



CITY OF LAKEWOOD
SUSTAINABILITY PLAN ANNUAL REPORT
2023



This page intentionally left blank.

CITY OF LAKEWOOD

SUSTAINABILITY PLAN ANNUAL REPORT

2023

City of Lakewood Division of Community Sustainability, Climate & Zero Waste

Jonathan Wachtel, *Manager of Community Sustainability, Climate & Zero Waste*

Caitlin Hasenbalg Long, *Senior Sustainability Planner*

Jeff Wong, *Senior Sustainability Planner*

Christy Cerrone, *Sustainable Neighborhoods Program Coordinator*

Em J Jackson, *Zero Waste & Circularity Planner*

Melissa Martin, *Sustainability Intern*

Mikayla Zeitlin, *Sustainability Intern*

Thank you to all the Lakewood staff members and partner organizations who provided data for the report.

Published September 2024.

01	CLIMATE CHANGE AND ADAPTATION	4
02	ENERGY, WATER, AND THE BUILT ENVIRONMENT	10
03	SUSTAINABLE ECONOMY	16
04	ZERO WASTE	22
05	COMMUNITY COHESION AND PUBLIC HEALTH	28
06	NATURAL SYSTEMS	36
07	TRANSPORTATION	42
	APPENDIX A: TARGETS AND INDICATORS	49
	APPENDIX B: STATUS OF IMPLEMENTATION STRATEGIES	68
	APPENDIX C: SUSTAINABLE NEIGHBORHOODS PROJECTS	79

CLIMATE CHANGE AND ADAPTATION

SUSTAINABILITY PLAN CHAPTER 1

2015 SUSTAINABILITY PLAN GOALS

Minimize Lakewood's communitywide greenhouse gas emissions and prepare and adapt to ongoing climate change impacts.

RECENT HIGHLIGHTS

- Climate Hazard & Social Vulnerability Study
- Regional leadership in Climate Planning
- Jeffco adopts first Climate Action Plan
- Lakewood awarded CDP Cities A-List status
- National and Global Climate News: 5th National Climate Assessment and COP28

NEW CITYWIDE GHG INVENTORY AVAILABLE

The City of Lakewood's 2021 Greenhouse Gas (GHG) Inventory Summary Report was released in spring 2023. The report presents data about communitywide GHG emissions that were generated in 2021 resulting from activities within Lakewood.

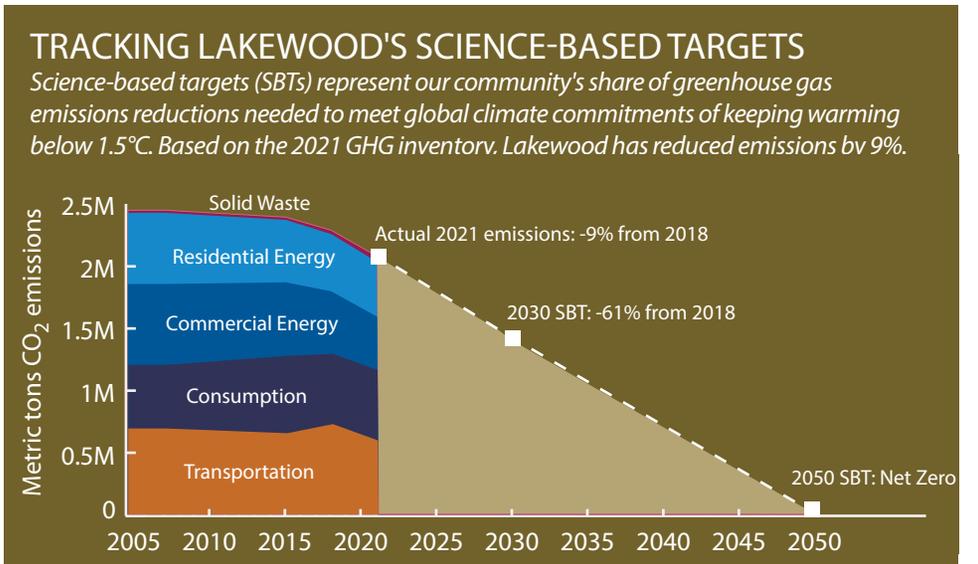
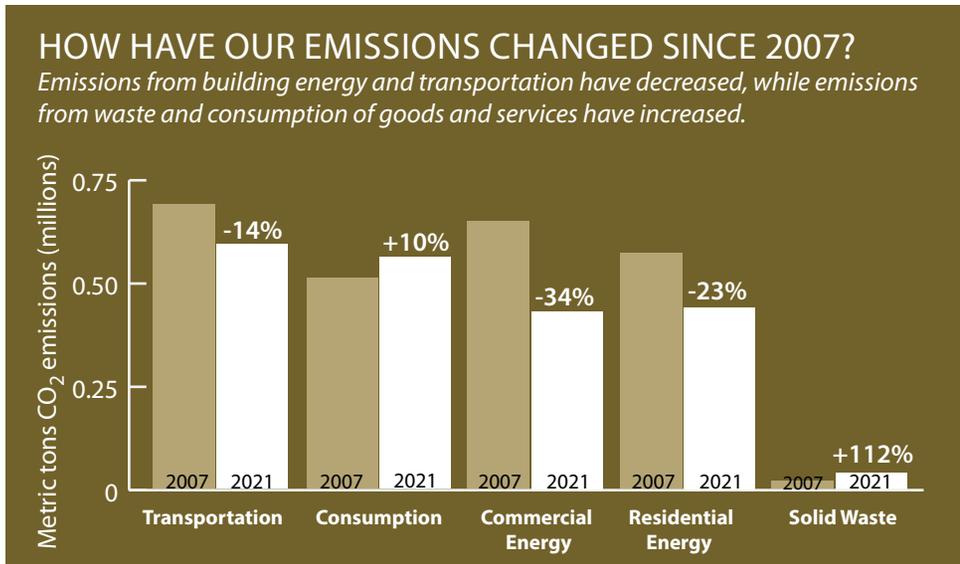
CLIMATE CHANGE AND ADAPTATION

2023 PROGRESS SNAPSHOT

A full list of metrics can be found in Appendix A.

SUSTAINABILITY PLAN TARGETS	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Reduce communitywide greenhouse gas emissions by 20% below 2007 levels by 2025.	2,447,746 mtCO ₂ e (2007)	2,080,506 mtCO ₂ e (2021)	-15%	The latest GHG inventory was completed in 2023 using 2021 data and measured in metric tons of carbon dioxide equivalent (mtCO ₂ e) using the Global Protocol for Community-scale GHG Inventories (GPC) methodology. GHG inventories are expected to be completed every 3 years.	●
Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.					●
SCIENCE-BASED TARGETS	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Reduce communitywide greenhouse gas emissions by 60.7% below 2018 levels by 2030.	2,286,787 mtCO ₂ e (2018)	2,080,506 mtCO ₂ e (2021)	-9%	The Science-Based Targets are from the city's commitment to the Global Covenant of Mayors to keep warming below 1.5°C through the Cities Race to Zero program. The 2030 target is a check-point to determine progress toward the 2050 goal of net-zero emissions.	●
Reduce communitywide greenhouse gas emissions to net-zero by 2050.					●

● The target is on track ● The target is not on track ● Target not tracked / data unavailable



CLIMATE CHANGE AND ADAPTATION

2023 PRIORITIES AND PROJECTS

Sustainability staff have been focused on several key initiatives to advance the city's goals for climate change and adaptation.



CLIMATE HAZARD & SOCIAL VULNERABILITY STUDY

In 2023, Lakewood received a FEMA Hazard Mitigation Grant to evaluate the potential impacts of climate change on natural hazards that pose the greatest risks to Lakewood's residents, infrastructure, and economy, with particular focus on socially vulnerable communities. Adverse effects of climate change often intersect with other social vulnerabilities like income, age, and health, leaving those with the highest social vulnerability most in danger of short- and long-lasting impacts. The final report is expected to be available by early 2025 and is intended to help guide future decision and policy-making processes, including the Comprehensive Plan and Hazard Mitigation Plan updates.



REGIONAL CLIMATE PLANNING EFFORTS

Lakewood partners with many other jurisdictions in the Denver region to jointly advance climate planning. Two main projects include:

- CPRG – The Denver-Aurora-Lakewood Metropolitan Statistical Area has received a \$1 million Climate Pollution Reduction Grant (CPRG) to develop climate action plans in coordination with stakeholders throughout the region. The project is being led by the Denver Regional Council of Governments (DRCOG), with Lakewood staff providing direct support as part of the project management team.
- FRBEN – The Front Range Beneficial Electrification Network (FRBEN) aims to accelerate the adoption of beneficial electrification technologies in Colorado through regional collaboration and a focus on equity.



COUNTYWIDE CLIMATE ACTION PLAN

Jefferson County adopted its first Climate Action Plan (CAP) at the end of 2022. The City of Lakewood participated on the steering committee that provided guidance and expertise on the plan's goals and strategies. Read the plan and view the Climate Action Dashboard on Jefferson County's website at jeffco.us.



RECOGNITION FOR CLIMATE WORK

Lakewood has been recognized as one of 119 cities across the globe providing leadership in environmental action and transparency by the Carbon Disclosure Project. Among other actions, Lakewood's efforts include its climate action in the 2015 Sustainability Plan, the integrated climate impacts into the 2021 Hazard Mitigation Plan, the adoption of science-based emissions targets, and the completion of regular citywide greenhouse gas inventories. These have earned the city a place on the 2023 Cities A List.



NATIONAL AND GLOBAL CLIMATE NEWS

The Fifth National Climate Assessment was released in fall 2023. The U.S. congressionally mandated report on climate change impacts, risks, and responses is a federal interagency effort that provides the scientific foundation to support informed decision-making across the United States. In addition, the 28th United Nations Climate Change Conference, COP28, took place in late 2023. Nations took stock of climate action status around the world and agreed to commitments for global adaptation goals, funding and finance strategies, and new national climate plans for each country by 2025. Get more information on the United Nations Climate Change webpage at unfccc.int.

01 NEW CITYWIDE GREENHOUSE GAS EMISSIONS INVENTORY

The City of Lakewood's 2021 Greenhouse Gas (GHG) Inventory Summary Report was released in spring 2023. The report presents data about communitywide GHG emissions that were generated in 2021 from activities within Lakewood. The city generally completes GHG inventories every three years.

Since adoption of the 2015 Sustainability Plan and in alignment with the city's commitment to the Global Covenant of Mayors (GCoM) for Climate & Energy and other climate programs, a Science-Based Target (SBT) and updated GHG emissions reductions goals were developed for Lakewood:

1. Reduce community emissions by 60.7% below 2018 levels by 2030.
2. Achieve net zero community emissions by 2050.

SBTs have been widely accepted as the standard best practice to determine a community's fair share of emissions reductions to meet the goals of the Paris Climate Agreement (substantially reduce GHG emissions to limit global temperature increase to 1.5° C). Communities that are most responsible for global emissions are also responsible for reducing GHG emissions at faster rates compared to developing communities.

The 2021 Lakewood GHG inventory calculated a total emission value of 2,080,506 metric tons of CO₂ equivalence (mT CO₂e), 9 percent below 2018 baseline levels. Building energy was the largest sector contributor, representing 42 percent of total emissions. When broken down further, energy use in residential buildings and commercial/industrial (C&I) buildings represented 21.1 percent and 20.7 percent of overall emissions, respectively. Transportation related activity (which

includes gasoline and diesel-powered vehicles, public transit, and air travel) contributed 28.4 percent of overall emissions. Consumption-based emissions associated with goods and services consumed by the community contributed 27.1 percent of overall emissions. These include both direct and indirect emissions from the products, food, and services people buy.

Between 2007 and 2021, overall GHG emissions in Lakewood decreased by 15 percent. Excluding consumption-based GHG emissions, Lakewood's emissions decreased by 22 percent between 2007 and 2021. The decrease is primarily influenced by reduced emissions from electricity use and transportation. Since 2007, the mix of energy sources that supply Xcel Energy's

electric grid has incorporated increasing amounts of renewable energy sources (wind and solar), resulting in lower carbon emissions factors. Total vehicle miles traveled (VMT) also decreased in 2021 as compared to 2007, though the trend has not been a consistent decline.

The 2021 GHG inventory results demonstrate that although emissions continue to decrease in Lakewood over time, a considerable amount of progress must still be made to meet the climate goals developed for the community. Data will continue to be collected and evaluated to measure progress toward the city's goals and to determine and prioritize a list of high-impact action items that will accelerate the decarbonization of communitywide activities.

WHAT IS A GREENHOUSE GAS (GHG) INVENTORY?

GHG INVENTORIES QUANTIFY EMISSION SOURCES WITHIN A SPECIFIC GEOGRAPHIC BOUNDARY AND TIME PERIOD. THEY ALLOW COMMUNITIES TO ESTABLISH EMISSIONS REDUCTION GOALS AND MEASURE PROGRESS TOWARD THESE GOALS. THEY ALSO HELP PRIORITIZE ACTIONS AND STRATEGIES TO REDUCE EMISSIONS.

Strategies to decrease communitywide GHG emissions may include:

- Increasing building energy efficiency of the existing built environment through programs and policies, such as benchmarking and performance standards;
- Minimizing carbon impact of new development;
- Expanding building electrification;
- Increasing locally generated renewable energy;
- Adding carbon sequestration strategies such as increasing tree canopy;
- Providing education about consumption-based emissions and the need for a circular economy;
- Reducing vehicle miles travelled (VMT);
- Increasing electric vehicle adoption and public

- transit to reduce transportation emissions; and
- Reducing target waste streams associated with high GHG emissions.

The city will also continue to inventory and report GHG emissions in Lakewood on a regular basis to ensure that programs, planning, and policy are effective toward decreasing carbon emissions. Potential future data collection projects include detailed inventories of consumption-based emissions, local government operations, and neighborhood-scale activity and emissions.

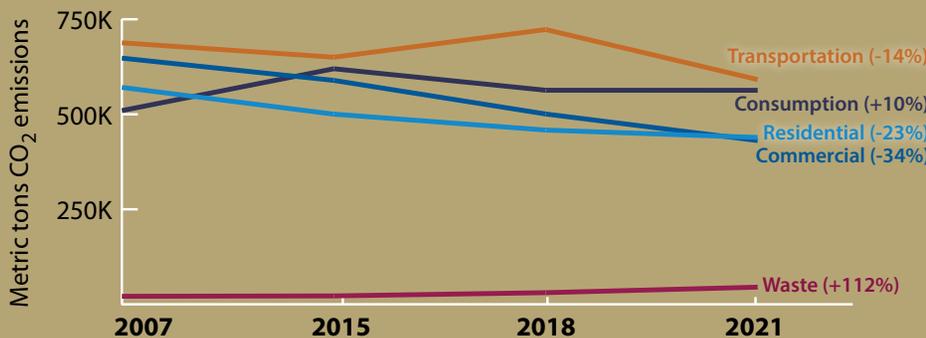
The 2021 Greenhouse Gas Inventory Summary Report can be accessed at Lakewood.org/sustainability.

**LAKEWOOD'S
SCIENCE-BASED
TARGET AIMS TO REDUCE
COMMUNITY EMISSIONS BY
61%
BY 2030, AND TO ACHIEVE
NET ZERO EMISSIONS
BY 2050.**

**OVERALL
EMISSIONS
HAVE DECREASED
15%
BETWEEN 2007
AND 2021**

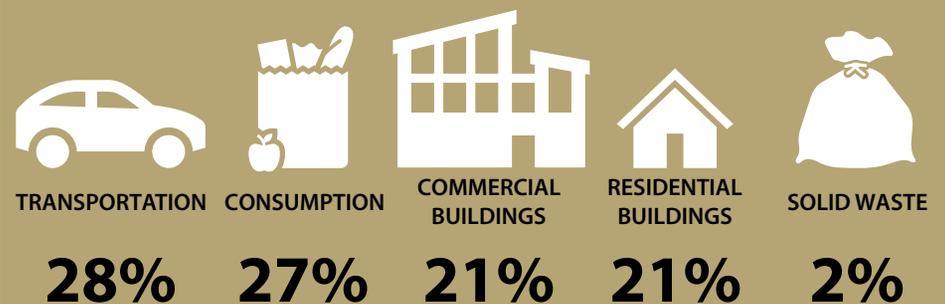
EMISSIONS TRENDS BY SECTOR

Total community wide GHG emissions have decreased since 2007. Looking at emissions by sector shows that buildings are responsible for the greatest decrease in emissions due to the increased use of renewable energy sources in the electricity grid. Transportation and consumption-based emissions have not shown significant decreases in emissions.



2021 GREENHOUSE GAS EMISSIONS BY SECTOR

Buildings are the largest contributors of greenhouse gas (GHG) emissions in Lakewood because of the energy required to operate items like lighting, heating and cooling equipment, and other appliances. Transportation and consumption (such as food, products, and services) are also significant contributors to GHG emissions.



ENERGY, WATER, AND THE BUILT ENVIRONMENT

SUSTAINABILITY PLAN CHAPTER 2

2015 SUSTAINABILITY PLAN GOALS

Ensure affordable energy for Lakewood while transitioning to renewable energy sources.

Significantly enhance resource efficiency in Lakewood buildings.

Encourage development in Lakewood that values the natural environment and supports public health and community cohesion.

RECENT HIGHLIGHTS

- Municipal Renewable Energy Procurement
- Energy Benchmarking and Building Performance Standards Evaluation
- 2021 International Building Codes Adoption

OUTDOOR WATER CONSERVATION PROGRAM

In 2023, the City of Lakewood received grants to create a Residential Outdoor Water Incentive Program. The program included A Garden in a Box, free sprinkler evaluations, and \$500 discounts for lawn removal and replacements.

SUSTAINABLE DEVELOPMENT UPDATES

By the end of 2023, over 60 new development projects and building permits had been reviewed for compliance with Sustainable Development Standards that ensure new buildings are positive investments in the community and align with climate targets.

New development projects include more community-oriented and sustainable site design. These townhomes on South Reed Street include rain gardens for stormwater runoff and a community garden for residents to grow their own food.

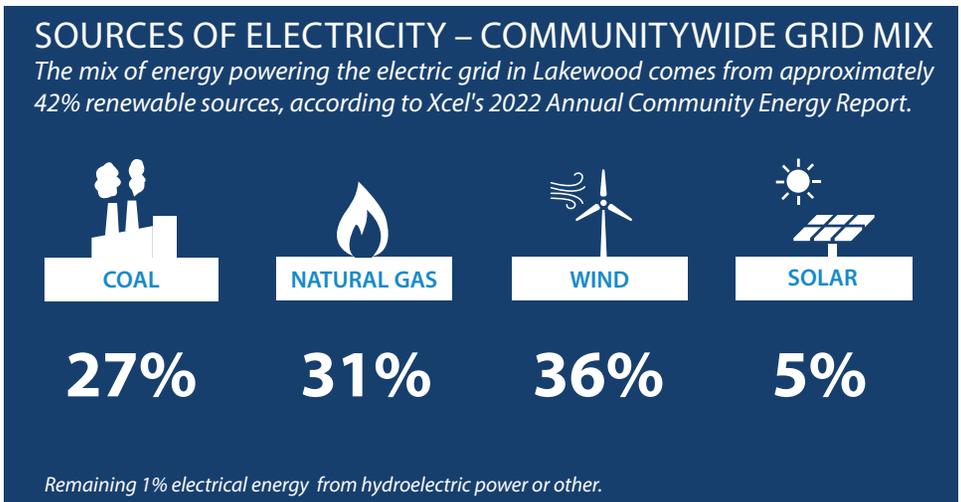
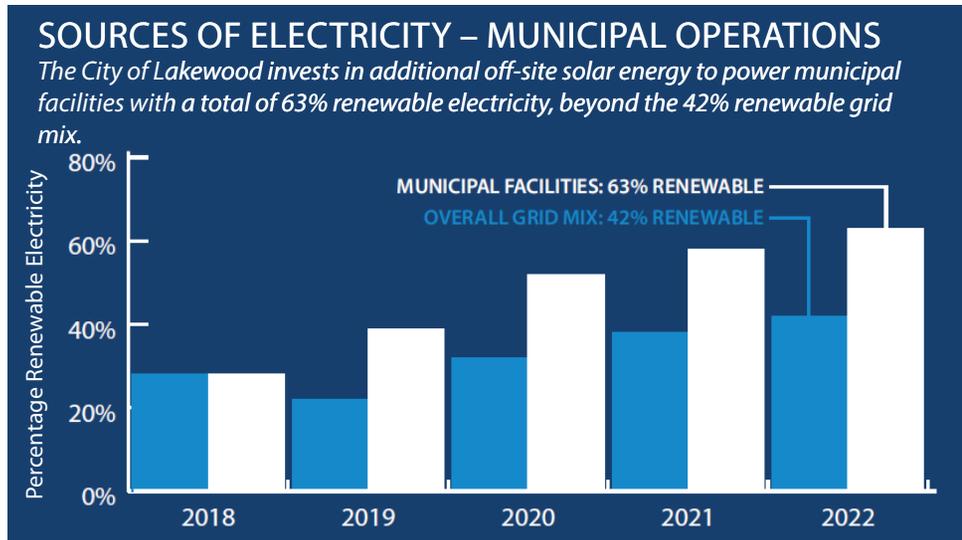
ENERGY, WATER, AND THE BUILT ENVIRONMENT

2023 PROGRESS SNAPSHOT

A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Generate 45% of municipal energy from renewable sources.	12% (2010)	63% (2022)	+51 points		●
Generate 45% of residential energy from renewable sources.	12% (2010)	46% (2022)	+34 points	Data for these three targets only include electric energy. A full assessment has yet to be completed for energy from heating and transportation fuels. Xcel began reporting a Certified Renewable Percentage for its grid mix in 2019.	●
Generate 45% of commercial and industrial energy from renewable sources.	12% (2010)	43% (2022)	+31 points		●
Reduce municipal building and facility energy use intensity (EUI) by 30%.	.124 mmbtu/ft ² (2015)	0.111 mmbtu/ft ² (2022)	- 10%	The baseline value was updated in 2020 to reflect more accurate historical data. EUI decreased from previous years due to increased efficiency and COVID-related reduced building operating hours.	●
Reduce citywide building energy use intensity by 20%.	2,832,699 MWh (2012)	2,928,800 MWh (2022)	+3%	Value represents total citywide building energy use from electricity and natural gas; data is not normalized for weather.	●
Reduce citywide water use by 20%.	8,762,212 kgal (2010)	8,427,899 kgal (2021)	- 4%	Data is weather normalized by Denver Water.	●
Increase the percentage of certified green buildings each year.	6 buildings (2010)	34 buildings (2022)	+28	Values represent cumulative number of LEED certified and Green Globes projects. Commercial citywide building stock is currently unavailable to calculate percentage.	●

● The target is on track ● The target is not on track ● Target not tracked / data unavailable



ENERGY, WATER, AND THE BUILT ENVIRONMENT

2023 PRIORITIES AND PROJECTS

Sustainability staff have been focused on several key initiatives to advance the city's progress towards renewable energy and greater energy efficiency.



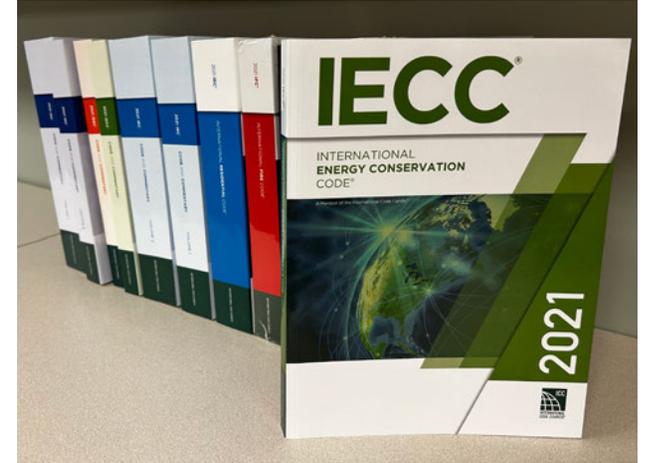
MUNICIPAL RENEWABLE ENERGY PROCUREMENT

Each year, the city purchases more than 2 million kilowatt hours of solar energy to power its facilities and operations, reducing emissions by over 2 million pounds of CO₂. The city participates in off-site solar garden programs, and has completed a feasibility study for on-site solar options at our local facilities. Progress is currently underway to install solar parking canopies at Whitlock Recreation Center.



ENERGY BENCHMARKING AND BUILDING PERFORMANCE STANDARDS EVALUATION

City staff are evaluating an energy benchmarking and performance program to reduce building energy emissions. Energy benchmarking requires the regular monitoring and reporting of a building's energy, which is used to track changes over time and monitor progress towards increased efficiency and decreased emissions. Building performance standards create energy use targets for buildings to meet after a set amount of time.



ADOPTION OF 2021 INTERNATIONAL BUILDING CODES

In 2023, Lakewood adopted the 2021 International Building Codes, with local amendments related to EV readiness, solar readiness, and construction and demolition waste recycling. These are the most energy-efficient codes available, and will help ensure new buildings contribute towards the city's energy goals.

01 RESIDENTIAL OUTDOOR WATER INCENTIVE PROGRAM

In Summer 2023, Lakewood launched its first residential outdoor water incentive program to support citywide water conservation efforts. In partnership with Resource Central, the program provides discounted Garden in a Box kits (pre-assembled “plant by numbers” low-water landscaping plant kits), free sprinkler evaluations with the option to add on a smart controller or rain sensor at no cost, and \$500 discounts for lawn removal and replacement.

The program is supported by two grant awards from the Colorado Water Conservation Board. Additional quantities of each incentive will be available throughout 2024. Participation and water-savings data is being collected and analyzed to help inform future strategies for citywide water conservation. Staff has developed a Residential Outdoor Water Conservation Resource Guide, and a HOA Water Conservation Toolkit is under development to provide additional resources for the Lakewood community.

For additional program information, visit Lakewood.org/OutdoorWater.



Turf removal in Lakewood during summer 2023. Irrigation is one of the highest uses of residential water. Replacing grass with native perennials conserves outdoor water use.

2023 BY THE NUMBERS

Highlights from the summer 2023 residential outdoor water incentive program, in partnership with Resource Central, included discounted low-water pre-planned garden kits, free sprinkler evaluations and optional equipment, and discounts for lawn removal and replacement. The program is projected to save a total of 4.7 million gallons of water in 2023-24.



52

GARDEN-IN-A-BOX
DISCOUNTS



21

TURF
REPLACEMENTS



16,700

SQUARE FEET OF
GRASS REMOVED



62

IRRIGATION
ASSESSMENTS



15

RAIN SENSORS
INSTALLED



15

SMART CONTROLS
INSTALLED

02 ARTICLE 13 SUSTAINABLE DEVELOPMENT UPDATES

Last year marked the first full year of implementation of new sustainable development standards that were adopted into the Lakewood Zoning Ordinance in summer 2022.

These standards are intended to ensure that new development projects are advancing the community's adopted vision and goals from both the Sustainability and Comprehensive plans by enhancing community sustainability, reducing greenhouse gas emissions, and minimizing waste. They consist of three main sections within Article 13 – Sustainable Development:

Enhanced Development Menu: a point-based menu of sustainable site features with community benefits, ranging from renewable energy to public art.

Greenhouse Gas Mitigation Program: a performance standard that aligns estimated emissions from new development with the city's science-based targets. Compliance can be achieved through a combination of high building efficiency; emission mitigation strategies like renewable energy systems, electric vehicle chargers, and recycling and compost collection services; and paying a fee-in-lieu.

Construction & Demolition (C&D) Recycling: supplemental standards that support the existing building code requirement to recycle C&D waste through payment of a deposit prior to permit issuance that is refunded upon successful completion of a compliant waste management plan.

The fees paid in lieu of meeting the sustainable standards, along with forfeited construction recycling deposits, fund a Climate Protection and Sustainability Program that allows Lakewood to offset the impacts of new development through sustainability projects and programs.

By the end of 2023, 32 new development projects had been submitted for review under the updated standards, and 31 building permits for new home construction had been approved. To comply with the requirements, new developments often include sustainable features such as rooftop solar photovoltaic systems, above-code electric vehicle charging stations, water-conserving irrigation practices, and pollinator-friendly landscaping. Projects that could not fully comply through on-site features paid fees-in-lieu into the Climate Protection and Sustainability Fund, which will be used for programs that reduce greenhouse gas emissions in the built environment.

The next phase of sustainable development standards includes Benchmarking and Building Performance Standards to require energy reporting and set goals for retrofitting existing buildings to improve energy efficiency and reduce GHG emissions.

SUSTAINABLE DEVELOPMENT: SUMMARY 2019 THROUGH 2023

The Enhanced Development Menu was first adopted into the Lakewood Zoning Ordinance in 2019 and was updated in 2022 along with a new Greenhouse Gas Mitigation Program. These Sustainable Development Standards had many positive impacts in Lakewood.



84 PERMITS AND PROJECTS*

**31 NEW HOMES MITIGATED GHG EMISSIONS.
53 NEW DEVELOPMENT PROJECTS INCLUDED:**



EFFICIENT OUTDOOR LIGHTING: 26



WATERWISE LANDSCAPES: 25



COMPOST & RECYCLING SERVICE: 21



ABOVE-CODE EV CHARGING: 19



URBAN HEAT ISLAND MITIGATION: 16



BIKE AMENITIES: 15



POLLINATOR-FRIENDLY LANDSCAPE: 10



ALL-ELECTRIC BUILDINGS: 10

* Includes building permits approved and major site plan cases submitted through December 2023. Does not include permits reviewed for C&D recycling.

WHAT DOES SUSTAINABLE DEVELOPMENT MEAN?

FOR LAKEWOOD, SUSTAINABLE DEVELOPMENT MEANS THAT NEW BUILDINGS ARE POSITIVE INVESTMENTS IN THE COMMUNITY BY INCLUDING FEATURES THAT REDUCE GREENHOUSE GAS EMISSIONS, CONSERVE ENERGY AND WATER, MINIMIZE NEGATIVE IMPACTS TO SURROUNDING PROPERTIES, AND FOSTER A SENSE OF COMMUNITY.



SUSTAINABLE ZONING STANDARDS WIN NATIONAL AWARD

Making Lakewood a greener place has led to a national award. In April 2023, the city's recently updated sustainable development standards received an Excellence in Sustainability Award from the Sustainable Communities Division of the American Planning Association.



SUSTAINABLE FEATURES IN NEW DEVELOPMENT PROJECTS

New projects subject to the Sustainable Development Standards often include features like on-site renewable energy, community garden space, recycling and compost collection services, and additional EV chargers beyond minimum code requirements.

SUSTAINABLE ECONOMY

SUSTAINABILITY PLAN CHAPTER 3

2015 SUSTAINABILITY PLAN GOALS

Cultivate a sustainable, prosperous and self-reliant local economy.

Foster self-sufficiency and upward mobility of Lakewood households.

RECENT HIGHLIGHTS

- Energy Efficiency Business Walks
- Low-Income Energy Resources
- Colorado C-PACE Funding

MAPPING LOCAL FOOD ACCESS

Lakewood residents are growing initiatives for food access in their community. Check out the map in this section to see where local food exists in your neighborhood!

BENEFITS OF THE INFLATION REDUCTION ACT

The Inflation Reduction Act (IRA) is federal legislation passed in 2022, which includes many incentives for businesses and homeowners to invest in green buildings.

As part of the Partners in Energy program, Sustainability staff and energy efficiency technicians visited local businesses including El Palenque to assess what improvements could help save money on utility costs.

SUSTAINABLE ECONOMY

2023 PROGRESS SNAPSHOT

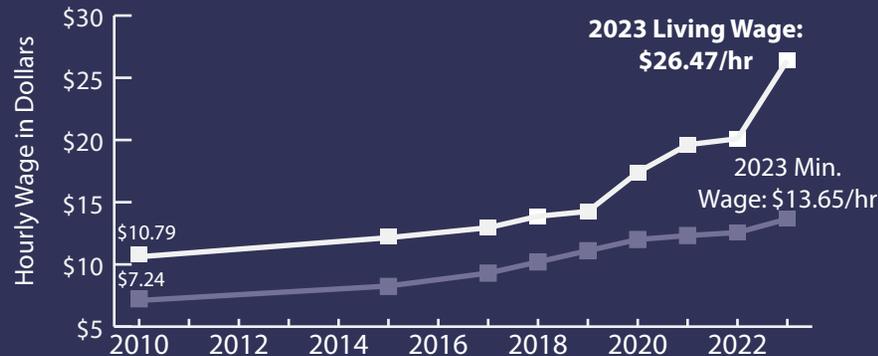
A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Increase local food assets annually.	37 (2015)	53 (2023)	+43%	Includes community gardens, farms, Community Supported Agriculture sites, and farmers' markets.	●
Increase the percentage of households in CDBG qualified neighborhoods spending less than 45% of income on housing and transportation costs to 60%.	24,399 households (92%)	N/A	N/A	Due to challenges with data assumptions and lack of consistent methodology, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.	●
Increase number of households above Living Wage Standard by 15%.	32,843 53% of households (2010)	33,921 50% of households (2023)	-3 points	Methodology based on the Living Wage for a single person multiplied by the average household size utilizing data from the MIT Living Wage Calculator and American Community Survey. The Living Wage includes mostly prior year expenses inflated to first quarter current year values.	●

● The target is on track ● The target is not on track ● Target not tracked / data unavailable

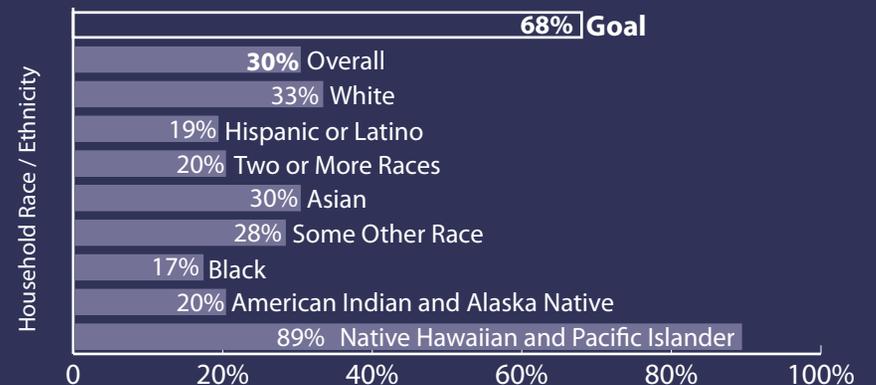
DENVER-AURORA-LAKEWOOD LIVING WAGE (Q1 2023) VS. COLORADO MINIMUM WAGE (JAN. 1, 2023)

The hourly wage necessary to meet basic needs like housing, food, and childcare for a typical Lakewood household increased over \$6 per hour from 2022.



% HOUSEHOLDS EARNING LIVING WAGE¹ BY RACE

Based on primarily 2022 data sources, costs of living in Lakewood have increased to the point that less than a third of households in Lakewood earn a Living Wage.



¹Methodology sourced from STAR Community Rating System Technical Guide.

SUSTAINABLE ECONOMY

2023 PRIORITIES AND PROJECTS

Sustainability staff have been focused on several key initiatives to promote energy efficiency with local businesses.



SMALL BUSINESS ENERGY ASSESSMENTS

Division staff launched a small business energy efficiency campaign in 2021, in partnership with Xcel Energy's Partners in Energy program. Since then, staff and volunteers have visited over 350 local businesses across Lakewood to give information about free energy assessments and LED lighting upgrades to help business owners save energy and utility bill costs. This program has resulted in helping Lakewood businesses save more than 2 million kilowatt hours of electricity and reducing 2 million pounds of carbon emissions each year.

INCOME-QUALIFIED RESOURCE GUIDE

In 2022, staff created an Income-Qualified Resource Guide to provide a summary of free energy and water programs available to low and moderate income-qualified households in Lakewood. The guide was created in partnership with Xcel Energy's Partners in Energy program and will be updated regularly. Access the guide online in English and Spanish at [Lakewood.org/PartnersinEnergy](https://lakewood.org/PartnersinEnergy).

COLORADO C-PACE

The Colorado Commercial Property Assessed Clean Energy (C-PACE) program was enacted in 2014 as an initiative of the New Energy Improvement District. It enables owners of eligible commercial and industrial buildings to finance up to 100 percent of eligible energy efficiency, renewable energy, and water conservation improvements. Repayment terms can be up to 25 years. For more information on how to involve your business, visit the C-PACE website at copace.com.

01 MAPPING LOCAL FOOD ACCESS

Lakewood has a long agricultural history of fruit orchards and ranching. This tradition has evolved and continues today in small-scale urban farms, community gardens, farmers' markets, and pickup locations for community-supported agriculture (CSAs). Local zoning also allows for various local food uses like horticulture, backyard chickens, beehives, and individual farm stands. These types of uses have increased in recent years as interest in local food has grown. This map shows a handful of the local food uses that are available to the Lakewood community.

Do you know of other great local farms or markets? Let us know! Email sustainability@lakewood.org with name, location, and link to more information.

LAKWOOD HAS
23
COMMUNITY GARDENS
AND URBAN FARMS.

- Legend**
-  Farmers' Market
 -  Community Supported Agriculture (CSA) pickup
 -  Urban Farm and/or CSA
 -  Community Garden



02 BENEFITS OF THE INFLATION REDUCTION ACT

The Inflation Reduction Act (IRA) was signed into law in 2022 to provide a historic amount of funding, \$369 billion, to support climate and clean energy investments. The funding comes in the form of grants, loans, and tax incentives. The law also advances a federal commitment to delivering at least 40 percent of the overall climate and infrastructure from the IRA to disadvantaged communities. According to the World Resources Institute, GHG reductions resulting from the IRA are expected to reach 32 percent to 44 percent by 2030 compared to 2005 levels.

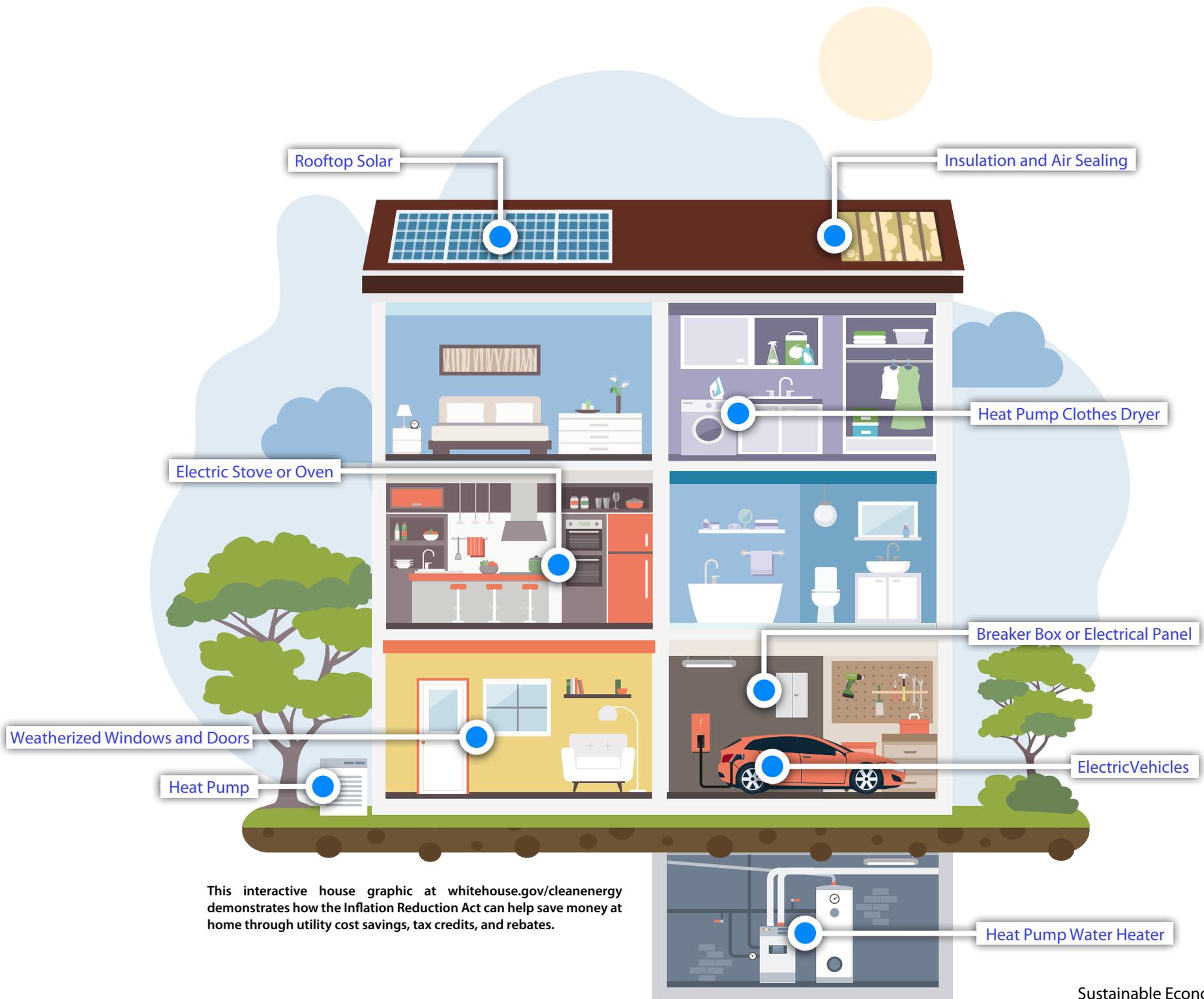
For residential households, the IRA provides incentives related to home weatherization and efficiency upgrades, installation of new electric appliances and space heating and cooling equipment, electric vehicles and rooftop solar systems. Several of these incentives are available now in the form of federal tax credits (i.e. your tax bill will be reduced dollar for dollar), some of which are

income limited. Some of the tax credits include \$7,500 for new eligible electric vehicles (in 2024 this turned into a point-of-sale rebate), 30 percent for rooftop solar installation, 30 percent of the cost up to \$150 for a home energy audit, and a maximum of \$600 toward electrical panel upgrades when installing selected energy efficient appliances like heat pumps.

The Colorado Energy Office (CEO) will receive \$140 million to administer consumer home energy rebate programs; the CEO was still waiting on review and approval from the federal government on program administration and funding distribution at the time of this publication. These rebates will provide eligible Coloradans with upfront discounts on home and building energy upgrade purchases. The Home Efficiency Rebates (HOMES) program is designed for energy efficiency upgrades in large multifamily buildings and manufactured homes, while the Home Electrification and Appliance Rebate

(HEAR) program is for homes and multifamily buildings that are upgrading equipment and appliances and will be available to Coloradans with a household income below 150 percent of area median income.

Many of these rebate opportunities can be stacked with incentives provided by Xcel Energy, available on Xcel's Colorado website co.my.xcelenergy.com. Rewiring America, a nonprofit focused on building electrification, created an IRA Savings Calculator that customizes federal savings from the IRA based on selected household information, available at rewiringamerica.org. Staff is working with community partners to create a resource that will guide consumers on all rebate opportunities, as well as technical and contractor information that will assist residents with upgrading their homes and reducing their GHG emissions.



This interactive house graphic at [whitehouse.gov/cleanenergy](https://www.whitehouse.gov/cleanenergy) demonstrates how the Inflation Reduction Act can help save money at home through utility cost savings, tax credits, and rebates.

ZERO WASTE

SUSTAINABILITY PLAN CHAPTER 4



Lakewood employees collected hundreds of plastic bags for recycling in 2018. These types of bags are easily windblown and pollute drainageways and wildlife habitat. Carryout bags are among the plastics that will be banned in Colorado starting in 2024.

2015 SUSTAINABILITY PLAN GOALS

Create a culture of zero waste in Lakewood through education, municipal operations, infrastructure and services.

Foster sustainable household waste management.

Foster sustainable commercial waste management.

RECENT HIGHLIGHTS

- Construction and Demolition Waste Updates
- Regional Construction and Demolition Waste Collaboration
- Citywide Recycling Efforts

REDUCING PLASTIC WASTE IN COLORADO

Implementation of the Plastic Pollution Reduction Act (HB 21-1162) began in 2023 with a 10-cent fee on carry out bags at stores and restaurants. Lakewood distributed 20,000 reusable bags to help ease the burden on residents. Beginning in 2024, a portion of the fee paid will be remitted to local governments to help fund waste reduction programs.

CONTAMINATION IN COMPOST

The proliferation of compostable serviceware and packaging resulted in a material imbalance at a major Denver composting facility. To "reset" its operation, the facility now only accepts food scraps and yard waste. Lakewood municipal facilities have adjusted in response.

ZERO WASTE

2023 PROGRESS SNAPSHOT

A full list of metrics can be found in Appendix A.

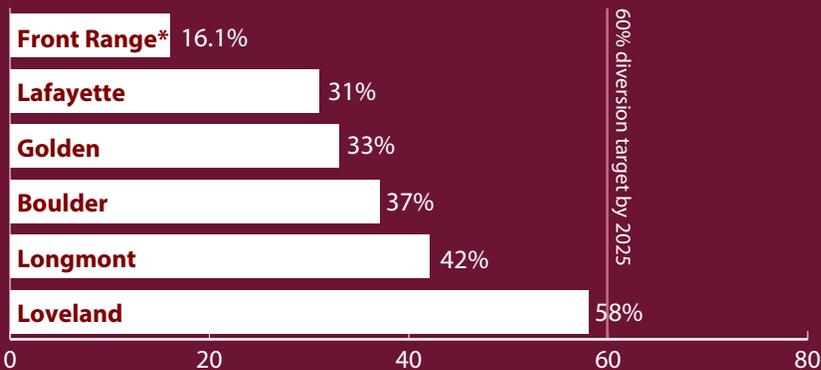
2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Achieve a 60% communitywide diversion rate.	9% (2010)	16% (2022)	+7 points	Baseline based on statewide total Municipal Solid Waste (MSW); current year based on Front Range region total MSW. Metric includes commercial and residential waste. Residential waste alone is estimated at a 10% diversion rate.	●
Achieve an 80% diversion rate at the Civic Center.	68,433 lbs (2018)	28,836 lbs* (2021)	N/A*	Metrics reported include pounds recycled and composted. Diversion rate not available. 2023 data for individual facilities not available due to change in hauler reporting.	●
Achieve increased diversion rates for specific municipal facilities.	11th Ave: 6,192 lbs Patterson: 7,392 lbs Daniels: 5,285 lbs Lasley: 2,460 lbs	11th Ave: 2,174 lbs* Patterson: 1,951 lbs* Daniels: 0 lbs* Lasley: 1,313 lbs*	N/A*	Head Start classrooms were selected due to their recent zero waste program launch and youth impact. Metrics reported include pounds recycled and composted. Diversion rate not available. 2023 data for individual facilities not available due to change in hauler reporting.	●
Achieve a 90% diversion rate at City of Lakewood Earth Day and Cider Days events.	Cider Days: 87% Earth Day: 80%	Cider Days: N/A Earth Day: 91%	Cider Days: N/A Earth Day: +11 points	Cider Days waste data not available for 2023 due to change in hauler.	●

● The target is on track ● The target is not on track ● Target not tracked / data unavailable

* Pounds of waste generated and diverted was significantly impacted by facility closures and service interruptions due to COVID-19. Percent change from baseline not calculated.

HOW DO CITIES STACK UP ON WASTE DIVERSION?

The highest residential diversion rates of Front Range communities as reported by EcoCycle in 2022 fall short of Lakewood's 60% target, but far exceed the region overall.



* represents the total diversion of the Front Range region, including Lakewood.

WHAT DO DIVERSION LEADERS HAVE IN COMMON?

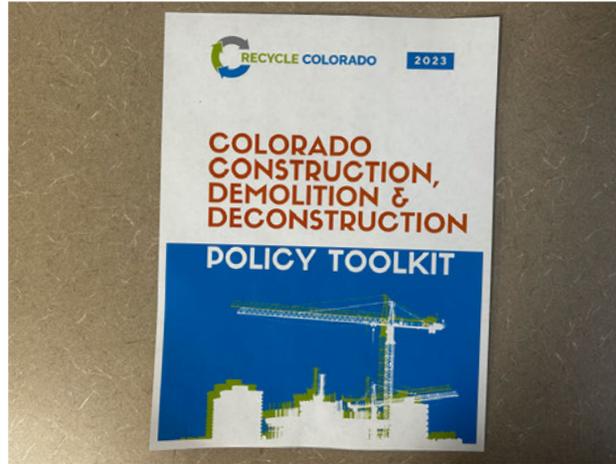
According to EcoCycle's State of Recycling and Composting in Colorado 2022 report, there are five common elements of successful waste diversion programs:

- ✓ Universal curbside recycling for residents.
- ✓ Volume-based pricing for trash (Pay-As-You-Throw).
- ✓ Drop-off centers or curbside programs for food and/or yard waste.
- ✓ Strong education programs for residents and businesses.
- ✓ Dedicated staff and funding for waste diversion infrastructure, services, and programs.

ZERO WASTE

2023 PRIORITIES AND PROJECTS

Sustainability staff have been targeting Construction & Demolition (C&D) and organics streams to advance the city's goals for waste reduction and to promote a circular economy.



LAKWOOD CONSTRUCTION AND DEMOLITION WASTE UPDATES

Lakewood first adopted construction and demolition (C&D) recycling standards in 2018, which require that concrete, asphalt, metal, untreated wood, cardboard, and salvageable materials are recycled rather than dumped at landfills. Throughout 2023, staff worked on several ways to streamline the permitting process and increase diversion, including preparing to implement a performance deposit system with refund upon successful compliance with the recycling standards.

REGIONAL CONSTRUCTION AND DEMOLITION WASTE COLLABORATION

In 2023, Recycle Colorado, a nonprofit focused on the circular economy, developed a construction, demolition, and deconstruction policy toolkit. Lakewood staff assisted in drafting the toolkit and have helped present and promote the toolkit as a member of the Recycle Colorado C&D Council. The toolkit can assist local government staff and policymakers in developing diversion programs for construction and demolition waste. This toolkit and other zero waste resources can be found on Recycle Colorado's website, recyclecolorado.org.

YARD WASTE RECYCLING EFFORTS

The City of Lakewood offers free leaf composting and Christmas tree recycling drop-offs in fall and winter. The Community Resources Department estimated that in 2023 it collected 3,500 cubic yards of leaves and recycled 1,500 Christmas trees. The leaves and trees are reused as mulch and groundcover in Lakewood parks, and mulch is also available for Lakewood residents to pick up at the city greenhouse. Leaf recycling will be offered again in 2024; details are available at Lakewood.org/LeafRecycling. Jefferson County also opened a slash collection site for tree branches, woody brush, and stumps at the Tincup Ridge Slash Yard. Get full details about slash collection locations at jeffco.us.

01 REDUCING PLASTIC WASTE IN COLORADO

In an effort to reduce the millions of single-use bags wasted each year, the Colorado legislature passed a new state law (HB 21-1162), which went into effect January 1, 2023, known as the Plastic Pollution Reduction Act (PPRA). This law requires covered businesses to charge a 10-cent fee for each single-use plastic or paper carryout bag used by customers. Sixty percent, or six cents of each fee paid, is earmarked to support municipal waste diversion programs; the remainder is kept by the retailer. Customers can avoid the fee by bringing their own reusable bag. Lakewood is excited about local implementation of this law because it signals to the community that the most effective way to address plastic waste is to reduce it. When implemented widely, this law will reduce litter and microplastic pollution, protect our waterways, and reduce threats to wildlife.

The city used funding to purchase reusable bags made from 80% recycled content and involved residents through a bag design contest. The bags were first distributed to residents at the 2023 Earth Day Celebration, Rockin' Block Party, Sustainable Neighborhood events, recreation centers, Clements Community Center, and the City Clerk's Office.

As of January 1, 2024, plastic bags can no longer be offered at covered retailers, and the ban will extend to another problem material: styrofoam take-out containers. Find more information about the PPRA at LakewoodTogether.org/FreeBags.

OF ALL WASTE DISPOSED
IN URBAN COUNTIES IN
COLORADO,
4.2%
IS PLASTIC BAGS!



The Plastic Pollution Reduction Act (HB 21-1162) takes a phased approach to reducing single-use plastics for carry-out bags and food containers. For each bag fee paid, the city will receive 6 cents for additional waste diversion strategies.

02 CONTAMINATION CAUSES LIMITS TO COMPOST COLLECTION

In 2023, one of the largest commercial composting facilities in the Denver metro region, A1 Organics, stopped accepting certified compostable products like packaging and serveware. Since compostable products are not always distinguishable from non-compostable counterparts, this change will better control for contamination ending up in finished compost. To address this issue at the state level, Colorado also passed the Compost Product Labeling Act (SB23-253), which sets standards for how compostable products should be marketed and designed.

A1 Organics' decision will also help restore the balance of materials at its facility. The composting process requires a delicate balance of "green" and "brown" materials in order to yield a high-quality and nutrient-rich compost product. "Greens" primarily include fresh high-nitrogen materials, such as food scraps and grass clippings, and "browns" include materials high in carbon, such as wood and dry leaves. While compostable products like packaging, serveware, napkins, and greasy pizza boxes can break down in industrial compost facilities, they do not add nutrient value, and large quantities can disrupt the fragile microbial process.

At the city level, Lakewood's municipal facilities adjusted the internal Zero Waste Program to prevent contamination. Division staff coordinated with other departments to update signage throughout facilities participating in organics collection. Local compost collection companies were contracted to haul organic waste generated at the annual Earth Day Celebrations and provide day-of community composting education. The Earth Day events had diversion rates over 90 percent.

Learn more about how to prevent contamination on Recycle Colorado's website, recyclecolorado.org/compost-contamination.

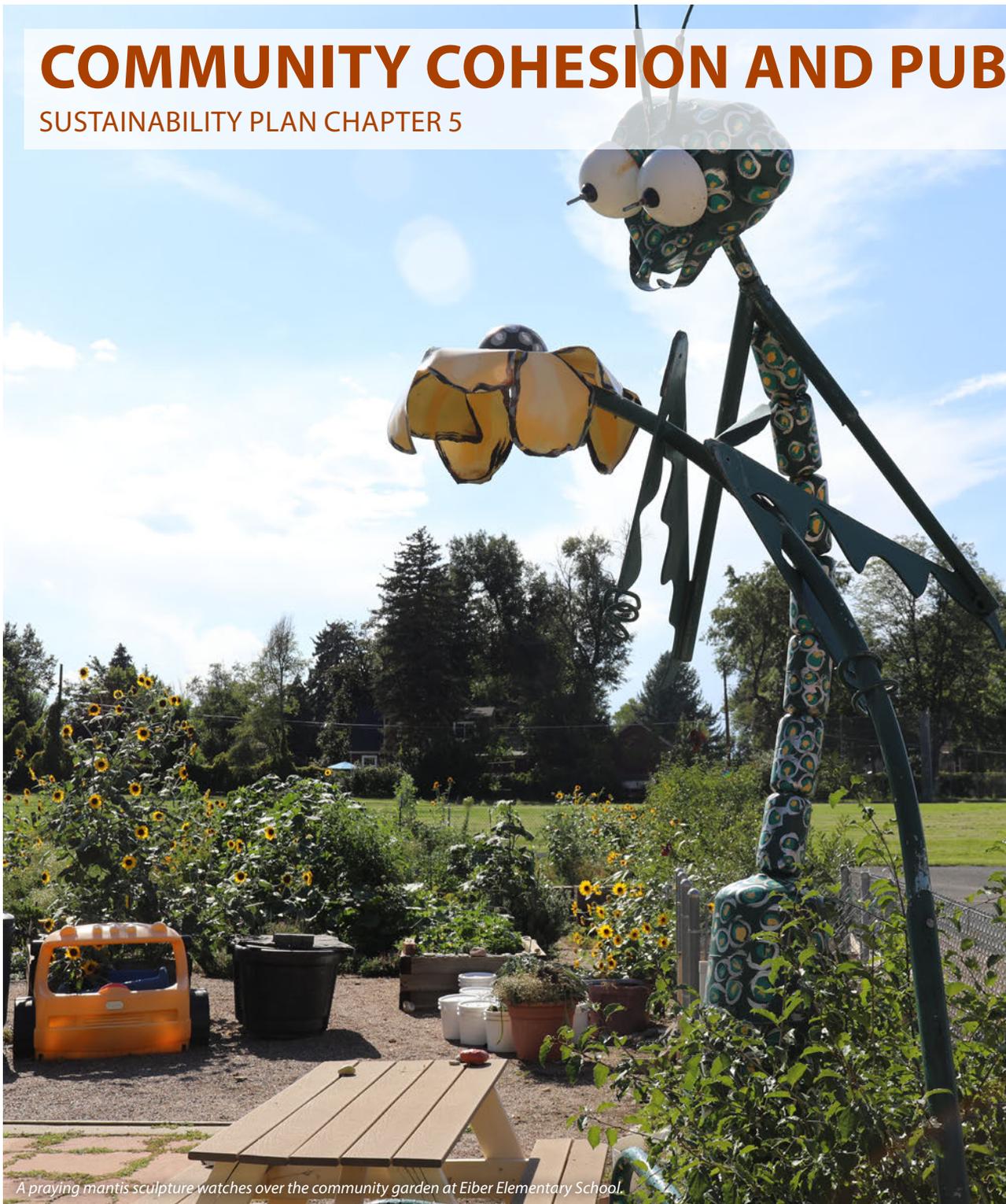




All compost piles, including at this industrial facility in Eaton, require a balance of useful materials to properly decompose into a high-quality and nutrient-rich product.

COMMUNITY COHESION AND PUBLIC HEALTH

SUSTAINABILITY PLAN CHAPTER 5



A praying mantis sculpture watches over the community garden at Eiber Elementary School.

2015 SUSTAINABILITY PLAN GOALS

Strengthen community cohesion, increase civic participation and celebrate diversity.

Promote physical well-being through healthy eating and active living.

Promote social equity and provide strong supportive services.

RECENT HIGHLIGHTS

- Sustainable Neighborhoods Program Recognition Event
- Sustainable Neighborhood Relaunches
- Envision Lakewood 2040: Comprehensive Plan Update
- 40 West Artline Plan and Design Guidelines

SUSTAINABLE NEIGHBORHOODS

The Sustainable Neighborhoods had another fun-filled and action-packed year! Learn more about community events on page 34 and 35 and in Appendix C.

EARTH DAY 2023

A little bit of snow didn't stop Lakewood residents from celebrating Earth Day in 2023. The festival was a huge success with live animals, educational booths, music and more.

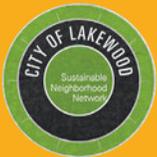
COMMUNITY COHESION AND PUBLIC HEALTH

2023 PROGRESS SNAPSHOT

A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Increase the percentage of residents reporting “good” or “very good” satisfaction ratings for Lakewood’s efforts in welcoming citizen involvement as reported in the City of Lakewood Community Survey to 60%.	57% (2010)	34% (2022)	-23 points	Data from 2022 City of Lakewood Community Survey; surveys are conducted every few years.	●
Increase resident subscriptions to the city communication tools each year.	31,251 (2015)	153,283 (2023)	+390%	Residents may subscribe to more than one newsletter and thus be double counted; some subscribers may not be Lakewood residents.	●
Certify 12 neighborhoods as Outstanding Sustainable Neighborhoods in the Sustainable Neighborhoods Program.	2 (2013)	8 (2023)	+6	The program began in 2012; the baseline reflects the program’s first full year. Ten neighborhoods currently participate; eight achieved “Outstanding” status. Additional resources will be necessary to continue program expansion.	●
Increase recreation program participation each year.	352,000 (2010)	336,562 (2022)	0.3%	Includes number of visits to city recreation facilities.	●
Eliminate USDA-defined food deserts in Lakewood.	6 (2015)	2 (2022)	-67%	Food deserts are defined within census tract boundaries.	●

● The target is on track ● The target is not on track ● Target not tracked / data unavailable



SUSTAINABLE NEIGHBORHOODS PROGRAM UPDATES

Participation highlights from the June 2022 – May 2023 program year. Complete details can be found in Appendix C (page 79).

HOT TOPICS AND TRENDS:



WASTE REDUCTION
AND COMPOSTING



COMMUNITY
PARTNERSHIPS



GARDENING AND
FOOD ACCESS



67
EVENTS & PROJECTS



15
WORKSHOPS



4
CLUB GROUPS

7,454 RESIDENTS ENGAGED IN:

COMMUNITY COHESION AND PUBLIC HEALTH

2023 PRIORITIES AND PROJECTS

Sustainability staff have been focused on several key initiatives to bring people together and promote social resilience.



SUSTAINABLE NEIGHBORHOOD APPRECIATION NIGHT

In fall 2023, we held a recognition celebration to say thank you to the Sustainable Neighborhood volunteer leaders for all of their hard work, great ideas, and commitment to making a difference. Everyone enjoyed good food and making connections with other neighborhood leaders. A highlight of the event was a photo slideshow highlighting a few of the great projects and activities that the neighborhoods have worked on over the years.



SUSTAINABLE NEIGHBORHOOD RELAUNCHES

Four of the Sustainable Neighborhoods relaunched in summer 2023. The Southern Gables, Morse Park, O'Kane Park, and Belmar neighborhoods hosted events to invite new members and get their neighborhoods reinvigorated in the program. For more information about getting involved in the sustainable neighborhoods program, visit the Sustainable Neighborhoods program at Lakewood.org/SustainableNeighborhoods.



40 WEST ARTLINE PLANNING EFFORTS

On December 6, 2023, Lakewood Planning Commission unanimously adopted the 40 West Artline Framework Plan and Design Guidelines & Standards. This planning process created an implementation framework for the 4-mile outdoor art experience and established design guidelines for a unique, attractive, and consistent public realm experience throughout the district. Visit LakewoodTogether.org/40WestArtLine to learn more.

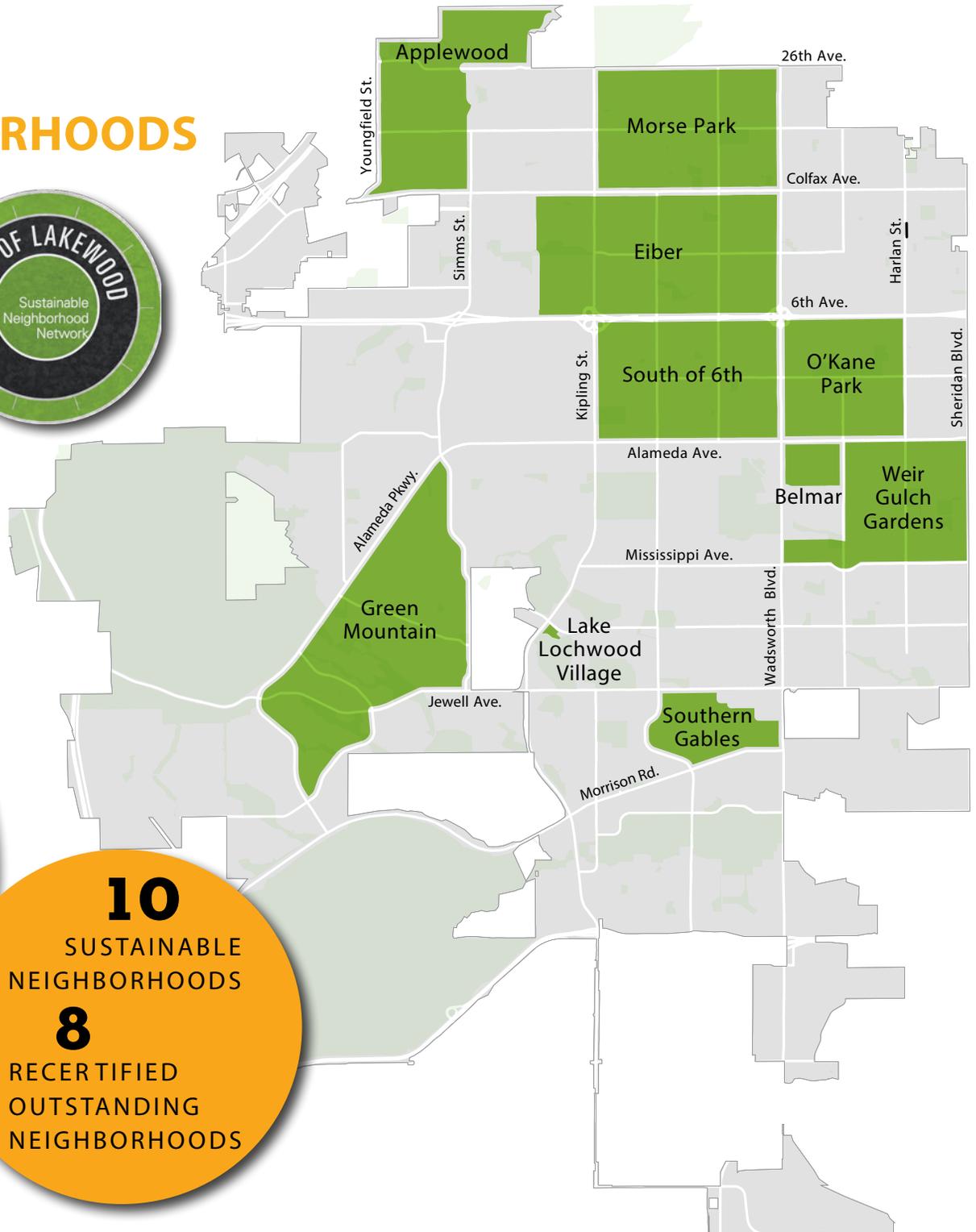


ENVISION LAKEWOOD 2040: COMPREHENSIVE PLAN UPDATE

Lakewood is embarking on an exciting process to update the city's Comprehensive Plan, which is an important document and tool to guide long-range growth and development in the city that ultimately impacts quality of life in the community. The plan is used by staff, City Council, Planning Commission, and other boards and commissions to inform decision-making on land use, transportation, sustainability, housing, infrastructure development, and more. Check out the project page at Lakewood.org/EnvisionLakewood2040 to learn more.

01 SUSTAINABLE NEIGHBORHOODS

The Sustainable Neighborhoods Program continues its successful journey in bringing together community members excited about improving their neighborhood's sustainability. The program began in 2012 and has since grown to include 10 neighborhoods in Lakewood. The Sustainable Neighborhoods touch all parts of sustainability. Their events range from booths at neighborhood block parties to farm tours to bike rides and more. The greatest number of events for 2022-2023 revolved around gardening and food access, community partnerships, and waste reduction. The program's success could not exist without our dedicated Sustainable Neighborhood leaders and volunteers!



SUSTAINABLE NEIGHBORHOODS CLEANUP

Throughout 2022-2023, Belmar, Eiber, Morse Park, South of 6th, and Weir Gulch Gardens participated in community cleanups. From streets to parks, they diverted hundreds of pounds of waste from our environment.

10
SUSTAINABLE
NEIGHBORHOODS

8
RECERTIFIED
OUTSTANDING
NEIGHBORHOODS

OVER
7,400
 LAKEWOOD RESIDENTS
 ENGAGED IN
86
 WORKSHOPS, EVENTS
 AND PROJECTS



GREEN MOUNTAIN COMPOSTS PUMPKINS!
 Green Mountain held its third annual Pumpkin Composting Event in November 2022. Over 1,000 pumpkins were collected, which were used for compost, pies and more!

OVER
34,000
 POUNDS OF PAINT
 DIVERTED FROM
 LANDFILLS



CITY WIDE PAINT RECYCLING IS A HUGE SUCCESS
 Volunteers from Applewood, Morse Park, Eiber, O'Kane Park, Lake Lochwood Village, Southern Gables, and Green Mountain hosted a citywide paint recycling event in October 2022.



CREATING LOCAL FOOD ACCESS IN LAKEWOOD
 Between urban farming, seedling swaps, and garden tours, the Sustainable Neighborhoods were busy creating accessible food options to Lakewood. The photo above shows art done by JeffCo Open school students on SoCliff Farms in Eiber.

02 EARTH DAY CELEBRATION 2023



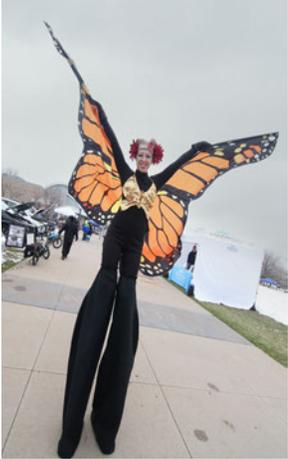
Earth Day
Lakewood, CO
April 22, 2023

Despite the snow, the 2023 Earth Day Celebration had 1,100 attendees. Visitors enjoyed food trucks, art stations, local vendors, a bike valet and more. Local bands played at the celebration until 7p.m. for folks who stayed long enough to see the sun come out.

The Earth Day planning committee worked hard to keep the spirit of Earth Day alive through educational opportunities at the celebration. It included nature walks, an electric transportation hub, live animal demonstrations and vendor-run booths, and culminated with the interactive second annual Parade of Species. Sustainable Neighborhoods volunteers hosted the Sustainable Yard to inform guests about their events and work in the community. Compost Colorado partnered to help with the event's zero-waste initiative. The 2023 Earth Day's diversion rate was 91 percent. This means that 91 percent of material that could have gone to the landfill was composted or recycled instead. Giveaways included free LED lightbulb kits, toilet tabs to detect leaks, and reusable shopping bags. This event helps the city reach its sustainability goals by educating residents about best practices for making our community more eco-friendly!

A special thanks to the sponsors, vendors and over 150 volunteers who make each Earth Day Celebration possible. Check the event webpage Lakewood.org/EarthDay for upcoming event details.





NATURAL SYSTEMS

SUSTAINABILITY PLAN CHAPTER 6



A view of the Front Range from the Ute Trail Community Garden
in Lakewood's Green Mountain Neighborhood

2015 SUSTAINABILITY PLAN GOALS

Mitigate the negative effects of the built environment and human behavior on Lakewood's natural systems to ensure biodiversity and enhance ecosystem services.

Enhance Lakewood's resilience to the impacts of climate change using green infrastructure and ecosystem-based adaptation.

RECENT HIGHLIGHTS

- Expansion of the Bee Safe Program
- New parkland additions and improvements, including Peak View Park

LAKWOOD'S URBAN FOREST

In an effort to provide habitats for wildlife and expand shade and carbon sinks in the city, Lakewood's Forestry Division has been hard at work expanding our urban forest. Check out different events and efforts from 2022-2023 in the following pages.

NATURAL SYSTEMS

2023 PROGRESS SNAPSHOT

A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Ensure that all waters within Lakewood meet or exceed the Colorado Department of Public Health & Environment's Water Quality Standards for the uses assigned.	1 body of water impaired (2015)	2 bodies of water impaired (2020)	100%	Bear Creek Reservoir is regularly monitored for phosphorus (P) and chlorophyll a (Chl-a) levels that might exceed the existing requirements. All designated reservoir uses are currently being met. The known nutrient impairment will continue to be managed by Lakewood staff and the Bear Creek Watershed Association. One segment of Bear Creek from Kipling Pkwy. to Wadsworth Blvd. was added in 2021 due to CDPHE lowering the water quality standard for arsenic.	-
Achieve 30% tree canopy coverage.	7.8% (2011)	16% (2020)	N/A	Baseline established with i-Tree landscape tool using 2011 NLCD data. Current figure is from DRCOG's Land Use Land Cover (LULC) data. Percent change not reported due to differing data sources.	-

● The target is on track
 ● The target is not on track
 ● Target not tracked / data unavailable

LAKWOOD'S URBAN TREE CANOPY

In 2022, the Forestry Division completed an assessment of the city's urban forest to help focus tree planting efforts in areas with the greatest need and tree preservation efforts where the canopy is thriving. The assessment compared data from the 2011 and 2019 USDA National Agriculture Imagery Program (NAIP) to better understand the existing tree canopy coverage, possible planting areas, distribution of trees across the city, and how the distribution has changed over time. It also quantified economic benefits of a healthy urban forest.



16%
TREE CANOPY
COVERAGE



\$2M
ANNUAL
COMMUNIT
Y BENEFITS



625K
TREES



2,181 tons
CARBON
SEQUESTERED
ANNUALLY



82K tons
CARBON STORAGE



26%
POSSIBLE
PLANTING AREA

NATURAL SYSTEMS

2023 PRIORITIES AND PROJECTS

Lakewood continues to enhance and protect the natural environment.



BEE SAFE PROGRAM EXPANSION

The Bee Safe program was brought to Lakewood in 2015 by Sustainable Eiber. Since then it has expanded to include 210 pledges from Lakewood residents. This program requires members to not use pesticides and encourages pollinator-friendly planting. Learn more about the Bee Safe Program from the Sustainable Neighborhood Network at SustainableNeighborhoodNetwork.org.



BIG ADDITIONS TO PARKLAND

Since 2018, Lakewood has added 192 acres of parkland, which helps mitigate human impacts on the environment, and invested in major improvements to enhance access to natural areas. This included trail updates in the Bear Creek Greenbelt (pictured above) completed in late 2023 and the highly anticipated opening of the 60-acre Peak View Park (pictured at right) in July 2023. As a passive-use open space, Peak View Park preserves much of the native landscape and features trails and paths to visit three overlook spots with spectacular mountain views.



Peak View Park has over 1.5 miles of trails along two main loops, including a fully paved inner loop and a natural surface outer loop. Multiple overlooks feature beautiful mountain views toward the south.

01 LAKEWOOD'S URBAN FOREST

Urban forests are essential for many reasons. They provide wildlife habitat and foster biodiversity, which fosters local ecosystem health. Tree canopies shade buildings in summer, providing natural cooling and reducing energy costs. The shade also cools pavement and protects people from direct sun, which help reduce health risks from heat and sunburn. Trees also act as carbon sinks, each absorbing and storing several tons of carbon dioxide from the atmosphere each year.

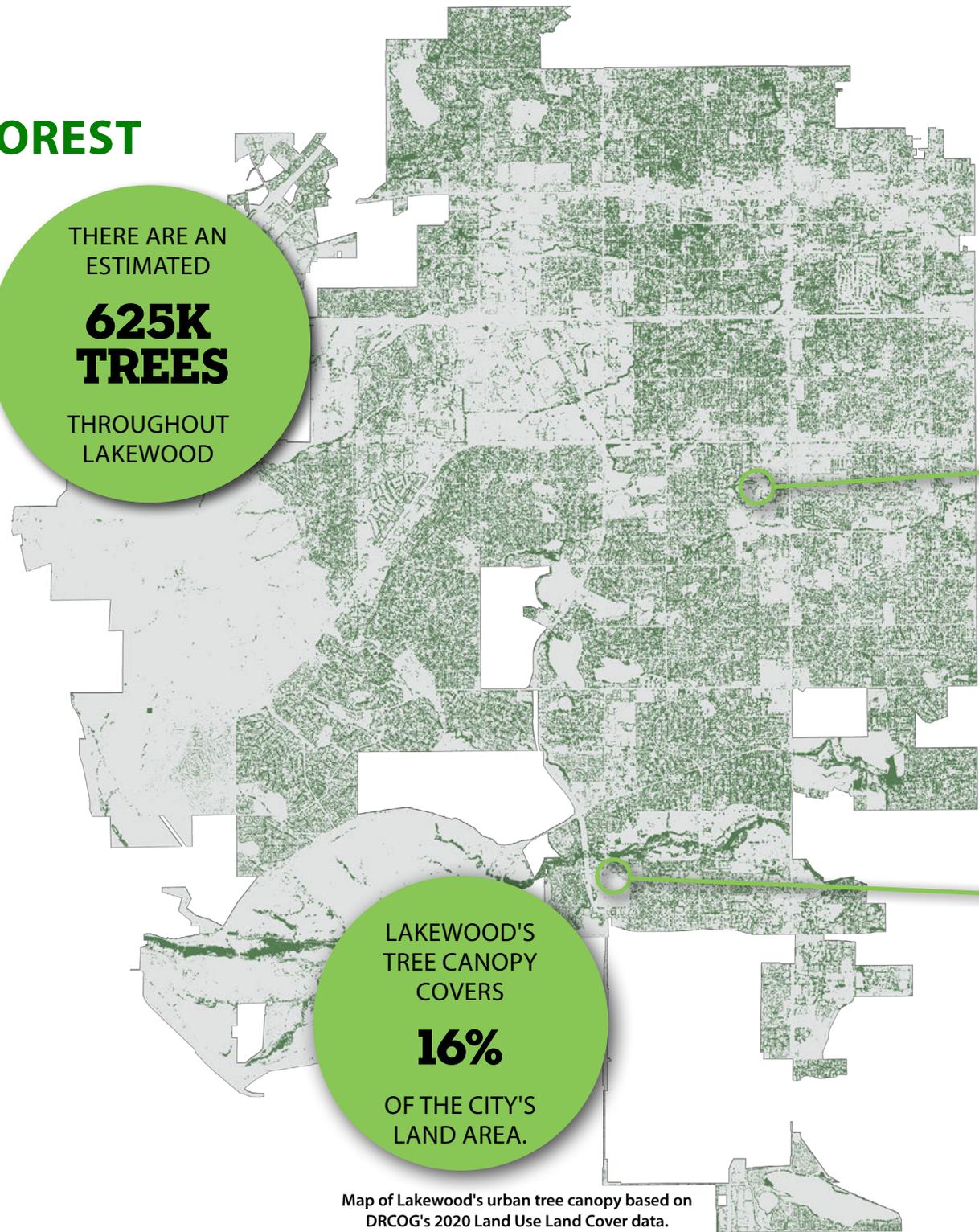
Lakewood has long been recognized for its extensive park system and miles of urban forests lining city streets. In fact, the city has over 43,000 trees in its parks and along streets alone. This hasn't stopped the city from continuing to make diligent efforts to increase the urban tree canopy and protect native habitats throughout 2023.

Community Resources staff recycled lodgepole pine trunks from Jefferson County Open Space as new habitat for double-crested cormorants at Belmar Park. The trunks were installed on the island in Kountze Lake while it was frozen over. Each trunk includes assembled wooden platforms that the cormorants need as frames for their nests. Dozens of cormorants used the replacement poles for their rookeries this year.

Residents were invited to purchase discounted trees during the Lakewood Loves Trees Tree Sale, hosted by the city's forestry division. Residents could choose from 10 different species, including hackberry, redbud and bur oak, and purchase up to four per household. The Forestry team provided residents with planting and care instructions and included resources on its webpage for future tree care. The 2023 tree sale added 190 new trees to Lakewood's urban forest.

THERE ARE AN ESTIMATED
625K TREES
THROUGHOUT LAKEWOOD

LAKEWOOD'S TREE CANOPY COVERS
16%
OF THE CITY'S LAND AREA.



Map of Lakewood's urban tree canopy based on DRCOG's 2020 Land Use Land Cover data.

APPROXIMATELY
3.5 TONS
OF CARBON IS
SEQUESTERED PER TREE
EACH YEAR



RECYCLED TREES CREATE HABITAT FOR CORMORANTS

City employees used recycled tree trunks to create new habitats for double-crested cormorants around Kountze Lake. They plan to monitor the birds' habitat and assist in any repairs needed in the coming years.



4TH GRADERS PLANT TREES AT WESTBOROUGH PARK

Fourth grade students at Bear Creek K-8 put their personal touch on Westborough Park when they planted "Jeff," "Angel," and others – all new trees they named as part of the 2023 Arbor Day celebration in Lakewood.

TREES IN LAKEWOOD STORE
**81,755 TONS OF
CARBON**

AND SEQUESTER AN ADDITIONAL
2,181 TONS OF CARBON
ANNUALLY.

In 2023, Lakewood received the Arbor Day Foundation's Tree City USA Growth Award, which is presented to communities demonstrating higher levels of tree care and community engagement. The city was also named a Tree City USA award winner for the 41st year.

As part of Lakewood's 2023 Arbor Day celebrations, fourth grade students from Bear Creek K-8 planted six deciduous trees at Westborough Park. City staff and partners from the Colorado and U.S. forest services educated the students on the value of tending to trees, the importance of a diverse tree canopy and the value that a thriving urban forest provides to their community.

Learn more about Lakewood's urban tree canopy at Lakewood.org/forestry.

TRANSPORTATION

SUSTAINABILITY PLAN CHAPTER 7



Bicyclists stop by Morse Park for snacks and swag for June 2023's Bike to Work Day.

2015 SUSTAINABILITY PLAN GOALS

Develop, maintain, and operate sustainable transportation systems and infrastructure.

Foster sustainable transportation choices in Lakewood.

RECENT HIGHLIGHTS

- Planning for Electric Vehicles
- Municipal Fleet EV Charging
- Bicycle System Master Plan Update
- Garrison Street Protected Bike Lane

BICYCLE UPDATES

Lakewood held several bike events in 2023 like bike valets and Bike to Work Day. In addition, the city renewed its Bicycle Friendly Community Bronze-level certification from the League of American Bicyclists.

ZERO FARE FOR BETTER AIR PROGRAM

RTD tested its pilot program "Zero Fare for Better Air" again in 2023, expanding the program through July and August.

SUSTAINABLE TRANSPORTATION

2023 PROGRESS SNAPSHOT

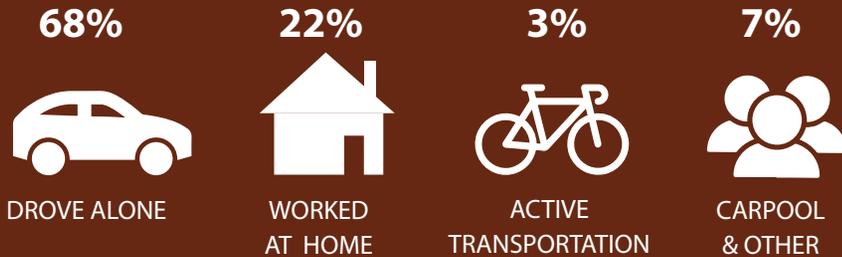
A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE	NOTES	STATUS
Convert all streetlights to LED or other high efficiency lighting technologies.	94 / 1.2% (2015)	1,084 / 13.3% (2023)	+12.1 points	There are more than 8,000 streetlights in Lakewood. All city-owned streetlights are now LED. In 2018, the city entered into a deal with Xcel Energy requiring all streetlight repairs to include LED replacements.	🔴
Reduce the percent of trips to work by single-occupancy vehicles from 75% to 65% by 2025.	79.2% (2010)	67.7% (2022)	-11.5 point	Data from 2022 American Community Survey.	🟢
Decrease petroleum-based fuel consumption of the city fleet by 10%.	330,505 gallons (2010)	251,880 gallons (2022)	-24%	Data not normalized for weather.	🟢

🟢 The target is on track 🔴 The target is not on track ⚪ Target not tracked / data unavailable

HOW DO LAKEWOOD RESIDENTS COMMUTE TO WORK?

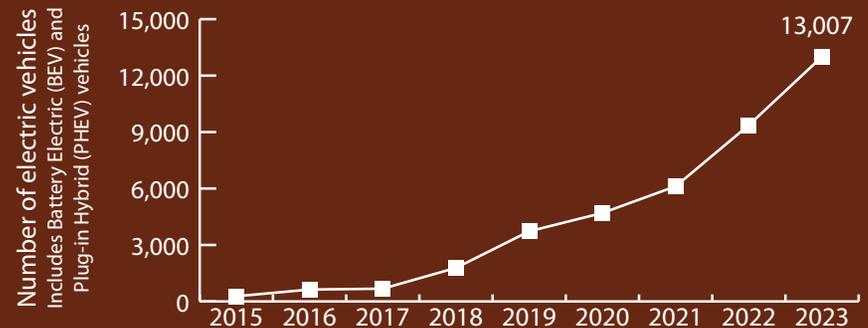
Commuter mode split data from the 2022 American Community Survey helps us track the impacts of sustainable transportation efforts and workplace culture shifts.



*"Active transportation" includes public transportation, bicycling and walking. "Other" includes taxicab, motorcyclists, etc.

HOW MANY PEOPLE IN JEFFCO DRIVE ELECTRIC VEHICLES?

Jefferson County has seen a significant increase in electric vehicles since 2015. This aligns with the City's goal to foster sustainable transportation choices.



TRANSPORTATION

2023 PRIORITIES AND PROJECTS

Sustainability staff have been focused on several key initiatives to advance the city's sustainable transportation goals.



PLANNING FOR ELECTRIC VEHICLES

The city has partnered with Xcel Energy to develop and implement an EV Work Plan that will help Lakewood prepare for the EV future and move us closer to our community and organizational goals. The EV Work Plan focuses on municipal fleet electrification, public facility charging infrastructure, and integration of EVs into city plans and policies.



MUNICIPAL FLEET EV CHARGING

To reach the 2025 goal of reducing the city's fleet fuel consumption by 10 percent, Lakewood's staff across multiple departments are collaborating to convert the city's fleet to electric or more fuel efficient vehicles and to install more charging infrastructure at city facilities.



BICYCLE SYSTEM MASTER PLAN UPDATE

Lakewood adopted a Bicycle System Master Plan in 2018. The plan provided a framework for a high-quality, safe, convenient, continuous, and accessible bike transportation system for people of all ages and abilities. An update to this plan began in 2023 and is expected to be completed by 2025.



GARRISON STREET PROTECTED BIKE LANE

To enhance safety and further emphasize bicycling as a mode of transportation available to all ages and abilities, Lakewood began installing the city's first separated bike lanes on South Garrison Street between Jewell and Mississippi Avenues during the 2023 repaving season. The South Garrison separated lanes were completed in 2024. For more information on separated bike lanes, visit LakewoodTogether.org/SeparatedBikeLanes.

01 BICYCLING UPDATES

Lakewood has an adopted goal to reduce vehicle miles traveled (VMT) throughout the city. Supporting and promoting bicycle infrastructure helps make progress toward getting people out of cars and using active modes of transportation. To further these goals, Lakewood's Active Transportation Coordinator Jenny Gritton contributed to improved bike infrastructure during annual repaving and restriping efforts, engaged the public in two Bike to Work Day celebrations, and coordinated free bike valet parking at Lakewood's annual Earth Day Celebration and Cider Days events. Efforts like these were nationally recognized by the League of American Bicyclists with the successful renewal of Lakewood's bronze-level Bicycle Friendly Community certification in May 2023.

Lakewood's 2018 Bicycle Plan helps guide the work of the city's transportation engineers during repaving and redevelopment. Visit the city's bicycling webpage at Lakewood.org/Bicycling for more information on the plan and other resources. The plan will be updated throughout 2024, with opportunities to provide feedback on the city's online engagement platform LakewoodTogether.org. Read on for highlights of this year's activities.

The Denver Regional Council of Governments (DRCOG) Way To Go commuter program promotes two Bike to Work Day events throughout the Denver metro region each year, one in the winter and one in the summer. At the Winter Bike to Work Day in 2023, Lakewood hosted a station at Addenbrooke Park with free breakfast and reflective bicycling accessories. Twenty-four brave cyclists visited Lakewood's station despite the below-freezing temperatures. The Summer 2023 Bike to Work Day saw nearly 18,000 cyclists participate throughout the metro region, 28 percent of which were first-time riders. As part of the festivities, the City of Lakewood hosted three breakfast stations, providing free breakfast and giveaways to over 200 total visitors at Addenbrooke Park, Stone House, and Morse Park (co-hosted by Morse Park Sustainable Neighborhood).



Volunteers at the Winter Bike to Work Day station at Addenbrooke Park (top) and at the June Bike to Work Day station at Morse Park (bottom) made fun celebrations for cyclists throughout Lakewood.





LAKWOOD RENEWS BIKE CERTIFICATION

In 2023, Lakewood received renewed designation as a bronze-level Bicycle Friendly Community with the League of American Bicyclists! Staff is aiming for Silver designation in 2027.

LAKWOOD HAS OVER
342 MILES
OF BIKE ROUTES AND TRAILS.



BIKE VALET AT CITY EVENTS

The city provided a bike valet for Lakewood residents at city events like Earth Day and Cider Days in 2022 and 2023. To help incentivize cycling to events, bike valet users received perks like swag and coupons for free cider at Cider Days.

IN LAKWOOD,
APPROXIMATELY
578
COMMUTERS
REPORT RIDING A BIKE FOR
TYPICAL TRIPS TO WORK.



BIKE TOURS THROUGH O'KANE PARK

Sustain O'Kane volunteer leader and bicycling enthusiast Peter McNutt offers monthly Low-Stress Bike Streets (LSBS) bicycle tours to help neighbors learn safe routes to school, work, and leisure locations.

02 RTD'S ZERO FARE FOR BETTER AIR

In 2022, RTD launched a “Zero Fare for Better Air” pilot program. Senate Bill 22-180 funded 80 percent of the program and required RTD to provide free transit for at least 30 days during ozone season (typically June-August in the Denver metro area). Fares were covered by the grant program for the month of August 2022. Following the first year of the pilot program, RTD released a report showing a 36 percent increase in overall ridership compared to August 2021.

RTD expanded the program in 2023 by committing to zero fares for the months of July and August. A further expansion was introduced in July 2023 when RTD committed to the “Zero Fare for Youth” pilot program, which spanned from September 1, 2023 through August 31, 2024, for all persons 19 years and younger. “Zero Fare for Youth” was made possible due to the increased flexibility of the ozone season transit grant program created by House Bill 23-1101 (April 2023). Both of these pilot programs aim to reduce transportation costs for families and introduce the next generation to public transit.

Simultaneously, RTD worked to restructure the fare system entirely to create a more equitable system. Implementation of the new fare structure began in the first quarter of 2024. Learn more about the new fares at rtd-denver.com/fares-passes/fares.



ACCORDING TO RTD,
RIDERSHIP INCREASED

10%

DUE TO THE ZERO FARE
PROGRAM

THE ZERO FARE FOR YOUTH
PROGRAM WAS EXPANDED
THROUGH

AUGUST 2024!

ENJOY FREE TRANSIT RIDES
FOR YOUTH UNDER 19.

APPENDIX A

TARGETS AND INDICATORS

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
CLIMATE CHANGE & ADAPTATION: TARGETS	TARGET: Reduce communitywide greenhouse gas emissions by 20% below 2007 levels by 2025.							
	Greenhouse Gas Emissions	2007	2,447,746 mtCO2e	2021	2,080,506 mtCO2e	-15%	City of Lakewood Greenhouse Gas Inventory	Metric: metric tons of carbon dioxide equivalent (mtCO2e); Methodology: Global Protocol for Community-scale Greenhouse Gas Emission Inventories (GPC). GHG inventories are anticipated to be completed every 3 years. The latest inventory was completed in 2023 using 2021 data.
	TARGET: Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.							
	Greenhouse Gas Emissions	2007	2,447,746 mtCO2e	2021	2,080,506 mtCO2e	-15%	City of Lakewood Greenhouse Gas Inventory	Metric: metric tons of carbon dioxide equivalent (mtCO2e); Methodology: Global Protocol for Community-scale Greenhouse Gas Emission Inventories (GPC). GHG inventories are anticipated to be completed every 3 years. The latest inventory was completed in 2023 using 2021 data.
	TARGET: Reduce municipal greenhouse gas emissions annually through 2025.							
Municipal Greenhouse Gas Emissions	-	-	-	-	-	-	-	Data not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES	
ENERGY, WATER, & THE BUILT ENVIRONMENT: TARGETS	TARGET: Generate 45% of municipal energy from renewable sources by 2025.								
	Percent of municipal energy from renewable sources	2010	12%	2022	63%	+51 points	Lakewood Annual Community Energy Report and Renewable Energy Standard Compliance Report, both by Xcel Energy	Systemwide service data for Public Service Co. of Colorado. This only includes electric energy. A full assessment has yet to be completed for energy from heating and transportation fuels. This data includes the solar energy subscription that began in 2019.	
	TARGET: Generate 45% of residential energy from renewable sources by 2025.								
	Percent of residential energy from renewable sources	2010	12%	2022	46%	+34 points	Lakewood Annual Community Energy Report and Renewable Energy Standard Compliance Report, both by Xcel Energy	Systemwide service data for Public Service Co. of Colorado. This only includes electric energy. A full assessment is yet to be completed for energy from heating and transportation fuels.	
	TARGET: Generate 45% of commercial and industrial energy from renewable sources by 2025.								
	Percent of commercial and industrial energy from renewable sources	2010	12%	2022	43%	+31 points	Lakewood Annual Community Energy Report and Renewable Energy Standard Compliance Report, both by Xcel Energy	Systemwide service data for Public Service Co. of Colorado. This only includes electric energy. A full assessment is yet to be completed for energy from heating and transportation fuels.	
	TARGET: Reduce municipal building and facility energy use intensity by 30% by 2025.								
	Municipal energy use intensity (mmbtu per square foot)	2015	0.124	2022	0.111	-10%	City of Lakewood Community Resources Department and Sustainability Division	Includes electric and gas energy consumption normalized for weather. Based on data from occupied city buildings with energy use greater than 100 million British Thermal Units (mmbtu). The baseline value was updated in 2020 to reflect more accurate historical data.	
	TARGET: Reduce citywide building energy use intensity by 20% by 2025.								
	Citywide energy use in megawatt hours (MWh)	2012	2,832,699	2022	2,928,800	+3%	Lakewood Annual Community Energy Report by Xcel Energy	Value represents total energy use consumption (electric and gas energy); data is not normalized for weather.	
	TARGET: Reduce citywide water use by 20% by 2025.								
	Citywide water use in kilogallons	2010	8,762,212	2021	8,427,899	-4%	Denver Water	Weather normalized by Denver Water.	
	TARGET: Increase the percentage of certified green buildings (new construction and renovations receiving occupancy permits) each year from 2015 to 2025.								
Percentage of certified green buildings within citywide building stock	2010	6	2022	34	+28	Green Globes, USGBC LEED, and Living Building Challenge online project directories	Values represent cumulative number of LEED certified and Green Globes projects. Commercial citywide building stock is currently unavailable.		

METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
Indicator: Kilowatts of on-site solar energy installed	2010	1,023	2022	5,323	+420%	Permit Data from City of Lakewood Public Works Department	Metric reflects number of kW installed on an annual basis. Since 2010, a total of 23,480 kW of on-site solar has been permitted citywide. Significant increase in number of permits issued in 2022.
Indicator: Number of residential subscribers to community solar projects and wind source	2015	Windsorce: 2,500 Solar Garden: 9	2022	Windsorce: 4,129 Solar Garden: 357 Renewable*Connect 107	Windsorce +65% Solar Garden +3,900%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019 and is at capacity.
Indicator: Annual energy resource mix as reported by Xcel Energy	2010	Coal: 61% Natural Gas: 27% Wind: 10% Hydro: 1% Other (includes solar): 1%	2022	Coal: 27% Natural Gas: 31% Wind: 36% Hydro: 1% Solar: 5% Other: 1%	Coal: -34 Natural Gas: +4 Wind: +10 Hydro: 0 Solar: +4 Other: 0	Lakewood Annual Community Energy Report by Xcel Energy	May not add up to 100% due to rounding. Systemwide service data for Public Service Co. of Colorado. Includes Renewable Energy Credits not owned by Xcel Energy.
Indicator: Residential electricity and gas costs	2015	Electricity \$0.12/kWh Natural Gas \$0.78/therm	2022	Electricity \$0.14/kWh Natural Gas \$1.19/therm	Electricity +21% Natural Gas +52%	Lakewood Annual Community Energy Report by Xcel Energy	-
Indicator: Number of business subscribers to community solar projects and wind source	2015	Windsorce 16 Solar Garden 5	2022	Windsorce 18 Solar Garden 72 Renewable*Connect 100	Windsorce +13% Solar Garden +1,340%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019. The number of annual subscribers has remained fairly level.
Indicator: Commercial electricity and gas costs	2015	Electricity \$0.09/kWh Natural Gas \$0.48/therm	2022	Electricity \$0.11/kWh Natural Gas \$0.73/therm	Electricity +18% Natural Gas +52%	Lakewood Annual Community Energy Report by Xcel Energy	-
Indicator: Kilowatts of energy generated from on-site renewable energy systems for municipal buildings	2010	0	2023	0	N/A	City of Lakewood Community Resources Department	No on-site renewable energy systems for municipal buildings exist.
Indicator: Kilowatts of energy purchased from off-site renewable energy systems	2014	274	2019	1,289	+370%	City of Lakewood Sustainability Division	The city purchased 274 kW (no RECs) in 2014. In 2019, the city purchased an additional 1,015 kW (RECs). REC = Renewable Energy Credit.
Indicator: Energy use intensity by sector	-	-	-	-	-	-	Data not available.

ENERGY, WATER, & THE BUILT ENVIRONMENT: INDICATORS

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
ENERGY, WATER, & THE BUILT ENVIRONMENT: INDICATORS	Indicator: Municipal energy use intensity (mmbtu/ft²)	2015	0.124	2022	0.111	-10%	City of Lakewood Community Resources Department	Includes both electric and gas energy consumption normalized for weather. Based on data from occupied city buildings with energy use greater than 100 million British Thermal Units (mmbtu). The baseline value was updated in 2020 to reflect more accurate historical data.
	Indicator: Water use by sector	-	-	-	-	-	-	Data not available.
	Indicator: Municipal water use	-	-	-	-	-	City of Lakewood Community Resources Department	Data to be collected upon implementation of utility tracking software.
	Indicator: Number of certified green building projects	2010	6	2022	34	+28	Green Globes, USGBC LEED, and Living Building Challenge online project directories	Values represent cumulative number of LEED certified and Green Globes projects. Commercial citywide building stock is currently unavailable.
	Indicator: Number of indoor air quality investigations and/or complaints filed with Jefferson County Public Health	-	-	-	-	-	-	Data not available.
	Indicator: Number of certified sites through the Sustainable Sites Initiative	2010	0	2022	0	0%	Sustainable Sites Initiative	No certified sites yet in Lakewood.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY: TARGETS	TARGET: Increase local food assets annually through 2025.							
	Number of local food assets	2015	37	2022	53	+43%	City of Lakewood Planning Department	Includes community gardens, farms, Community Supported Agriculture (CSA) sites and farmers markets. High of 58 assets in 2019. Declines in 2020 and 2021 may have been related to the COVID-19 pandemic.
	TARGET: Achieve participation from 20 local businesses in the first three years of implementing a green business certification program.							
	Number of certified green businesses	-	-	-	-	-	-	City of Lakewood green business certification program to be established.
	TARGET: Increase the percentage of households in CDBG qualified neighborhoods spending less than 45 percent of income on housing and transportation costs to 60% by 2025.							
	Number of CDBG qualified neighborhoods spending less than 45% of income on housing and transportation costs	2013	24,399 households (92%)	N/A	N/A	N/A	Center for Neighborhood Technology (CNT) H + T Affordability index and City of Lakewood Planning Department	Due to challenges with data assumptions and lack of consistent methodology, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.
	TARGET: Increase number of households above Living Wage Standard by 15% by 2025.							
	Number of households above the Living Wage Standard	2010	32,843 (53% of households)	2022	33,921 (50% of households)	-3%	US Census Bureau, H12: Average Household Size of Occupied Housing Units by Tenure, and B19001- Household Income for the Past 12 Months	Methodology originally sourced from STAR Community Rating System Technical Guide. Calculation based on the Living Wage for a single person multiplied by the average household size utilizing data from the MIT Living Wage Calculator and American Community Survey. The Living Wage includes mostly prior year expenses inflated to Q1 current year values.
	TARGET: Increase number of housing units within a designated Complete Neighborhood by 25% by 2025.							
Number of housing units within a designated Complete Neighborhood	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy SE2-B, p. 65.	

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY: INDICATORS	Indicator: Location quotients of specifically identified sectors	-	-	-	-	-	-	Data not available.
	Indicator: Urban agriculture permits issued	2014	93	2022	29	-69%	City of Lakewood Planning Department	"Urban agriculture permits" are small animal permits; permits not required for zone districts R-1-9, R-1-12, R-1-18, and R-1-43. Spike in 2020 (61 new permits) likely due to COVID-19 pandemic. Data reported is number of new permits issued each year.
	Indicator: Acreage of community gardens and urban farms	2015	50+	-	-	-	City of Lakewood HEAL Cities & Towns Food Access Assessment Report	Data based on a single year report; only accounts for 7 of the 22 total community gardens and urban farms.
	Indicator: Funds deposited into locally owned and managed financial institutions	-	-	-	-	-	-	Data not available.
	Indicator: Unemployment level	2010	Avg rate: 10% Avg no.: 7,956	2022	Avg rate: 3.1% Avg no.: 2,804	Avg rate: -6.9 points Avg no.: -64.8%	Bureau of Labor Statistics Data Finder	Baseline reflects continued impacts of the Great Recession (2007-2009). Prior to COVID-19, unemployment was under 3%.
	Indicator: Jobs to labor force ratio	-	-	-	-	-	-	Data not available.
	Indicator: Average "click rate" for the city Economic Development electronic newsletter	2015	3.5%	2022	5.9%	+2.4 points	Mailchimp.com	-
	Indicator: Median household income	2010	\$70,329	2022	\$75,314	+7%	U.S. Census Bureau	2010 data adjusted to 2022 inflation.
	Indicator: Percentage of households that meet or exceed the living wage standard	2010	53%	2022	50%	-3 points	U.S. Census Bureau	Methodology pulled from STAR Community Rating System Technical Guide.
	Indicator: Percentage of households that spend more than 45% of income on housing and transportation costs	2013	45%	N/A	N/A	N/A	Center for Neighborhood Technology (CNT) H + T Affordability index	Due to challenges with data assumptions and lack of consistent methodology, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY: INDICATORS	Indicator: Number of residents on waiting lists for subsidized units at MWHS properties	2015	200	2022	360	+80%	Metro West Housing Solutions	Metrics reported in households selected for wait list. No new applications in 2022, still working through 2021 wait list of 1,000. In 2022, 257 applications were processed, around 360 remaining on wait list.
	Indicator: Number of households in areas within a designated Complete Neighborhood	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy SE2-B, p. 65.
	Indicator: Jefferson County Schools postsecondary and workforce readiness score	2012-2013	Exceeds: 3 Meets: 0 Approaching: 4 Does not meet: 2	2021-2022	Exceeds: 2 Meets: 6 Approaching: 4 Does not meet: 0	-	Colorado Department of Education	Number for each category represents number of high schools that meet each set of criteria. In response to disruptions created by COVID-19, Colorado paused the accountability system for two school years (2019-20 and 2020-21).
	Indicator: High school graduation rates and postsecondary educational attainment	2010	High School Grad & Higher: 90% Bach. Degree and higher: 36%	2022	High School Grad & Higher: 92% Bach. Degree and higher: 42%	High School Grad & Higher: +2 points Bach. Degree and higher: +6 points	U.S. Census Bureau	-
	Indicator: Participation in workforce development programs and skills training	2015	2,258 participants	-	-	-	American Job Center	Data not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES	
ZERO WASTE: TARGETS	TARGET: Achieve a 60% communitywide diversion rate by 2025.								
	Diversion rate	2010	9%	2021	31.2%	+22.2 points	Colorado Department of Public Health and Environment	Data represents statewide total (MSW + Industrial). CDPHE updated methodology between 2018 and 2019; therefore, recent data may not be comparable to baseline year. 2022 data had not been released at the time of publishing.	
	TARGET: Achieve an 80% diversion rate at the Civic Center by 2025.								
	Pounds recycled and composted	2018	68,433 lbs	2021	28,836 lbs	N/A	City of Lakewood Hauler Reports	Due to a change in hauler, data for individual facilities was not available for 2022. Overall diversion for all city facilities was estimated 8%.	
	TARGET: Achieve increased diversion rates for specific municipal facilities.								
	Pounds recycled and composted	2017	11th Ave - 6,192 lbs Patterson - 7,392 lbs Daniels - N/A Lasley - N/A	2021	11th Ave - 2,174 lbs Patterson - 1,951 lbs Daniels - 0 lbs Lasley - 1,313 lbs	11th Ave N/A Patterson N/A	City of Lakewood Hauler Reports	The four Head Start Classrooms were selected to be tracked separately due to their recent zero waste program launch and youth impact. Significant impacts resulted from facility closures due to COVID-19. Due to a change in hauler, data for individual facilities was not available for 2022.	
	TARGET: Achieve a 90% diversion rate at City of Lakewood Earth Day and Cider Days events.								
	Diversion rate	2014	Cider Days: 87% Earth Day: 80%	2022 2023	Cider Days: N/A Earth Day: 91%	Cider Days: N/A Earth Day: +11 points	City of Lakewood Community Resources and Planning Departments	Cider Days data not available for 2022 due to change in hauler.	
	TARGET: Achieve a 60% residential diversion rate by 2025.								
	Diversion rate	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Baseline represents statewide total. Most recent data represents MSW diversion. CDPHE updated methodology between 2018 and 2019 to separate Front Range Region from Greater Colorado; therefore, recent data may not be comparable to baseline year. Regional trend is declining from high of 18% diversion in 2018. 2022 data had not been released at the time of publishing.	
	TARGET: Achieve a 60% construction and demolition diversion rate by 2025.								
	Diversion rate	2019	23.5%	2019	23.5%	-	City of Lakewood Sustainability Division	Baseline includes permit data from when ordinance enacted in 2018 through 2019.	
	TARGET: Achieve a 60-90% diversion rate for priority waste streams.								
Diversion rate	-	-	-	-	-	-	Priority waste streams to be established after the completion of Sustainability Plan Strategy ZW3-A, p. 89.		

Bold year indicates new data updated in this report.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
ZERO WASTE: INDICATORS	Indicator: Number of residents engaged through zero waste outreach and education campaigns	2015	6 campaigns + events	2019	15 campaigns + events	+150%	City of Lakewood	Ongoing and embedded as best practice in city activities, Sustainable Neighborhood projects, and online resources. No longer tracking individual events and campaigns.
	Indicator: Number of city facilities that offer recycling and composting collection	2015	Composting: 2 Recycling: 19	2019	Composting: 8 Recycling: 22	Composting: +300% Recycling: +16%	City of Lakewood Sustainability Division	No additional facilities added to municipal hauling contracts since 2019. Does not include recycling containers at park sites.
	Indicator: Participation at special collection events	2015	Participation: 3,373 Pounds: 39,259 Gallons: 112	2019	Participation: 7,778 Pounds: 78,103 Gallons: 170	Participation: +130% Pounds: +99% Gallons: +52%	City of Lakewood Sustainability Division and Public Works, Police, and Community Resources Departments	Special collection events were limited in 2020 and 2021 due to COVID-19, and not tracked for these years. Going forward, some special collection events like holiday lights and cooking oil will not be held because outside partners such as SustainAbility accept those and other hard-to-recycle materials year-round. Special collections events reported will not be comprehensive.
	Indicator: Volume of material collected at Quail Street Recycling Center	2012	1,200 tons	2022	949 tons	-21%	City of Lakewood Public Works Department	Trend is increasing after 2020 low but has not yet returned pre-COVID levels. Closures in 2020 due to COVID-19 may have resulted in some customers switching to other methods of recycling.
	Indicator: Volume of hazardous material collected at Rooney Road Recycling Center	2004	131 tons	2022	225 tons	+72%	City of Lakewood Public Works Department	Trend is declining to pre-pandemic volumes following peak of 312 tons in 2020. Lakewood is a Rooney Road Recycling Center Authority Management Committee member jurisdiction.
	Indicator: Residential diversion rate (seven units or fewer)	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Same as overall residential diversion rate. Data by residential unit type not available.
	Indicator: Percentage of residents with recycling/composting services	-	-	2016	Recycling: 66%	-	City of Lakewood Trash and Recycling Survey	Data based on a single year survey targeted toward single-family residences.
	Indicator: Percentage of residents who compost at home	-	-	2016	22%	-	City of Lakewood Trash and Recycling Survey	Data based on a single year survey targeted toward single-family residences.
	Indicator: Residential diversion rate (more than eight units)	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Same as overall residential diversion rate. Data by residential unit type not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
ZERO WASTE: INDICATORS	Indicator: Percentage of multifamily residences with recycling/composting services	-	-	-	-	-	-	Data not available.
	Indicator: Commercial landfill diversion rates	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Baseline represents statewide diversion. Current data represents MSW diversion. CDPHE updated methodology between 2018 and 2019 to separate Front Range Region from Greater Colorado; therefore, current data may not be comparable to baseline year. Regional trend is declining from high of 18% diversion in 2018.
	Indicator: Number of restaurants and grocery stores participating in food composting program	-	-	-	-	-	-	Data not available.
	Indicator: Number of individuals employed at reuse and resource recovery businesses	2015	34 businesses	-	-	-	City of Lakewood Finance Department	Data from city generated list of "Used Merchandise Stores" then filtered to include only reuse and resource recovery businesses; number of employees to be determined.
	Indicator: C&D landfill diversion rates	-	-	-	-	-	-	Data not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH: TARGETS	TARGET: Increase the percentage of residents reporting "good" or "very good" satisfaction ratings for Lakewood's efforts in welcoming citizen involvement as reported in the City of Lakewood Citizen Survey to 60% by 2025.							
	Percentage of residents reporting "good" or "very good" satisfaction rating for welcoming citizen involvement in the Citizen Survey	2010	57%	2022	34%	-23 points	City of Lakewood Citizen Survey	Latest survey completed in 2022. Survey is conducted every 2-3 years. The satisfaction ratings have declined every year reported since 2010.
	TARGET: Increase resident subscriptions to the city communication tools each year through 2025.							
	Number of resident subscriptions to city e-newsletters	2015	31,251	2023	153,283	+390%	Mailchimp.com	Residents may subscribe to more than one e-newsletter and thus be double counted; some subscribers may not be Lakewood residents.
	TARGET: Certify 12 neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025.							
	Number of Outstanding Sustainable Neighborhoods	2013	2	2023	8	+6	City of Lakewood Sustainability Division	The program began in 2012; the baseline reflects the program's first full year. There are a total of 10 neighborhoods in the program; in 2023, 8 achieved "Outstanding" status.
	TARGET: Increase recreation program participation each year through 2025.							
	Number of participants in city recreation programs	2010	352,000	2022	336,562	0.3%	City of Lakewood Community Resources Department	Total number of visits to recreation facilities.
	TARGET: Eliminate USDA-defined food deserts in Lakewood.							
	Number of USDA-defined food deserts within the city boundary	2015	6	2022	2	-67%	U.S. Department of Agriculture Food Access Research Atlas	Food deserts are defined within tract boundaries. Only Jefferson County tracts are included.
TARGET: Achieve community affordable housing targets.								
TBD	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy CC3-A, p.113.	
TARGET: Increase the percentage of residents reporting "good" or "very good" satisfaction ratings for Lakewood programs for people with special needs, older adults, low-income persons and homeless people to above Front Range benchmarks.								
Front Range benchmark comparison of the percentage of residents reporting "good" or "very good" satisfaction of programs for people with special needs, older adults, low-income persons, and homeless people	2010	Older Adults: Similar (60%) Special Needs: N/A Low-income: N/A Homeless: N/A	2022	Older Adults: N/A (48%) Special Needs: N/A (36%) Low-income: N/A (22%) Homeless: N/A (14%)	-	City of Lakewood Citizen Survey	No consistent Front Range comparison has been established yet. Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.	

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	Indicator: Voter turnout in regular municipal elections	2010	71%	2021	39%	-32 points	City of Lakewood City Clerk's Office	A regular municipal election was last held in 2021.
	Indicator: Enrollment in citizen academies	2013	Planning Academy: 19 Police Academy: 24	2019	Planning Academy: 28 Police Academy: 24	Planning Academy: 47% Police Academy: 0%	City of Lakewood Planning and Police Departments	Planning Academy and Police Academy have been cancelled since 2020 due to ongoing impacts of COVID-19.
	Indicator: Number of applications for citizen boards and commissions	2014	24	2022	34	+42%	City of Lakewood City Clerk's Office	Number varies on how many board or commission openings occur that year.
	Indicator: Number of volunteers participating in city programs and activities	2014	47,955 hours	2022	20,235 hours	-58%	City of Lakewood Community Resources Department	Includes volunteer hours for HCA, BCLP, Planning and City Clerk. Volunteer numbers are slowly rising again after COVID-19 pandemic.
	Indicator: Total page views on Lakewood.org	2015	4,546,627	2022	6,422,827	+41%	Google Analytics	-
	Indicator: Number of followers of Lakewood social media channels	2015	20,773	2022	127,498	+514%	City of Lakewood City Manager's Office	-
	Indicator: Number of Google Translate requests for Lakewood.org web pages	-	-	2022	3,825	-	City of Lakewood City Manager's Office	Number of page views that used the translate button in the Lakewood.org header.
	Indicator: Minority resident satisfaction with the job Lakewood government does at welcoming citizen involvement	2010	52%	2022	45%	-7 points	City of Lakewood Citizen Survey	Latest survey conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Resident satisfaction with overall quality of life	2010	90%	2022	83%	-7 points	City of Lakewood Citizen Survey	Based on responses of "Good" and "Very Good." Latest survey conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Number of participants in the Sustainable Neighborhoods Program	2012 - 2013	763	2022 - 2023	7,454	+1,355%	City of Lakewood Sustainability Division	The program began in 2012; the baseline reflects the program's first full year. The program's credit year is from June 2022 through May 2023. Neighborhoods held 95 projects, special events, and workshops.
	Indicator: Number of registered neighborhood organizations	2015	129	2023	144	+1.6%	City of Lakewood Planning Department	Includes registered HOAs and registered neighborhood associations.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	Indicator: Number of neighborhoods, households and people registered on NextDoor.com	2015	102 neighborhoods	2023	141 neighborhoods	+38%	NextDoor.com	-
	Indicator: Participation in Lakewood's Inspire Arts Week	2013	2,500	2022	2,782	-	City of Lakewood Community Resources	Low attendance likely due to ongoing impacts of COVID-19. Pre-pandemic attendance was 7,000-8,000 people.
	Indicator: Attendance at city Cultural and Heritage programs	2010	85,606	2022	1,165,635	+156%	City of Lakewood Community Resources	Overall participation rebounded in 2021 following significant impacts in 2020 due to COVID-19.
	Indicator: Annual number of public art installations	-	-	2022	Permanent: 66 Temporary: 72	-	City of Lakewood Community Resources + Comprehensive Planning	Data reflects the total of all public art installations in the City's collection.
	Indicator: Acreage of community gardens and urban farms	2015	50+	-	-	-	City of Lakewood HEAL Cities & Towns Food Access Assessment Report	Data based on a single year report; only accounts for 7 of the 22 total community gardens and urban farms.
	Indicator: Number of households in identified food deserts	2015	11,018	2022	4,062	-63%	United States Department of Agriculture Food Access Research Atlas	-
	Indicator: Resident's satisfaction with recreation programs and facilities	2010	Programs: 78% Facilities: 81%	2022	Programs: 73% Facilities: 75%	Programs: -5 points Facilities: -6 points	City of Lakewood Citizen Survey	Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Number of unique visits to city recreation facilities	-	-	-	-	-	City of Lakewood Community Resources Department	Data not available.
	Indicator: Bicycle traffic counts	2017	Garrison St @ 500: 50 (Oct.) Bear Creek Trail E. of Estes: 106 (Aug.)	2022 2021	Garrison St @ 500: 67 Bear Creek Trail E. of Estes: 184	Garrison St @ 500: +34% Bear Creek Trail E. of Estes: +74%	City of Lakewood Public Works Department	Reported as average weekday usage.
	Indicator: Level of Bicycle or Walk Friendly Community certification	2014	Bronze	2023	Bronze	-	The League of American Bicyclists Bicycle Friendly Community Report Card	Bicycle Friendly Community Certification valid for four years. Recertified at the Bronze level in 2023.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	Indicator: Jefferson County public health selected health conditions and causes of death	2011	Leading Causes of Death: Cancer: 21% Cardiovascular Diseases: 24% Unintentional Injuries: 7%	2021	Leading Causes of Death: Cancer: 18% Heart Disease: 18% Unintentional Injuries: 9%	Leading Causes of Death: Cancer: -3 Cardiovascular Diseases: -5 Unintentional Injuries: -2	Jefferson County Public Health Community Health Assessment	In 2021, COVID-19 was the third leading cause of death at 9%; unintentional injuries were fourth. Cardiovascular diseases were reported as heart disease starting in 2018. Community Health Assessment is completed every 3 years. Data reported for Jefferson County as a whole.
	Indicator: Number of residents on waiting lists for subsidized units at Metro West Housing Solutions properties	2015	200	2022	360	+80%	Metro West Housing Solutions	Metrics reported in households selected for wait list. No new applications in 2022, still working through 2021 wait list of 1,000. In 2022, 257 applications were processed, around 360 remain on wait list.
	Indicator: Percentage of households that spend more than 45% of income on housing and transportation costs	2013	45%	N/A	N/A	N/A	Center for Neighborhood Technology (CNT) H + T Affordability index	Due to challenges with data assumptions and lack of consistent methodology, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.
	Indicator: Participation in City of Lakewood Family Services programs	2015	56,167	2022	8,404	-	City of Lakewood Community Resources Department	Reported as total annual attendance, not unique participants. As of 2022, Before and After Care programs are no longer included in these figures as they have been realigned under Recreation, so percent change is not calculated. Staffing shortages limited the number of Head Start classrooms in 2022.
	Indicator: Number of people served through the Action Center	-	-	2022	7,147 households	-	The Action Center	Data does not represent unique households; multiple visits to the same household may be duplicated.
	Indicator: Resident's feelings of safety	2013	In your neighborhood during the day: 96% Walking alone in your neighborhood after dark: 72%	2022	In your neighborhood during the day: 94% Walking alone in your neighborhood after dark: 61%	In your neighborhood during the day: -2 points Walking alone in your neighborhood after dark: -9 points	City of Lakewood Citizen Survey	Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
NATURAL SYSTEMS: TARGETS	TARGET: Increase the acreage of functional and healthy natural ecosystems.							
	Acreage of functional and healthy natural systems	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy NS1-C, p. 128.
	TARGET: Ensure that all waters within Lakewood meet or exceed the CDPHE's Water Quality Standards for the uses assigned.							
	Number of waters in Lakewood that meet or exceed the CDPHE's Water Quality Standards	2015	1 body of water impaired	2022	2 bodies of water impaired	+100%	Colorado Department of Health and Environment, Water Quality Control Commission, Colorado's Section 303(D) List of Impaired Waters and Monitoring and Evaluation List	Bear Creek Reservoir is regularly monitored for phosphorus (P) and chlorophyll a (Chl-a) levels that might exceed the existing TMDL requirements. All designated reservoir uses are currently being met. The known nutrient impairment will continue to be managed by Lakewood staff and the BCWA. One segment of Bear Creek was added in 2021 due to CDPHE lowering the water quality standard for arsenic.
	TARGET: Achieve 30% tree canopy coverage by 2025.							
Percent coverage	2011	7.8%	2020	16%	-	Denver Regional Council Of Governments (DRCOG) Land Use Land Cover (LULC) Data	Baseline established with i-Tree landscape tool using 2011 NLCD data; more recent datasets are not currently available within the tool. DRCOG 2018 LULC data was available for the first time in 2020 as an alternative data source. In 2022, the City of Lakewood Forestry Division completed an urban tree canopy assessment comparing USDA NAIP data from 2011 and 2019. The latest DRCOG LULC data from 2020 aerial imagery corroborates the findings of the Lakewood Urban Tree Canopy Assessment. Percent change not reported due to differing data sources.	

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
NATURAL SYSTEMS: INDICATORS	Indicator: Acreage of land cover by habitat type	2011	Developed: 20,904.2 acres Forest: 195 acres Wetland: 927.5 acres Water: 642.9 acres Other: 5,529.1 acres Cultivated: N/A	-	-	-	i-Tree Landscape Tool	i-Tree uses NLCD land cover, tree canopy, and impervious surface data; "other" includes shrub/scrub, grassland/herbaceous, and barren land. Data has not been updated since 2011; an alternative data source may be needed to continue tracking this metric.
	Indicator: Acres of Colorado List A noxious weed species on city owned property	2015	30	2022	21	-9%	City of Lakewood Community Resources Department	List A noxious weed species currently/ formerly seen and controlled: purple loosetrife, orange hawkweed, myrtle spurge, cypress spurge. Japanese knotweed confirmed. Significant decrease in 2020 due to more accurate mapping availability.
	Indicator: Population counts of key indicator species	-	-	-	-	-	City of Lakewood Community Resources Department	No official inventory or identification process has been established; species most likely include native pollinators, bats and some amphibians.
	Indicator: Number of developments that have installed or retrofitted BMP's to improve water quality	2015	57	2022	349	New in 2022: 39	City of Lakewood Public Works Department	Most current data is cumulative total, including 2015. All water quality BMPs are inspected annually.
	Indicator: Number of environmental education programs and outreach events	2013	108	2022	151	+40%	City of Lakewood Community Resources Department	Much of programming shifted to virtual in 2020 due to COVID-19.
	Indicator: Attendance at Lakewood's annual Earth Day Celebration	2012	500	2023	1,100	+120%	City of Lakewood Sustainability Division	The 2023 Earth Day Celebration was impacted by snow.
	Indicator: Percentage of permeable land	2011	68%	2020	64%	-	Denver Regional Council Of Governments (DRCOG) Land Use Land Cover (LULC) Data	Baseline established with i-Tree landscape tool; data has not been updated since 2011. DRCOG 2018 Land Use Land Cover data available for the first time in 2020 as an alternative data source. DRCOG data not comparable to i-Tree data.
	Indicator: Percentage of 100-year flood plain w/ vegetative coverage	-	-	-	-	-	-	Data not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
TRANSPORTATION: TARGETS	TARGET: Convert all streetlights to LED or other high efficiency lighting technologies by 2025.							
	Number of LED streetlights	2015	94 / 1.2%	2023	1,084 / 13.3%	+12.1 points	City of Lakewood Public Works Department	There are more than 8,000 streetlights in Lakewood. All city-owned streetlights are now LED. In 2018, the city entered into a deal with Xcel Energy requiring all streetlight repairs to include LED replacements.
	TARGET: Reduce Lakewood's daily per capita VMT by 10% by 2025.							
	Vehicle miles traveled (VMT)	2015	16.5	2020	17.41	N/A	Denver Regional Council of Governments (DRCOG) Travel Models	Travel models are updated at least annually based on behavioral and land use data, and are used to forecast travel demand. Per DRCOG, previous models should not be compared due to changes in methodology.
	TARGET: Reduce the percent of trips to work by single-occupancy vehicles from 75% to 65% by 2025.							
	Number of single-occupancy vehicle trips	2010	54,989	2021	59,390	+8%	United States Census Bureau	This metric reports the number of people who commuted by driving alone.
	Percent of trips to work that are single-occupancy	2010	79%	2021	68%	-13 points	United States Census Bureau	This metric reports the percentage of workers who usually commute to work alone. 2021 data reflects an increase in remote work associated with the COVID-19 pandemic.
TARGET: Decrease petroleum-based fuel consumption of the city fleet by 10% by 2025.								
Gallons of petroleum-based fuel consumed	2010	330,505	2022	251,880	-24%	City of Lakewood Public Works Department	Data not normalized for weather.	

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
TRANSPORTATION: INDICATORS	Indicator: Annual vehicle miles traveled in street maintenance operations	2010	156,865	2022	227,121	+45%	City of Lakewood Public Works Department	Data not normalized for weather.
	Indicator: Concentration of criteria air pollutants	-	-	-	-	-	-	Data not available.
	Indicator: Street construction waste diversion rates	-	-	-	-	-	City of Lakewood Public Works Department	Per city regulations, no waste is generated. All materials for street construction programs (concrete and overlay) are recycled or reused.
	Indicator: Percentage of recycled materials used in street maintenance and construction	-	-	-	-	-	City of Lakewood Public Works Department	Materials being recycled are asphalt binder and aggregates; per city, no more than 20% recycled asphalt pavement (RAP) may be used on collector and arterial streets overlay; no more than 30% RAP on patching, minor collectors and residential streets.
	Indicator: Street and signal lighting energy use	2013	7,024,646 kWh	2022	6,561,457 kWh	-7%	City of Lakewood Public Works Department	Data includes metered, non-metered, flasher and flat rate usage.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
TRANSPORTATION: INDICATORS	Indicator: Commuter mode split	2010	Drove alone: 79% Carpooled: 9% Transit: 4% Walked: 2% Other: 6%	2022	Drove alone: 68% Carpooled: 6% Transit: 2% Walked: 1% Other: 23%	Drove alone: -11 points Carpooled: -3 points Transit: -2 points Walked: -1 point Other: +17 points	United States Census Bureau	2022 data shows extended impacts of COVID-19 pandemic, with a sustained increase in remote work.
	Indicator: Transit ridership	2010	3,959,935	2022	2,923,058	-26%	Regional Transportation District, Service Development Department	Data derived from RTD reports; data reflects the average annual ridership based on average total daily passengers at each bus and light rail stop in Lakewood. Ridership trend is rising again following impacts of COVID-19 pandemic.
	Indicator: Percentage of household income spent on transportation	2013	19%	N/A	N/A	N/A	Center for Neighborhood Technology (CNT) H + T Affordability index	Due to challenges with data assumptions and lack of consistent methodology, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.
	Indicator: Bicycle level of service	-	-	-	-	-	-	Methodology undetermined.
	Indicator: Number of miles of bike trails and routes and number and length of missing segments	2015	317 mi. of trails and routes	2022	342 mi. of trails and routes	+8% for trails and routes	City of Lakewood Public Works Departments	Includes bike lanes, paved shoulders, shared roadways and shared use paths. Bike lanes and paved shoulders reported as lane miles; shared roadways and shared use paths reported as centerline miles.
	Indicator: Bicycle traffic counts	2017	Garrison St @ 500: 50 Bear Creek Trail E. of Estes: 106	2022 2021	Garrison St @ 500: 67 Bear Creek Trail E. of Estes: 184	Garrison St @ 500: +34% Bear Creek Trail E. of Estes: +74%	City of Lakewood Public Works Department	Reported as average weekday usage.
	Indicator: Number of alternative fuel vehicles in Lakewood	2015	Jeffco: 275	2023	Jeffco: 13,007	Jeffco: +4,630%	Colorado Energy Office	Data reported is countywide and includes only BEV and PHEV electric vehicles. Data for other fuel types not readily available.
	Indicator: Number of alternative fuel vehicles in the City's fleet	2015	5	2022	6	+20%	City of Lakewood Public Works Department	First Generation Prius Hybrid, two Chevy Volts, Honda Civic, Ford Escape, and Ford Explorer.
	Indicator: Number of alternative fuel stations in Lakewood	2015	7	2023	26	+35%	US Department of Energy	The number of LPG stations declined from 4 to 2 between 2020 and 2021. The number of EV stations increased from 17 to 23 between 2021 and 2022. The total number of EV charging ports is 73.
	Indicator: Average miles per gallon of vehicles in Lakewood	-	-	-	-	-	Colorado Department of Revenue, Division of Motor Vehicles	Data not available.

STATUS OF IMPLEMENTATION STRATEGIES

The rating system used in this report places implementation strategies into four categories:

	The strategy implementation is complete .
	Significant progress has been made on implementing this strategy.
	Implementation is underway .
	Implementation has not started .



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
CLIMATE CHANGE & ADAPTATION		CCA1-A Greenhouse Gas Data Collection, Tracking and Reporting. <i>Regularly monitor Lakewood's greenhouse gas emissions.</i>	Community GHG inventories have been completed for 2007, 2015, 2018, and 2021. The next inventory will likely be completed in 2025 using 2024 data. A Municipal GHG inventory is also planned for 2025.
		CCA1-B Greenhouse Gas Reduction Strategies. <i>Utilize emission reduction assessments to prioritize and implement greenhouse gas reduction strategies.</i>	The 2022 Article 13 Sustainable Development updates to the zoning ordinance included a GHG Performance Standard for all new development and a GHG Mitigation Program to help developments offset their emissions. Fees-in-lieu collected fund a Climate Protection Program to implement GHG reduction strategies. Staff has also started the planning process for Benchmarking and Building Performance standards.
		CCA1-C Climate Change Vulnerability Study <i>Conduct a climate change vulnerability assessment, recognizing that future conditions and threats will be different from current or historical conditions.</i>	The Jefferson County Multi-Hazard Mitigation Plan was adopted in December 2021, and includes impacts of climate change on local hazards. In 2023, Sustainability staff received a FEMA HMPG grant to further explore the social vulnerabilities associated with climate change in Lakewood. The Climate Hazard & Social Vulnerability Report is anticipated to be completed by early 2025.
		CCA1-D Climate Preparedness Plan <i>Based on the climate change vulnerability study, develop a climate preparedness plan to prepare for multiple climate futures.</i>	The Jefferson County Multi-Hazard Mitigation Plan was adopted in December 2021, and includes impacts of climate change on local hazards. In 2023, Sustainability staff received a FEMA HMPG grant to further explore the social vulnerabilities associated with climate change in Lakewood. The Climate Hazard & Social Vulnerability Study is anticipated to be completed by early 2025. The study results will inform other planning efforts and help determine what specific Climate plans may be needed.



Complete



Significant Progress



Implementation Underway



Not Started

ENERGY, WATER, & THE BUILT ENVIRONMENT	PROGRESS	STRATEGY	NOTES
		BE1-A Renewable Energy Transmission and Generation <i>Expand renewable energy generation and access while ensuring necessary transmission infrastructure.</i>	Ongoing opportunity to prioritize as part of the current Energy Futures Collaborative with Xcel Energy. Renewable sources of electricity generation expected to increase annually as part of Xcel's Renewable Energy Plan.
		BE1-B District-Scale Sustainability <i>Establish unique districts within Lakewood where community sustainability goals are achieved through customizable guidelines.</i>	Federal Center property was originally identified as a potential site for this strategy. No alternative site has yet been identified.
		BE1-C Sustainable Energy and Water Resource Center <i>Establish a resource center to provide information and consulting services to residents and businesses related to energy and water conservation and renewable energy generation.</i>	Implementation will be ongoing to ensure up-to-date resources.
		BE1-D Municipal Renewable Energy Generation <i>Develop a municipal renewable energy generation strategy to increase the percentage of municipal energy and fuel generated from renewable sources such as wind, solar, advanced biofuels and other alternatives to fossil fuels.</i>	This is an ongoing prioritized strategy for implementation. Staff has identified several pathways that could facilitate 100% renewable electricity for municipal buildings. A solar feasibility study was completed in 2022 to identify next steps for on-site solar production.
		BE2-A Efficiency in Resource Intensive Buildings <i>Target resource intensive buildings for efficiency improvements.</i>	Staff is developing a Benchmarking and Building Performance program for Lakewood's largest buildings. In 2023 and 2024, Lakewood launched its first residential water incentive program to reduce outdoor water use.
		BE2-B Reporting & Benchmarking Energy and Water Use <i>Develop a campaign to encourage voluntary benchmarking of energy and water consumption at the building or site scale through the use of utility data tracking software.</i>	In 2020, the state of Colorado passed legislation establishing benchmarking and future performance standards for buildings over 50,000 square feet. In 2022, Lakewood reserved space within the Sustainable Development Standards to implement a local benchmarking requirement. Work on a Benchmarking and Building Performance ordinance is underway.
		BE2-C Resource Efficient Municipal Facilities <i>Effectively manage and reduce municipal energy and water use.</i>	Continued implementation of utility management software and energy performance contracts. A new sustainable operations specialist was hired in 2024 to focus on the city's internal sustainability efforts, including increasing municipal facility efficiency..
		BE2-D Resource Efficient Building Codes <i>Conduct a review of the newest edition of building and energy codes on a regular basis to ensure the best fit for protecting life and safety, economic climate and support of city sustainability goals.</i>	The 2021 International Energy Conservation Code (IECC) was adopted in 2023. The State of Colorado adopted a Model Electric-Ready Code with provisions for EV charging requirements and solar readiness that must be included in the next local building code update.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
ENERGY, WATER, & THE BUILT ENVIRONMENT		BE3-A LEED Standards for Municipal Buildings <i>Adopt an ordinance requiring that all newly constructed municipal buildings with year-round occupancy meet at least LEED Silver standards from the USGBC.</i>	While a formal policy for municipal buildings has not been adopted, other development standards also apply to municipal buildings. LEED Silver or Gold certification is included as an option to fulfill Enhanced Development Menu requirements in Article 13 of the zoning ordinance. LEED certifications may also help municipal buildings meet State and local energy benchmarking and performance standards.
		BE3-B Green Building Construction and Retrofits <i>Target significant developments for green building and sustainable site design support, including minimizing hazardous materials, creating healthy indoor spaces, resource efficiency and using locally and sustainably sourced materials.</i>	Resources for developers are available in the city's Energy and Water Resource Center. Green building certifications are available as an option to fulfill Enhanced Development Menu requirements for new construction and major remodels and to help mitigate emissions for the Greenhouse Gas Performance Standard, both part of the 2022 Article 13 updates. Efforts to create programs to help retrofit existing buildings and to establish a local benchmarking standard are underway.
		BE3-C Sustainable Site Planning and Development <i>Integrate key elements of the Sustainable Sites Initiative (SSI) to integrate into the city's site planning standards.</i>	Various elements were adopted as part of the Lakewood Development Dialogue zoning code update process in 2018, and updated through the 2019 Enhanced Development Menu and 2022 Sustainable Development Standards amendments. Additional opportunities for sustainable site planning and design will be considered as part of updates to the Comprehensive Plan and other regulatory documents currently underway and anticipated for adoption in 2025.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
SUSTAINABLE ECONOMY		<p>SE1-A</p> <p>Local and Healthy Food <i>Develop a comprehensive strategy in order to increase production, availability, and consumption of locally grown, affordable, and healthy food.</i></p>	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
		<p>SE1-B</p> <p>Local Products and Services <i>Develop a comprehensive strategy in order to increase the production, availability, and consumption of local products and services.</i></p>	The Economic Development team established the Lakewood Local brand, webpage, and online map to help residents identify local businesses that are open in their area during the COVID-19 recovery.
		<p>SE1-C</p> <p>Live Local and Hire Local Campaign <i>Develop a brand and marketing campaign that promotes use of local goods and services along with a hire local Lakewood campaign to encourage businesses to hire local talent.</i></p>	The Economic Development team established the Lakewood Local brand, webpage, and online map to help residents identify local businesses that are open in their area during the COVID-19 recovery.
		<p>SE1-D</p> <p>Local Investment <i>Facilitate investment and entrepreneurship in the local economy.</i></p>	Existing programs are available through partner agencies and organizations.
		<p>SE1-E</p> <p>Sustainable Business Hub and Certification Program <i>Form a dynamic community to foster a self-reliant local economy, increase adoption of sustainable business practices, and set a standard for business sustainability by connecting businesses to local producers, potential employees, the education community, technical resources, existing sustainability and economic development programs, and funding opportunities.</i></p>	Businesses can participate in state-level programs through the Colorado Green Business Network.
		<p>SE2-A</p> <p>Self-Sufficiency Education <i>Host events and provide information for residents to encourage self-sufficient household practices.</i></p>	The online Sustainability Resource Center provides information on various sustainable practices. Sustainable Neighborhoods host educational workshops and events for Lakewood residents with assistance from city staff.
		<p>SE2-B</p> <p>Complete Neighborhood Index <i>Develop an index for assessing the completeness of neighborhoods in order to reduce transportation costs, build community cohesion, increase housing values, and provide other household and community benefits.</i></p>	Local strategic planning efforts, such as the Union Neighborhood Vision Plan and the ArtLine Framework Plan, help assess the completeness of those areas based on their individual contexts. Establishing a completeness index to apply to future planning efforts may be a desirable action step following the Comprehensive Plan update in 2025.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
ZERO WASTE		ZW1-A Zero Waste Outreach and Education Campaign <i>Develop sector-specific outreach materials and educational campaigns to promote zero waste concepts and resources.</i>	Recycle! It's Good for Lakewood Campaign was launched in 2018, and resources are available on Lakewood.org. Outreach and education efforts are ongoing.
		ZW1-B Municipal Facility Zero Waste Programs <i>Develop customized zero waste strategies for new and existing municipal facilities based on the type of use and users, waste characteristics and unique constraints.</i>	Compost and recycling services to municipal facilities includes the Civic Center buildings, four Head Start facilities and Heritage Lakewood Belmar Park. An additional full-time employee was approved in the 2024 budget to focus on citywide zero waste efforts.
		ZW1-C Green Procurement Program <i>Expand the city's green procurement program for the preferential purchase of green products and services and provide guidance for implementation.</i>	Previous efforts include staff trainings, group purchasing of sustainable products and preferred vendor lists for sustainable and healthy caterers. Updates to these materials are ongoing.
		ZW1-D Municipal Zero Waste Tools <i>Develop resources and tools for City employees and facility users to support zero waste events, meetings and operations.</i>	Ongoing expansion of toolkits, resources and trainings.
		ZW1-E Reuse and Resource Recovery Facilities <i>Assess existing resource recovery facilities and infrastructure for capacity and material limitations in order to expand opportunities for landfill diversion.</i>	Some assessments completed in support of related projects including identifying outlets for organic waste, household hazardous waste, hard-to-recycle materials and construction and demolition waste. Resources are available on the sustainability website, and free, custom hard-to-recycle collection boxes are available for residents to help in-home recycling.
		ZW1-F Yard Waste Collection Site and Services <i>Establish a collection site and provide supportive services to divert yard waste from landfills and generate revenue for expanded recycling and sustainability services.</i>	Periodic community collection events provided by city. Several neighborhood-initiated leaf collections through the Sustainable Neighborhoods Program. Lakewood participated in the effort to establish a new slash recycling site in Jefferson County at Tincup Ridge.
		ZW2-A Residential Curbside Recycling and Waste Diversion <i>As an immediate priority, present City Council with potential programs and policies for residential waste haulers that address the inclusion of recycling services in collection contracts, minimize impacts to neighborhoods from traffic and noise and explore the use of variable rate collection systems where the cost of service is based on the volume of trash generated.</i>	Staff initiated a robust community outreach effort in 2018 and used the collected feedback and additional research to compile a comprehensive report on the existing residential waste collection system in January 2019. In June 2019, staff produced a report detailing alternative residential waste collection systems for Lakewood to consider. City Council referred a question to the ballot, and in November 2019 voters opted not to proceed with a contracted hauler system. This implementation item is complete.
		ZW2-B Residential Organic Waste <i>Provide opportunities for residents to divert organic waste from landfills.</i>	Several neighborhood-initiated leaf collections through the Sustainable Neighborhoods Program. City classes on backyard composting. Workshops on composting through Sustainable Neighborhoods. Growing options for service providers for organics collection. Compost collection was incentivized for new development through the 2022 Sustainable Development Standards.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
ZERO WASTE		<p>ZW2-C</p> <p>Multifamily Recycling and Composting <i>Assist multifamily developers, owners, managers and homeowner associations in implementing recycling and composting programs in residential developments.</i></p>	The 2022 Sustainable Development Standards include options to incentivize recycling and composting through both the Enhanced Development Menu and Greenhouse Gas mitigation strategies. The State of Colorado adopted the Producer Responsibility Program for Statewide Recycling Act that will fund recycling service to all residents in the state beginning in 2026.
		<p>ZW3-A</p> <p>Commercial Waste Assessment and Prioritization <i>Assess commercial waste systems to identify gaps in resource recovery facilities and prioritize the development of programs and policies.</i></p>	Lakewood collaborates with regional partners and organizations, including Recycle Colorado and Circular Colorado, to identify infrastructure and facility needs and to promote end markets for recycled materials.
		<p>ZW3-B</p> <p>Commercial Waste Diversion Programs and Policies <i>Develop commercial waste diversion programs and policies that support responsible disposal choices, enhance efficiency, minimize environmental impacts and convert waste into valuable products.</i></p>	
		<p>ZW3-C</p> <p>Construction and Demolition Waste <i>Adopt construction and demolition (C&D) waste diversion requirements and provide supportive materials for businesses.</i></p>	The building code requires developments over 2,500 sf to recycle C&D waste, and zoning code updates adopted in 2022 further incentivize compliance through a performance deposit and refund program. Resources are available for contractors online and at city offices.



Complete



Significant Progress



Implementation Underway



Not Started

PROGRESS	STRATEGY	NOTES
	<p>CC1-A</p> <p>Diversity in Civic Participation and Leadership <i>Build capacity for residents of all ages, abilities and backgrounds to participate in civic life and assume leadership roles in order to ensure accurate representation of the city's diverse population.</i></p>	Multiple projects on LakewoodTogether.org and LakewoodSpeaks.org. Several neighborhood leaders from the Sustainable Neighborhoods Program have been appointed and elected to City Council and boards and commissions.
	<p>CC1-B</p> <p>Open and Honest Communication <i>Support the city's core community value of open and honest communication.</i></p>	Expanded multilingual resources provided by the City Manager's Office, and employee intercultural awareness trainings provided by the Human Resources Department.
	<p>CC1-C</p> <p>Social Resilience and Personal Networks <i>Strengthen and expand community social networks to foster collaboration, communication and cooperation.</i></p>	Ongoing development and support of a variety of programs and networks.
	<p>CC1-D</p> <p>Sustainable Neighborhoods Program <i>Expand the Sustainable Neighborhoods Program and the Sustainable Neighborhood Network in order to encourage direct resident action, assist residents in enhancing neighborhood sustainability and reduce the environmental footprint of residents.</i></p>	The Sustainable Neighborhood Network became a 501(c)(3) organization in 2021, and now includes 10 Lakewood neighborhoods and the cities of Denver, Fort Collins, and Wheat Ridge, Colorado, Portland, Maine, and Sedona, Arizona. Continued expansion will require additional resources (staff and funding).
	<p>CC1-E</p> <p>Arts, Culture, and Events <i>Recognize arts, culture and community events as important components of sustainability.</i></p>	Significant expansion of creative industries and ongoing integration of art and sustainability projects and programs. Public art and social connection amenities are incentivized in new development through the Enhanced Development Menu.
	<p>CC2-A</p> <p>Regional Health Efforts and Organizations <i>Collaborate with regional partners in order to identify critical issues, develop programs and policies, and track effectiveness.</i></p>	Ongoing participation by city staff in county efforts and programs.
	<p>CC2-B</p> <p>Local and Healthy Food <i>Develop a comprehensive strategy in order to increase production, availability and consumption of locally grown, affordable and healthy food.</i></p>	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
	<p>CC2-C</p> <p>Community Physical Wellness Programs <i>Promote healthy eating and active living programs in businesses, schools and other community organizations.</i></p>	Several ongoing programs with local schools through Sustainable Neighborhoods Program. Overlaps with CC2-A.
	<p>CC2-D</p> <p>Access to Physical Activity Facilities and Programs <i>Increase use of physical activity facilities and participation in recreation classes and programs.</i></p>	Variety of projects/services including Lakewood Possibilities Fund, development of Carmody Universal Playground, Addenbrooke Outdoor Fitness court, and Green Mountain Recreation Center Fitness Court. Community Resources Dept. adopted the ImagineTomorrow! Master Plan update in 2023.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
COMMUNITY COHESION & PUBLIC HEALTH		<p>CC2-E</p> <p>Design for Active Living Integrate key elements of the Center for Active Design's Active Design Guidelines into the city's development guidelines.</p>	
		<p>CC3-A</p> <p>Affordable Housing Create and periodically update a locally-adopted comprehensive housing strategy in collaboration with other jurisdictions and organizations in the region.</p>	Strategic housing plan was adopted in 2023. Development incentives through Enhanced Development Menu and Residential Growth Limitation ordinance to provide affordable housing. The Comprehensive Plan update will integrate additional policies to address affordability, anticipated for adoption in 2025.
		<p>CC3-B</p> <p>Community Happiness Catalyze happiness by designing spaces and supporting services that support mental wellness.</p>	Multiple city programs support mental wellness including recreation, parks, and public art.
		<p>CC3-C</p> <p>Aging In Place Develop and support programs, policies and resources that allow residents to age in place.</p>	Handful of programs/efforts underway related to this strategy including the housing study, Sustainable Neighborhoods Program projects, recreation programs, etc. The 2022 Sustainable Development Standards included incentives for Universal Design.
		<p>CC3-D</p> <p>Access to Human and Family Services Support programs and services that enable residents to meet their fundamental needs.</p>	Variety of programs offered by the city and community organizations. New homeless navigator positions have been added to help homeless people access services.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
NATURAL SYSTEMS		<p>NS1-A</p> <p>Culture of Ecological Stewardship <i>Facilitate communitywide stewardship of Lakewood's natural heritage by advancing understanding of the importance of biological diversity and the value of ecosystem services.</i></p>	Culture of stewardship across city departments. Assorted programs and outreach efforts to the public.
		<p>NS1-B</p> <p>Landscape and Agricultural Stewardship <i>Reduce the impacts to ecosystem health, air and water quality resulting from landscaping and agricultural practices in Lakewood.</i></p>	Significant number of workshops and projects through the Sustainable Neighborhoods Program including the Bee Safe initiative.
		<p>NS1-C</p> <p>Biodiversity Inventory, Classification and Best Management Practices <i>Identify natural habitat types in the city and establish management areas based on land use context.</i></p>	Inventory methodology and process was outlined in 2016, but staff was unable to secure grant funding to proceed. No additional progress at this time.
		<p>NS1-D</p> <p>Green Infrastructure Network <i>Establish a Green Infrastructure Network (GIN) to strategically facilitate habitat protection, restoration and connectivity across the urban landscape.</i></p>	
		<p>NS1-E</p> <p>Municipal Natural Resource Management <i>Manage municipal natural areas, parks, right-of-ways and other properties to maximize ecological health and biological diversity.</i></p>	Assorted programs supporting water quality, nontoxic pest and noxious weed management, including ecosystem-based management practices and reducing pesticide usage to promote pollinator health.
		<p>NS2-A</p> <p>Stormwater Management and Flood Control <i>Increase the capacity of Lakewood's landscape to manage stormwater and protect water quality.</i></p>	Ongoing efforts to complete various stormwater management projects and programs, implemented by the Public Works Department. Increased use of nature-based solutions for water quality.
		<p>NS2-B</p> <p>Cooling and Carbon Sequestration <i>Adapt to increased temperatures and reduce carbon in the atmosphere through healthy vegetation, tree canopy coverage and use of low-reflective materials.</i></p>	The Enhanced Development Menu includes incentives for developments to reduce urban heat islands and promote healthy vegetation. The city Forestry Dept completed a tree canopy assessment in 2022 to determine what areas of the city need additional plantings. Sustainability staff participates in regional learning opportunities about carbon sequestration.



Complete



Significant Progress



Implementation Underway



Not Started

PROGRESS	STRATEGY	NOTES
TRANSPORTATION	 <p>T1-A Environmentally Friendly and Efficient Street Maintenance Operations <i>Protect the environment, reduce air and water pollution and improve vehicle efficiency while maintaining a high level of service in street maintenance operations.</i></p>	Street sweeping material screening and recycling program. Anti-idling program initiated to reduce idling time of city vehicles.
	 <p>T1-B Roadside Vegetation <i>Increase the viability and extent of roadside landscaping and vegetation through coordinated planning efforts to assess infrastructure, design, plant selection and street maintenance operations.</i></p>	Various streetscape and median planting programs completed or underway.
	 <p>T1-C Street and Signal Lights <i>Convert street and signal lights to LEDs or other high efficiency technologies.</i></p>	All city-owned lights use high efficiency lighting. Major roadblock to successful implementation is Xcel ownership and tariff rates for existing streetlights.
	 <p>T1-D Sustainable Street Repair and Construction <i>Ensure sustainable street repair and construction.</i></p>	Street operations continue to utilize recyclable materials and to recycle street construction waste.
	 <p>T2-A Bicycle and Pedestrian Planning and Outreach <i>Remove barriers to bicycle and pedestrian transportation through a comprehensive strategy.</i></p>	The city's alternative transportation coordinator is leading the implementation of new bicycle facilities and continued coordination with the Lakewood Bicycle Advisory Team. An update to the Bicycle Master Plan is underway and anticipated for adoption in 2025.
	 <p>T2-B Transportation Management Services <i>Collaborate with west metro agencies to develop an approach, or several, to provide sustainable transportation management services.</i></p>	The West Corridor Transportation Management Association was launched to promote convenient transportation options along the W Line corridor and throughout Lakewood, Jefferson County, Golden and west Denver.
	 <p>T2-C Way To Go <i>Utilize and promote the suite of transportation management tools available through Denver Regional Council of Governments' Way to Go program.</i></p>	Implementation will be ongoing.
	 <p>T2-D City Fleet <i>Develop a strategic plan to increase fuel efficiency and incorporate alternative fuel vehicles into the city vehicle fleet.</i></p>	The fleet now includes several alternative fuel vehicles, including some electric pickup trucks, with plans to purchase additional EVs if suitable options exist as vehicles are due for replacement. An EV Implementation Plan was completed in early 2024 to guide future efforts. An anti-idling policy for fleet vehicles reduces emissions and improves efficiency and maintenance costs.



Complete



Significant Progress



Implementation Underway



Not Started

APPENDIX C

SUSTAINABLE NEIGHBORHOOD PROJECTS

FROM PROGRAM CERTIFICATION YEAR JUNE 2022 - MAY 2023

TOTAL NEIGHBORHOOD PARTICIPATION JUNE 2022-MAY 2023

NEIGHBORHOOD NAME	PARTICIPATION	CREDITS EARNED	CERTIFICATION STATUS
Applewood	755	165	Outstanding
Belmar	18	61	Participating
Eiber	1168	240	Outstanding
Green Mountain	1357	120	Outstanding
Lake Lochwood Village	117	86	Outstanding
Morse Park	931	148	Outstanding
O'Kane Park	164	61	Participating
South of 6th	171	87	Outstanding
Southern Gables	510	122	Outstanding
Weir Gulch Gardens	119	80	Outstanding
*Note- four events with multiple planners:			
• Earth Day Celebration (10 neighborhoods)	1,100		
• Electronics and Metal Recycling (3 neighborhoods)	620		
• Citywide Paint Recycling (6 neighborhoods)	416		
• Pollinator Workshop: Bird & Bee-Friendly Fall Cleanup	8		
TOTAL	7,454	1,170	

PROGRAM GOAL AREAS

- 
LAND: Stewardship and conservation of ecosystems and resources
- 
PEOPLE: Social vitality through community interaction, partnerships, and outreach
- 
WATER: Conserving water resources and improving water quality
- 
ENERGY: Energy conservation and use of renewable energy sources
- 
AIR: Reducing emissions, improving both outdoor and indoor air quality

CLUB MEETINGS JUNE 2022-MAY 2023

					PROGRAM GOAL AREAS SUPPORTED				
NEIGHBORHOOD	CLUB NAME	ATTENDANCE	CREDITS EARNED	NOTES					
Eiber	Food Rescue Team	288	9		X	X			
Eiber	Sustainable Eiber Steering Committee	64	10		X	X	X	X	
Eiber	Sustainable Eiber Garden Club	4	1		X	X	X		X
O'Kane Park	Sustain O'Kane Bike Club	13	3			X		X	X
	TOTAL CLUBS = 4	348	23		3	4	2	2	2

PROJECTS COMPLETED JUNE 2022-MAY 2023

				PROGRAM GOAL AREAS SUPPORTED				
NEIGHBORHOOD	PROJECT NAME	CREDITS EARNED	NOTES					
Applewood	Stober Community Garden First Growing Season	65	12 identified goals achieved	X	X	X		
Belmar	Belmar Community Garden 2021	35	6 identified goals achieved	X	X	X	X	X
Belmar	Belmar Pond Enhancement Project	5	1 identified goal achieved	X	X	X	X	X
Eiber	Wildlife of Lakewood Photo Exhibition	30	5 identified goals achieved	X	X			
Eiber	Pollinator Program (Bee Safe) Lakewood Relaunch & Campaign 2022	15	3 identified goals achieved	X	X			X
Lake Lochwood Village	Update and Improve Irrigation	10	1 identified goal achieved and closed project	X		X		
Lake Lochwood Village	Common Area Landscaping/Gardening	5	1 identified goal achieved	X	X			
Morse Park	Community Garden Activities for Summer 2022	30	5 identified goals achieved	X	X	X	X	X
Southern Gables	Community Garden Activities for Summer 2022	30	5 identified goals achieved	X	X	X	X	X
	TOTAL PROJECTS = 9	195		9	8	6	4	5

SPECIAL EVENTS JUNE 2022-MAY 2023

PROGRAM GOAL AREAS SUPPORTED

NEIGHBORHOOD	EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES	PROGRAM GOAL AREAS SUPPORTED				
									
Applewood	Stober Community Garden Grand Opening Potluck	95	13		X	X			
Applewood	Applewood Community Festival	200	12		X	X			
Applewood	Sustainable Applewood Annual Octoberfest	400	13			X			
Applewood	2nd annual Pie Social	60	9			X			
Belmar	Belmar Neighborhood Trash Pickup	11	6		X	X			
Belmar	Belmar Neighborhood Trash Pickup	7	6		X	X			
Eiber	Neighborhood cleanup	22	6		X	X			X
Eiber	5th Annual Eiber Sustainable Garden Tour	107	10		X	X	X		X
Eiber	Homelessness: A Lakewood Community Forum	120	12			X			
Eiber	Community Garden Social	20	7		X	X	X		
Eiber	Denver Metro Green Homes Tour	67	8		X	X	X	X	X
Eiber	LUMC Hospitality Closet Supply Drive	7	6			X			
Eiber	West Eiber Block Party	40	7			X			
Eiber	2022 Fall Seed Swap	12	6		X	X	X		
Eiber	Holiday Happy Hour	17	6			X			
Eiber	Eiber Elementary Holiday Gift drive 2023	6	6			X			
Eiber	Emergency Cold Weather Shelter	28	6			X			
Eiber	Environmental Justice grant planning with Jefferson County Public Health Department	2	6		X	X	X	X	X
Eiber	Puzzle swap	30	6			X			
Eiber	2023 Wildlife of Lakewood photo exhibition opening reception	200	12		X	X			
Eiber	Spring 2023 seed swap	23	6		X	X	X		
Eiber	Eiber Neighborhood Association Annual Meeting	50	8			X			
Eiber	Community Garden Meet & Greet	20	6		X	X	X		X
Green Mountain	Seedling and Seed Swap	72	8		X	X	X		X
Green Mountain	Garden Tour 2022	90	10		X	X	X		
Green Mountain	Third Annual Pumpkin Composting Give & Take Event	1000	12		X	X	X		
Green Mountain	Garden Swap	102	10		X	X	X		

SPECIAL EVENTS JUNE 2022-MAY 2023 (CONTINUED)

PROGRAM GOAL AREAS SUPPORTED

NEIGHBORHOOD	EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES					
Lake Lochwood	Musical Evening	30	8			X			
Lake Lochwood	Square Dancing	13	6			X			
Lake Lochwood	Autumn Food Drive	35	8			X			
Lake Lochwood	Fall Food Drive	12	6			X			
Lake Lochwood	Denver Water Speaker	18	8				X		
Lake Lochwood	Fire Safety visit at local fire department	4	6		X	X	X		X
Morse Park	Bike to Work Day	49	8		X	X		X	X
Morse Park	Glens + Friends Art Market	300	13		X	X			
Morse Park	Rain Garden Cleanup	11	6		X	X	X	X	X
Morse Park	Ice Cream Social and Seed / Garden Exchange	80	8		X	X			
Morse Park	Paper Shredding Event	89	10		X	X	X		
Morse Park	Slater Elementary Garden Petting Zoo and Ice Cream	402	12		X	X			
O'Kane Park	National Night Out/Block Party	110	12			X			
O'Kane Park	Relaunch Planning Meetings	16	6		X	X	X	X	X
O'Kane Park	Relaunch Meeting	25	6		X	X	X	X	X
South of 6th	Mid-Lakewood Civic Association Picnic	100	13		X	X			
South of 6th	Fruit Picking	6	7			X			X
South of 6th	Wetland litter cleanup	2	7		X		X		
South of 6th	Seed Swap	15	6		X	X			
South of 6th	Field St Block Party	40	9			X	X		
Southern Gables	School Garden Day	260	12		X	X	X	X	X
Southern Gables	Green Gables Science Night	200	12		X	X	X	X	X
Southern Gables	Relaunch Meeting	50	10		X	X	X	X	X
Weir Gulch Gardens	Neighborhood Bike Ride	10	6			X			X
Weir Gulch Gardens	4th of July Martindale Block Party	35	8			X			
Weir Gulch Gardens	Trash Clean-Up	16	6		X	X			
Weir Gulch Gardens	Pumpkins & Leaves Compost Drop-off	27	7		X				
Weir Gulch Gardens	Neighborhood Gathering and Seedling Swap	25	7		X	X			

SPECIAL EVENTS JUNE 2022-MAY 2023 (CONTINUED)

NEIGHBORHOOD	EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES	PROGRAM GOAL AREAS SUPPORTED				
									
Multiple	Citywide Paint Recycling	416	12 each	Applewood, Eiber, Green Moutain, Lake Lochwood Village, Morse Park, O'Kane Park, Southern Gables	X	X	X	X	X
Multiple	Metal and Electronics Recycling	620	12 each	Applewood, Eiber, and Morse Park	X	X	X	X	X
Multiple	Lakewood's Earth Day Celebration	1,100	12 each	Applewood, Eiber, Green Moutain, Lake Lochwood Village, Morse Park, O'Kane Park, South of 6th, Southern Gables, Weir Gulch Gardens	X	X	X	X	X
	TOTAL SPECIAL EVENTS = 58	6924	684		38	55	25	12	19

WORKSHOPS JUNE 2022-MAY 2023

NEIGHBORHOOD	WORKSHOP NAME	ATTENDANCE	CREDITS EARNED	NOTES	PROGRAM GOAL AREAS SUPPORTED				
									
Eiber	Summer Garden Challenges	8	4		X	X	X		
Eiber	Build-a-Pile Composting Workshop	9	5		X	X	X		X
Eiber	Resilience Circle: Home Energy Efficiency	11	4		X	X	X	X	X
Eiber	Winter Sowing with Native Plants	17	4		X	X	X		X
Green Mountain	Walk and Talk about Native Plants	22	4		X	X	X		
Green Mountain	Reverse Workshop Follow-Up	4	4		X	X	X	X	
Green Mountain	Turning Your Dirt Into Soil	8	4		X	X	X		
Green Mountain	Walk and Talk about Native Plants- Fall	13	4		X	X	X		
Green Mountain	Sheet Mulching and Native Lawns	20	4		X	X	X		X
Green Mountain	Winter Sowing	26	4		X		X	X	
Lake Lochwood Village	Healthy Aging	5	5			X			
South of 6th	Backyard Composting Workshop	8	5		X	X	X		X
Weir Gulch Gardens	Energy Efficiency Workshop	6	4			X		X	
Multiple	Pollinator Workshop: Bird- and Bee-Friendly Fall Cleanup	8	4 each	Eiber and Southern Gables	X	X			
	TOTAL WORKSHOPS = 15	165	63		13	14	11	4	5

2022-2023 MAP OF LAKEWOOD SUSTAINABLE NEIGHBORHOODS



This page intentionally left blank.

STAY INFORMED



Read the Sustainability Plan and Annual Reports online:

Lakewood.org/SustainabilityPlans



Learn More about Sustainability in Lakewood:

Lakewood.org/Sustainability

Lakewood.org/CurrentProjects



Sign Up for Our Newsletter:

Lakewood.org/SustainabilityNews



Follow Us on Social Media:

[@lakewoodsustainability](https://www.instagram.com/lakewoodsustainability)

Facebook.com/PlanLakewood

Instagram.com/LakewoodSustainability



Join the Lakewood Sustainability Cooperative:

Lakewood.org/scoop



Email Us:

Sustainability@Lakewood.org



Lakewood.org/green