



CITY OF LAKEWOOD

SUSTAINABILITY PLAN ANNUAL REPORT
2020-2021



Lakewood
Sustainability

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2020–2021

City of Lakewood Sustainability Division

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Thank you!

Published September 2021

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INTRODUCTION

A COMMUNITY MESSAGE FROM THE SUSTAINABILITY DIVISION —

The Sustainability Division prepared this 2020/21 Sustainability Plan Annual Report to highlight the key implementation efforts undertaken in the past year and to report on progress made toward achieving the community's adopted sustainability goals. This report includes a comprehensive compilation of data in support of the Sustainability Plan's 35 measurable targets and 90 sustainability indicators.

As our team compiled this year's report, we found ourselves experiencing conflicting emotions: both proud of the progress we are making while also feeling overwhelmed by the scale and immediacy of environmental, social, and economic challenges we face.

Indeed, significant progress has been made since the adoption of Lakewood's 2015 Sustainability Plan. In just six years we have reduced our communitywide Greenhouse Gas emissions by more than 12%, increased the percentage of renewable electricity powering municipal facilities to 52%, seen monumental growth in local food production, adopted a wide range of sustainable codes and development standards, expanded our multimodal infrastructure, engaged tens of thousands of residents through the Sustainable Neighborhoods Program, initiated efforts to understand and address the forces impacting

affordability, social inequity, and homelessness, along with dozens of other projects and initiatives outlined in the plan.

At the same time, we are increasingly experiencing the direct impacts of human-caused climate change right here in Lakewood and are watching these impacts reach across the globe in ways that seemed inconceivable just a few years ago. On August 9, 2021, the International Panel on Climate Change released its most recent climate assessment report. With little uncertainty the report concludes that human-induced climate change is already creating many weather and climate extremes in every region of the world in the form of heat waves, heavy precipitation, droughts, tropical cyclones, and wildfires. Additionally, the report notes that the global surface temperature will continue to increase until at least the mid-century even with rapid decarbonization. In short, climate change is no longer a challenge we will face some time in the future; it is directly affecting our environmental, economic, social, and personal well-being right here, right now.

Addressing this challenge head on and with purpose is the only option before us. The city of Lakewood must reduce our communitywide Greenhouse Gas emissions to 60% below 2018 levels by 2030 to contribute our share to the

global decarbonization effort. This means continuing to transition to clean sources of electricity and heating fuels, rapidly electrifying our vehicles and buildings, and establishing policies and building infrastructure that result in a significant reduction in the volumes of waste going to our landfills. At the same time, we need to strategically manage our urban ecosystems to optimize carbon sequestration to improve air and water quality and reduce our vulnerabilities to climate-related hazards like floods and extreme heat.

We have made significant progress in our effort to enhance our sustainability, but there is much more to be done. Tackling these urgent challenges and ensuring that we preserve a high quality of life for future generations of Lakewood residents will require strong commitments from the community and the municipal organization as well as passionate and dedicated leaders. We need everyone to stay informed and active in this effort to ensure we are accountable and successful. Learn more and stay engaged at Lakewood.org/Sustainability.

With gratitude,

The City of Lakewood Sustainability Division



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.

2020-2021 HIGHLIGHTS

Integrating Climate in Hazard Planning

Jefferson County underwent a multi-jurisdictional planning process to update the hazard mitigation plan, which is anticipated to be adopted by December 2021. For Lakewood, the updated plan has new actions to address climate change, including drainage improvements, cooling and carbon sequestration strategies, and grid resiliency advancements through renewable energy and battery storage. More information is available at <https://www.jeffco.us/488/Hazard-Mitigation-Plan>.

Future Climate Goals: Science-Based Targets

As a member of the Global Covenant of Mayors (GCoM) the city was recently provided science-based targets for reducing our Greenhouse Gas emissions. Science-based targets are climate goals in line with the latest climate science. They represent our community's share of the ambition necessary to meet the Paris Agreement commitment of keeping warming below 1.5°C. To achieve this goal, the Intergovernmental Panel on Climate Change (IPCC) states that we must reduce global emissions by 50% by 2030 and achieve climate neutrality by 2050. Lakewood's science-based target is significantly higher than the target established in the 2015 Sustainability Plan.

Lakewood's Science-Based 2030 Target:

60.7% emissions reduction below 2018 levels

Increasingly dry and warm conditions resulting from climate change may increase the risk of wildfire, like the one that occurred at Bear Creek Lake Park in February 2021. Photo credit: Bear Creek Lake Park

CLIMATE CHANGE AND ADAPTATION

2020–2021 PROGRESS SNAPSHOT

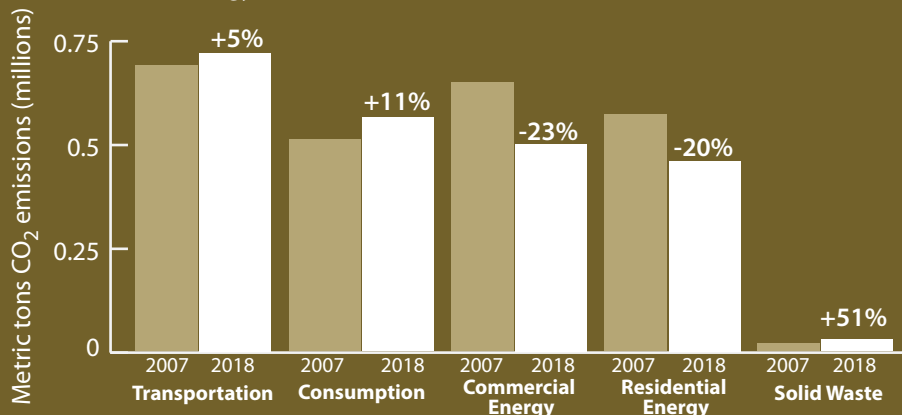
A full list of metrics can be found in Appendix A.

2025 TARGET	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)	2,162,112 mtCO ₂ e (2018)	-12%	The latest GHG inventory was completed in 2018, and measured in metric tons of carbon dioxide equivalent (mtCO ₂ e) using the Global Protocol for Community-scale GHG Inventories (GPC) methodology.	●
Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.	2,447,746 mtCO ₂ e (2007)	2,162,112 mtCO ₂ e (2018)	-12%		●

● The target is on track ● The target is not on track ● The target is TBD

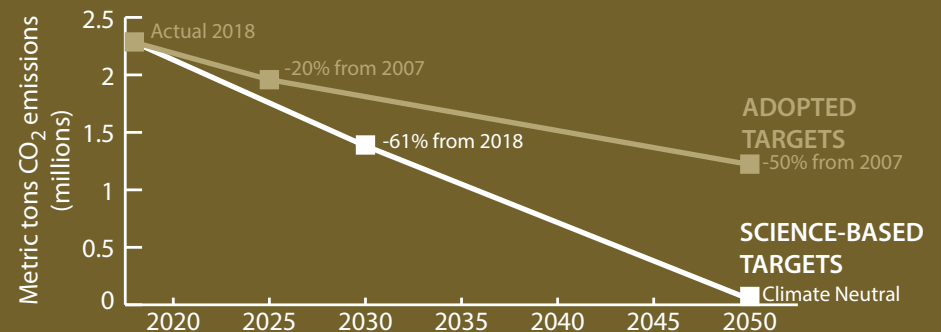
HOW HAVE OUR EMISSIONS CHANGED SINCE 2007?

Emissions from energy have decreased, while all other sectors have increased.



WHAT IS LAKEWOOD'S SHARE OF EMISSIONS?

Science-based targets represent our community's share of greenhouse gas emissions reductions to meet global climate commitments of keeping warming below 1.5°C.



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.

2020-2021 HIGHLIGHTS

A Greener Grid

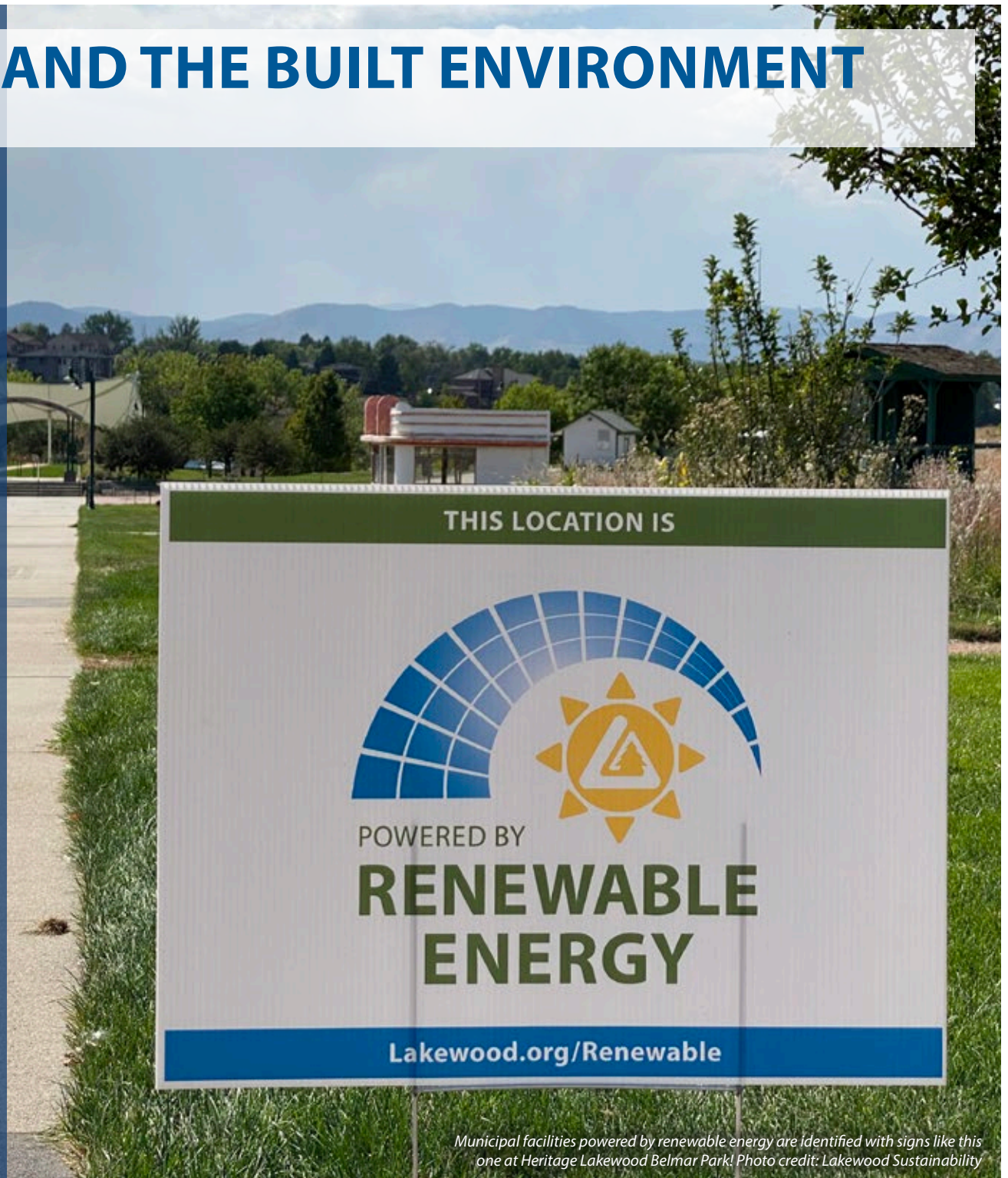
In 2020, approximately a third of Lakewood's electrical energy came from renewable sources. Over 4,000 Lakewood residents and businesses subscribed to Xcel Energy's renewable energy programs Windsource and Renewable Connect. Additionally, Xcel Energy increased renewable energy generation in its grid mix, particularly wind and solar energy.

Municipal Renewable Energy

Over 35 of the city's parks and facilities, including Heritage Lakewood and Belmar Park, are at or near 100% renewable electricity usage; for more information, visit Lakewood.org/renewable.

Progress Toward Sustainable Development

Lakewood's zoning ordinance includes sustainability standards for new large-scale development, called the Enhanced Development Menu (EDM). Projects over 20,000 square feet in gross floor area are required to earn points from the menu to ensure new developments efficiently use resources and contribute to the community's goals.



Municipal facilities powered by renewable energy are identified with signs like this one at Heritage Lakewood Belmar Park! Photo credit: Lakewood Sustainability

ENERGY, WATER, AND THE BUILT ENVIRONMENT

2020–2021 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)	52% (2020)	+40 points		●
Generate 45% of residential energy from renewable sources	12% (2010)	35% (2020)	+23 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)	33% (2020)	+21 points		●
Reduce municipal building and facility energy use intensity by 30%	.124 mmbtu/ft ² (2015)	0.105 mmbtu/ft ² * (2020)	N/A*	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)	2,928,268 MWh (2020)	+9%	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)	10,510,424 kgal (2020)	+20%	Data is weather normalized by Denver Water.	●
Increase the percentage of certified green buildings each year	6 buildings (2010)	24 buildings (2020)	+18	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 ● The target is TBD

SUSTAINABILITY THROUGH ZONING

Positive impacts on new development from the Enhanced Development Menu, Article 13 of the Lakewood Zoning Ordinance



LED OUTDOOR
LIGHTING



HEAT ISLAND
REDUCTION



LOW-WATER
LANDSCAPING



COMPOST &
RECYCLING

WHERE DOES LAKEWOOD'S ENERGY COME FROM?

2020 Lakewood Annual Community Energy Report by Xcel



26%



37%



31%



5%

Remaining 1% electrical energy from hydroelectric power or other.

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.

2020-2021 HIGHLIGHTS

The Living Wage Gap

A Living Wage (from MIT's Living Wage Calculator) is defined as the hourly wage needed to meet a minimum standard of living. For 2020, the living wage was calculated to be \$17.40 per hour for a single person in the Denver metro area. Only 44% percent of Lakewood households are estimated to earn at least the living wage of \$17.40 per hour per household member¹, a decline of 9 percentage points since 2010. For Hispanic/Latino, Black, Asian, and other minority households this percentage is significantly lower (see chart on P.11). The growing gap between average wages and minimum household expenses means that Lakewood is becoming unaffordable for a growing majority of households.

It is also important to note that the 2020 living wage is primarily based on 2019 data, and therefore does not reflect the economic impact of the COVID-19 pandemic.

2021 Lakewood Sustainability Awards

Seven sustainability awards were presented to local businesses, communities, and individuals. Awardees were recognized for their sustainable contributions to Lakewood including resource conservation, zero waste actions, and pollinator education. See all of the award winners at Lakewood.org/SustainabilityAwards.

Part of the COVID-19 response included creative space for temporary outdoor dining that allowed restaurants to stay open, like this parking lot patio at Pizzeria Forte in Applewood. Photo credit: Lakewood Sustainability

¹Methodology sourced from STAR Community Rating System Technical Guide.

SUSTAINABLE ECONOMY

2020–2021 PROGRESS SNAPSHOT

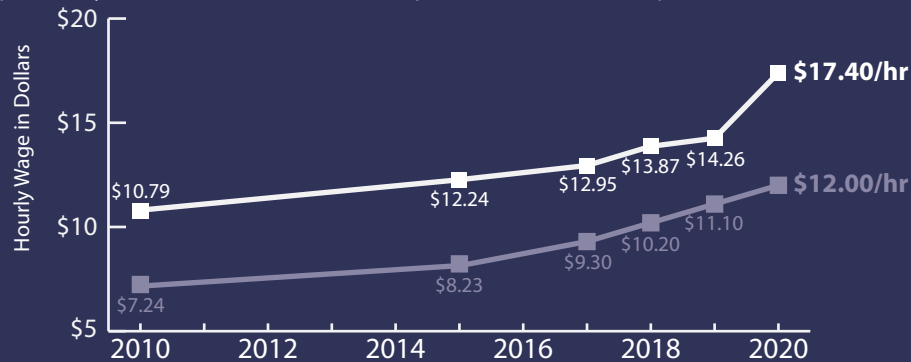
A full list of metrics can be found in Appendix A.

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Increase local food assets annually	37 (2015)	55 (2020)	+49%	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)	29,652 44% of households (2020)	-9 points	Methodology sourced from STAR Community Rating System Technical Guide utilizing data from 2019 American Community Survey and MIT Living Wage Calculator. 2020 Living Wage includes mostly 2019 expenses inflated to Q1 2020 values, therefore does not yet reflect the economic impact of the COVID-19 pandemic.	●

● The target is on track ● The target is not on track ● The target is TBD

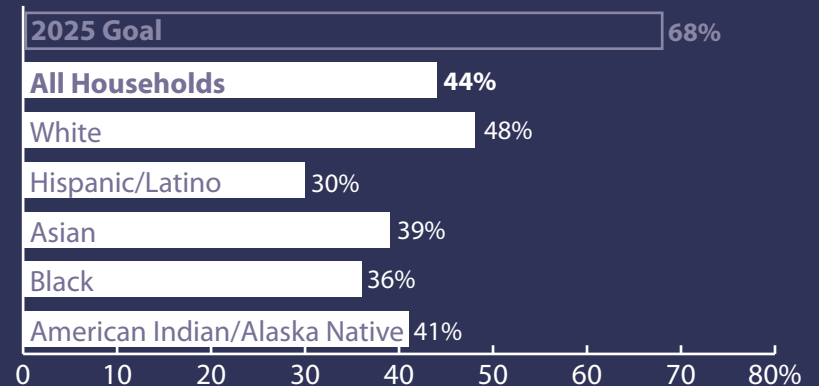
DENVER-AURORA-LAKEWOOD LIVING WAGE (Q1 2020) VS. COLORADO MINIMUM WAGE (JAN. 1, 2020)

The hourly wage necessary to meet basic needs increased over \$3 per hour from the previous year, even before economic impacts of the COVID-19 pandemic were felt



% HOUSEHOLDS IN LAKEWOOD ABOVE LIVING WAGE¹

While less than half of our community earns a living wage, people who are Hispanic/Latino are especially impacted by high costs of living and inadequate wages.



¹Methodology sourced from STAR Community Rating System Technical Guide.

ZERO WASTE

SUSTAINABILITY PLAN CHAPTER 4



Volunteers gather used paint at the citywide paint recycling event at Heritage Lakewood Belmar Park. Photo credit: J. Mesa

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.

2020-2021 HIGHLIGHTS

Old paint gets a new life

Volunteers from Lakewood's Sustainable Neighborhoods Program coordinated three paint recycling events in 2020-2021, and collected 142,289 pounds of paint to divert from the landfill. The latex paint products were filtered and resold under the GreenSheen Paint label. The oil-based paint products were used as an alternative fuel source.

Curbside composting continues to expand!

Did you know? Composting and organics recycling was one of the most popular projects in the Sustainable Neighborhoods this year! Individuals and neighborhood groups are subscribing more than ever to curbside compost service in Sustainable Neighborhoods and beyond. More than 100 households participate in curbside composting programs, including in the O'Kane Park, Solterra, Southern Gables, Weir Gulch Gardens, and West Line Village neighborhoods.

ZERO WASTE

2020–2021 PROGRESS SNAPSHOT

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

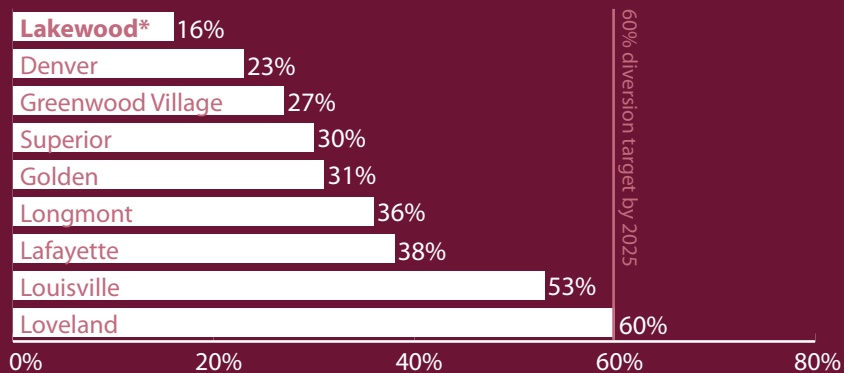
2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Achieve a 60% communitywide diversion rate	9% (2010)	16% (2019)	+7 points	Baseline based on statewide total; current year based on Front Range region total. Metric includes commercial and residential waste. Residential waste alone is estimated at a 10% diversion rate.	●
Achieve an 80% diversion rate at the Civic Center	68,433 lbs (2018)	48,415 lbs* (2020)	N/A*	Metrics reported include pounds recycled and composted. Diversion rate not available.	●
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: 3,122 lbs* Patterson: 3,164 lbs* Daniels: 767 lbs* Lasley: 2,112lbs*	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.	●
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: N/A	Cider Days: N/A Earth Day: N/A	Due to COVID-19, Cider Days was canceled in 2020, and Earth Day 2021 was primarily a virtual event, so no waste was generated nor diverted to report.	●

● The target is on track
● The target is not on track
● The target is TBD

* 2020 data was significantly impacted by facility closures and services interruptions due to COVID-19. Percent change from baseline not calculated.

HOW DOES LAKEWOOD STACK UP ON WASTE DIVERSION?

Comparing diversion rates of Front Range communities as reported by EcoCycle (2019)



* Lakewood data based on CDPHE Front Range Region

THE IMPACT OF CONSTRUCTION & DEMOLITION WASTE

C&D recycling has been required in the Lakewood Building Code since 2018. Staff continues to work on ways to improve compliance.



315
PERMITS
SUBMITTED
WASTE PLANS



17
PROJECTS
RECYCLED
C&D WASTE



1,400+
TONS OF
C&D WASTE
RECYCLED

COMMUNITY COHESION AND PUBLIC HEALTH

SUSTAINABILITY PLAN CHAPTER 5

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.

2020-2021 HIGHLIGHTS

COVID-19: Beyond Public Health

In addition to the direct impact of COVID-19 cases and deaths in Jefferson County attributed to the virus, the associated changes to daily life affected all facets of sustainability. Energy usage for non-residential buildings decreased, yet the amount of energy used for residential buildings increased. Individually wrapped and disposable products proliferated. Social isolation saw increased rates of mental health issues. Widespread racial disparities revealed how integral communities of color are to the economy yet how disadvantaged they are in meeting basic needs. The ongoing recovery can learn from the lessons of the past year to build back in a more equitable and sustainable way.

A Plan to End Homelessness

Lakewood has hired two homeless navigators as part of the countywide Heading Home collaboration, which is dedicated to ending homelessness in the community. Nearly 1,000 homeless individuals were identified in Jefferson County during a comprehensive count conducted in August 2019. The homeless navigators help people meet their basic needs. Learn more and read the Homelessness Action Plan at headinghomejeffco.com.



Earth Day 2021 featured activities for people to enjoy on their own time and in their neighborhoods, including spending time outdoors viewing public art like the resilience-themed chalk art commissioned at Heritage Lakewood Belmar Park. Photo credit: Lakewood Sustainability

COMMUNITY COHESION AND PUBLIC HEALTH

2020–2021 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 Citizen Survey to 60%.	57% (2010)	39% (2018)	-18 points	Data from 2018 City of Lakewood Citizen Survey; surveys are conducted every few years.	●
Increase resident subscriptions to the city communication tools each year.	31,251 (2015)	98,441 (2020)	+215%	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 Sustainability Neighborhoods Program.	2 (2013)	7 (2021)	+5	The program began in 2012; the baseline reflects the program’s first full year. 10 total neighborhoods currently participate. Additional resources will be necessary to continue program expansion	●
Increase recreation program participation each year.	352,000 (2010)	221,726* (2020)	N/A*	Includes participation at city recreation centers, pools, and as of 2017, the Clements Center.	●
Eliminate USDA-defined food deserts in Lakewood.	6 (2015)	2 (2020)	-67%		●
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	Older Adults: 60% Special Needs: N/A Low-Income: N/A Homeless: N/A	Older Adults: 59% Special Needs: 42% Low-Income: 41% Homeless: 31%	N/A	2018 City of Lakewood Citizen Survey; in 2010, only the older adults category was benchmarked; in 2018, benchmark comparisons were not available in any category.	●

● The target is on track

● The target is not on track

● The target is TBD

* 2020 data was significantly impacted by facility closures and services interruptions due to COVID-19. Percent change from baseline not calculated in 2020.



SUSTAINABLE NEIGHBORHOODS PROGRAM UPDATES

Participation highlights from the June 2020 – May 2021 program year. Complete details can be found in Appendix C (page 50).

HOT TOPICS AND TRENDS:



GARDENING,
XERISCAPE AND
POLLINATORS



COMMUNITY AND
SOCIAL SUPPORT



WASTE REDUCTION
AND COMPOSTING



48
EVENTS & PROJECTS



19
WORKSHOPS



6
CLUB GROUPS

5,648 RESIDENTS ENGAGED IN:

NATURAL SYSTEMS

SUSTAINABILITY PLAN CHAPTER 6

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.

2020-2021 HIGHLIGHTS

Ecosystem-Based Adaptation At Work!

Parks staff have been working on a water quality pilot project on the Horseshoe Pond in the Bear Creek Greenbelt. This project has two aspects:

- 1) Placing "bales" of a product called EutroSorb in the inlet channel to absorb phosphorous before reaching the pond;
- 2) Installing artificial floating islands, planted with native wetland vegetation to help remove harmful nutrients and improving habitat for wildlife and fish species.

Both projects are intended to help reduce the toxic blue green algae blooms. Water quality data will be compared from pre and post project to determine success.

Urban Drawdown Initiative

Cities have a wealth of ecosystems that deliver climate and public health benefits. These include urban forests, trees on streets and in parks, urban agriculture, prairies, wetlands, and more. Staff has been studying ways to manage these resources to optimize carbon sequestration and ecosystem services (soil health, water and air quality, biodiversity, etc.). Learn more about this approach to carbon management and climate adaptation planning at urbandrawdown.solutions.



City staff installed artificial islands at Horseshoe Pond to improve water quality and wildlife habitat. Photo credit: Alan Searcy

NATURAL SYSTEMS

2020–2021 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 CDPHE's Water Quality Standards for the uses assigned	1 body of water impaired (2015)	2 bodies of water impaired (2021)	100%	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 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)	14% (2018)	+6.2 points	Data source changed from iTree Landscape tool to DRCOG LULC 2018 pilot project due to data in iTree not being updated since 2011.	●

● The target is on track
● The target is not on track
● The target is TBD

UPDATES ON A BUSY YEAR FROM LAKEWOOD PARKS

Jim Haselgren, Lakewood Parks Manager

- ☒ Continued water savings across our parks system utilizing our centrally computer-controlled irrigation system. We are a region leader in water savings, routinely using around half of Denver Water's recommended rates.
- ☒ Trail improvements at WF Hayden Park at Green Mountain, creating safer, more inviting trail systems.
- ☒ Continued pesticide-free park program in four locations, including pollinator pathway demonstration garden at Bear Creek Lake Park.
- ☒ Saw a record number of people across the entire park system - so many people at home want to get out! Jefferson County Open Space reported a 150% increase in trail and park usage in 2020.

HAVE YOU VISITED THE NEWEST LAKEWOOD PARK?

Cottage Park at 110 S. Cody St. opened in August 2021 and features a playground, open space, picnic shelter, public art, and a sandstone labyrinth!



TRANSPORTATION

SUSTAINABILITY PLAN CHAPTER 7

Publicly-available Electrify America electric vehicle fast charging stations are located at the Colorado Mills shopping center.

Photo credit: Electrify America

2015 SUSTAINABILITY PLAN GOALS

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

Foster sustainable transportation choices in Lakewood.

2020-2021 HIGHLIGHTS

Transit Ridership

The COVID-19 pandemic dramatically affected bus and light-rail ridership. Impacts in Lakewood included cancelled routes, reduced frequency of service, and reduced passenger capacity. As a result, RTD reported total ridership in Lakewood fell 32% (1,305,791 rides) in 2020.

Lakewood Rides offers door-through-door transportation for Lakewood residents 60 years of age or better and those with disabilities of any age. Ridership historically has grown each year, with the exception of 2020. The service provided 17,125 one-way trips in 2020 and 22,150 trips in 2019.

Xeriscaping in Medians

Xeric landscaping has been installed at major street medians and intersections throughout the city. The drought tolerant plants were chosen to thrive without irrigation once established, as well as to withstand harsh road conditions such as winter road salting, air pollution, extreme heat, and road safety measures.

Telematics increase efficiency & reduce emissions

Geotab telematics devices have been installed in 151 city fleet vehicles with the goal to install them across the entire fleet. This technology enables opportunities for coaching drivers on items such as excessive idle time, increasing fuel efficiency, reducing maintenance, and minimizing tailpipe emissions.

SUSTAINABLE TRANSPORTATION

2020–2021 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)	622 / 7.7% (2020)	+6.5 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% (2010)	77.5% (2019)	-1.5 point	Data from 2019 American Community Survey.	●
Decrease petroleum-based fuel consumption of the city fleet by 10%	330,505 gallons (2010)	320,805 gallons (2020)	-3%	Data not normalized for weather.	●

● The target is on track
● The target is not on track
● The target is TBD

LAKESWOOD CODES SUPPORTING ELECTRIC VEHICLES

New developments are required to provide EV parking and charging per the Building Code and Zoning Code.

Jefferson County reported 4,700 electric vehicles registered in the county in 2020, a 26% increase from 3,727 EVs in 2019.



EV CAPABLE GARAGES

Conduit installed and space in electric panel reserved for future EV charging equipment.



CHARGER INSTALLED IN 2% OF PARKING SPACES + EV CAPABLE IN 18% OF PARKING SPACES

Capable spaces = conduit and space reserved in electric panel



EV CHARGING IN ENHANCED DEVELOPMENT MENU

Projects over 20,000 sf can earn required points for public charging.

APPENDIX A

TARGETS AND INDICATORS

CLIMATE CHANGE & ADAPTATION: TARGETS		METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
TARGET: Reduce communitywide greenhouse gas emissions by 20% below 2007 levels by 2025.									
		Greenhouse Gas Emissions	2007	2,447,746 mtCO2e	2018	2,162,112 mtCO2e	-12%	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 next inventory is scheduled to be completed in 2022 using 2021 data.
TARGET: Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.									
		Greenhouse Gas Emissions	2007	2,447,746 mtCO2e	2018	2,162,112 mtCO2e	-12%	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 next inventory is scheduled to be completed in 2022 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%	2020	52%	+40 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%	2020	35%	+23 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%	2020	33%	+21 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	2020	0.105*	-15%*	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. Facility operating hours were modified in 2020 due to the COVID-19 pandemic.
	TARGET: Reduce citywide building energy use intensity by 20% by 2025.							
	Citywide energy use in megawatt hours (MWh)	2012	2,832,699	2020	2,928,268	+9%	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	2020	10,510,424	+20%	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	2020	24	+18	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.

ENERGY, WATER, & THE BUILT ENVIRONMENT: INDICATORS								
METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES	
Indicator: Kilowatts of on-site solar energy installed	2010	1,023	2020	1,805	+76%	Permit Data from City of Lakewood Public Works Department	Metric reflects number of kW installed on an annual basis. Since 2010, a total of 15,240 kW of on-site solar has been permitted citywide.	
Indicator: Number of residential subscribers to community solar projects and wind source	2015	Windsor 2,500 Solar Garden 9	2020	Windsor 3,727 Solar Garden 69 Renewable*Connect 117	Windsor +49% Solar Garden +667%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019. Subscribers to solar gardens and Renewable*Connect decreased slightly in 2020.	
Indicator: Annual energy resource mix as reported by Xcel Energy	2010	Coal: 61% Natural Gas: 27% Wind: 10% Hydro: 1% Other (includes solar): 1%	2020	Coal: 26% Natural Gas: 37% Wind: 31% Hydro: 1% Solar: 5% Other: 1%	Coal: -35 Natural Gas: +10 Wind: +21 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	2020	Electricity \$0.11/kWh Natural Gas \$0.66/therm	Electricity -3% Natural Gas -15%	Lakewood Annual Community Energy Report by Xcel Energy	-	
Indicator: Number of business subscribers to community solar projects and wind source	2015	Windsor 16 Solar Garden 5	2020	Windsor 16 Solar Garden 51 Renewable*Connect 103	Windsor +0% Solar Garden +920%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019. Subscribers to Windsor and solar gardens decreased slightly in 2020.	
Indicator: Commercial electricity and gas costs	2015	Electricity \$0.09/kWh Natural Gas \$0.48/therm	2020	Electricity \$0.09/kWh Natural Gas \$0.42/therm	Electricity 0% Natural Gas -13%	Lakewood Annual Community Energy Report by Xcel Energy	-	
Indicator: Kilowatts of energy generated from on-site renewable energy systems for municipal buildings	2010	0	2020	0	0%	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.	

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	2020	0.105*	-15%*	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	2020	24	+18	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	2020	0	0%	Sustainable Sites Initiative	-

	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	2020	55	+49%	City of Lakewood Planning Department	Includes community gardens, farms, Community Supported Agriculture sites and farmers markets. Slight decrease in 2020 due to 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)	2019	29,652 (44% of households)	-9.7%	US Census Bureau, H12: Average Household Size of Occupied Housing Units by Tenure, and B19001- Household Income for the Past 12 Months	Methodology sourced from STAR Community Rating System Technical Guide.
	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	2020	61	-34%	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.
	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	2020	Avg rate: 8.2%* Avg no.: 7,215*	Avg rate: -1.8 points * Avg no.: -9.3%*	Bureau of Labor Statistics Data Finder	2020 data reflects the effects of the COVID-19 pandemic.
	Indicator: Jobs to labor force ratio	-	-	-	-	-	-	Data not available.
	Indicator: Average "click rate" for the city Economic Development electronic newsletter	2015	3.5%	2020	2.8%	-0.7 points	Mailchimp.com	-
	Indicator: Median household income	2010	\$61,053	2019	\$66,274	+8.5%	U.S. Census Bureau	2010 data adjusted for 2019 inflation. 2020 data had not been released by publication date.
	Indicator: Percentage of households that meet or exceed the living wage standard	2010	53%	2019	44%	-9 points	U.S. Census Bureau	Methodology pulled from STAR Community Rating System Technical Guide. 2020 data had not been released by publication date.
	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	2020	321	+61%	Metro West Housing Solutions	Metrics reported in households selected for 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	2018-2019	Exceeds: 1 Meets: 4 Approaching: 2 Does not meet: 3	-	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 has paused the accountability system for two school years (2020-21 and 2021-22).
	Indicator: High school graduation rates and postsecondary educational attainment	2010	High School Grad & Higher: 90% Bach. Degree and higher: 36%	2019	High School Grad & Higher: 92% Bach. Degree and higher: 41%	High School Grad & Higher: +2 points Bach. Degree and higher: +5 points	U.S. Census Bureau	2020 data had not been released by publication date.
	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%	2019	16%	+7 points	Colorado Department of Public Health and Environment	CDPHE updated methodology between 2018 and 2019; therefore, current data may not be comparable to baseline year.
	TARGET: Achieve an 80% diversion rate at the Civic Center by 2025.							
	Pounds recycled and composted	2018	68,433 lbs	2020	48,415 lbs*	-29%*	City of Lakewood Hauler Reports	2020 waste data impacted by facility closures and services interruptions due to COVID-19.
	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	2020	11th Ave - 3,122 lbs* Patterson - 3,164 lbs* Daniels - 767 lbs* Lasley - 2,112 lbs*	11th Ave -95%* Patterson -57%*	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. 2020 waste data impacted by facility closures and services interruptions due to COVID-19.
	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%	2020 2021	Cider Days: N/A Earth Day: N/A	Cider Days: N/A Earth Day: N/A	City of Lakewood Community Resources and Planning Departments	Due to COVID-19, Cider Days was canceled in 2020 and Earth Day 2021 was primarily a virtual event, so no waste was generated nor diverted.
	TARGET: Achieve a 60% residential diversion rate by 2025.							
	Diversion rate	2010	9%	2016	10%	+1 points	City of Lakewood Sustainability Division	Baseline based on statewide total; most current data based on recycling participation rate from 2016 Lakewood Trash and Recycling Survey and peer communities' diversion rates.
	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.

	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	Includes community events and other outlets providing zero waste education; 2019 included Cider Days, Sounds Exciting, Older Adult Wellness Fair, Sustainability Newsletter, 9 zero-waste Sustainable Neighborhoods events, Virtual Earth Day Celebration and Big Boom Bash
	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	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 due to COVID, and not tracked for this year. Going forward, special collection events for holiday lights and cooking oil will not be held because outside partners like SustainAbility accept those and similar hard-to-recycle materials year-round.
	Indicator: Volume of material collected at Quail Street Recycling Center	2012	1,200 tons	2020	714 tons*	-41%*	City of Lakewood Public Works Department	Closed for 4 months of the year and, when re-opened, required appointments, both of which were due to COVID and may have resulted in fewer customers as some people switched to other methods of recycling.
	Indicator: Volume of hazardous material collected at Rooney Road Recycling Center	2004	131 tons	2020	312 tons	+138%	City of Lakewood Public Works Department	Rooney Road Recycling Center Authority Management Committee member jurisdiction.
	Indicator: Residential diversion rate (seven units or fewer)	2010	9%	2019	18%	+9 points	Colorado Department of Public Health and Environment	CDPHE updated methodology between 2018 and 2019; therefore, current data may not be comparable to baseline year. 2020 data had not been released by publication date.
	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%	2019	16%	+9 points	Colorado Department of Public Health and Environment	CDPHE updated methodology between 2018 and 2019; therefore, current data may not be comparable to baseline year. 2020 data had not been released by publication date.

	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%	2019	18%	+9 points	Colorado Department of Public Health and Environment	CDPHE updated methodology between 2018 and 2019; therefore, current data may not be comparable to baseline year. 2020 data had not been released by publication date.
	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" reporting satisfaction of welcoming citizen involvement in the Citizen Survey	2010	57%	2018	39%	-18 points	City of Lakewood Citizen Survey	No citizen survey was conducted in 2019 or 2020. Survey is conducted every 2-3 years.
	TARGET: Increase resident subscriptions to the city communication tools each year through 2025.							
	Number of resident subscriptions to city e-newsletters	2015	31,251	2020	98,441	+215%	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	2021	7	+5	City of Lakewood Sustainability Division	The program began in 2012; the baseline reflects the program's first full year.
	TARGET: Increase recreation program participation each year through 2025.							
	Number of participants in city recreation programs	2010	352,000	2020	221,726*	-37%*	City of Lakewood Community Resources Department	Total Visits (with employees). Impacted by COVID-19 Pandemic.
	TARGET: Eliminate USDA-defined food deserts in Lakewood.							
	Number of USDA-defined food deserts within the city boundary	2015	6	2020	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	2018	Older Adults: N/A (59%) Special Needs: N/A (42%) Low-income: N/A (41%) Homeless: N/A (31%)	-	City of Lakewood Citizen Survey	No Front Range comparison has been established yet. No citizen survey was conducted in 2019. 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%	2020	92%	+21 points	City of Lakewood City Clerk's Office	A general election was held in 2020.
	Indicator: Enrollment in citizen academies	2013	Planning Academy: 19 Police Academy: 24	2020	Planning Academy: 0* Police Academy: 0*	N/A*	City of Lakewood Planning and Police Departments	Both Planning Academy and Police Academy were canceled in 2020 due to COVID-19.
	Indicator: Number of applications for citizen boards and commissions	2014	24	2020	63	+163%	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	2020	5,423 hours*	-89%*	City of Lakewood Community Resources Department	Fewer volunteer opportunities were offered in 2020 due to COVID-19.
	Indicator: Total page views on Lakewood.org	2015	4,546,627	2020	5,943,254	+31%	Google Analytics	-
	Indicator: Number of followers of Lakewood social media channels	2015	20,773	2020	96,801	+366%	City of Lakewood City Manager's Office	-
	Indicator: Number of Google Translate requests for Lakewood.org web pages	-	-	-	-	-	-	Data not available.
	Indicator: Minority resident satisfaction with the job Lakewood government does at welcoming citizen involvement	2010	52%	2018	45%	-7 points	City of Lakewood Citizen Survey	No citizen survey was conducted in 2019 or 2020. Survey is conducted every 2-3 years.
	Indicator: Resident satisfaction with overall quality of life	2010	90%	2018	84%	-6 points	City of Lakewood Citizen Survey	No citizen survey was conducted in 2019 or 2020. Survey is conducted every 2-3 years.
	Indicator: Number of participants in the Sustainable Neighborhoods Program	2013	763	2020/2021	5,648	+640%	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 2020 through May 2021. 73 projects, events, and workshops were held.
	Indicator: Number of registered neighborhood organizations	2015	129	2020	139	+8%	City of Lakewood Planning Department	Includes registered HOAs and registered neighborhood associations.

COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS								
METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES	
Indicator: Number of neighborhoods, households and people registered on NextDoor.com	2015	102 neighborhoods	2020	143 neighborhoods	+40%	NextDoor.com	-	
Indicator: Participation in Lakewood's Inspire Arts Week	2013	2,500	2019	7,155	+186%	City of Lakewood Community Resources	Not reported in 2020 due to pandemic impacts.	
Indicator: Attendance at city Cultural and Heritage programs	2010	85,606	2020	69,405*	N/A*	City of Lakewood Community Resources	Participation was impacted by facility closures and health restrictions due to COVID-19.	
Indicator: Annual number of public art installations	-	-	2020	Permanent: 32 Temporary: 73	-	City of Lakewood Community Resources + Comprehensive Planning	-	
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	2020	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%	2018	Programs: 80% Facilities: 80%	Programs: +2 points Facilities: -1 point	City of Lakewood Citizen Survey	No citizen survey was conducted in 2020. 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	Average Weekday Usage along: Garrison St @ 500: 50 Bear Creek Trail E. of Estes: 106	2019	Average Weekday Usage along: 13th Ave Bike Path (W Line) @ Zephyr: 39 Bear Creek Trail - E. of Estes: 223 Garrison St @ 500: 27 26th Ave @ 9230: 142 32nd Ave @ Simms St: 137		City of Lakewood Public Works Department	2020 bicycle count data not available at time of publication. 2019 bicycle counts at 13th Ave were conducted in March & October 2019, at Bear Creek Trail in March, April, & September 2019, Garrison St. in February 2019, 26th Avenue in July 2019, and 32nd Avenue in February & June 2019; 2017 bike counts at Garrison Street were conducted in October 2017, at Bear Creek Trail in August 2017.	
Indicator: Level of Bicycle or Walk Friendly Community certification	2014	Bronze	2016	Bronze	-	The League of American Bicyclists Bicycle Friendly Community Report Card	Bicycle Friendly Community Certification valid for four years.	
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%	2018	Leading Causes of Death: Cancer: 20.5% Heart Disease: 21.1% Unintentional Injured: 6.9%	Leading Causes of Death: Cancer: -0.5 Cardiovascular Diseases: -3 Unintentional Injuries: -0.1	Jefferson County Public Health Community Health Assessment	Data reported for Jefferson County as a whole. Cardiovascular diseases were reported as heart disease in 2018 data. Chronic lower respiratory diseases are the third leading cause of death at 7.5%; unintentional injuries are fourth in 2018.	

Bold year indicates new data updated in this report.

METRIC		BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	Indicator: Number of residents on waiting lists for subsidized units at Metro West Housing Solutions properties	2015	200	2020	321	+61%	Metro West Housing Solutions	Metrics reported in households selected for 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	2020	20,137*	-64%*	City of Lakewood Community Resources Department	Reported as total annual attendance, not unique participants. Significant decline in participation in 2020 due to COVID-19.
	Indicator: Number of people served through the Action Center	-	-	2020	3,346 unique households	-	The Action Center	-
	Indicator: Resident's feelings of safety	2013	In your neighborhood during the day: 96% Walking alone in your neighborhood after dark: 72%	2018	In your neighborhood during the day: 96% Walking alone in your neighborhood after dark: 66%	In your neighborhood during the day: 0 points Walking alone in your neighborhood after dark: -6 points	City of Lakewood Citizen Survey	No citizen survey was conducted in 2020. 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	2021	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%	2018	14%	-	DRCOG 2018 LULC Pilot Project	Baseline established with i-Tree landscape tool; as of 2020, data had not been updated since 2011. DRCOG 2018 LULC data available for the first time in 2020 as an alternative data source. DRCOG data not comparable to i-Tree data.

	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	2020	5	-83%	City of Lakewood Community Resources Department	List A noxious weed species currently/ formerly seen and controlled: purple loosestrife, 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	2020	310	New in 2020: 61	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	2020	53	-51%	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	2021	783*	N/A*	City of Lakewood Sustainability Division	2020 Earth Day Celebration was a virtual event due to COVID-19.
	Indicator: Percentage of permeable land	2011	68%	2018	60%	-	DRCOG 2018 LULC Pilot Project	Baseline established with i-Tree landscape tool; as of 2020, data had not been updated since 2011. DRCOG 2018 LULC 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	2020	622	+562%	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	2019	66,325	+21%	United States Census Bureau	2020 data had not been released by publication date.
	Percent of trips to work that are single-occupancy	2010	79%	2019	77.5%	-1.5 points	United States Census Bureau	2020 data had not been released by publication date.
	TARGET: Decrease petroleum-based fuel consumption of the city fleet by 10% by 2025.							
	Gallons of petroleum-based fuel consumed	2010	330,505	2020	320,805	-3%	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	2020	279,081	+78%	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	2020	6,397,087 kWh	-9%	City of Lakewood Public Works Department	Data includes metered, non-metered, flasher and flat rate usage.





Bold year indicates new data updated in this report.

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%	2019	Drove alone: 78% Carpooled: 7% Transit: 5% Walked: 2% Other: 8%	Drove alone: -1 point Carpooled: +2 points Transit: +1 point Walked: 0 point Other: +2 points	United States Census Bureau	2020 data had not been released by publication date.
	Indicator: Transit ridership	2010	3,959,935	2020	2,818,042	-29%	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. Major impacts from 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	2019	340 mi. of trails and routes	+7% for trails and routes	City of Lakewood Community Resources and Public Works Departments	Includes bike lane miles, paved shoulders, shared roadways and shared use paths. 2020 bike trail data not available at time of publishing.
	Indicator: Bicycle traffic counts	2017	Average Weekday Usage along: Garrison St @ 500: 50 Bear Creek Trail E. of Estes: 106	2019	Average Weekday Usage along: 13th Ave Bike Path (W Line) @ Zephyr: 39 Bear Creek Trail - E. of Estes: 223 Garrison St @ 500: 27 26th Ave @ 9230: 142 32nd Ave @ Simms St: 137		City of Lakewood Public Works Department	2020 bike count data not available at time of publishing. 2019 bicycle counts at 13th Ave were conducted in March & October 2019, at Bear Creek Trail in March, April, & October 2019, Garrison St. in February 2019, 26th Avenue in July 2019, and 32nd Avenue in February & June 2019; 2017 bike counts at Garrison Street were conducted in October 2017, at Bear Creek Trail in August 2017.
	Indicator: Number of alternative fuel vehicles in Lakewood	2015	Jeffco: 275	2020	Jeffco: 4,700	Jeffco: +1,609%	Colorado Energy Office	Alternative fuel vehicles refers to only electric vehicles.
	Indicator: Number of alternative fuel vehicles in the City's fleet	2015	5	2020	5	0%	City of Lakewood Public Works Department	First Generation Prius Hybrid, Chevy Volts, and Ford Explorer.
	Indicator: Number of alternative fuel stations in Lakewood	2015	7	2020	20	+186%	US Department of Energy	-
	Indicator: Average miles per gallon of vehicles in Lakewood	-	-	-	-	-	Colorado Department of Revenue, Division of Motor Vehicles	Data not available.

APPENDIX B

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 and 2018. Municipal GHG inventory has not been completed.
		CCA1-B Greenhouse Gas Reduction Strategies. <i>Utilize emission reduction assessments to prioritize and implement greenhouse gas reduction strategies.</i>	Some assessments are being used to inform project and program outcomes. Additional strategies for implementing GHG impacts into organizational-wide decision making are necessary.
		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>	Currently, staff is utilizing regional vulnerability assessments for Colorado and other Front Range communities. The Jefferson County Multi-Hazard Mitigation Plan will be adopted in late 2021, and includes impacts of climate change on local hazards.
		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>	Funding was requested for 2022.



Complete











Significant Progress



Implementation Underway



Not Started

PROGRESS		STRATEGY	NOTES
ENERGY, WATER, & THE BUILT ENVIRONMENT		BE1-A Renewable Energy Transmission and Generation <i>Expand renewable energy generation and access while ensuring necessary transmission infrastructure.</i>	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 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 a prioritized strategy for implementation. Staff has identified several pathways that could facilitate 100% renewable electricity for municipal buildings.
		BE2-A Efficiency in Resource Intensive Buildings <i>Target resource intensive buildings for efficiency improvements.</i>	Initial implementation underway based on Energy Futures Collaborative work plan.
		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.
		BE2-C Resource Efficient Municipal Facilities <i>Effectively manage and reduce municipal energy and water use.</i>	Newly implemented utility management software and energy performance contracts.
		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>	New codes adopted in 2018. Updates should occur approximately every three years.



Complete




Significant Progress



Implementation Underway



Not Started

PROGRESS	STRATEGY	NOTES
	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>	Research into best practices is currently underway. LEED Gold is included as an option to fulfill Enhanced Development Menu requirements.
	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>	Research into best practices is currently underway. Green building resources for developers are available in the city's Energy and Water Resource Center.
	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 adopted as part of the Lakewood Development Dialogue zoning code update process.



Complete










Significant Progress



Implementation Underway



Not Started

PROGRESS		STRATEGY	NOTES
SUSTAINABLE ECONOMY		SE1-A 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>	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
		SE1-B Local Products and Services <i>Develop a comprehensive strategy in order to increase the production, availability, and consumption of local products and services.</i>	
		SE1-C 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>	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.
		SE1-D Local Investment <i>Facilitate investment and entrepreneurship in the local economy.</i>	Existing programs are available through partner agencies and organizations.
		SE1-E 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>	Assessment of certification programs available through Hometown Colorado project. Participation in Best for Colorado program through B Lab, a nonprofit for business practices that serve the greater good.
		SE2-A Self-Sufficiency Education <i>Host events and provide information for residents to encourage self-sufficient household practices.</i>	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.
		SE2-B 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>	The Union Neighborhood Vision Plan is underway to assess the completeness of the Union Boulevard corridor.



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>	Recent expansion of compost and recycling services to municipal facilities includes four Head Start facilities and Heritage Lakewood.
		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>	Ongoing internal efforts to identify sites and program options. Periodic community collection events provided by city. Several neighborhood-initiated leaf collections through the Sustainable Neighborhoods Program.
		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.
		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. Compost Colorado was a 2020 Sustainability Award winner, currently serving 112 Lakewood residents.



Complete







Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
ZERO WASTE		ZW2-C Multifamily Recycling and Composting <i>Assist multifamily developers, owners, managers and homeowner associations in implementing recycling and composting programs in residential developments.</i>	The adopted Enhanced Development Menu, which applies to new developments over 20,000 square feet gross floor area, includes options to encourage recycling and composting.
		ZW3-A 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>	Lakewood has partnered with other local jurisdictions to apply for a grant to investigate the regional “wasteshed,” including infrastructure/facility needs and end markets for recycled materials.
		ZW3-B 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>	
		ZW3-C Construction and Demolition Waste <i>Adopt construction and demolition (C&D) waste diversion requirements and provide supportive materials for businesses.</i>	The building code requires large developments to recycle C&D waste. Resources are available for contractors online and at city offices.



Complete











Significant Progress



Implementation Underway



Not Started

PROGRESS		STRATEGY	NOTES
COMMUNITY COHESION & PUBLIC HEALTH		CC1-A 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>	Multiple projects on LakewoodTogether.org and LakewoodSpeaks.org.
		CC1-B Open and Honest Communication <i>Support the city's core community value of open and honest communication.</i>	Expanded multilingual resources provided by the City Manager's Office, and employee intercultural awareness trainings provided by the Human Resources Department.
		CC1-C Social Resilience and Personal Networks <i>Strengthen and expand community social networks to foster collaboration, communication and cooperation.</i>	Ongoing development and support of a variety of programs and networks.
		CC1-D 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>	Two new neighborhoods joined the program in 2020. Continued expansion will require additional resources (staff and funding).
		CC1-E Arts, Culture, and Events <i>Recognize arts, culture and community events as important components of sustainability.</i>	Significant expansion of creative industries and ongoing integration of art and sustainability projects and programs.
		CC2-A Regional Health Efforts and Organizations <i>Collaborate with regional partners in order to identify critical issues, develop programs and policies, and track effectiveness.</i>	Ongoing participation by city staff in county efforts and programs.
		CC2-B 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>	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
		CC2-C Community Physical Wellness Programs <i>Promote healthy eating and active living programs in businesses, schools and other community organizations.</i>	Several ongoing programs with local schools through Sustainable Neighborhoods Program. Overlaps with CC2-A.
		CC2-D Access to Physical Activity Facilities and Programs <i>Increase use of physical activity facilities and participation in recreation classes and programs.</i>	Variety of projects/services including Lakewood Possibilities Fund, development of Carmody Universal Playground, Addenbrooke Outdoor Fitness court, and Green Mountain Recreation Center Fitness Court.



Complete








Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
COMMUNITY COHESION & PUBLIC HEALTH		CC2-E Design for Active Living <i>Integrate key elements of the Center for Active Design's Active Design Guidelines into the city's development guidelines.</i>	
		CC3-A Affordable Housing <i>Create and periodically update a locally-adopted comprehensive housing strategy in collaboration with other jurisdictions and organizations in the region.</i>	Housing study completed.
		CC3-B Community Happiness <i>Catalyze happiness by designing spaces and supporting services that support mental wellness.</i>	Multiple city programs support mental wellness including recreation, parks, and public art.
		CC3-C Aging In Place <i>Develop and support programs, policies and resources that allow residents to age in place.</i>	Handful of programs/efforts underway related to this strategy including the housing study, Sustainable Neighborhoods Program projects, recreation programs, etc.
		CC3-D Access to Human and Family Services <i>Support programs and services that enable residents to meet their fundamental needs.</i>	Variety of programs offered by the city and community organizations.



Complete










Significant Progress



Implementation Underway



Not Started

PROGRESS		STRATEGY	NOTES
NATURAL SYSTEMS		NS1-A 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>	Assorted programs and outreach efforts.
		NS1-B Landscape and Agricultural Stewardship <i>Reduce the impacts to ecosystem health, air and water quality resulting from landscaping and agricultural practices in Lakewood.</i>	Significant number of workshops and projects through the Sustainable Neighborhoods Program including the Bee Safe initiative.
		NS1-C 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>	Inventory methodology and process was outlined in 2016, but staff was unable to secure grant funding to proceed. No additional progress at this time.
		NS1-D Green Infrastructure Network <i>Establish a Green Infrastructure Network (GIN) to strategically facilitate habitat protection, restoration and connectivity across the urban landscape.</i>	
		NS1-E Municipal Natural Resource Management <i>Manage municipal natural areas, parks, right-of-ways and other properties to maximize ecological health and biological diversity.</i>	Assorted programs supporting water quality, nontoxic pest and noxious weed management, including ecosystem-based management practices and reducing pesticide usage to promote pollinator health.
		NS2-A Stormwater Management and Flood Control <i>Increase the capacity of Lakewood's landscape to manage stormwater and protect water quality.</i>	Various stormwater management projects and programs implemented by the Public Works Department.
		NS2-B 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>	The recently adopted Enhanced Development Menu includes measures for large developments to reduce urban heat islands and promote healthy vegetation. The city launched the Lakewood Loves Trees tree planting initiative to celebrate Lakewood's 50th Anniversary.



Complete











Significant Progress



Implementation Underway



Not Started

PROGRESS	STRATEGY	NOTES
TRANSPORTATION	 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>	Newly implemented street sweeping material screening and recycling program.
	 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>	Various streetscape and median planting programs completed or underway.
	 T1-C Street and Signal Lights <i>Convert street and signal lights to LEDs or other high efficiency technologies.</i>	All city-owned lights use high efficiency lighting. Major roadblock to successful implementation is Xcel ownership and tariff rates for existing streetlights.
	 T1-D Sustainable Street Repair and Construction <i>Ensure sustainable street repair and construction.</i>	Street operations continue to utilize recyclable materials and to recycle street construction waste.
	 T2-A Bicycle and Pedestrian Planning and Outreach <i>Remove barriers to bicycle and pedestrian transportation through a comprehensive strategy.</i>	The city's first alternative transportation coordinator is leading the implementation of the completed city's Bicycle Master Plan, including new bicycle facilities and continued coordination with the Lakewood Bicycle Advisory Team.
	 T2-B Transportation Management Services <i>Collaborate with west metro agencies to develop an approach, or several, to provide sustainable transportation management services.</i>	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.
	 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>	Implementation will be ongoing.
	 T2-D City Fleet <i>Develop a strategic plan to increase fuel efficiency and incorporate alternative fuel vehicles into the city vehicle fleet.</i>	The fleet now includes a few alternative fuel vehicles. 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 2020 - MAY 2021

TOTAL NEIGHBORHOOD PARTICIPATION JUNE 2020-MAY 2021

NEIGHBORHOOD NAME	PARTICIPATION	CREDITS EARNED	CERTIFICATION STATUS
Applewood	1,148	186	Outstanding
Belmar	79	126	Outstanding
Eiber	214	184	Outstanding
Green Mountain	669	201	Outstanding
Lake Lochwood Village	25	22	Participating
Morse Park	1,059	178	Outstanding
O'Kane Park	89	51	New
South of 6th	837	87	Outstanding
Southern Gables	408	101	Outstanding
Weir Gulch Gardens	90	53	New
Note- two events with multiple planners:			
• Citywide Paint (6 neighborhoods)	527		
• Electronics Recycling (2 neighborhoods)	503		
TOTAL	5,648	1,189	

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






EVENTS JUNE 2020-MAY 2021

NEIGHBORHOOD		EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES	PROGRAM GOAL AREAS SUPPORTED				
						LAND	PEOPLE	WATER	ENERGY	AIR
Applewood		I Love Applwood	115	36		X	X	X	X	X
Applewood		Stober Garden Website	300	12		X	X	X	X	X
Applewood		I Love Applewood Sticker Contest	300	12			X			
Applewood		2020 Winter Weather Coat Drive	150	12			X		X	
Applewood		Free Seed Share	83	10		X	X			
Applewood		Neighborhood Chalk Art Event	75	10			X			
Applewood		4th of July Remote Celebration		6			X			
Applewood		Free Produce Market Pop Up Stand	57	24		X	X			
Belmar		Food and Personal Care Drive	79	13			X			






EVENTS JUNE 2020-MAY 2021 (CONTINUED)

NEIGHBORHOOD	EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES	PROGRAM GOAL AREAS SUPPORTED				
									
Eiber	Family Friendly Bee Safe Event	30	6		X	X			X
Eiber	Eiber Earth Day Celebration	50	8		X	X	X	X	X
Eiber	Put Your Garden to Bed Winter Preparation	8	4		X	X	X	X	X
Green Mountain	Colorado Recycles Week Campaign	318	12		X				
Green Mountain	Seedling and Seed Swap	20	6		X	X	X		
Green Mountain	Pumpkin Collection and Composting	170	12		X	X			X
Lake Lochwood Vill.	Memorial Tree Planting	25	8		X	X			
Morse Park, Applewood	Electronics and Metal Recycling	503	12		X	X			
Morse Park	Slater Community Garden Chipotle Fundraiser	441	12		X	X			
Morse Park	Seed Exchange	24	6		X	X			
Morse Park	Fall Paint Recycling Event	390	12		X	X			
O'Kane Park	Earth Day Sign Distribution	50	8			X			
South of 6th	City Nature Challenge 2021	2	6		X	X	X	X	X
South of 6th	Video Submission for Earth Day Video Playlist	580	6		X	X	X	X	X
South of 6th	Seed Swap	20	6		X	X			
South of 6th	Hygiene Product Drive	30	6			X			
South of 6th	Paint Recycling Event	200	12		X		X		
Southern Gables	Reintroduction Part 1	24	8		X	X	X	X	X
Southern Gables	Reintroduction Part 2	18	6		X	X	X	X	X
Southern Gables	Spring Bike/Walk to School Day	45	10			X			X
Southern Gables	Spring Bike/Walk Scavenger Hunt	17	6			X			X
Southern Gables	Great Backyard Bird Count	12	6		X				X
Southern Gables	Leaf Collection and Composting Day	179	12		X	X			X
Southern Gables	Fall Walk/Bike to School Day Activities	70	12			X			X
Weir Gulch Gardens	Action Center Food Drive	10	6			X			
Multiple	Citywide Paint Recycling Event	527	12 each	Applewood, Morse Park, Eiber, South of 6th, Weir Gulch Gardens, O'Kane Park	X	X	X	X	X
	TOTAL EVENTS = 35	4,922	355		24	32	11	9	14






CLUB MEETINGS JUNE 2020-MAY 2021

					PROGRAM GOAL AREAS SUPPORTED				
NEIGHBORHOOD	CLUB NAME	ATTENDANCE	CREDITS EARNED	NOTES					
Applewood	Stober Garden Planning Team	37	5	5 meetings held	x	x	x	x	x
Applewood	Bee Safe	10	1	10 new residents signed up	x				
Applewood	Antiracism Discussion Group	21	6	4 initial meetings, 1/month meetings continuing		x			
Eiber	Sustainable Eiber Steering Committee	64	10	10 meetings held	x	x	x	x	x
Eiber	Walkin' and Talkin' Trash	22	10	7 cleanup days held	x	x	x		
Southern Gables	Monthly Luncheons	19	1	Resumed club in May after pandemic		x			
	TOTAL CLUBS = 6	173	33		4	5	3	2	2

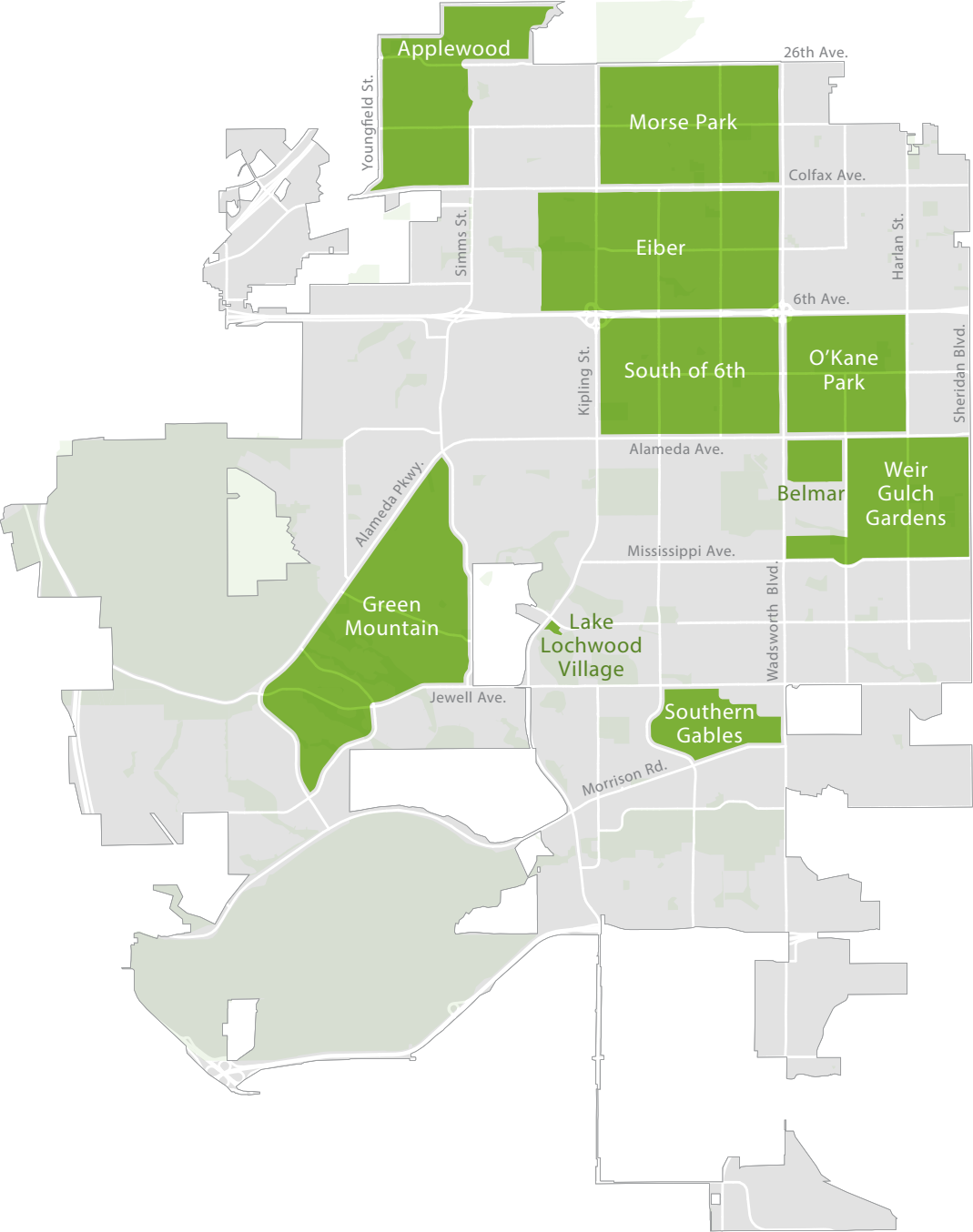
PROJECTS COMPLETED JUNE 2020-MAY 2021

				PROGRAM GOAL AREAS SUPPORTED				
NEIGHBORHOOD	PROJECT NAME	CREDITS EARNED	NOTES					
Belmar	Belmar Community Garden Activities	60	6 identified goals were achieved.	x	x			x
Belmar	Take Out Thursdays	15			x			
Eiber	Eiber Nextdoor Welcome	35			x			
Eiber	Sustainable Eiber Facebook Posts	25		x	x	x	x	x
Eiber	Eiber Elementary School Drives	30	5 identified goals were achieved.		x			
Green Mountain	Sustainable Green Mountain Blanket Drive	15			x			
Green Mountain	Green Mountain Elementary School Garden Project	50	3 identified goals were achieved.	x	x	x	x	x
Morse Park	Slater Elementary Community Garden Activities	35	6 identified goals were achieved.	x	x	x		
Morse Park	Bee Safe in Morse Park	15	Ongoing project.	x				
Morse Park	Morse Park Tree Planting	40	200 trees planted throughout project.	x	x	x	x	x
O'Kane Park	Curbside Composting	10	Ongoing project.	x				x
South of 6th	South of 6th Sustainable Neighborhood Website	25			x			
Southern Gables	Gables Garden-- Supporting the School/Community Garden	20	3 identified goals were achieved.	x	x			
	TOTAL PROJECTS = 13	375		8	11	4	3	5

WORKSHOPS JUNE 2020-MAY 2021

					PROGRAM GOAL AREAS SUPPORTED				
NEIGHBORHOOD	WORKSHOP NAME	ATTENDANCE	CREDITS EARNED	NOTES					
Eiber	Protecting Pollinators	32	6	A "Safer and Sustainable at Home" Webinar	x				x
Eiber	Resilience Circle: Personal Chemical Footprint	8	4	Virtual Event	x	x	x	x	x
Green Mountain	Conserving Water with Rain Barrels	24	10	A "Safer and Sustainable at Home" Webinar	x	x	x		
Green Mountain	2021 Early Seed Swap	20	6	Socially Distanced Event	x	x	x		
Green Mountain	Basic Principles of Landscape Design	23	10	A "Safer and Sustainable at Home" Webinar	x	x	x		
Green Mountain	Self-Guided Garden Tour	8	4	Socially Distanced Event	x	x	x		
Green Mountain	Composting 101	22	6	Virtual Event	x	x			
Green Mountain	Xeriscape on a Budget	64	10	Virtual Event	x		x		
Morse Park	Household Energy Efficiency	72	8	A "Safer and Sustainable at Home" Webinar	x	x	x	x	x
Morse Park	Garden in a Box	132	10	A "Safer and Sustainable at Home" Webinar	x	x	x		
O'Kane Park	Neighborhood History and Heritage	14	6	A "Safer and Sustainable at Home" Webinar		x			
O'Kane Park	Sustain O'Kane Community Kickoff	25	5	Virtual Event	x	x	x	x	x
South of 6th	Bee Safe Neighborhood Q&A	5	4	Virtual Event	x				
Southern Gables	Support the Birds in Your Backyard	24	10	A "Safer and Sustainable at Home" Webinar	x	x			x
Weir Gulch Gardens	Neighborhood Bike Ride	7	4	In-Person Event	x	x			
Weir Gulch Gardens	The WHY of Composting-Webinar with Scraps	8	4	Virtual Event	x	x		x	
Weir Gulch Gardens	Compost 101	22	4	Virtual Event	x				
Weir Gulch Gardens	Fall Prep for Your Spring Garden	21	6	Virtual Event	x				
Weir Gulch Gardens	Preserve Your Garden Harvest	22	6	Virtual Event	x				
	TOTAL WORKSHOPS = 19	553	123		18	13	9	4	5

2021 MAP OF LAKEWOOD SUSTAINABLE NEIGHBORHOODS



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