

CITY OF LAKEWOOD

SUSTAINABILITY PLAN ANNUAL REPORT
2021-2022 TARGETS AND IMPLEMENTATION UPDATE





CITY OF LAKEWOOD

SUSTAINABILITY PLAN ANNUAL REPORT 2021-2022

City of Lakewood Sustainability Division

Jonathan Wachtel, Sustainability Manager

Caitlin Hasenbalg Long, Senior Sustainability Planner

Jeff Wong, Senior Sustainability Planner

Christy Cerrone, Sustainability Planner - Community Focus

Melissa Martin, Sustainability Intern

Sara Kohles, Sustainability Intern

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

01	
02	
03	
04	
05	
06	
07	

PROJECT HIGHLIGHTS	4
CLIMATE CHANGE AND ADAPTATION	8
ENERGY, WATER, AND THE BUILT ENVIRONMENT	9
SUSTAINABLE ECONOMY	10
ZERO WASTE	11
COMMUNITY COHESION AND PUBLIC HEALTH	12
NATURAL SYSTEMS	13
TRANSPORTATION	14
APPENDIX A: TARGETS AND INDICATORS	15
APPENDIX B: STATUS OF IMPLEMENTATION STRATEGIES	34
APPENDIX C: SUSTAINABLE NEIGHBORHOODS PROJECTS	45

Published June 2023. Data reflects 2021-2022 collection year.

PROJECT HIGHLIGHTS

Municipal Solar Feasibility Study

In July 2022, the City completed a Solar Photovoltaic and Storage Feasibility Study to evaluate on-site renewable solar energy potential at nine different municipal sites. The goal of the study was to investigate opportunities to deploy ground, carport canopy, and roof-mounted solar arrays and backup battery generation. City staff is currently evaluating the recommended outcomes and researching funding opportunities to finance the projects.

Cities Race to Zero Campaign

Mayor Adam Paul pledged Lakewood to be a part of the global Cities Race To Zero campaign. This effort is working to rally leadership and support from businesses, cities, regions and investors for a healthy, resilient, zero carbon recovery that prevents future climate threats, creates decent jobs and unlocks inclusive, sustainable growth. Mayor Paul joined hundreds of cities around the world to pledge to halve carbon emissions by 2050. Each city received a science-based 2030 target as a checkpoint on progress, as well as suggested high-impact actions to rapidly reduce emissions. Learn more about the effort at CitiesRaceToZero.org.

Small Business Energy Outreach Campaign

In 2021, Sustainability staff launched a small business energy outreach campaign, in partnership with Xcel Energy's Partners in Energy program. Staff and volunteers visited 220 local businesses across Lakewood to give information about free energy assessments and LED lighting upgrades to help business owners save energy and utility bill costs. In the campaign's first year, over 100 business energy assessments and LED retrofits were completed in Lakewood, helping businesses save 1.9 million kilowatt hours of electricity and reducing 2.0 million pounds of carbon emissions each year.

Environmental Justice and Equity Training

With racial equity and the intersection with environmental justice rising to the forefront of the country's awareness, Lakewood staff has participated in several training programs to be better prepared to address these issues in our work. Some of the trainings that staff completed through the Urban Sustainability Directors' Network (USDN) included the Equity Foundations program, the Equity in Buildings program, and other advanced equity cohorts. Additionally, Sustainability staff participates on an internal employee committee to advance equity efforts within the Lakewood organization.

Carbon Sequestration

Lakewood Sustainability staff participated in a Carbon Drawdown Working Group through USDN to learn more about practices and policies to increase the amount of carbon being removed from the atmosphere and stored for long-term periods. Called "sequestration," some examples of these types of strategies include injecting carbon dioxide into materials such as concrete and increasing the amount of carbon stored as biomass in trees, soils, and other vegetation.

In addition, Lakewood's Forestry Division completed an assessment of the overall urban tree canopy in the city. The assessment found that Lakewood's tree canopy creates an ecosystem that covers 4,509 acres and is worth \$26 million, which equates to 22 trees per acre or about four trees per resident. The city's land area has 16% canopy coverage, with possible planting areas in 41% of the city. This data provides an informed starting point for the city to make progress toward current and future sustainability goals, which include having 30% tree canopy coverage by 2025.

Sustainable Development Standards

In June 2022, City Council adopted updates to the city's sustainable development standards. These updates ensure that new development projects are advancing the community's adopted vision and goals from both the Sustainability and Comprehensive plans by enhancing community sustainability, reducing greenhouse gas emissions, and minimizing waste.

For over a year, Sustainability staff collaborated with Lakewood community members, technical experts and other city departments to draft the updated standards. The approved updates built upon previous standards in the Zoning Ordinance and building code by updating the Enhanced Development Menu, incorporating a new Greenhouse Gas Mitigation Program, and adding standards to support implementation of the construction and demolition waste recycling requirements.

These three parts of the sustainable development standards are designed to work together to create maximum benefits for moderate cost, to provide incentives to builders to make sustainable investments in Lakewood and to complement other city goals. The standards also include flexibility to adapt to the evolving future and a financial mechanism to allow the city to implement the community's vision when developers can't.

The Enhanced Development Menu is a point-based system of sustainable development options ranging from renewable energy to public art. Developments must achieve a required number of points based on the project's square footage. It is intended to be flexible and adaptable to the context of a specific development site.

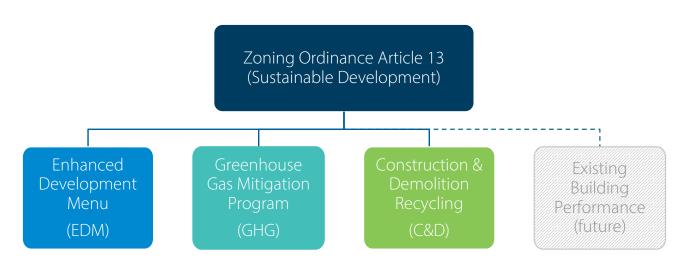
The Greenhouse Gas Mitigation Program sets the maximum allowed annual emissions for a project,

known as the performance standard, which can be achieved through mitigation strategies such as all-electric buildings, solar energy systems, electric vehicle charging infrastructure and recycling/composting services. Developers have the option to pay a fee in lieu of mitigating emissions to comply with the new standards.

The construction and demolition waste recycling supplemental standards include more comprehensive waste management planning and reporting as part of the permitting process and the use of a deposit and refund system to create an incentive for developers to comply with the existing building code requirements.

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

More information about these new requirements, including a more detailed analysis of the factors that staff evaluated, the actual language of the standards, and the technical manual that identifies the data sources and methodology is available at Lakewood.org/ SustainableDevelopment.



The updated development standards expanded Article 13 of the Lakewood Zoning Ordinance to include three main sections under the umbrella of Sustainable Development: the Enhanced Development Menu; the Greenhouse Gas Mitigation Program; and Construction & Demolition Recycling supplemental standards. A fourth section was reserved for a future benchmarking and performance program for existing buildings.

Sustainable Neighborhoods

The Sustainable Neighborhoods Program gives residents the opportunity to become active partners in Lakewood's sustainability efforts at the neighborhood level. This year's work included ongoing support for individual neighborhoods, equitable community engagement, and capacity-building for local neighborhood leaders.

Ongoing Neighborhood Support: During the June 2021 through May 2022 program year, Lakewood staff supported Lakewood's 10 Sustainable Neighborhoods with logistics and planning for 24 workshops, 58 special events, 13 projects, and seven club meetings, with a total attendance of over 11,000 participants. All of the

neighborhoods received Outstanding certification status this year.

Equitable Community Engagement: The Sustainable Neighborhood Network received a grant from the Community First Foundation to develop two main program areas within the network: engagement and leadership. The funds were used to translate program materials, host events with inclusive strategies to reach more diverse households, provide greater neighborhood engagement as a whole, and a live leadership training series to build skills and capacity for volunteer neighborhood leaders.

Leadership Retreat: As part of the programming from the Community First Foundation grant, the Sustainable Neighborhood Network hosted a retreat for the volunteer leaders in the Sustainable Neighborhoods in Lakewood, Wheat Ridge, Fort Collins and Denver. Speakers both from within the Sustainable Neighborhood Network and experts from outside organizations discussed a variety of topics. Sessions included community-based social marketing, recruiting and retaining community leaders, engaging youth in community gardens, publicity strategies, and waste reduction through neighborhood cleanups and special collection events.



Volunteers from Sustainable Neighborhoods in all four participating communities gathered for training at the Leadership Retreat.

Regional Collaboration

Lakewood staff participates in various efforts to enhance regional collaboration in sustainability work. Examples include:

- Supporting grant applications for regional waste diversion efforts.
- Active support and participation on Recycle Colorado's Policy Committee and Construction and Demolition Waste Council.
- Collaboration with Xcel Energy and other jurisdictions through the Partners in Energy (PiE) program for local governments.
- Regular participation in Western Adaptation Alliance (WAA) and Front Range Sustainability Directors' Network meetings to engage with and learn from peer communities.

2022 Earth Day Celebration

The first in-person Earth Day Celebration in three years was on Saturday, April 23 at Heritage Lakewood Belmar Park. Around 2,800 attendees, vendors, exhibitors, volunteers, and staff gathered to enjoy the day's festivities:

- An Electric Transportation Hub featured an EV showcase, opportunities to test ride and drive EVs and e-bikes, and more.
- The inaugural Parade of Species marched through the event with attendees in costumes of favorite plant and animal species.
- Species-themed arts and crafts included DIY animal masks and button pins.
- Bilingual story time hosted by Belmar Library.
- Music from Rocky Mountain Steel Band, ATOMGA and Guerilla Fanfare Brass Band.
- Dance performance by the Lakewood Cultural Center Youth Dance Troupe.
- Animal yoga class guided by Lakewood Recreation staff.
- Nature displays, beehive tours, and guided walks through Belmar Park.
- Exhibitors and vendors shared their sustainability messages and products.
- Local food, drinks and fun!



Costumed attendees joined the procession through the annual Earth Day Celebration as part of the Parade of Species.

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.

2021-2022 PROGRESS SNAPSHOT

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 mtCO₂e (2007)	2,162,112 mtCO₂e (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. The next communitywide GHG inventory will be published in 2023 using 2021 data.	•
Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.	2,447,746 mtCO₂e (2007)	2,162,112 mtCO₂e (2018)	-12%		•
The target is on track The target	is not on track	The target is TBD			

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.

2021-2022 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)	58% (2021)	+46 points		
				Data for these three targets only include electric energy. A full	
Generate 45% of residential energy from	12%	42%	+30 points	assessment has yet to be completed for energy from heating and	
renewable sources.	(2010)	(2021)		transportation fuels. Xcel began reporting a Certified Renewable Percentage for its grid mix in 2019.	
Generate 45% of commercial and industrial	12%	38%	+26 points		
energy from renewable sources.	(2010)	(2021)			
				The baseline value was updated in 2020 to reflect more accurate	
Reduce municipal building and facility energy	.124 mmbtu/ft ²	0.117 mmbtu/ft ²	- 6%	historical data. EUI decreased from previous years due to increased	d 🛑
use intensity (EUI) by 30%.	(2015)	(2021)		efficiency and COVID-related reduced building operating hours.	
Reduce citywide building energy use intensity	2,832,699 MWh	2,970,701 MWh	+5%	Value represents total citywide building energy use from electricity	у
by 20%.	(2012)	(2021)		and natural gas; data is not normalized for weather.	
Reduce citywide water use by 20%.	8,762,212 kgal	8,427,899 kgal	- 4%	Data is weather normalized by Denver Water.	
	(2010)	(2021)			
Increase the percentage of certified green	6 buildings	29 buildings	+23	Values represent cumulative number of LEED certified and Green	
buildings each year.	(2010)	(2021)		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

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.

2021-2022 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)	51 (2021)	+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 methodolgy, the H \pm 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)	30,744 47% of households (2021)	-6 points	Methodology based on the Living Wage for a single person multiplied by the average household size utilizing data from the MIT Living Wage Calculator and American Community Survey. The Living Wage includes mostly prior year expenses inflated to first quarter current year values.	•

The target is TBD

The target is not on track

The target is on track

ZERO WASTE

SUSTAINABILITY PLAN CHAPTER 4

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.

2021-2022 PROGRESS SNAPSHOT

2025 TARGET Achieve a 60% communitywide diversion rate.	BASELINE 9% (2010)	MOST CURRENT 15.8% (2021)	CHANGE FROM BASELINE +6.8 points	NOTES Baseline based on statewide total; current year based on Front Range region total. Metric includes municipal solid waste diversion.	STATUS
Achieve an 80% diversion rate at the Civic Center.	68,433 lbs (2018)	28,836 lbs* (2021)	N/A*	Metrics reported include pounds recycled and composted. 2021 data is only for 8-month period from January through July. 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: 2,174 lbs* Patterson: 1,951 lbs* Daniels: 0 lbs* Lasley: 1,313 lbs*	N/A*	Head Start classrooms were selected due to their recent zero waste program launch and youth impact. Metrics reported include pounds recycled and composted. Diversion rate not available.	•
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: 89%	Cider Days: N/A Earth Day: +9 points	Cider Days in 2021 did not sort event waste due to ongoing public health concerns related to COVID-19.	•

The target is on track

The target is not on track

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

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.

2021-2022 PROGRESS SNAPSHOT

2025 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	57% (2010)	MOST CURRENT 34% (2022)	CHANGE FROM BASELINE -23 points	NOTES Data from 2022 City of Lakewood Community Survey; surveys are conducted every few years.	STATUS
Lakewood Community Survey to 60%. Increase resident subscriptions to the city communication tools each year.	31,251 (2015)	105,973 (2022)	+239%	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)	10 (2022)	+8	The program began in 2012; the baseline reflects the program's first full year. Ten total neighborhoods currently participate. Additional resources will be necessary to continue program expansion.	•
Increase recreation program participation each year.	352,000 (2010)	353,184 (2021)	0.3%	Includes participation at city recreation centers, pools, and as of 2017, the Clements Center.	d •
Eliminate USDA-defined food deserts in Lakewood.	6 (2015)	2 (2020)	-67%	as or 25 m, and elements conten	
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: 48% Special Needs: 36% Low-Income: 22% Homeless: 14%	N/A	Data from 2022 City of Lakewood Community Survey. In 2010, only the older adults category was surveyed. Trend for all categories has declined each year of the Lakewood survey. As of 2022, no consistent Front Range benchmark comparison has yet been established.	



The target is not on track

The target is TBD

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.

2021-2022 PROGRESS SNAPSHOT

2025 TARGET	BASELINE	MOST CURRENT	CHANGE FROM BASELINE	NOTES	STATUS
Ensure that all waters within Lakewood meet or exceed the Colorado Department of Public Health & Environment's Water Quality Standards for the uses assigned.	1 body of water impaired (2015)	2 bodies of water impaired (2021)	100%	Bear Creek Reservoir is regularly monitored for phosphorus (P) and chlorophyll a (Chl-a) levels that might exceed the existing requirements. All designated reservoir uses are currently being met. The known nutrient impairment will continue to be managed by Lakewood staff and the Bear Creek Watershed Association. One segment of Bear Creek from Kipling Pkwy. to Wadsworth Blvd. was added in 2021 due to CDPHE lowering the water quality standard for arsenic.	•
Achieve 30% tree canopy coverage.	7.8% (2011)	16% (2019)	N/A	Baseline established with i-Tree landscape tool using 2011 NLCD data. Current figure is from the City of Lakewood Forestry Division's 2022 urban tree canopy assessment using 2019 USDA NAIP data. Percent change not reported due to differing data sources.	•

TRANSPORTATION

SUSTAINABILITY PLAN CHAPTER 7

2015 SUSTAINABILITY PLAN GOALS

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

Foster sustainable transportation choices in Lakewood.

2021-2022 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)	855/ 11.6% (2021)	+10.4 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)	77.3% (2020)	-1.7 point	Data from 2020 American Community Survey.	•
Decrease petroleum-based fuel consumption of the city fleet by 10%.	330,505 gallons (2010)	309,940 gallons (2021)	-6%	Data not normalized for weather.	•

The target is on track

The target is not on track

The target is TBD

APPENDIX A

TARGETS AND INDICATORS

	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.											
APTATION: TARGETS	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.				
JAPT	TARGET: Reduce communitywi	de greenhouse g	gas emissions by	50% below 2007	levels by 2050.							
CLIMATE CHANGE & AD	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 gre	enhouse gas em	issions annually t	hrough 2025.			,					
	Municipal Greenhouse Gas Emissions	-	-	-	-	-	-	Data not available.				

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES					
	TARGET: Generate 45% of mun	icipal energy fro	m renewable soເ	irces by 2025.									
ENVIRONMENT: TARGETS	Percent of municipal energy from renewable sources	2010	12%	2021	58%	+46 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.					
MEN	TARGET: Generate 45% of residential energy from renewable sources by 2025.												
ILT ENVIRON	Percent of residential energy from renewable sources	2010	12%	2021	42%	+30 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.					
E BU	TARGET: Generate 45% of com	mercial and indu	strial energy fro	m renewable sou	rces by 2025.								
ENERGY, WATER, & THE BUILT	Percent of commercial and industrial energy from renewable sources	2010	12%	2021	38%	+26 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.					
ζ, '	TARGET: Reduce municipal building and facility energy use intensity by 30% by 2025.												
ENE	Municipal energy use intensity (mmbtu per square foot)	2015	0.124	2021	0.117	-6%	City of Lakewood Community Resources Department and Sustainability Division	Includes electric and gas energy consumption normalized for weather. Based on data from occupied city buildings with energy use greater than 100 million British Thermal Units (mmbtu). The baseline value was updated in 2020 to reflect more accurate historical data.					
	TARGET: Reduce citywide build	ling energy use i	ntensity by 20%	by 2025.									
	Citywide energy use in megawatt hours (MWh)	2012	2,832,699	2021	2,970,701	+5%	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 wate	r use by 20% by	2025.										
	Citywide water use in kilogallons	2010	8,762,212	2021	8,427,899	-4%	Denver Water	Weather normalized by Denver Water.					
	TARGET: Increase the percentage	ge of certified gr	een buildings (n	ew construction a	nd renovations	receiving occupa	ncy permits) each year from 2015 to 20	025.					
	Percentage of certified green buildings within citywide building stock	2010	6	2021	29	+23	Green Globes, USGBC LEED, and Living Building Challenge online project directories	Values represent cumulative number of LEED certified and Green Globes projects. Commercial citywide building stock is currently unavailable.					

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
ATORS	Indicator: Kilowatts of on-site solar energy installed	2010	1,023	2021	2,918	+185%	Permit Data from City of Lakewood Public Works Department	Metric reflects number of kW installed on an annual basis. Since 2010, a total of 18,158 kW of on-site solar has been permitted citywide.
ENERGY, WATER, & THE BUILT ENVIRONMENT: INDICATORS	Indicator: Number of residential subscribers to community solar projects and wind source	2015	Windsource 2,500 Solar Garden 9	2021	Windsource 4,118 Solar Garden 123 Renewable*Connect 118	Windsource +65% Solar Garden +1,267%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019.
THE BUILT ENVII	Indicator: Annual energy resource mix as reported by Xcel Energy	2010	Coal: 61% Natural Gas: 27% Wind: 10% Hydro: 1% Other (includes solar): 1%	2021	Coal: 32% Natural Gas: 29% Wind: 33% Hydro: 1% Solar: 5% Other: 1%	Coal: -29 Natural Gas: +2 Wind: +13 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.
r, water, 8	Indicator: Residential electricity and gas costs	2015	Electricity \$0.12/kWh Natural Gas \$0.78/therm	2021	Electricity \$0.12/kWh Natural Gas \$0.83/therm	Electricity +6% Natural Gas +6%	Lakewood Annual Community Energy Report by Xcel Energy	-
ENERG.	Indicator: Number of business subscribers to community solar projects and wind source	2015	Windsource 16 Solar Garden 5	2021	Windsource 20 Solar Garden 51 Renewable*Connect 103	Windsource +25% Solar Garden +920%	Lakewood Annual Community Energy Report by Xcel Energy	The Renewable*Connect program began in 2019.
	Indicator: Commercial electricity and gas costs	2015	Electricity \$0.09/kWh Natural Gas \$0.48/therm	2021	Electricity \$0.10/kWh Natural Gas \$0.52/therm	Electricity +10% Natural Gas +7%	Lakewood Annual Community Energy Report by Xcel Energy	-
	Indicator: Kilowatts of energy generated from on-site renewable energy systems for municipal buildings	2010	0	2022	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 addi- tional 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	
INDICATORS	Indicator: Municipal energy use intensity (mmbtu/ft²)	2015	0.124	2021	0.117	-6%	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.
ONMENT	Indicator: Municipal water use	-	-	-	-	-	City of Lakewood Community Resources Department	Data to be collected upon implementation of utility tracking software.
BUILT ENVIRONMENT:	Indicator: Number of certified green building projects	2010	6	2021	29	+23	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 B	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	2021	0	0%	Sustainable Sites Initiative	-

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES			
	TARGET: Increase local food ass	sets annually thr	ough 2025.								
RGETS	Number of local food assets	2015	37	2021	51	+49%	City of Lakewood Planning Department	Includes community gardens, farms, Community Supported Agriculture sites and farmers markets. Decreases in 2020 and 2021 may be due to pandemic.			
7: TA	TARGET: Achieve participation from 20 local businesses in the first three years of implementing a green business certification program.										
ECONOMY: TARGETS	Number of certified green businesses	-	-	-	-	-	-	City of Lakewood green business certification program to be established.			
	TARGET: Increase the percenta	tage of households in CDBG qualified neighborhoods spending less than 45 percent of income on housing and transportation costs to 60% by 2025.									
SUSTAINABLE	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 methodolgy, 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)	2021	30,744 (47% of households)	-6%	US Census Bureau, H12: Average Household Size of Occupied Housing Units by Tenure, and B19001- Household Income for the Past 12 Months	Methodology originally sourced from STAR Community Rating System Technical Guide. Calculation based on the Living Wage for a single person multiplied by the average household size utilizing data from the MIT Living Wage Calculator and American Community Survey. The Living Wage includes mostly prior year expenses inflated to Q1 current year values.			
	TARGET: Increase number of ho	ousing units with	in a designated (Complete Neighb	oorhood 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
	Indicator: Location quotients of specifically identified sectors	-	-	-	-	-	-	Data not available.
SUSTAINABLE ECONOMY: INDICATORS	Indicator: Urban agriculture permits issued	2014	93	2021	53	-43%	City of Lakewood Planning Department	"Urban agriculture permits" are small animal permits; permits not required for zone districts R-1-9, R-1-12, R-1-18, and R-1-43. Spike in 2020 (61 permits) likely due to COVID-19 pandemic.
E ECONOM	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.
SUSTAINABL	Indicator: Funds deposited into locally owned and managed financial institutions	-	-	-	-	-	-	Data not available.
	Indicator: Unemployment level	2010	Avg rate: 10% Avg no.: 7,956	2021	Avg rate: 5.9% Avg no.: 5,194	Avg rate: -4.1 points Avg no.: -34.7%	Bureau of Labor Statistics Data Finder	2021 data reflects the ongoing 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%	2021	11%	+7.5 points	Mailchimp.com	Significant increase in 2021 may result from inconsistencies in how "click rate" is reported from Mailchimp.
	Indicator: Median household income	2010	\$65,976	2021	\$75,343	+15.3%	U.S. Census Bureau	2010 data adjusted to 2021 inflation.
	Indicator: Percentage of households that meet or exceed the living wage standard	2010	53%	2021	47%	-6 points	U.S. Census Bureau	Methodology pulled from STAR Community Rating System Technical Guide.
	Indicator: Percentage of households that spend more than 45% of income on housing and transportation costs	2013	45%	N/A	N/A	N/A	Center for Neighborhood Technology (CNT) H + T Affordability index	Due to challenges with data assumptions and lack of consistent methodolgy, 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
ORS	Indicator: Number of residents on waiting lists for subsidized units at MWHS properties	2015	200	2021	1000	+400%	Metro West Housing Solutions	Metrics reported in households selected for wait list. Number of applications decreased from 4,300 in 2015 to 3,750 in 2021.
ECONOMY: INDICATORS	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.
SUSTAINABLE ECONC	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 (2019-20 and 2020-21).
SUST	Indicator: High school graduation rates and postsecondary educational attainment	2010	High School Grad & Higher: 90% Bach. Degree and higher: 36%	2021	High School Grad & Higher: 93% Bach. Degree and higher: 44%	High School Grad & Higher: +3 points Bach. Degree and higher: +8 points	U.S. Census Bureau	-
	Indicator: Participation in workforce development programs and skills training	2015	2,258 participants	-	-	-	American Job Center	Data not available.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
	TARGET: Achieve a 60% comm	unitywide divers	ion rate by 2025.					
TARGETS	Diversion rate	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Data represents Front Range Region MSW diversion. CDPHE updated methodology between 2018 and 2019; therefore, current data may not be comparable to baseline year.
	TARGET: Achieve an 80% diver	sion rate at the C	ivic Center by 20	25.				
ZERO WASTE:	Pounds recycled and composted	2018	68,433 lbs	2021	28,836 lbs	N/A	City of Lakewood Hauler Reports	2021 waste data only available for 8-months from January through July. Percent change not calculated due to lack of full year of data.
ZE	TARGET: Achieve increased div	ersion rates for s	pecific municipal	l facilities.				
	Pounds recycled and composted	2017	11th Ave - 6,192 lbs Patterson - 7,392 lbs Daniels - N/A Lasley - N/A	2021	11th Ave - 2,174 lbs Patterson - 1,951 lbs Daniels - 0 lbs Lasley - 1,313 lbs	11th Ave N/A Patterson N/A	City of Lakewood Hauler Reports	The four Head Start Classrooms were selected to be tracked separately due to their recent zero waste program launch and youth impact. Significant impacts resulting from facility closures due to COVID-19. 2021 waste data only available for 8-months from January through July. Percent change not calculated due to lack of full year of data.
	TARGET: Achieve a 90% diversi	on rate at City of	Lakewood Earth	Day and Cider D	ays events.			
	Diversion rate	2014	Cider Days: 87% Earth Day: 80%	2021 2022	Cider Days: N/A Earth Day: 89%	Cider Days: N/A Earth Day: +9 points	City of Lakewood Community Resources and Planning Departments	Cider Days in 2021 did not sort event waste due to ongoing public health concerns related to COVID-19.
	TARGET: Achieve a 60% resider	ntial diversion ra	te by 2025.					
	Diversion rate	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Baseline represents statewide total. Current data represents MSW diversion. CDPHE updated methodology between 2018 and 2019 to separate Front Range Region from Greater Colorado; therefore, current data may not be comparable to baseline year. Regional trend is declining from high of 18% diversion in 2018.
	TARGET: Achieve a 60% constru	uction and demo	lition diversion r	ate 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% dive	ersion rate for pr	iority waste strea	ıms.				
	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
ORS	Indicator: Number of residents engaged through zero waste outreach and education campaigns	2015	6 campaigns + events	2019	15 campaigns + events	+150%	City of Lakewood	Ongoing and embedded as best practice in city activities, Sustainable Neighborhood projects, and online resources. No longer tracking individual events and campaigns.
:: INDICAT	Indicator: Number of city facilities that offer recycling and composting collection	2015	Composting: 2 Recycling: 19	2019	Composting: 8 Recycling: 22	Composting: +300% Recycling: +16%	City of Lakewood Sustainability Division	No additional facilities added to municipal hauling contracts since 2019. Does not include recycling containers at park sites.
ZERO WASTE: INDICATORS	Indicator: Participation at special collection events	2015	Participation: 3,373 Pounds: 39,259 Gallons: 112	2019	Participation: 7,778 Pounds: 78,103 Gallons: 170	Participation: +130% Pounds: +99% Gallons: +52%	City of Lakewood Sustainability Division and Public Works, Police, and Community Resources Departments	Special collection events were limited in 2020 and 2021 due to COVID-19, and not tracked for these years. Going forward, some special collection events like holiday lights and cooking oil will not be held because outside partners like SustainAbility accept those and other hard-to-recycle materials year-round. Special collections events reported will not be comprehensive.
	Indicator: Volume of material collected at Quail Street Recycling Center	2012	1,200 tons	2021	818 tons	-32%	City of Lakewood Public Works Department	Trend is increasing after 2020 low but has not yet returned pre-COVID levels. Closures in 2020 due to COVID-19 may have resulted in some customers switching to other methods of recycling.
	Indicator: Volume of hazardous material collected at Rooney Road Recycling Center	2004	131 tons	2021	306 tons	+134%	City of Lakewood Public Works Department	Lakewood is a Rooney Road Recycling Center Authority Management Committee member jurisdiction.
	Indicator: Residential diversion rate (seven units or fewer)	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Same as overall residential diversion rate. Data by residential unit type not available.
	Indicator: Percentage of residents with recycling/composting services	-	-	2016	Recycling: 66%	-	City of Lakewood Trash and Recycling Survey	Data based on a single year survey targeted toward single-family residences.
	Indicator: Percentage of residents who compost at home	-	-	2016	22%	-	City of Lakewood Trash and Recycling Survey	Data based on a single year survey targeted toward single-family residences.
	Indicator: Residential diversion rate (more than eight units)	2010	9%	2021	15.8%	+6.8 points	Colorado Department of Public Health and Environment	Same as overall residential diversion rate. Data by residential unit type not available.

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

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES				
	TARGET: Increase reident subscriptions to tity 2015 31,251 2022 105,973 +239% Malichimp.com Residents may subscribe to more than one e-neweleters and thus be double counted by e-neweleters and thus be double counted by e-neweleters are recreation programs and the Street of Outstanding Sustainable Neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025. Number of Outstanding Sustainable Neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025. Number of Outstanding Sustainable Neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025. Number of Outstanding Sustainable Neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025. Number of Outstanding Sustainable Neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025. Number of Outstanding Sustainable Neighborhoods are reflects the program in 2012; the baseline reflects the program in 2012; t											
LTH: TARGETS	reporting "good" or "very good" satisfaction rating for welcoming citizen involvement in the Citizen	2010	57%	2022	34%	-23 points	City of Lakewood Citizen Survey	satisfaction ratings have declined every year				
HEA												
ON & PUBLIC	subscriptions to city	2015	31,251	2022	105,973	+239%	Mailchimp.com	e-newsletter and thus be double counted; some subscribers may not be Lakewood				
IESIC	TARGET: Certify 12 neighborho	oods as "Outstand	ding Sustainable	Neighborhoods"	in the Sustainab	le Neighborhoo	ds Program by 2025.					
тү сон		2013	2	2022	10	+8						
N O N	TARGET: Increase recreation program participation each year through 2025.											
COMI		2010	352,000	2021	353,184	0.3%						
	TARGET: Eliminate USDA-defir	ned food deserts	in Lakewood.									
	food deserts within the city	2015	6	2021	2	-67%		boundaries. Only Jefferson County tracts are				
	TARGET: Achieve community a	ffordable housin	g targets.	•								
	TBD	-	-	-	-	-	-					
				or "very good" sa	tisfaction ratings	for Lakewood p	rograms for people with special needs,	older adults, low-income persons and				
	comparison of the percentage of residents	2010	Similar (60%) Special Needs:	2022	N/A (48%) Special Needs:	-	City of Lakewood Citizen Survey	No consistent Front Range comparison has been established yet. Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.				

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
	Indicator: Voter turnout in regular municipal elections	2010	71%	2021	39%	-32 points	City of Lakewood City Clerk's Office	A regular municipal election was held in 2020.
ICATORS	Indicator: Enrollment in citizen academies	2013	Planning Academy: 19 Police Academy: 24	2019	Planning Academy: 28 Police Academy: 24	Planning Academy: 47% Police Academy: 0%	City of Lakewood Planning and Police Departments	Planning Academy and Police Academy were canceled in 2020 and 2021 due to COVID-19.
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	Indicator: Number of applications for citizen boards and commissions	2014	24	2021	48	+100%	City of Lakewood City Clerk's Office	Number varies on how many board or commission openings occur that year.
PUBLIC HE	Indicator: Number of volunteers participating in city programs and activities	2014	47,955 hours	2021	12,582 hours	N/A	City of Lakewood Community Resources Department	Fewer volunteer opportunities were offered in 2020 and 2021 due to COVID-19.
ESION &	Indicator: Total page views on Lakewood.org	2015	4,546,627	2021	7,127,026	+57%	Google Analytics	-
JNITY COHI	Indicator: Number of followers of Lakewood social media channels	2015	20,773	2022	106,269	+412%	City of Lakewood City Manager's Office	-
СОММ	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%	2022	45%	-7 points	City of Lakewood Citizen Survey	Latest survey conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Resident satisfaction with overall quality of life	2010	90%	2022	83%	-7 points	City of Lakewood Citizen Survey	Based on responses of "Good" and "Very Good." Latest survey conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Number of participants in the Sustainable Neighborhoods Program	2012 - 2013	763	2021 - 2022	11,103	+1,355%	City of Lakewood Sustainability Division	The program began in 2012; the baseline reflects the program's first full year. The program's credit year is from June 2021 through May 2022. Neighborhoods held 95 projects, special events, and workshops.
	Indicator: Number of registered neighborhood organizations	2015	129	2022	131	+1.6%	City of Lakewood Planning Department	Includes registered HOAs and registered neighborhood associations.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
ORS	Indicator: Number of neighborhoods, households and people registered on NextDoor.com	2015	102 neighborhoods	2022	139 neighborhoods	+36%	NextDoor.com	-
I: INDICAT	Indicator: Participation in Lakewood's Inspire Arts Week	2013	2,500	2021	2,256	-	City of Lakewood Community Resources	Low attendance likely due to ongoing impacts of COVID-19. Pre-pandemic attendance was 7,000-8,000 people.
LIC HEALTH	Indicator: Attendance at city Cultural and Heritage programs	2010	85,606	2021	218,923	+156%	City of Lakewood Community Resources	Overall participation rebounded in 2021 following significant impacts in 2020 due to COVID-19.
N & PUBI	Indicator: Annual number of public art installations	-	-	2021	Permanent: 64 Temporary: 63	-	City of Lakewood Community Resources + Comprehensive Planning	-
COMMUNITY COHESION & PUBLIC HEALTH: INDICATORS	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.
OMMUNIT	Indicator: Number of households in identified food deserts	2015	11,018	2020	4,062	-63%	United States Department of Agriculture Food Access Research Atlas	-
O	Indicator: Resident's satisfaction with recreation programs and facilities	2010	Programs: 78% Facilities: 81%	2022	Programs: 73% Facilities: 75%	Programs: -5 points Facilities: -6 points	City of Lakewood Citizen Survey	Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.
	Indicator: Number of unique visits to city recreation facilities	-	-	-	-	-	City of Lakewood Community Resources Department	Data not available.
	Indicator: Bicycle traffic counts	2017	Average Weekday Usage: Garrison St @ 500: 50 (Oct.) Bear Creek Trail E. of Estes: 106 (Aug.)	2019	13th Ave Bike Path (Bear Creek Trai Garrison S 26th Ave (day Usage along: (W Line) @ Zephyr: 39 I- E. of Estes: 223 St @ 500: 27 @ 9230: 142 Simms St: 137	City of Lakewood Public Works Department	Due to COVID, counts were conducted at only 1-2 locations in 2020 and 2021. 2019 bicycle counts at 13th Ave were conducted in March & October, at Bear Creek Trail in March, April, & September, Garrison St. in February, 26th Avenue in July, and 32nd Avenue in February & June. Counts reported are annual averages of all counts at each location.
	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, extended to 2023 due to COVID-19.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
INDICATORS	Indicator: Jefferson County public health selected health conditions and causes of death	2011	Leading Causes of Death: Cancer: 21% Cardiovascular Diseases: 24% Unintentional Injuries 7%	2018	Leading Causes of Death: Cancer: 20.5% Heart Disease: 21.1% Unintentional Injuried: 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.
НЕАСТН:	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. Wait list is full on an annual basis, no longer tracking.
COHESION & PUBLIC	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 methodolgy, the H + T Affordability Index will no longer be used to track this metric. Alternative data source may be needed.
COMMUNITY CO	Indicator: Participation in City of Lakewood Family Services programs	2015	56,167	2021	21,300	-62%	City of Lakewood Community Resources Department	Reported as total annual attendance, not unique participants. Significant decline in participation due to ongoing impacts of COVID-19.
00	Indicator: Number of people served through the Action Center	-	-	2021	31,641 household visits	-	The Action Center	Data does not represent unique households; multiple visits to the same household may be duplicated.
	Indicator: Resident's feelings of safety	2013	In your neighborhood during the day: 96% Walking alone in your neighborhood after dark: 72%	2022	In your neighborhood during the day: 94% Walking alone in your neighborhood after dark: 61%	In your neighbor- hood during the day: -2 points Walking alone in your neighbor- hood after dark: -9 points	City of Lakewood Citizen Survey	Latest citizen survey was conducted in 2022. Survey is conducted every 2-3 years.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES				
	TARGET: Increase the acreage of	TARGET: Increase the acreage of functional and healthy natural ecosystems.										
TS	Acreage of functional and healthy natural systems	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy NS1-C, p. 128.				
TARGETS	TARGET: Ensure that all waters within Lakewood meet or exceed the CDPHE's Water Quality Standards for the uses assigned.											
NATURAL SYSTEMS: TA	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%	2019	16%	-	City of Lakewood Urban Tree Canopy Assessment	Baseline established with i-Tree landscape tool using 2011 NLCD data; more recent datasets are not currently available within the tool. DRCOG 2018 LULC data was available for the first time in 2020 as an alternative data source. In 2022, the City of Lakewood Forestry Division completed an urban tree canopy assessment comparing USDA NAIP data from 2011 and 2019. Percent change not reported due to differing data sources.				

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
NATURAL SYSTEMS: INDICATORS	Indicator: Acreage of land cover by habitat type	2011	Developed: 20,904.2 acres Forest: 195 acres Wetland: 927.5 acres Water: 642.9 acres Other: 5,529.1 acres Cultivated: N/A	-	-	-	i-Tree Landscape Tool	i-Tree uses NLCD land cover, tree canopy, and impervious surface data; "other" includes shrub/scrub, grassland/herbaceous, and barren land. Data has not been updated since 2011; an alternative data source may be needed to continue tracking this metric.
NATURAL SYST	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/ for- merly seen and controlled: purple loosestrife, orange hawkweed, myrtle spurge, cypress spurge. Japanese knotwood 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	2021	151	+40%	City of Lakewood Community Resources Department	Much of programming shifted to virtual in 2020 due to COVID-19.
	Indicator: Attendance at Lakewood's annual Earth Day Celebration	2012	500	2022	2662	+432%	City of Lakewood Sustainability Division	2022 was the first in-person event since 2019 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			
	TARGET: Convert all streetlights to LED or other high efficiency lighting technologies by 2025.										
TARGETS	Number of LED streetlights	2015	94	2021	855	+810%	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.			
ON:	TARGET: Reduce Lakewood's d	ARGET: Reduce Lakewood's daily per capita VMT by 10% by 2025.									
TRANSPORTATION:	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.			
F	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	2020	63,863	+16%	United States Census Bureau	This metric reports the number of people who commuted by driving alone.			
	Percent of trips to work that are single-occupancy	2010	79%	2020	75.3%	-1.5 points	United States Census Bureau	This metric reports the percentage of workers who usually commute to work alone.			
	TARGET: Decrease petroleum-k	pased fuel consu	mption of the cit	y fleet by 10% by	2025.			_			
	Gallons of petroleum-based fuel consumed	2010	330,505	2021	309,940	-6%	City of Lakewood Public Works Department	Data not normalized for weather.			

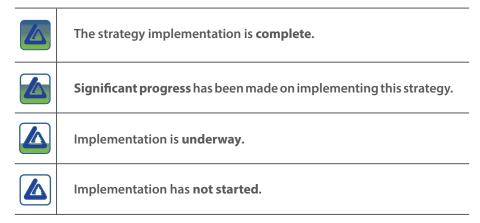
	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
INDICATORS	Indicator: Annual vehicle miles traveled in street maintenance operations	2010	156,865	2021	198,531	+27%	City of Lakewood Public Works Department	Data not normalized for weather.
	Indicator: Concentration of criteria air pollutants	-	-	-	-	-	-	Data not available.
TRANSPORTATION:	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.
TRANSP	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	2021	6,626,608 kWh	-6%	City of Lakewood Public Works Department	Data includes metered, non-metered, flasher and flat rate usage.

	METRIC	BASELINE YEAR	BASELINE	MOST CURRENT YEAR	MOST CURRENT	CHANGE	SOURCE	NOTES
CATORS	Indicator: Commuter mode split	2010	Drove alone: 79% Carpooled: 9% Transit: 4% Walked: 2% Other: 6%	2020	Drove alone: 75% Carpooled: 8% Transit: 5% Walked: 1% Other: 10%	Drove alone: -4 points Carpooled: -1 points Transit: +1 point Walked: -1 point Other: +4 points	United States Census Bureau	2021 data had not been released by publication date.
TRANSPORTATION: INDICATORS	Indicator: Transit ridership	2010	3,959,935	2021	2,100,524	-47%	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.
TRANSPOF	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 methodolgy, 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	2021	342 mi. of trails and routes	+8% 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, 2020, & 2021	Average Weekday Usage along: 13th Ave Bike Path (W Line) @ Zephyr: 39 Bear Creek Trail - E. of Estes: 184 Garrison 5t @ 500: 27 26th Ave @ 9230: 142 32nd Ave @ Simms St: 303		City of Lakewood Public Works Department	Most counts not taken during 2020 and 2021 due to pandemic. Latest counts for each location are shown. Numbers in bold updated for 2021.
	Indicator: Number of alternative fuel vehicles in Lakewood	2015	Jeffco: 275	2021	Jeffco: 6,116	Jeffco: +2,124%	Colorado Energy Office	Alternative fuel vehicles refers to only electric vehicles.
	Indicator: Number of alternative fuel vehicles in the City's fleet	2015	5	2021	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	2021	19	+171%	US Department of Energy	The number of LPG stations declined from 2020 to 2021. The number of EV stations increased.
	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:











	PROGRESS	STRATEGY	NOTES
APTATION		Greenhouse Gas Data Collection, Tracking and Reporting. Regularly monitor Lakewood's greenhouse gas emissions.	Community GHG inventories have been completed for 2007, 2015 and 2018, and the next iteration for 2021 is underway. A Municipal GHG inventory has not been completed.
CLIMATE CHANGE & ADAI		Greenhouse Gas Reduction Strategies. Utilize emission reduction assessments to prioritize and implement greenhouse gas reduction strategies.	The 2021 Article 13 Sustainabe Development upates to the zoning ordinance included a GHG Performance Standard for all new development and a GHG Migitation Program to help developments offset their emissions. Fees-in-lieu collected fund a Climate Protection Program to implement GHG reduction strategies. Assessments are also being used to inform other project and program outcomes through the Climate Protection Fund.
		CCA1-C Climate Change Vulnerability Study Conduct a climate change vulnerability assessment, recognizing that future conditions and threats will be different from current or historical conditions.	The Jefferson County Multi-Hazard Mitigation Plan was adopted in December 2021, and includes impacts of climate change on local hazards. Sustainability staff have applied for a grant to further explore the social vulnerabilities associated with climate change in Lakewood.
		CCA1-D Climate Preparedness Plan Based on the climate change vulnerability study, develop a climate preparedness plan to prepare for multiple climate futures.	The Jefferson County Multi-Hazard Mitigation Plan was adopted in December 2021, and includes impacts of climate change on local hazards. Sustainability staff have applied for a grant to further explore the social vulnerabilities associated with climate change in Lakewood.





Significant Progress







Not Started

	PROGRESS	STRATEGY	NOTES
MENT		Renewable Energy Transmission and Generation Expand renewable energy generation and access while ensuring necessary transmission infrastructure.	Ongoing opportunity to prioritize as part of the current Energy Futures Collaborative with Xcel Energy. Renewable sources of electricity generation expected to increase annually as part of Xcel's Renewable Energy Plan.
IILT ENVIRONI		District-Scale Sustainability Establish unique districts within Lakewood where community sustainability goals are achieved through customizable guidelines.	Federal Center property was originally identified as a potential site for this strategy. No alternative site has yet been identified.
ENERGY, WATER, & THE BUILT ENVIRONMENT		Sustainable Energy and Water Resource Center Establish a resource center to provide information and consulting services to residents and businesses related to energy and water conservation and renewable energy generation.	Implementation will be ongoing to ensure up-to-date resources.
ENERGY, W		Municipal Renewable Energy Generation 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.	This is an ongoing prioritized strategy for implementation. Staff has identified several pathways that could facilitate 100% renewable electricity for municipal buildings. A solar feasibility study was completed in 2022 to identify next steps for on-site solar production.
		BE2-A Efficiency in Resource Intensive Buildings Target resource intensive buildings for efficiency improvements.	Initial implementation underway based on Energy Futures Collaborative work plan.
		Reporting & Benchmarking Energy and Water Use 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.	In 2020, the state of Colorado passed legislation establishing benchmarking and future performance standards for buildings over 50,000 square feet. In 2022, Lakewood reserved space within the Sustainable Development Standards to implement a local benchmarking requirement.
		Resource Efficient Municipal Facilities Effectively manage and reduce municipal energy and water use.	Continued implementation of utility management software and energy performance contracts.
		Resource Efficient Building Codes 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.	New codes adopted in 2018. Updates should occur approximately every three years.



Complete



Significant Progress



Implementation Underway



Not Started

	PROGRESS	STRATEGY	NOTES
ENVIRONMENT		LEED Standards for Municipal Buildings Adopt an ordinance requiring that all newly constructed municipal buildings with year-round occupancy meet at least LEED Silver standards from the USGBC.	Research into best practices is currently underway. LEED Gold is included as an option to fulfill Enhanced Development Menu requirements in Article 13 of the zoning ordinance.
& THE BUILT		Green Building Construction and Retrofits 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.	Green building resources for developers are available in the city's Energy and Water Resource Center. Green building certfiications are available as an option to fulfill Enhanced Development Menu requirements for new construction and major remodels and to help mitigate emissions for the Greenhouse Gas Performance Standard, both part of the 2022 Article 13 updates. Efforts to create programs to help retrofit existing buildings and to establish a local benchmarking standards are underway.
ENERGY, WATER,		Sustainable Site Planning and Development Integrate key elements of the Sustainable Sites Initiative (SSI) to integrate into the city's site planning standards.	Various elements were adopted as part of the Lakewood Development Dialogue zoning code update process in 2018, and updated through the 2019 Enhanced Development Menu and 2022 Sustainable Development Standards amendments.





Significant Progress



Implementation Underway



	PROGRESS	STRATEGY	NOTES
SUSTAINABLE ECONOMY		SE1-A Local and Healthy Food Develop a comprehensive strategy in order to increase production, availability, and consumption of locally grown, affordable, and healthy food.	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
		Local Products and Services Develop a comprehensive strategy in order to increase the production, availability, and consumption of local products and services.	
LSUS		Live Local and Hire Local Campaign 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.	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.
		Local Investment Facilitate investment and entrepreneurship in the local economy.	Existing programs are available through partner agencies and organizations.
		SE1-E Sustainable Business Hub and Certification Program 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.	Businesses can participate in state-level programs through the Colorado Green Business Network.
		SE2-A Self-Sufficiency Education Host events and provide information for residents to encourage self-sufficient household practices.	The online <u>Sustainability Resource Center</u> provides information on various sutainable practices. Sustainable Neighborhoods host educational workshops and events for Lakewood residents with assistance from city staff.
		Complete Neighborhood Index 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.	Local strategic planning efforts, such as the Union Neighborhood Vision Plan and the ArtLine Framework Plan, help assess the completeness of those areas based on their individual contexts. Establishing a completeness index to apply to future planning efforts may be a desirable action step following the Comprehensive Plan update in 2025.





Significant Progress



Implementation Underway



	PROGRESS	STRATEGY	NOTES
ZERO WASTE		ZW1-A Zero Waste Outreach and Education Campaign Develop sector-specific outreach materials and educational campaigns to promote zero waste concepts and resources.	Recycle! It's Good for Lakewood Campaign was launched in 2018, and resources are available on Lakewood.org. Outreach and education efforts are ongoing.
ZER		Municipal Facility Zero Waste Programs Develop customized zero waste strategies for new and existing municipal facilities based on the type of use and users, waste characteristics and unique constraints.	Recent expansion of compost and recycling services to municipal facilities includes four Head Start facilities and Heritage Lakewood.
		Green Procurement Program Expand the city's green procurement program for the preferential purchase of green products and services and provide guidance for implementation.	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.
		Municipal Zero Waste Tools Develop resources and tools for City employees and facility users to support zero waste events, meetings and operations.	Ongoing expansion of toolkits, resources and trainings.
		Reuse and Resource Recovery Facilities Assess existing resource recovery facilities and infrastructure for capacity and material limitations in order to expand opportunities for landfill diversion.	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.
		Yard Waste Collection Site and Services Establish a collection site and provide supportive services to divert yard waste from landfills and generate revenue for expanded recycling and sustainability services.	Periodic community collection events provided by city. Several neighborhood-initiated leaf collections through the Sustainable Neighborhoods Program. Lakewood is participating in the effort to establish a slash recycling site in Jefferson County.
		Residential Curbside Recycling and Waste Diversion 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.	Staff initiated a robust community outreach effort in 2018 and used the collected feedback and additional research to compile a comprehensive report on the existing residential waste collection system in January 2019. In June 2019, staff produced a report detailing alternative residential waste collection systems for Lakewood to consider. City Council referred a question to the ballot, and in November 2019 voters opted not to proceed with a contracted hauler system. This implementation item is complete.
		Residential Organic Waste Provide opportunities for residents to divert organic waste from landfills.	Several neighborhood-initiated leaf collections through the Sustainable Neighborhoods Program. City classes on backyard composting. Workshops on composting through Sustainable Neighborhoods. Growing options for service providers for organics collection. Compost collection incentivized for new development through 2022 Sustainable Development Standards.





Significant Progress



Implementation Underway



	PROGRESS	STRATEGY	NOTES
ASTE		ZW2-C Multifamily Recycling and Composting Assist multifamily developers, owners, managers and homeowner associations in implementing recycling and composting programs in residential developments.	The adopted Sustainable Development includes options to incentivize recycling and composting through both the Enhanced Development Menu and Greenhouse Gas mitigation strategies.
ZERO WA		ZW3-A Commercial Waste Assessment and Prioritization Assess commercial waste systems to identify gaps in resource recovery facilities and prioritize the development of programs and policies.	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.
	Commercial Waste Diversion Programs and Policies Develop commercial waste diversion programs and policies that support responsic choices, enhance efficiency, minimize environmental impacts and convert waste in products.		
		Construction and Demolition Waste Adopt construction and demolition (C&D) waste diversion requirements and provide supportive materials for businesses.	The building code requires developments over 2,500 sf to recycle C&D waste, and zoning code updates adopted in 2022 further incentivize compliance through a performance deposit and refund program. Resources are available for contractors online and at city offices.









Implementation Underway



	PROGRESS	STRATEGY	NOTES
: НЕАСТН		CC1-A Diversity in Civic Participation and Leadership 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.	Multiple projects on LakewoodTogether.org and LakewoodSpeaks.org. Several neighborhood leaders from the Sustainable Neighborhoods Program have been appointed and elected to City Council and boards and commissions.
ON & PUBLIC		CC1-B Open and Honest Communication Support the city's core community value of open and honest communication.	Expanded multilingual resources provided by the City Manager's Office, and employee intercultural awareness trainings provided by the Human Resources Department.
COMMUNITY COHESION & PUBLIC HEALTH		CC1-C Social Resilience and Personal Networks Strengthen and expand community social networks to foster collaboration, communication and cooperation.	Ongoing development and support of a variety of programs and networks.
СОММС		Sustainable Neighborhoods Program 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.	Two new Lakewood neighborhoods and the City of Wheat Ridge joined the program in 2020. Continued expansion will require additional resources (staff and funding).
		Arts, Culture, and Events Recognize arts, culture and community events as important components of sustainability.	Significant expansion of creative industries and ongoing integration of art and sustainability projects and programs. Public art and social connetion amenities are incentivized in new development through the Enhanced Development Menu.
		Regional Health Efforts and Organizations Collaborate with regional partners in order to identify critical issues, develop programs and policies, and track effectiveness.	Ongoing participation by city staff in county efforts and programs.
		CC2-B Local and Healthy Food Develop a comprehensive strategy in order to increase production, availability and consumption of locally grown, affordable and healthy food.	Several assessments completed along with various projects. No citywide comprehensive strategy developed.
		CC2-C Community Physical Wellness Programs Promote healthy eating and active living programs in businesses, schools and other community organizations.	Several ongoing programs with local schools through Sustainable Neighborhoods Program. Overlaps with CC2-A.
		Access to Physical Activity Facilities and Programs Increase use of physical activity facilities and participation in recreation classes and programs.	Variety of projects/services including Lakewood Possibilities Fund, development of Carmody Universal Playground, Addenbrooke Outdoor Fitness court, and Green Mountain Recreation Center Fitness Court. Community Resources Dept. continues ongoing programming through Master Plan update.



Complete



Significant Progress



Implementation Underway



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











	PROGRESS	STRATEGY	NOTES				
rstems		NS1-A Culture of Ecological Stewardship Facilitate communitywide stewardship of Lakewood's natural heritage by advancing understanding of the importance of biological diversity and the value of ecosystem services.	Culture of stewardship across city departments. Assorted programs and outreach efforts to the public.				
NATURAL SYSTEMS		NS1-B Landscape and Agricultural Stewardship Reduce the impacts to ecosystem health, air and water quality resulting from landscaping and agricultural practices in Lakewood.	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 Identify natural habitat types in the city and establish management areas based on land use context.	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 Establish a Green Infrastructure Network (GIN) to strategically facilitate habitat protection, restoration and connectivity across the urban landscape.					
		Municipal Natural Resource Management Manage municipal natural areas, parks, right-of-ways and other properties to maximize ecological health and biological diversity.	Assorted programs supporting water quality, nontoxic pest and noxious weed management, including ecosystem-based management practices and reducing pesticide usage to promote pollinator health.				
		Stormwater Management and Flood Control Increase the capacity of Lakewood's landscape to manage stormwater and protect water quality.	Ongoing efforts to complete various stormwater management projects and programs, implemented by the Public Works Department. Increased use of nature-based solutions for water quality.				
		Cooling and Carbon Sequestration Adapt to increased temperatures and reduce carbon in the atmosphere through healthy vegetation, tree canopy coverage and use of low-reflective materials.	The Enhanced Development Menu includes incentives for developments to reduce urban heat islands and promote healthy vegetation. The city Forestry Dept completed a tree canopy assessment in 2022 to determine what areas of the city need additional plantings. Sustainability staff participates in regional learning opportunities about carbon sequestration.				









Implementation Underway



	PROGRESS	STRATEGY	NOTES					
			Street sweeping material screening and recycling program. Anti-idling program initiated to reduce idling time of city vehicles.					
TRANSPORTATION		Roadside Vegetation Increase the viability and extent of roadside landscaping and vegetation through coordinated planning efforts to assess infrastructure, design, plant selection and street maintenance operations.	Various streetscape and median planting programs completed or underway.					
TRA		T1-C Street and Signal Lights Convert street and signal lights to LEDs or other high efficiency technologies.	All city-owned lights use high efficiency lighting. Major roadblock to successful implementation is Xcel ownership and tariff rates for existing streetlights.					
		Sustainable Street Repair and Construction Ensure sustainable street repair and construction.	Street operations continue to utilize recyclable materials and to recycle street construction waste.					
		Bicycle and Pedestrian Planning and Outreach Remove barriers to bicycle and pedestrian transportation through a comprehensive strategy.	The city's 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.					
		Transportation Management Services Collaborate with west metro agencies to develop an approach, or several, to provide sustainable transportation management services.	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 Utilize and promote the suite of transportation management tools available through Denver Regional Council of Governments' Way to Go program.	Implementation will be ongoing.					
		City Fleet Develop a strategic plan to increase fuel efficiency and incorporate alternative fuel vehicles into the city vehicle fleet.	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



APPENDIX (

SUSTAINABLE NEIGHBORHOOD PROJECTS

FROM PROGRAM CERTIFICATION YEAR JUNE 2021 - MAY 2022

TOTAL NEIGHBORHOOD PARTICIPATION JUNE 2021-MAY 2022

NEIGHBORHOOD NAME	PARTICIPATION	CREDITS EARNED	CERTIFICATION STATUS
Applewood	956	151	Outstanding
Belmar	149	89	Outstanding
Eiber	848	221	Outstanding
Green Mountain	2605	145	Outstanding
Lake Lochwood Village	179	60	Outstanding
Morse Park	983	123	Outstanding
O'Kane Park	183	102	Outstanding
South of 6th	250	92	Outstanding
Southern Gables	1430	128	Outstanding
Weir Gulch Gardens	153	155	Outstanding
Note- three events with multiple planners:			
• Earth Day Celebration (7 neighborhoods)	2662		
• Electronics and Metal Recycling (2 neighborhoods)	464		
Paint Recycling (2 neighborhoods)	241		
TOTAL	11,103	1,266	

PROGRAM GOAL AREAS



LAND: Stewardship and conservation of ecosystems and resources



PEOPLE: Social vitality through community interaction, partnerships, and outreach



WATER: Conserving water resources and improving water quality



ENERGY: Energy conservation and use of renewable energy sources



AIR: Reducing emissions, improving both outdoor and indoor air quality

CLUB MEETINGS JUNE 2021-MAY 2022

PROGRAM GOAL AREAS SUPPORTED

NEIGHBORHOOD	CLUB NAME	ATTENDANCE	CREDITS EARNED	NOTES	LAND SEQUENCE SECONDARY	SE O PILO.	WATER SO	NERGY SOO	SSTATION SOUTH
Eiber	Walkin' and Talkin' Trash	4	1		×	x	×		
Eiber	Sustainable Eiber Steering Committee	70	12		×	х	×	×	
Eiber	Sustainable Eiber Garden Club	108	7		×	х	×		х
Belmar	Belmar Neighborhood Trash Pickup	25	4		×	х			
O'Kane Park	Leadership Club	19	2		×	х	×	×	х
O'Kane Park	Sustain O'Kane Bike Club	22	4			х			
O'Kane Park	Social Club	100	2			х			
	TOTAL CLUBS = 7	348	32		5	7	4	2	2

PROJECTS COMPLETED JUNE 2021-MAY 2022

				T HOOKE THE TO SO TO THE						
NEIGHBORHOOD	PROJECT NAME	NAME CREDITS EARNED NOTES		SUSSEMBLE REIGHT	TOPIC SEMPLE MINOR	WATER SOME	SOUTH NEIGHBORN SOUTH STATE OF SOUTH	SSET MI		
Belmar	Belmar Community Garden 2021	30	4 identified goals achieved	×	х	x				
Eiber	Pollinator Program (Bee Safe) Lakewood Relaunch & Campaign 2022	10	In progress, 2 identified goals achieved so far	×	х			х		
Eiber	Water Wednesdays Workshop Series 5		In progress, 1 identified goal achieved so far	×	х	х				
Eiber	Wildlife of Lakewood Photo Exhibition	30	5 identified goals achieved	×	х					
Eiber	Sustainable Eiber Re-launch/Re-Introduction	20	3 identified goals achieved	×	х	х	х	х		
Green Mountain	Upcycling Moving Boxes	25	3 identified goals achieved	×	х	х	х	х		
Morse Park	Community Garden Activities for Summer 2021	30	4 identified goals achieved x x		х	х	х	х		
O'Kane Park	Bee-Safe Neighborhood	5	In progress, 1 identified goal achieved so far	×	х	х	х	х		
South of 6th	Website improvements	25	3 identified goals achieved	×	х	х	х	х		
Southern Gables	Community Garden Activities for Summer 2021	35	5 identified goals achieved	×	х	х		х		
Weir Gulch Gardens	Compost Buddies	20	In progress, 4 identified goals achieved so far	×						
Weir Gulch Gardens	Bee Safe Weir Gulch Gardens	5	In progress, 1 identified goal achieved so far	×						
Weir Gulch Gardens	Scraps Composting Pilot Project	5	In progress, 1 identified goal achieved so far	х						
	TOTAL PROJECTS = 13	245		13	10	8	5	7		

SPECIAL EVENTS JUNE 2021-MAY 2022

NEIGHBORHOOD	EVENT NAME	ATTENDANCE	CREDITS EARNED	NOTES	LA HO SOODING	SE PILE SON	WATER S	NER GASSON	A I R S S S S S S S S S S S S S S S S S S
Applewood	Stober Community Garden Work Day	32	8		x	x			
Applewood	Seed Share and Seed Starting Presentations 2022	48	8		x	x			
Applewood	Fall Coat Drive 2021	140	12			х		х	
Applewood	Pie Social	35	8		х	х			
Applewood	2nd Annual Chalk Arts Extravaganza	75	10			х			
Applewood	Free Produce MArket	41	8		х	х			
Applewood	Little Free Library Scavenger Hunt	50	8			х			
Belmar	Personal Care & Household Drive for Rose Stein Elementary School	10	6			х			
Belmar	National Night Out 2021	100	12			х			
Belmar	Holiday Lights Recycling	14	7		х	х			
Eiber	Bee Safe Neighborhoods Meet-up - March 2022	3	6		х	х			
Eiber	Bee Safe Neighborhoods Meet-up - February 2022	6	6		х	х			
Eiber	Bee Safe Neighborhoods Meet-up - January 2022	4	6		х	х			
Eiber	Sustainable Eiber Spring Seed Swap 2022	20	6		×	х			
Eiber	Wildlife of Lakewood Opening Reception	75	8		×	х			
Eiber	Eiber Elementary Holiday Toy Drive	100	10			х			
Eiber	Colorado Pollinator Summit	150	12		×				х
Eiber	Neighborhood Puzzle Swap	18	6			х			
Eiber	4th Annual Sustainable Eiber Garden Tour	150	12		×	х	х		х
Eiber	Eiber Adopt-a-Gulch 2021	11	6		×	х	х		
Green Mountain	Tree Care and Selection for Green Mountain	24	6		×	х	х		х
Green Mountain	Seedling and Seed Swap	93	10		х	х	х		х
Green Mountain	Food Drive for Jeffco Eats	1705	12			х			
Green Mountain	Pumpkin Composting Drive	630	12		х	x	×		х
Green Mountain	Sustainable Green Mountain Garden Tour	75	10		х	х	×		
Green Mountain	Seedling and Seed Swap	43	8		х	х	×		

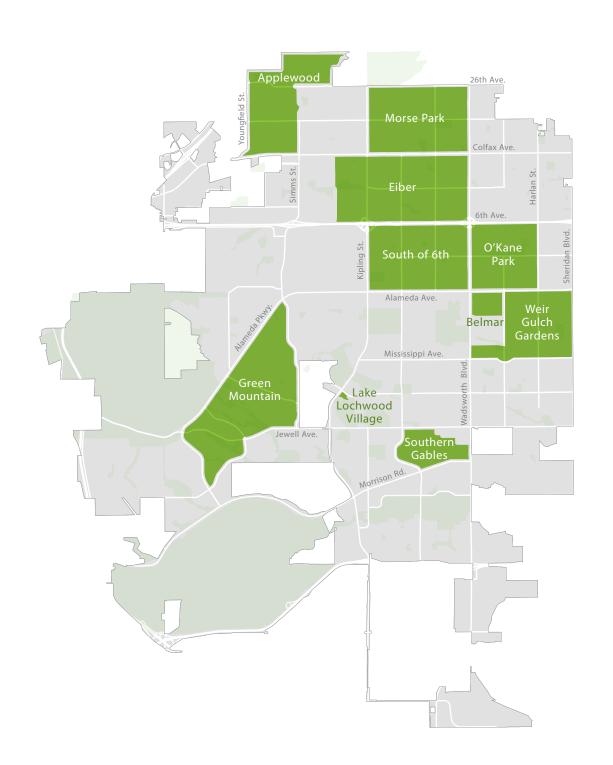
SPECIAL EVENTS JUNE 2020-MAY 2021 (CONTINUED)

					PROGRAMI GOAL AREAS SUPPORTED					
					I A W D S S S S S S S S S S S S S S S S S S	TEOPIE SOURCE	WATER SO	LNER OF SOON SOON SOON SOON SOON SOON SOON S	NIR SESSION SE	
Lake Lochwood	Pool Opening/Memorial Day Potluck	30	8			х				
Lake Lochwood	Holiday light decorating contest	34	8			х				
Lake Lochwood	Fall newsletter	72	12		х	х	х			
Lake Lochwood	Autumn Food Drive	35	8			х				
Lake Lochwood	Smith Reservoir Clean-Up	8	6		х	х	х			
Morse Park	Slater Community Garden Chipotle Fundraiser	20	6		х	×				
Morse Park	Glens Art Walk	400	13			х				
South of 6th	Free Christmas Tree Recycling /	16	6		х					
South of 6th	Annual Costume Parade	60	8			х				
South of 6th	Paint Recycling Event	100	12		х		х			
Southern Gables	Green Gables School Garden Planting Days	260	12		х	x	х	×	х	
Southern Gables	Bike and Walk to School Day at Green Gables Elementary	260	12		х	x	х	×	х	
Southern Gables	Green Gables Science Night	150	12		х	x				
Southern Gables	School Garden Day	260	12		х	x	х	×	х	
Southern Gables	Bee Safe Booth at Neighborhood Night Out	500	12		х	x	х		х	
Weir Gulch Gardens	Neighborhood Gathering and Seedling Swap	50	8		х	x				
Weir Gulch Gardens	E-Waste Recycle Event	16	6		х					
Weir Gulch Gardens	Neighborhood Bike Crawl	5	7			x		×		
Weir Gulch Gardens	Sustainable Weir Gulch Gardens Neighborhood Kickoff Meeting 2.0	55	9		х	x	х	×	х	
Weir Gulch Gardens	Community Clean Up	5	6		х	х	х			
Multiple	Metal and Electronics Recycling	464	12 each	Applewood and Morse Park	х					
Multiple	Paint Recycling	241	12 each	Applewood and Morse Park	х					
Multiple	Lakewood's Earth Day Celebration	2,662	12 each	Applewood, Eiber, Green Mountain, Lake Lochwood Village, Morse Park, Southern Gables, Weir Gulch Gardens	х	х	х	х	х	
	TOTAL SPECIAL EVENTS = 58	9355	538		35	43	17	7	11	

WORKSHOPS JUNE 2021-MAY 2022

NEIGHBORHOOD	WORKSHOP NAME	ATTENDANCE	CREDITS EARNED	NOTES	LA N D SOOD	SE PILE SE PRINCIPAL DE LA CONTRACTION DE LA CON	WATER SO	SOOD SOOD SOOD SOOD SOOD SOOD SOOD SOOD	NIR SOUTH HILDER
Applewood	Preparing the soil for your garden plot	40	6		х	х			
Applewood	Starting Seeds	17	4					х	
Applewood	Pollinators and Plants - Why Bee Safe	40	6		х				
Eiber	An Informal Conversation about how to Bee Safe	59	6	Remote workshop	×				х
Eiber	VIP tour of new community garden	10	4		х	х	х		х
Eiber	Water Wednesday: Learn about our neighborhood's water supply and safety	21	4	Remote workshop		х	х		
Eiber	Build-a-Pile Composting Class	7	4		х	х	х		х
Eiber	Protecting Pollinators	32	6	Remote workshop	х				х
Green Mountain	Hutchinson Elementary Eco Club Pollinator Talk	11	4		х	х	х		
Green Mountain	Starting from Scratch Workshop	9	4		х	х	х		
Green Mountain	Collecting and Saving Seeds	15	4		х	х	х	х	
Morse Park	Sustainable @ Home - Heat Pumps Webinar	27	8	Remote workshop		х		х	х
Morse Park	Household Energy Efficiency	72	8	Remote workshop	х	х	х	х	х
O'Kane Park	Xeric gardening	20	4		х	х	х	х	х
O'Kane Park	Backyard Composting	10	4		х	х	х	х	х
O'Kane Park	Sustainable and Organic Vegetable Gardens	12	4		х	х	х	х	х
South of 6th	Annual Seed Swap / Bee Safe Info / Native Plant Suggestions	15	4		х	х	х		
South of 6th	Great Backyard Bird Count	17	4			х			х
South of 6th	Backyard Birding Q&A / Meet & Greet	17	4		×				х
South of 6th	Solar Information Session and Q&A	15	6					х	
South of 6th	Backyard Composting Workshop	10	4		×			х	х
Weir Gulch Gardens	Energy Efficiency Workshop with Energy Outreach Colorado	16	6			х		х	
Weir Gulch Gardens	Bokashi Compost Skillshare 2.0	3	4		х				
Weir Gulch Gardens	Bokashi Compost Skillshare	3	4		х				
	TOTAL WORKSHOPS = 24	498	116		18	15	11	10	12

2021-2022 MAP OF LAKEWOOD SUSTAINABLE NEIGHBORHOODS





STAY INFORMED



Read the Sustainability Plan and this Report Online

Lakewood.org/SustainabilityPlan



Learn More about Sustainability in Lakewood

Lakewood.org/Green



Sign Up for Our Newsletter

<u>Lakewood.org/SustainabilityNews</u>





Follow Us on Social Media

@lakewoodsustainability
Facebook.com/PlanLakewood

Instagram.com/LakewoodSustainability



Join the Lakewood Sustainability Cooperative

Lakewood.org/scoop



Email Us

Sustainability@Lakewood.org

