric Colorado provides advice on electrification incentives and rebates. Julia and Stuart replied that they do provide such advice with caution, often making referrals to EnergySmart and similar organizations. Kevin also asked whether Go Electric Colorado provides contractor recommendations. Julia and Stuart replied that Go Electric Colorado does not formally endorse contractors but that the

technical advisors educate consumers so that they can have informed discussions with and make informed decisions about contractors.

Todd inquired about how Go Electric Colorado tailors its process to less informed consumers. Julia and Stuart explained that every consultation is customized including to the level of knowledge of the consumer and the level of economic investment of the consumer. They added that Go Electric Colorado provides follow-up advice at every stage of the process.

John inquired about a homeowner return on investment in electric equipment, particularly in the context of older homeowners investing in new equipment. Julia and Stuart replied that studies generally show electric equipment to increase a home's value.

Josh inquired whether Go Electric Colorado is currently working at capacity and whether Go Electric Colorado has pursued grant opportunities. Julia and Stuart replied that the technical teams is busy but there is still good availability for appointments and that Go Electric Colorado has not yet pursued grants but receives donations.

John inquired specifically about the functioning of heat pump hot water heaters. Julia, Stuart, and the Board discussed such equipment, with Stuart indicating that such equipment represents a major advance in efficiency (when properly installed and run).

Energy Code Memo Approval

Josh provided a brief overview of changes to the memo concerning proposed amendments to the City's building codes. He highlighted the specific suggestions now contained in the memo. Allison recommended that the word 'simple' be removed as a description of the suggested waivers for commercial doors and furnace efficiencies. Kevin motioned to approve the revised memo; John seconded his motion. The Board unanimously approved the revised memo.

Brainstorming

Todd provided a brief introduction to this agenda item: the Board has not recently had an opportunity to brainstorm on potential ideas and projects to pursue. John stated that a brainstorming session is overdue. Kevin suggested that the Board could allocate some time each month to brainstorming.

Kevin suggested that the Board advertise Go Electric Colorado as widely as possible to help residents initiate their journey towards electrification. John pointed out that the City could advertise Go Electric Colorado too as the organization is a nonprofit. John also

suggested that the Board could tie Go Electric Colorado's workforce development efforts into such ideas discussed at a recent Board meeting.

Todd recommended that the Board leverage bulk purchases for neighborhoods with similar homes. Hannah suggested that the City could work with the County on such efforts, like the recent program for rooftop solar installations.

Allison pointed to lawn signs as an effective means to advertise Go Electric Colorado and other efforts.

Hannah asked for the Board's thoughts on how to increase electric vehicle uptake in Louisville. Josh suggested that better knowledge of rebates would help.

Kevin suggested looking into the creation of microgrids in Louisville.

Josh inquired about the possibility of the Board recommending capital investment projects like expanded bicycle parking infrastructure.

Josh suggested a City bus route.

Discussion Items for Next Meeting

Hannah revisited possibilities for the Board's June meetings, namely rescheduling or canceling. See the slides in the meeting packet.

John suggested that the Board could review the results from the CU Anshutz class' study of commercial buildings in Louisville. Hannah indicated that she will bring this information to a future Board meeting.

John recommended against canceling the June meeting

The Board agreed that Hannah and Todd would make a decision on the Board's June meeting in the next several days.

Adjourn:

Kevin motioned to adjourn the meeting; John seconded his motion. The meeting adjourned at 8:42 p.m.

Memorandum

To: Louisville Sustainability Advisory Board
From: Hannah Miller, Sustainability Manager
Date: June 12, 2024
Re: Staff Updates

Projects and Programs

- Waste:
 - Residential Building Materials Waste Diversion Pick-up Day. This program has been expanded to include Lafayette. Resource Central will now serve Louisville, Superior, Lafayette and has already launched in Erie. Data will be provided via ReTRAC, the City's waste diversion software and we'll receive quarterly updates on tonnage and number of pick-ups.
 - Staff is moving forward with vouchers for the Spring Cleaning event.
- Decarbonization:
 - PACE rebates/ Commercial Decarbonization program. Staff has a kick-off meeting with PACE on 6/13 to discuss outreach strategy.
 - [1-2-3 Electrify workshop](#) series, second event (Step 1: Plan) happened on 6/10. The next event is July 13, the Electrification Expo at Superior Community Center from 2:00-5:00 p.m. I will be at this event in a staff capacity and cannot table. I'd love to have LSAB representation at this event.
 - *Please, let me know if you are interested in tabling. Event is 2-5:00 p.m. at the Superior Community Center.*
 - Louisville has won an award from Xcel's Partner's in Energy for our decarbonization work!
- Transportation:
 - Bike to Work Day is June 26! Staff will be out front City Hall tabling, along with other Depts/Divisions. The breakfast food truck, Freshly Laid, will provide free breakfast to the first 150 bicyclists.
- Water Conservation:
 - White House xeriscape garden has been planted! Staff is still working to secure an informational, public facing sign.

Council Related Items

- [Boulder Reporting Lab](#) has recently published an article referencing gas powered lawn equipment and the City of Boulder.
- Energy code amendments on Council's agenda for June 18(1st reading) and July 19 (2nd reading).

Grants

- Busy time with grant reporting! Staff is reporting on several grants between June/July.

LSAB (May meeting follow up)

- N/A

Other

- The Sustainability Specialist position has been posted and closed. Staff is currently reviewing applications.
- Hannah will be OOO from 6/19-6/24 with no reception.



Sustainability Advisory Board

June 2024

Hannah Miller, Sustainability Manager

Administrative Items

- Call to Order
- Roll Call
- Approval of Agenda
- Approval of Minutes
- Public Comments for Items Not on the Agenda
- Sub-Committee and Board Member Updates
- Administrative Tasks
 - July Sust. Spotlight
 - June Sust. Spotlight, Solar Farms from John due 6/15.
- Staff Updates- 10 minutes

Discussion Item: LSAB Mission Wording on Website

- LSAB Presentation
- Public Comment (3 minutes per comment)
- LSAB Discussion and Direction

Discussion: Update to Sustainability Advisory Board's Mission Statement Add Language to Include "Reduce City-Wide Greenhouse-Gas Emissions"

Why many scientists are now saying climate change is an all-out 'emergency'

Escalating rhetoric comes as new study shows there are just six years left to keep global warming to 1.5 degrees Celsius at current CO2 emissions rate

Sharon Orlan, Washington Post, Oct. 30, 2023

Climate Goal Deadline?
5 Years, Researchers Say.

New York Times, Oct. 31, 2023

New York Times, Nov. 2, 2023 -- Excerpt from Letter to Editor

As someone active in the climate struggle, I know that we must proceed on multiple levels. I can appreciate someone's not being a mass movement person, but the public has to begin to understand that individual acts, including recycling and buying electric cars, will not lower carbon emissions in time to save our plant, animal and human species.

And given the stakes, maybe a little climate anxiety is not so terrible.

VIRGINIA CASPER
WEST SHOKAN, N.Y.

The writer is on the coordinating committees of TIAA-Divest! and 1000 Grandmothers for Future Generations.

John Cowley, June 12, 2024

- ▶ The climate crisis is a growing emergency, having recently motivated Sustainability's Decarbonization Plans, and others.
- ▶ LSAB's Mission Statement is outdated in not including its increasing role in reducing Louisville's city-wide emissions:

- Present version:

MISSION: Promoting sustainability through energy efficiency, resource conservation, and localization to better the environment, social well-being, and economic vitality of the City of Louisville.

- ▶ Discuss the recommendation to modify the LSAB Mission Statement to Include:

"reducing Louisville's city-wide greenhouse-gas emissions"

Discussion Item: LSAB Mission Wording on Website

- LSAB Presentation
- Public Comment (3 minutes per comment)
- **LSAB Discussion and Direction**

Discussion Item: Commercial Decarbonization Strategy: CU-Anschutz Research and PACE Rebates- 45 minutes

- Jenn Dingman, PACE Sustainability Business Advisor Presentation
- Public comment (3 minutes per comment)
- LSAB Discussion and Direction
 - Staff is seeking input from LSAB to inform the direction of commercial outreach.



PAGE



Partners
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City *of*
Louisville

Building Electrification Outreach

Who is PACE

Partners
for a Clean
Environment ?



Administered by:



Funded by:



Energy



Circular Economy



Water Conservation



Transportation

What does PACE do?

PACE works with small- and medium-sized businesses to:

- Provide onsite assessments and audits
- Provide expert advising services
- Support sustainability and climate goals



Partners
for a Clean
Environment

**Our services are equity-focused
and free for all businesses**

PACE's Impact

PACE advisors have helped over

3,000

businesses make upgrades

27%

Current projects w/
Minority Owned Businesses

GHG reductions equivalent to taking

4,500

cars of the road

Boulder County businesses are saving

\$2,500,000

on their utility bills every year

Louisville's Sustainability Progress



- 2016:** City Council adopted the first Sustainability Action Plan, marking the start of focused sustainability strategies.
- 2020:** The City updated its Sustainability Action Plan to include key strategies for decarbonization. With Xcel Energy's support, Louisville advanced implementation, tracking, and reporting of these objectives.
- 2021:** Boulder County completed its fourth greenhouse gas inventory, revealing that building energy use is the largest emissions contributor, at 76% of total emissions in Louisville.
- 2024:** Louisville's City Council adopts new Climate Action Goals, reduce GHGs 60% by 2030 and be carbon-neutral by 2050.

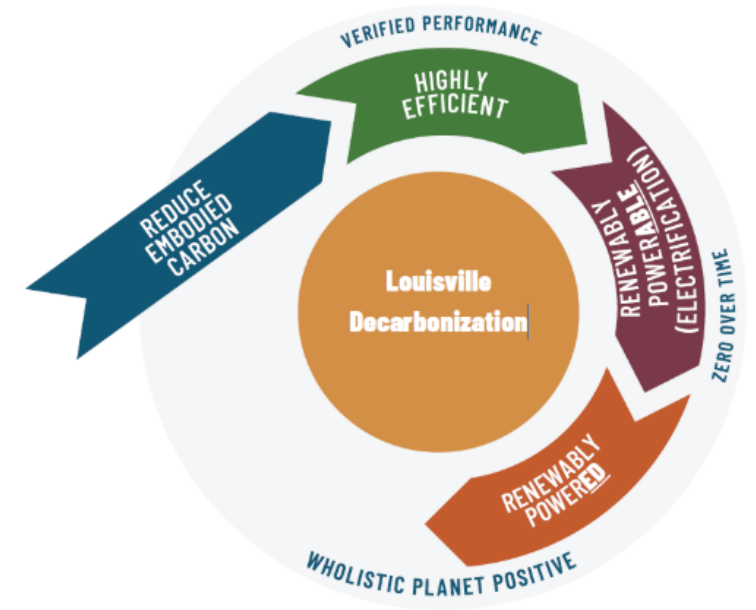


Community Decarbonization Plan & Deliverables

To develop a targeted outreach strategy for the commercial sector, the City asked the grad team to:

1. Research business districts and create a map to prioritize building electrification efforts, focusing on businesses most likely needing heating, ventilation and cooling (HVAC) system upgrades.
2. Recommend policy levers to incentivize commercial building electrification.
3. Develop branding strategies for commercial decarbonization programs.

***Key Policy Question: How can Louisville quantify and maximize greenhouse gas reduction from upgrading inefficient commercial HVAC systems? What strategies best promote decarbonization, energy efficiency, and renewable energy use in this sector?**

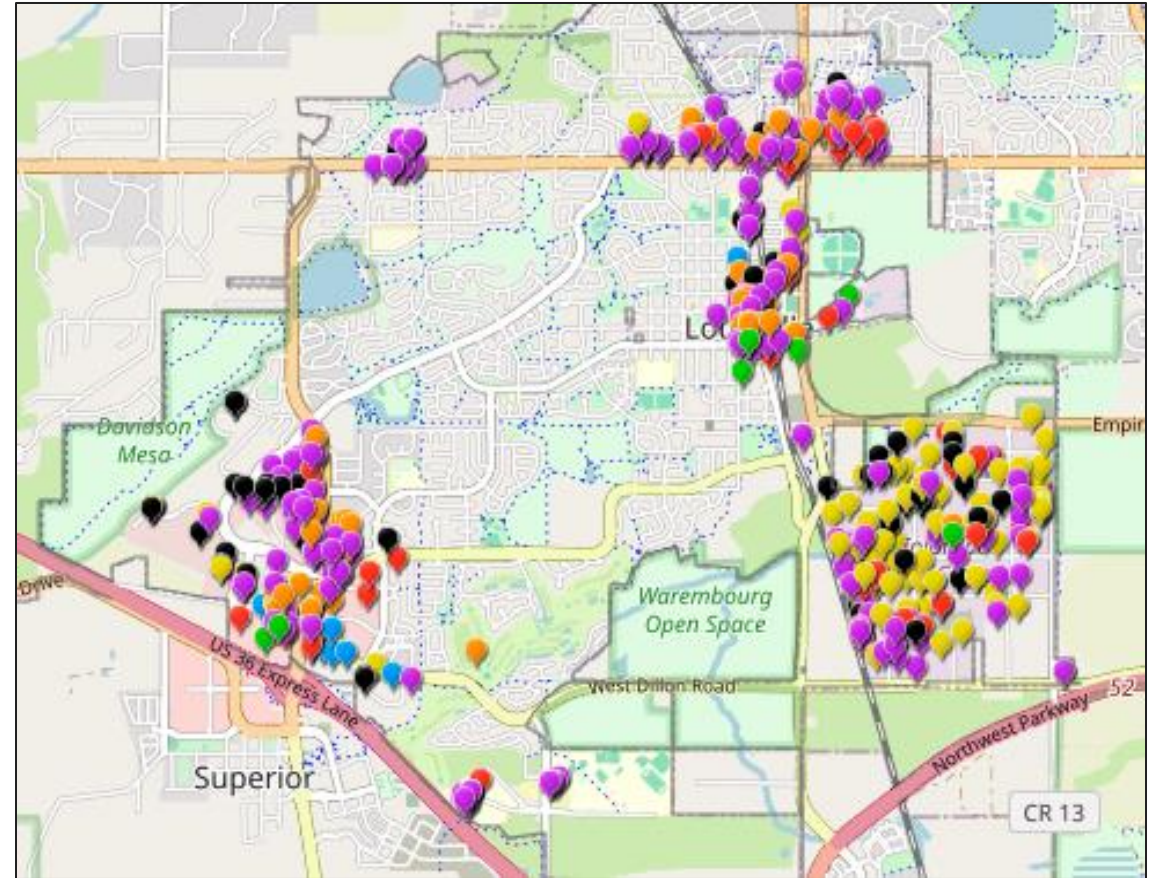


Source: City of Louisville Internal Decarbonization Plan (McKinstry, 2023)

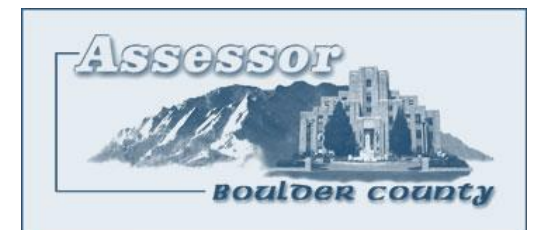
Deliverable 1: Building Prioritization Map

Background:

- Businesses were chosen using the City of Louisville's Business District Map.
- Students analyzed 670 commercial buildings in the City of Louisville spread out around 6 business districts.
 - Downton
 - McCaslin Corridor
 - South Boulder Road Corridor
 - Colorado Tech Center
 - Centennial Valley
- Data was collected on building age and square footage from the Boulder County Assessor's Office and real estate websites such as LoopNet and RedFin.
 - Limitation: Permit Records



*City of Louisville's Business District Map



Building Prioritization Map Breakdown

- Commercial buildings were prioritized using 2 criteria
 - Building Age
 - Square Footage

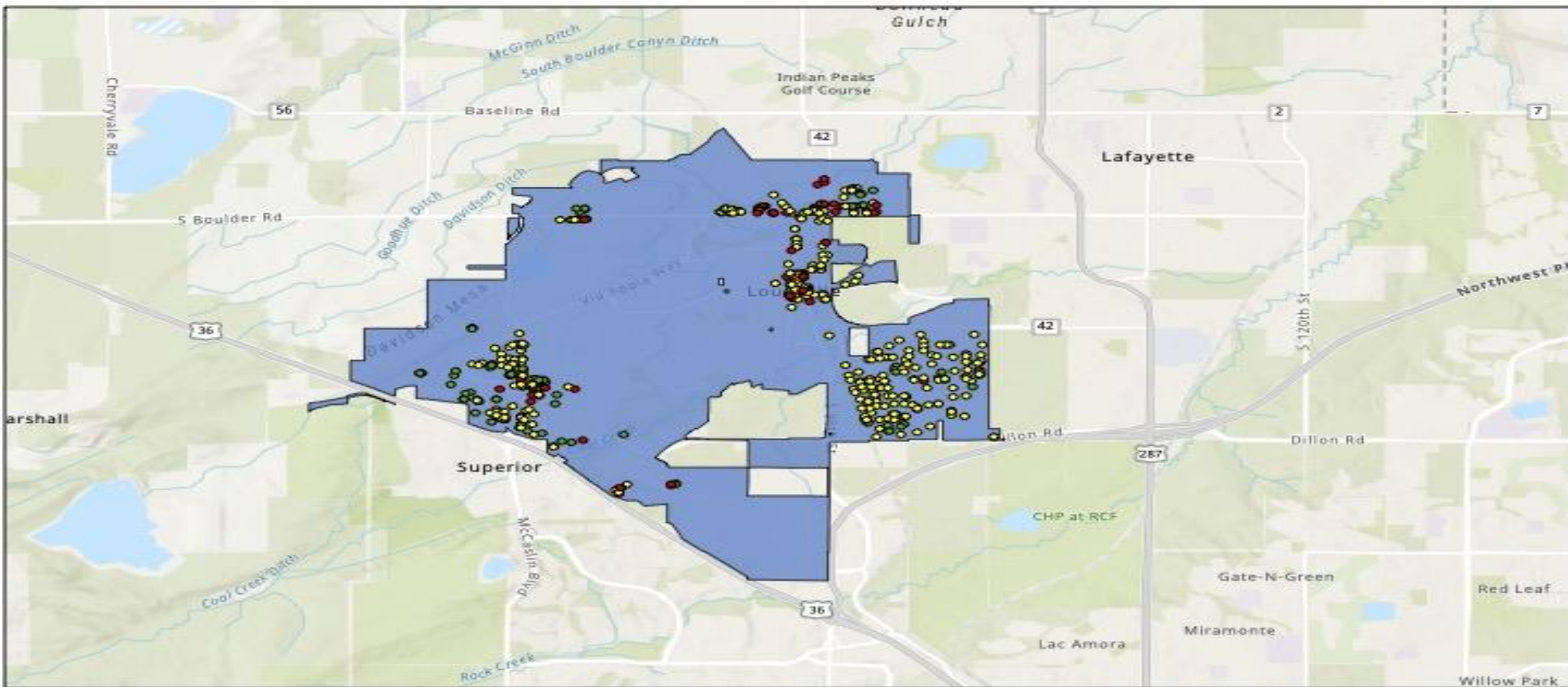
Buildings that score between **0 and 2** are ranked as a **“low” priority**.

Buildings scored between **3 and 5** are ranked as a **“moderate priority**.

Buildings scoring a **6 and 7** are ranked as a **“high” priority**.

<u>Year Built</u>	<u>Score</u>	<u>Explanation</u>
Old (before 1980)	3 points	Likely to be less energy-efficient
Middle-aged (1980-2000)	2 points	May have some updates but potential for improvement
New (after 2000)	1 point	Likely to meet current energy efficiency standards
<u>Square Footage</u>		
Small (<5,000 sq ft)	1 point	Limited impact on overall energy consumption
Medium (5,000-25,000 sq ft)	2 points	Moderate impact
Large (25,001-50,000 sq ft)	3 points	Higher impact and potential for energy savings
Extra Large (\geq 50,001 sq ft)	4 points	Significant impact, high potential for efficiency upgrades

Louisville Commercial Buildings Decarbonization Priority



5/5/2024

Local Business in Louisville

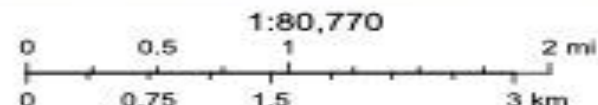
● 0 - 2 Low

● 3 - 5 Moderate

● 6 - 7 High

■ CityofLouisville

■ World Hillshade



City of Boulder, City of Westminster, Boulder County, City and County of Broomfield, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc. METV

Analysis of key findings from the prioritization map

- 84 commercial buildings that were ranked “high” -> earned a priority score of either 8 or 9
 - These buildings are marked by a green dot on the map; a high concentration of these buildings is found in the Colorado Technology Center and McCaslin Corridor and are also spread out throughout the other business districts.
- 532 commercial buildings that were ranked “moderate” -> earned a score between 5 and 7
 - These buildings are marked by a yellow dot on the map; a high concentration of these buildings is found in the Colorado Tech Center and downtown Louisville.
- 54 commercial buildings that were ranked “low” -> earned a score between 0 and 4
 - These buildings are marked with a red dot. These are concentrated in Downtown and South Boulder Road in Louisville.



Businesses to target for electrification outreach

- Buildings rated “high”; These buildings are likely ranked as “extra-large” for square footage, and subsequently ranked in the “high” category for BTU production. These buildings are also likely older than the year 2000 and were ranked as either “middle-aged” or “old”.
- Buildings built before the year 2000, have an extra-large square footage (> 50,000 sf) are those that are producing the most emissions. By prioritizing these buildings for electrification, there will be the largest reduction in emissions produced by commercial buildings. These buildings are mostly located in the Colorado Technology Center, Centennial Valley, and McCaslin Corridor.



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2024 Programs

- **Xcel direct install**
- **Electrification Feasibility Study**
- Refrigeration & Restaurant Equipment Grant
- Landscape Electrification Program
- **Energy efficiency & electrification rebates**
- **Solar rebates & grants**
- Clean compost
- Reusables advising & incentives
- Transportation partnerships & leads

Electrification Feasibility Studies



Get up to **\$20,000** per property from PACE to create a **plan** for **electrifying** your building and ditching fossil fuels for **good**.



2024 Rebates

- Changed annual PACE-wide incentive limits
- Increased rebates for electrification & building envelope
- Creation of Equity Priority Buildings
 - For buildings that house one or more businesses that serve frontline community members
 - Program helps people that are more vulnerable to the impacts of climate change
 - Examples include affordable housing and nonprofit human service providers

Commercial Heat Pump Incentives

*Louisville rebates double these



Technology	Standard Rebate	Equity Priority Building Rebate
Ground Source Heat Pump	\$2,000 / ton	\$4,000 / ton
Cold Climate Air Source Heat Pump or VRF	\$1,500 / ton	\$3,000 / ton
All-Electric or Dual Fuel RTU	\$1,500 / ton	\$3,000 / ton
Non-Cold Climate Air Source Heat Pump	\$750 / ton	\$1,500 / ton
Electrification Feasibility Studies	\$20,000 80% of cost	\$20,000 100% of cost
Electric Infrastructure Upgrades	\$4,000 80% of cost	\$4,000 100% of cost

More info at [PACEpartners.com](https://pacepartners.com)

Outreach Strategy



Option 1

- Target high priority buildings

Pros/Cons

- Might have a harder time getting folks onboard
- Largest emission reduction potential

Option 2

- Target buildings/businesses that are already engaged with sustainability. IE: Green Biz, bag tax programs and PACE programs

- Pros/Cons
- Easier to get folks onboard
- Less emission removal potential based on location



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Thank You!

Discussion Item: Commercial Decarbonization Strategy: CU-Anschutz Research and PACE Rebates

- Jenn Dingman, PACE Sustainability Business Advisor Presentation
- Public Comment (3 minutes per comment)
- **LSAB Discussion and Direction**
 - Staff is seeking input from LSAB to inform the direction of commercial outreach.

Discussion Item: LSAB Legislative Agenda to Inform City Council 2025 Work Plan- 25 minutes

- Josh Cooperman, LSAB presentation
- Public Comment (3 minutes per comment)
- LSAB Discussion and Direction
 - What topic areas does LSAB want to encourage City Council to address in their 2025 work plan in terms of high- level sustainability-related policy?

Discussion Item: LSAB Legislative Agenda to Inform City Council 2025 Work Plan- 25 minutes

- Idea
 - Create, maintain, and update a list of ordinances and policies that LSAB recommends for adoption by City Council and City staff
- Questions (if LSAB wants to move forward)
 - How much detail should we provide to City Council and City staff?
 - How should we prioritize our list of ordinances and policies?
 - How should we communicate our legislative agenda to City Council and City staff?
 - How often should we update our legislative agenda?

Discussion Item: LSAB Legislative Agenda to Inform City Council 2025 Work Plan- 25 minutes

- Example Ordinances (in no particular order)
 - Dark night sky lighting
 - Phase out of gasoline-powered landscaping equipment
 - Admissible regulations on pesticide application
 - Commercial landscape design standards and retrofits
 - Carrots and sticks in building codes and reviews for electrifying existing buildings
 - 'Green' City charter
 - Las Vegas-style water usage regulations
 - Universal recycling and composting requirements

Discussion Item: LSAB Legislative Agenda to Inform City Council 2025 Work Plan- 25 minutes

- Example Policies (in no particular order)
 - Reduced mowing of park lands, expanded wildlife habitat on park lands
 - Removal of unnecessary hardscapes, replacement with natural softscapes
 - No idling of City vehicles
 - Bicycle and e-bicycle police patrols
 - Bicycle parking at all City facilities including parks, sports fields, etc.
 - Mosquito control
 - Waste audits

LSAB July 2024 Meeting

Discussion Items for Next Meeting

- Carry over of LSAB Legislative Agenda/2025 Council Work Plan
 - Memo to be sent in August
- Economic Vitality- City's Property Improvement Programs

Adjourn