

CITY OF LAKEWOOD

SUSTAINABILITY PLAN ANNUAL REPORT

2015



Lakewood
Full of Possibilities.



TABLE OF CONTENTS

Introduction.....p. 5

1. Climate Change and Adaptation.....p. 9

2. Energy, Water, and the Built Environment.....p. 15

3. Sustainable Economy.....p. 21

4. Zero Waste..... p. 27

5. Community Cohesion and Public Health..... p. 33

6. Natural Systems.....p. 39

7. Transportation.....p. 45

Appendix: Targets and Indicators.....p. 51

Climate Change and Adaptation.....p. 52

Energy, Water, and the Built Environment.....p. 53

Sustainable Economy.....p. 56

Zero Waste..... p. 59

Community Cohesion and Public Health.....p. 62

Natural Systems.....p. 66

Transportation.....p. 68

CITY OF LAKEWOOD STAFF
Jonathan Wachtel, *Sustainability Management*
Lynn Coppedge, *Sustainability Planner*
Emily Alvarez, *Planning Intern*

Original version 1 published May 31, 2016
Updated version 1.1 published June 8, 2016
Update reflects adjusted recreation figures to reflect all recreation center admissions on pages 34 and 62.

Cover Image by Jim Rabiolo
Icons made by Freepik from www.flaticon.com



SUSTAINABILITY IN LAKEWOOD

Lakewood's 2003 Comprehensive Plan includes a chapter on Community Sustainability

2003



The ECSL hosts the first Sustainability Awards to recognize community and employee leadership

2008



2007

The Employees' Committee for a Sustainable Lakewood (ECSL) forms to provide education, launch events, and lead sustainability initiatives



2010

A sustainability coordinator position is funded through federal grants and placed in the City Manager's Office



The Sustainability Division forms and the Sustainable Neighborhoods Program launches

2012



The Sustainable Neighborhoods Program receives national recognition from the American Planning Association

2014



2013

City Council endorses the Community Sustainability Framework



2015

Lakewood's first Sustainability Plan is adopted





SUSTAINABILITY IN THE CITY OF LAKEWOOD

Sustainability means creating balance among the environment, the economy, and society to ensure that practices and decisions do not compromise the quality of life for future generations. Sustainability is not an end goal, but an approach that recognizes the interplay between natural, economic, and social interests.

In Lakewood, the term sustainability made its first appearance in the 2003 Comprehensive Plan, which included a chapter on Community Sustainability. Since then, support for sustainability has grown throughout the Lakewood community. In May 2015, after two years of research and community engagement, the City of Lakewood's first communitywide Sustainability Plan was adopted.

WHAT IS THE 2015 ANNUAL REPORT?

As part of the Sustainability Plan adoption process, Sustainability Division staff committed to providing the community and City Council with annual updates on implementation progress along with an overview of emerging challenges and opportunities.

The Sustainability Division staff has prepared this report to highlight the key implementation efforts undertaken in 2015,* projects currently underway in 2016, and future priorities for 2017 and beyond. Additionally, this report includes the first comprehensive compilation of data in support of the Sustainability Plan's 35 measurable targets and 90 sustainability indicators.

HOW DOES IT INTERACT WITH THE COMPREHENSIVE PLAN?

The Sustainability Plan expands and complements the existing communitywide vision and sustainability efforts of the Lakewood community. It builds upon the recommendations contained in the Lakewood Comprehensive Plan, Lakewood 2025: Moving Forward Together, which was adopted in 2015 as a guide for physical and economic development in the city over the next 10 to 20 years. Distinct from the Comprehensive Plan, the Sustainability Plan sets measurable targets that are tracked and updated on a regular basis. In this regard, the Sustainability Plan is a flexible document, regularly adjusted based on new data and information.

*This report highlights a select group of projects and is not intended to be a comprehensive survey of every City program, policy, partnership, or action that is supporting the plan's goals and implementation strategies.

SUCCESS THROUGH TEAMWORK

Each of the accomplishments highlighted in this report are the result of collaboration and teamwork both within the City organization and across the community and region. We are off to a great start. However, the degree to which we are successful in achieving our organizational sustainability goals will depend greatly on the level of commitment from City leadership and staff across each City department and division. Likewise, realizing the wider community vision for a sustainable and vibrant city can only be achieved through strong partnerships between Lakewood's government, its utility providers, business community, civic organizations, and neighborhood residents.

SUSTAINABILITY METRICS

Sustainability metrics are the tools that we use to measure our progress and are composed of bits of information which, added together, provide an overview of what is happening in our organization and community.

The 2015 Sustainability Plan contains more than 60 different implementation strategies supporting 16 goals across a wide range of topics. Most of the plan's implementation strategies are composed of multiple steps that can each be viewed as their own smaller implementation projects. Due to the complex nature and incremental pace of implementation, it is important that we measure and track progress toward achieving our goals.

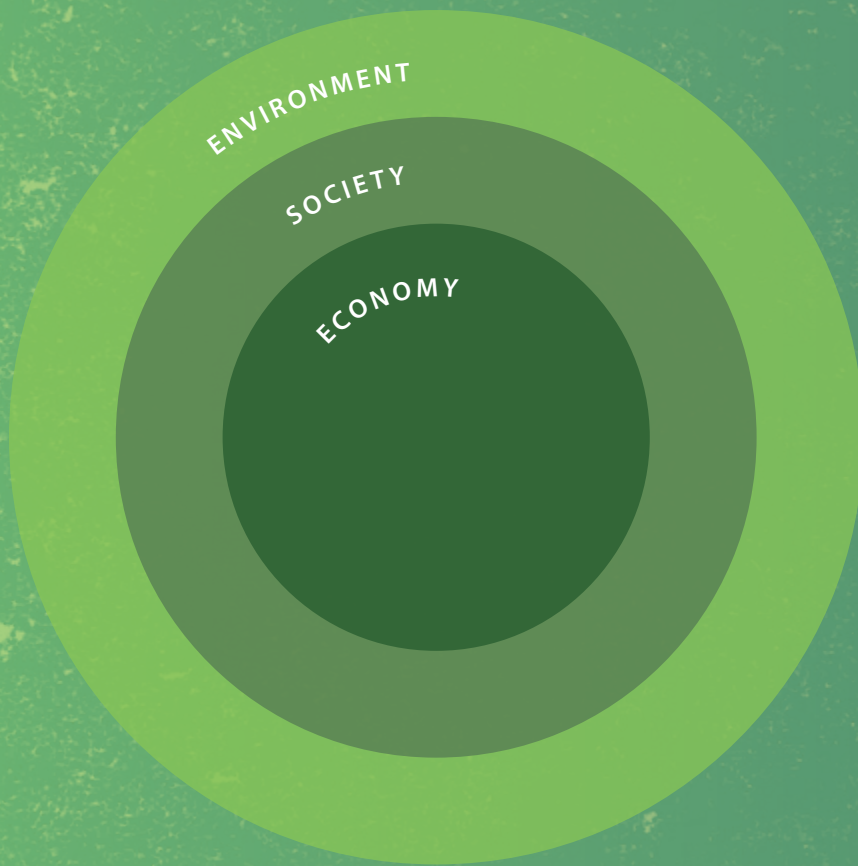
The sustainability metrics included in the plan include those used to track progress toward achieving the 35 measurable targets along with more than 90 carefully identified indicators, which provide more specific information on the trends relating to a singular topic.

Collectively, all of this data helps translate our community vision into tangible actions by providing insights into shifting trends, benchmarking our status before, during, and after implementation, and assessing the efficacy of our implementation programs all while keeping the City accountable to the adopted goals and targets.

ILLUSTRATING THE CONCEPT OF SUSTAINABILITY

The concept of sustainability can be illustrated through two different models. First, the “nested model” illustrates our dependence on a healthy environment to support social well-being, which in turn enables us to sustain a robust economy. In other words, without a healthy environment, a community would be unable to achieve social well-being and economic success.

Second, the “overlapping-circles model” illustrates the importance of considering equally the environmental, social, and economic impacts of our decisions and behaviors. It is the goal of sustainability to achieve balance between the natural environment, social values, and the economy.





CLIMATE CHANGE AND ADAPTATION

As greenhouse emissions increase and changes to climate systems escalate, so do the risks of severe and sometimes irreversible impacts to our natural and human systems. Collectively, our actions as individual nations and cities can mitigate our global emissions and adapt to changes in climate in order to create a resilient and vibrant future.

MITIGATION means limiting the magnitude and rate of climate change and associated impacts. Mitigation strategies largely consist of preventing or reducing greenhouse gas emissions.

ADAPTATION means preparing for new conditions, reducing vulnerabilities, and leveraging changes to create new opportunities for growth and sustainability.

THE PARIS AGREEMENT

On December 12, 2015, 195 nations gathered in Paris to sign a universal agreement aimed at limiting global temperature rise this century below 2 degrees Celsius (3.6 degrees Fahrenheit) while urging efforts to limit the increase to 1.5 degrees through mitigation and adaptation. **Action must be taken quickly as we have already reached the 1.5 degree threshold.**

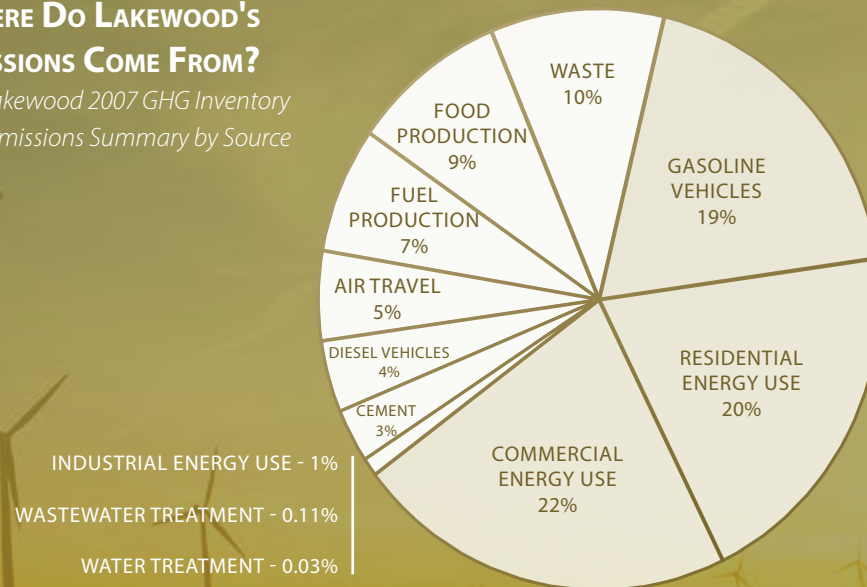
2025 TARGETS	BASELINE	CURRENT
Reduce communitywide greenhouse gas emissions by 20% by 2025.	2,646,240 mtCO₂ 2007	In Progress* <i>an updated inventory will be completed in 2016</i>
Reduce communitywide greenhouse gas emissions by 50% by 2050.	2,646,240 mtCO₂ 2007	In Progress* <i>an updated inventory will be completed in 2016</i>
Reduce municipal greenhouse gas emissions annually through 2025.	To Be Determined <i>after the completion of a municipal greenhouse gas inventory</i>	

*MORE ABOUT: Greenhouse Gas Emissions Targets

As part of the 2015 Sustainability Plan, customizable greenhouse gas emissions calculators were used to model various strategies within the plan. For example, the calculators demonstrated that Lakewood could reduce emissions from the energy and water sector by 10,977 metric tons of CO₂ emissions per year, and that residential curbside recycling and waste diversion have the potential to eliminate 37,627 metric tons each year. Emissions calculators ensure that our 2025 targets are achievable.

WHERE DO LAKEWOOD'S EMISSIONS COME FROM?

*City of Lakewood 2007 GHG Inventory
Report: Emissions Summary by Source*



CLIMATE CHANGE AND ADAPTATION 2015

2015 HIGHLIGHTS

DESCRIPTION

Compact of Mayors

Lakewood signed on to the Compact of Mayors, a global coalition dedicated to reducing emissions, increasing climate change resiliency, and reporting progress.

Greenhouse Gas
Reporting Workshops

The Sustainability Division hosted and participated in workshops focused on greenhouse gas measurement and reporting. Other participants included Lakewood staff from various departments and representatives from other local governments in Colorado.

CDP Reporting

The Sustainability Division reported its greenhouse gas emissions data and climate activity to CDP, a nonprofit organization working to reduce emissions by businesses and cities worldwide.



Sustainability Division Projects & Actions Completed in 2015
in Support of Climate Change & Adaptation Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Participated in the development of the Colorado Local Resiliency Project, led by the **Colorado Climate Network** and **Colorado Municipal League**. The report recommends actions for local governments to prepare for and address climate change impacts and can be found at Lakewood.org/Green.
- Collaborated with other **Colorado local governments** to identify best practices for greenhouse gas accounting methodologies, tools, and reporting.
- Participated in a climate reporting and adaptation workshop, featuring global business leaders and investment fund managers, hosted by **CDP**, an organization which works with companies and cities around the world to disclose greenhouse gas emission and climate risk data.
- Joined the **Western Adaptation Alliance**, a regional network of local government representatives in the Rocky Mountain West who work together to address region-specific climate issues and develop appropriate solutions.

CITY GOVERNMENT LEADERSHIP



The use of greenhouse gas emissions calculators to design achievable reduction targets in Lakewood Sustainability Plan was recognized in the C40 Cities and Sustainia publication as one of 100 global solutions for climate action in cities, which can be viewed at Lakewood.org/Green.

NEIGHBORHOOD LEADERSHIP



Southern Gables Sustainable Neighborhood organized an educational presentation by Clean Energy Action to learn more about where energy comes from, how it is embedded in all things, and how it is used.

HOW CAN WE REDUCE OUR EMISSIONS?

TOP 5

Sustainability Plan
Strategies with the
Greatest Potential
Impact on GHG
Emissions

1

Renewable Energy Transmission & Generation

Potential to reduce by:

139,268 metric tons of CO₂

2

Sustainable Energy & Water Resource Center

Potential to reduce by:

51,981 metric tons of CO₂

3

Efficiency in Resource Intensive Buildings

Potential to reduce by:

42,045 metric tons of CO₂

4

Commercial Waste Diversion Programs & Policies

Potential to reduce by:

41,805 metric tons of CO₂

5

Residential Curbside Recycling & Waste Diversion

Potential to reduce by:

40,425 metric tons of CO₂

CLIMATE RISK AS A GLOBAL PRIORITY



91%

of companies in the S&P
Global 100 Index
identify climate risks to
their business¹



435

companies have placed a
price on carbon to evaluate
the risks of greenhouse gas
production²



In response governments can improve
public infrastructure and provide
opportunities for the private sector to
contribute to resilience planning efforts¹

¹ J. Peace and K. Maher. "Weathering the Next Storm: A Closer Look at Business Reliance." Center for Climate and Energy Solutions. September 2015. <http://www.c2es.org/initiatives/business-resilience>.

²CDP "Putting a price on risk: Carbon pricing in the corporate world." CDP Report 2015 v.1.3. September 2015.

WHERE TO NEXT?

>Underway>

GREENHOUSE GAS EMISSIONS INVENTORY UPDATE

Lakewood's 2007 communitywide greenhouse gas inventory has been revised based on updated data and will be used as a baseline for Lakewood's 2015 inventory according to the Global Protocol for Community-Scale Greenhouse Gas Emission Inventories.

*Sustainability Plan Strategy
CCA1-A, page 27*

Future Priority >>

VULNERABILITY ASSESSMENT & CLIMATE PREPAREDNESS PLAN

Conduct a climate change vulnerability assessment and develop a climate preparedness plan to prepare for multiple climate futures.

*Sustainability Plan Strategy
CCA1-C & CCA1-D, page 27-28*

Future Priority >>

MUNICIPAL GREENHOUSE GAS INVENTORY

Conduct a greenhouse gas inventory for municipal operations to demonstrate leadership and prioritize actions.

*Sustainability Plan Strategy
CCA1-A, page 27*

ENERGY, WATER, AND THE BUILT ENVIRONMENT

THE CITY OF LAKEWOOD and its residents recognize the role of energy, water, and the built environment in fostering a vibrant and sustainable community. Lakewood's residents envision a collective future where low-impact development, renewable energy sources, and resource-efficient buildings protect local ecosystems, enhance water quality, reduce man-made greenhouse gas emissions, and ensure energy availability and affordability.

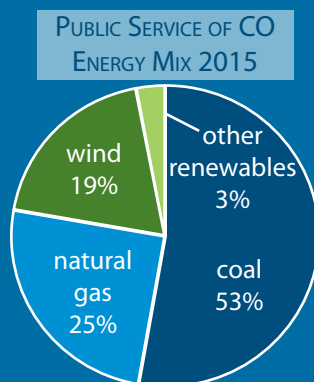
DID YOU KNOW?

Buildings are responsible for 44 percent of Lakewood's greenhouses gas, making it the largest contributing sector. According to the U.S. Energy Information Administration, if business continues as usual, with minor increases in building efficiency, U.S. building energy use is projected to increase by 30 percent.

2025 TARGETS	BASELINE	CURRENT
Generate 45% of municipal energy from renewable sources.	13% 2010	22%* 2015
Generate 45% of residential & commercial energy from renewable sources.	13% 2010	22%* 2015
Reduce municipal building and facility energy use intensity by 30%. <i>(normalized for weather)</i>	64 kbtu/ft² 2012	76 kbtu/ft² 2015 <i>(18% increase)</i>
Reduce citywide building energy use intensity by 20%. <i>(Includes energy use for the entire site)</i>	In Progress <i>complete community energy report from Xcel expected in June 2016</i>	
Reduce citywide water use by 20%.	8,762,212 kgal 2010	6,950,051 kgal 2015 <i>(21% decrease)</i>
Increase the percentage of certified green buildings each year.	6 buildings 2010	17 buildings 2015 <i>(183% increase)</i>

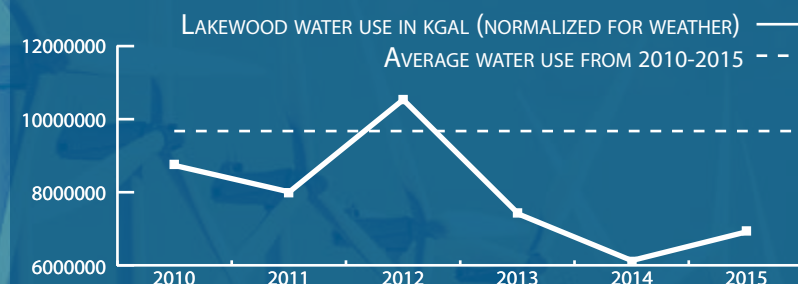
*MORE ABOUT: Renewable Energy Targets

According to state law, investor-owned utilities must generate 30 percent of their electricity from renewable energy by 2020. By this standard, we still need an additional 15 percent to reach our 2025 target. At a local level, this means investing in renewable energy and advancing policy that increases renewable energy production.



*MORE ABOUT: Citywide Water Use Target

Water use varies significantly each year. To meet our 2025 target, we must continue to work with Lakewood's water providers to conserve our water.



ENERGY, WATER, & THE BUILT ENVIRONMENT 2015

2015 HIGHLIGHTS	DESCRIPTION
Community Energy Reports	The Sustainability Division worked with other local governments to petition the Public Utilities Commission to require Xcel to provide annual energy reports from Xcel containing consumption, emissions, and participation data that will inform future planning efforts. Lakewood will receive its first report in 2016.
Renewable & Efficient Energy Research	The City's Sustainability Division meets regularly with regional agencies, nonprofit organizations, and other communities around the country to understand existing conditions, barriers, and opportunities for renewable and efficient energy development.
Community Solar	2015 marked the first full year of electricity generation from the City's purchase from a community solar garden, generating 240,188 kWh, the equivalent of burning 177,897 pounds of coal. The City's facilities staff continue to assess the most effective method to apply the renewable energy credits and offset the City's energy costs.



Sustainability Division Projects & Actions Completed in 2015
in Support of Energy, Water, & the Built Environment Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Provided funding and support to **Grid Alternatives** to increase solar access for low-income Lakewood residents.
- Collaborated with **Colorado local governments** to further renewable energy development and energy efficiency programs.
- Learned about new solar programs and policies from **Colorado Solar Energy Industries Association**.
- Participated in the **Urban Sustainability Directors Network** working group focused on building energy.
- Worked with **Denver Water** to collect data and brainstorm ways to increase resident participation in water conservation programs.
- Attended the **Land Use Leadership Alliance** training program focused on water planning and urban development integration.
- Retrofitted lights at Addenbrooke Park to LEDs with funding from the **Lakewood Legacy Foundation**.

CITY GOVERNMENT LEADERSHIP



As one of the first local governments to invest in community solar in the region, the City has been able to share its experience with other agencies, providing education and encouragement for additional investment in renewable energy.

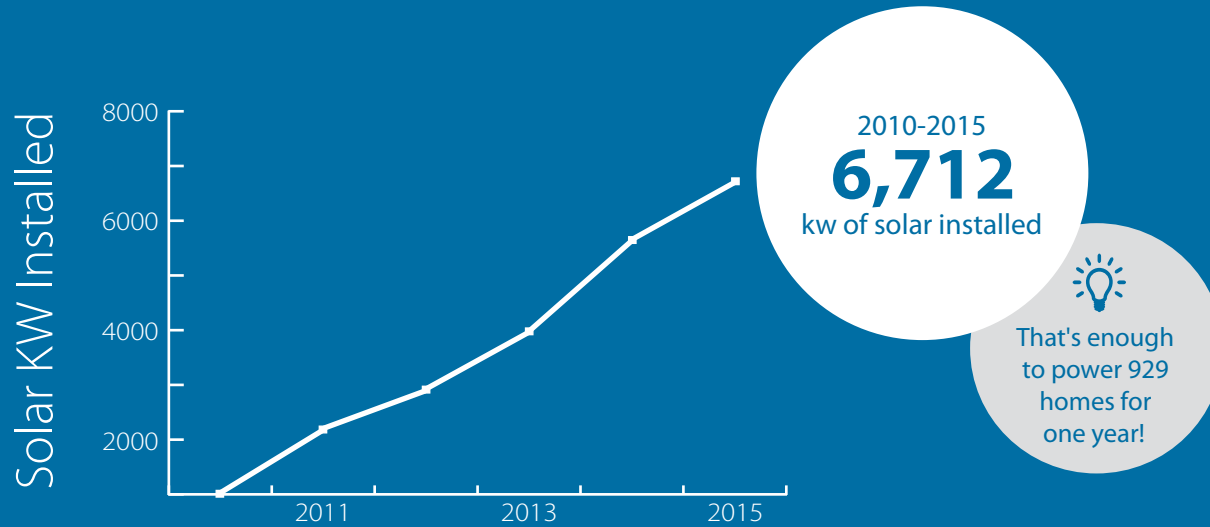
NEIGHBORHOOD LEADERSHIP



Lake Lochwood Sustainable Neighborhood's Energy Awareness Program has enabled homeowners to conduct energy audits and make energy efficiency improvements for individual cost savings. Neighbors have shared their experience with each other to encourage participation.

HOW ARE WE DOING?

SOLAR PANELS ON LAKEWOOD HOMES & BUSINESSES



COMMUNITY ACCESS TO RENEWABLE ENERGY



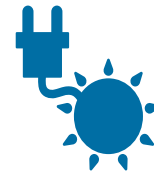
2,267

residents subscribed to Xcel's windsource program in 2014



5,845

MWh of wind power purchased by residents in 2014 through Xcel's windsource program



2,267

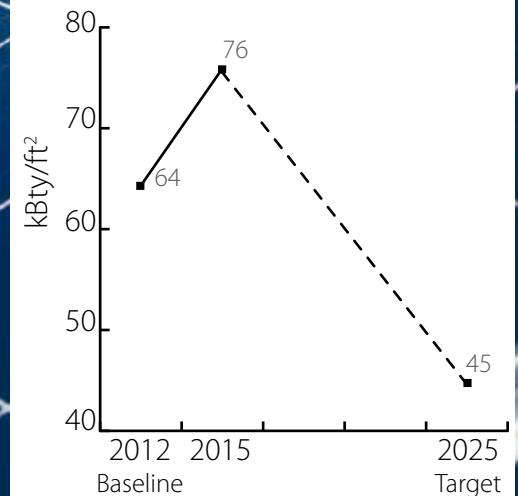
residents & businesses subscribed to community solar projects in 2014

RESOURCE EFFICIENCY TRENDS

↓ **21%**

average annual decrease in water use supplied by Denver Water from 2010 to 2015

Energy Use Intensity in City of Lakewood Facilities



WHERE TO NEXT?

> *Underway* >

ENERGY EDUCATION

City staff is assembling educational resources for City Council and the community regarding state energy regulations, rates, reliability, and customer programs that will allow leadership to make decisions with a more complete understanding of Colorado's energy system and the role of local government.

*Sustainability Plan Strategy
BE1-A, page 37*

> *Underway* >

MUNICIPAL UTILITY TRACKING SOFTWARE

City staff is evaluating utility tracking software for City facilities in order to enhance facility energy and water conservation.

*Sustainability Plan Strategy
BE2-C, page 45*

Future Priority >>

ENERGY & WATER RESOURCE CENTER

Provide financing, incentives, and other resources for residents and businesses related to resource conservation and renewable energy generation.

*Sustainability Plan Strategy
BE1-C, page 39*

SUSTAINABLE ECONOMY

THE CITY OF LAKEWOOD and its residents recognize the importance of a thriving local economy in fostering a vibrant and sustainable community. Lakewood's residents envision a collective future where local businesses are resource efficient, provide high quality jobs, and provide locally sourced goods and services; where community organizations, government, businesses, and residents build cooperative relationships; and where educational opportunities, job training, and the cost of living contribute to secure household economies and upward mobility.

LIVING WAGE MODEL:

The living wage is the hourly income needed to cover basic family expenses (basic needs budget) plus all relevant taxes. It is an alternative, market-based model that provides a fuller picture of the cost of living, based upon geographically specific expenditure data related to a family's likely minimum costs.

$$\begin{aligned} \text{BASIC NEEDS BUDGET} = \\ \text{Food cost} + \text{child care cost} + (\text{insurance premiums} + \text{health care costs}) \\ + \text{housing cost} + \text{transportation cost} + \text{other necessities cost} \end{aligned}$$

2025 TARGETS	BASELINE	CURRENT
Increase local food assets annually.	In Progress	
Achieve participation from 20 local businesses in the first three years of implementing a green business certification program.	To Be Determined* <i>upon the development of a certification program</i>	
Increase the percentage of households to 60% in CDBG qualified neighborhoods spending less than 45% of income on housing and transportation costs.	N/A	92% 2013
Increase number of households above Living Wage Standard by 15%.	51% of households 2010	In Progress <i>updated data dependent on U.S. Census data sets</i>
Increase number of housing units within a designated Complete Neighborhood by 25%.	To Be Determined <i>upon the development of Complete Neighborhood standards</i>	

*MORE ABOUT: Green Business Certification Target

Green businesses certification programs are intended to foster sustainable practices and recognize leadership in sustainability in the business community. Certification models can range from simple, self-verified certification to full facility assessments and staff interviews. Models currently being explored by City staff include Certifiable Green Denver and B Corp. Benefits to businesses may include:

- COMMUNITY RECOGNITION
- EMPLOYEE RETENTION
- NETWORKING
- ENVIRONMENTAL IMPACT REDUCTION
- ENERGY AND WATER COST SAVINGS
- MARKETING OPPORTUNITIES
- NEW PARTNERSHIPS



2015 HIGHLIGHTS

DESCRIPTION

Food Access Assessment

Lakewood was chosen as one of the HEAL Cities and Towns Campaign participating cities to conduct a food access assessment to identify gaps in healthy food access and how the City can advance healthy food access and consumption.

Sheridan Station 20-Minute Neighborhood

Lakewood's Comprehensive Planning & Research Division developed the 20-Minute Neighborhood Implementation Strategy, which provides specific strategies to create a neighborhood where residents have safe and convenient access by walking, bicycling, or transit to many of the places and services they use daily, such as Mountair Park Community Farm.

Residential Food Sales

Lakewood Zoning Ordinance was adjusted to allow residents to sell eggs and vegetables harvested in their backyards by operating a small stand in their neighborhood.



Sustainability Division Projects & Actions Completed in 2015
in Support of Sustainable Economy Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Expanded Mountair Park Community Farm with **Sprout City Farms**, planting fruit trees with the help of volunteers and planning additional features with the local community.
- Partnered with the **LiveWell Colorado's HEAL Cities & Towns Campaign** to conduct a citywide food access assessment.
- Continued to sit on the **University of Colorado Denver Business School** Managing for Sustainability Advisory Board.
- Recognized **Warren Tech High School, Jefferson County Open School** and **Lakewood High School** with Sustainability Awards for local food projects.
- Showcased goods and services from more than 25 local, sustainable businesses at Lakewood's Earth Day Celebration.
- Entered into partnership with the **University of Colorado Denver** Hometown Colorado Initiative to work collaboratively with graduate students on a local food assessment.

CITY GOVERNMENT LEADERSHIP



The City's Employee Relations Department incorporated financial well being into the employee wellness program through a variety of programs and educational opportunities.

NEIGHBORHOOD LEADERSHIP



Southern Gables Sustainable Neighborhood organizes a lunch at a different neighborhood restaurant every month. The group averages 6-7 new people per month, connecting neighbors to each other and local business.

HOW ARE WE DOING?

LOCAL FOOD ASSETS

17
community
gardens



10
Community
Supported
Agriculture
sites

7
community
farms

5
farmers
markets



6%

decrease in
unemployment levels
from 2010 to 2015



64

small animal permits
issued in 2015 to
support urban agricul-
ture efforts



2,410

subscribers to the
Lakewood Economic
Development
newsletter as of
December 2015

LOCAL FOOD ASSETS IN LAKEWOOD

Community Farms

- CityGal Farms & Inn
- Everitt Farms
- Golden Acre Farms
- Harvest Mountain Farm
- Idelwild Urban Farm
- Mountair Park Community Farm
- Two Hands Farm

Public Community Gardens

- Belmar
- Eiber Elementary School
- Gray Street
- H.O.P.E. Garden Community
- Jefferson High School
- Ute Trail Garden

Farmers Markets

- Denver Federal Center
- FARMCAD
- Jefferson County Open School
- Lamar Station Plaza
- Mile Hi Church

WHERE TO NEXT?

>Underway>

LOCAL FOOD ASSET INVENTORY & WEBSITE

Research completed by CU Denver graduate students identified potential food production locations and methods that staff can use to increase local food production. Staff is developing a local food information hub on Lakewood.org to promote these efforts.

*Sustainability Plan Strategy
SE1-A, page 59*

Future Priority >>

COMPLETE NEIGHBORHOOD INDEX

Build upon the Sheridan Station 20-Minute Neighborhood Implementation Strategy to develop citywide complete neighborhood standards.

*Sustainability Plan Strategy
SE1-A, page 59*

Future Priority >>

GREEN BUSINESS CERTIFICATION

Build upon research completed by CU Denver graduate students to develop a green business certification program to encourage sustainable business practices.

*Sustainability Plan Strategy
SE1-E, page 61*

ZERO WASTE

THE CITY OF LAKEWOOD and its residents recognize their responsibility to minimize the harmful impacts of waste in order to foster a vibrant and sustainable community. Lakewood envisions a future where the community collaborates with the surrounding region to practice responsible procurement, reuse, and recovery of materials through which jobs are created, business networks grow, and resources are conserved.

DID YOU KNOW?

According to the U.S. Environmental Protection Agency's 2013 report on municipal solid waste in the U.S., more than 60 percent of the materials that Americans use day-to-day can be composted and 26 percent can be recycled. Despite this potential, only 34 percent of our material was recovered. The remaining material was sent to landfills or burned for energy.

2025 TARGETS	BASELINE	CURRENT
Achieve a 60% communitywide diversion rate.	9%* <i>based on 2010 state data</i>	12%* <i>based on 2014 state data</i>
Achieve an 80% diversion rate at the Civic Center.	<i>previously unavailable</i>	64% 2015
Achieve increased diversion rates for specific municipal facilities.	In Progress <i>compost programs will be launched at two additional facilities in 2016</i>	
Achieve a 90% diversion rate at City of Lakewood Earth Day and Cider Days events.	Cider Days - 87% Earth Day - 80% 2014	Cider Days - 94% Earth Day - 90% 2015
Achieve a 60% residential diversion rate.	9%* <i>based on 2010 state data</i>	12%* <i>based on 2014 state data</i>
Achieve a 60% construction and demolition diversion rate	In Progress <i>data estimates are being collected from the state</i>	
Achieve a 60–90% diversion rate for priority waste streams.	To Be Determined <i>upon the completion of Sustainability Plan Strategy ZW3-A, p. 89</i>	

***MORE ABOUT:** Diversion Rate Targets

The City of Lakewood is not involved in public waste collection and therefore cannot measure the amount of waste recycled or thrown in the landfill. To estimate this amount, the City looks to state diversion rates and similar Colorado communities who have completed waste assessments. These state statistics tend to be nearly 10 percent lower than national rates.^{1,2} In order to meet our 2025 targets, Lakewood must conduct a waste assessment to gain a more accurate understanding of existing conditions and provide additional opportunities to reduce, reuse, and recycle.

¹ Colorado Department of Public Health and Environment. "Annual Solid Waste Diversion Totals 2007–2014." <https://www.colorado.gov/pacific/cdphe/swreports>.

² U.S. Environmental Protection Agency. "Advancing Sustainable Materials Management 2013 Fact Sheet." <https://www.epa.gov/smm>



2015 HIGHLIGHTS	DESCRIPTION
City Facility Compost Program	The City launched compost collection at three facilities, enabling zero waste City events and meetings. In 2015, nearly 30,000 pounds of compost waste was diverted from the landfill.
Special Collection Events	The City hosted a variety of recycling events, including Cleanup Days, Yard Waste Cleanup, Prescription Drug Take-Back, Earth Day E-Waste Recycling, Shred Day, a cleanup event for Community Development Block Grant neighborhoods, and special collections for holiday lights and cooking oil.
City Recycling Facilities	The Quail Street Recycling Center continues to increase the amount of materials collected, recycling 2.7 million pounds of material in 2014. The City also continues funding the Rooney Road Recycling Center, which safely recovers more than 350,00 pounds of household hazardous waste each year.
Zero Waste Outreach	The Sustainability Division provides guidance to other departments and external partners interested in reducing waste, including a toolkit available online to help employees and residents host zero waste events.



Sustainability Division Projects & Actions Completed in 2015
in Support of Zero Waste Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Continued its membership with the **Colorado Association for Recycling**.
- Hosted the **Colorado Council for Sustainable Procurement** quarterly meeting and provided a tour of the Quail Street Recycling Center.
- Recognized **Runners Roost Lakewood** and **ReFrame Creative Reuse Center** with Sustainability Awards for zero waste projects.
- Participated in the **Urban Sustainability Directors Network** working group focused on waste diversion and development of a Sustainable Procurement Playbook for local governments.
- Continued funding and involvement with the **Rooney Road Recycling Center and Foundation** alongside unincorporated Jefferson County and neighboring towns and cities.

CITY GOVERNMENT LEADERSHIP



The City's Purchasing Division has prioritized green procurement by tracking the environmental impact of office products and identifying cost-effective compostable products to enable zero waste in City facilities and community events.

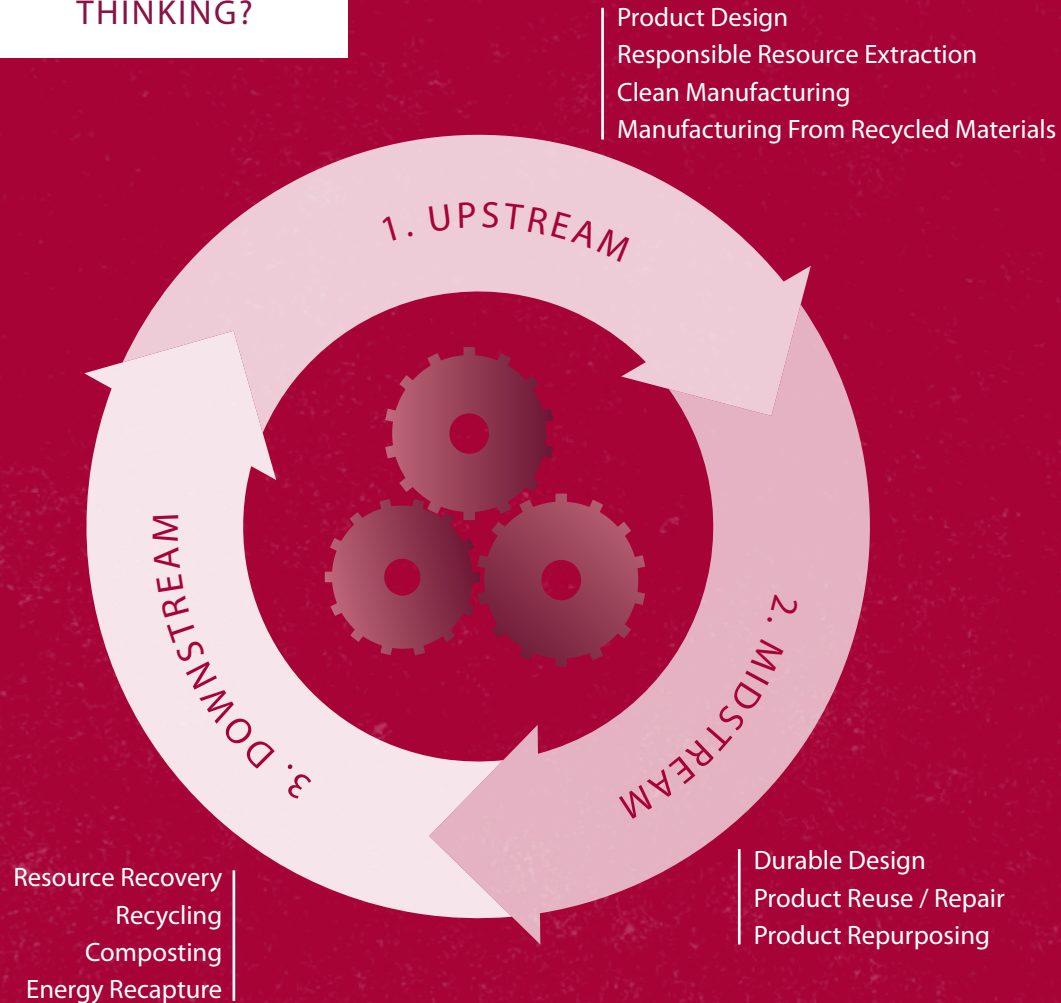
NEIGHBORHOOD LEADERSHIP



Southern Gables Sustainable Neighborhood diverted more than three tons of leaves through a neighborhood leaf composting collection event, providing volunteers to help those who couldn't easily collect and transport their own leaves.

HOW ARE WE DOING?

WHAT IS ZERO WASTE THINKING?



HOW IS LAKEWOOD MOVING TOWARD ZERO WASTE?

14,000+ residents engaged through zero waste events and outreach activities

34 reuse and resource recovery businesses in Lakewood

13 City facilities offer recycling and
3 City facilities offer compost collection

2,823 residents participated in Lakewood Cleanup Days

1,350 tons of material recycled at Quail Street Recycling Center in 2014

190 tons of material recycled at Rooney Road Recycling Center in 2014

WHERE TO NEXT?

>Underway>

ZERO WASTE CITY FACILITIES

City staff continues to expand zero waste efforts throughout Lakewood. In 2016, compost will be added to the City's two golf course restaurants and the Public Safety Center. Recycling will be added to three Head Start facilities.

*Sustainability Plan Strategy
ZW1-B, page 77*

>Underway>

RESIDENTIAL RECYCLING

Research and public input collected by City staff will inform recommendations for program or policies that will increase access to residential recycling.

*Sustainability Plan Strategy
ZW2-A, page 83*

Future Priority >>

COMMERCIAL FOOD WASTE

Develop commercial waste diversion programs and policies that support reducing food waste through responsible purchasing, food donation, and composting.

*Sustainability Plan Strategy
ZW3-B, page 89*

COMMUNITY COHESION AND PUBLIC HEALTH

THE CITY OF LAKEWOOD and its residents recognize that health, sense of well-being, and social connectedness are the foundation for a vibrant and resilient community. Lakewood actively supports a future where residents live healthy lifestyles and connect with their neighbors and where businesses, visitors, and residents alike are supported by a strong sense of place and a healthy environment.

"Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity."

World Health Organization, 1948

2025 TARGETS	BASELINE	CURRENT
Increase the percentage of residents reporting “good” or “very good” satisfaction ratings for Lakewood’s efforts at welcoming citizen involvement as reported in the Citizen Survey to 60%.	48% 2013	In Progress <i>A citizen survey will be conducted in 2016</i>
Increase resident subscriptions to City communication tools each year.	<i>previously unavailable</i>	31,251* 2015
Certify 12 neighborhoods as “Outstanding Sustainable Neighborhoods” in the Sustainable Neighborhoods Program.	0 2010	4** 2015
Increase recreation program participation each year. <i>Data reflects recreation center and pool admissions for all ages.</i>	352,000 admissions 2010	437,000 admissions 2015 (24% increase)
Eliminate USDA-defined food deserts in Lakewood.	-	6 2015
Achieve community affordable housing targets.	To Be Determined <i>upon the development of an affordable housing study</i>	
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 - Below Special Needs - N/A Low-Income - Much Above Homeless - N/A 2013	In Progress <i>A citizen survey will be conducted in 2016</i>

*MORE ABOUT: Communication Tools Target

Residents can stay informed through email and print newsletters, meetings, video, website, and social media. To track outreach efforts, our 2025 target aims to increase subscriptions to the City's 15 email newsletters.

**MORE ABOUT: Outstanding Sustainable Neighborhoods

To be certified "outstanding," neighborhoods must earn a minimum of 100 credits in the first year and 70 credits each subsequent year.

TIMELINE OF OUTSTANDING SUSTAINABLE NEIGHBORHOOD CERTIFICATION





2015 HIGHLIGHTS	DESCRIPTION
Sustainability Newsletter & Social Media	The Sustainability Division continues to develop new ways to connect with the Lakewood community, including a new monthly newsletter and a growing social media presence.
Community Volunteers	An increasing number of Lakewood residents volunteer their skills to help the City accomplish its mission through programs such as the Lakewood Heritage Center, Police Department patrol, zero waste event efforts, and trail maintenance.
Sustainable Neighborhood Participation	Thousands of residents engage in sustainability activities through events, workshops, and outreach efforts organized by Lakewood's five Sustainable Neighborhoods, which include Belmar, Eiber, Lake Lochwood, South of 6th, and Southern Gables.
LiveWell Colorado HEAL Cities & Towns Campaign	Lakewood achieved the "Fit" level of achievement from the Campaign by adopting healthy eating and active living policies, such as developing zoning regulations to enable residents to sell produce from their gardens.



Sustainability Division Projects & Actions Completed in 2015
in Support of Community Cohesion & Public Health Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Participated in the HEAL Cities & Towns Campaign, coordinated through **LiveWell Colorado** and the **Colorado Municipal League**.
- Teamed up with **Lakewood Bicycle Advisory Team** to host a bicycle ride through Lakewood's Sustainable Neighborhoods.
- Partnered with **Molholm's 21st Century Community Learning Center** to hold an affordable summer camp at Mountair Park for Molholm Elementary students, including farming experiences with **Sprout City Farms** and reading and art activities with **Jefferson County Public Library** and the **40 West Arts District**.
- Co-sponsored a fellow with **Colorado City & County Management Association** and the **University of Colorado Denver** to develop best practices for engaging older adult and other specific populations in Lakewood.
- Partnered with **local artists** to install both permanent installations and temporary art experiences, such as the Mountair Park interactive mural and Beautiful Bench Project.



CITY GOVERNMENT LEADERSHIP



The City updated its homepage navigation menu to better serve its web visitors. In 2015, Lakewood.org received 210,965 page views.



NEIGHBORHOOD LEADERSHIP



The Eiber Sustainable Neighborhood Resilience Circle was featured on a live webinar to a global audience to share their experience and encourage others to set up their own Resilience Circles and build a stronger community.

HOW ARE WE DOING?



LAKWOOD SUSTAINABLE NEIGHBORHOOD PROGRAM

2015 BY THE NUMBERS

5 Sustainable Neighborhoods,
representing 11% of Lakewood's
total population

1. Belmar - *Certified Outstanding*
2. Eiber - *Certified Outstanding*
3. Southern Gables - *Certified Outstanding*
4. Lake Lochwood - *Certified Outstanding*
5. South of 6th - *Participating*

2,960
residents engaged
through

22
workshops
and

38
special events

17 cities from around the world
have directly inquired about
the program for their own
community

4x return on the City's invest-
ment through neighbor-
hood volunteer contribu-
tions and labor

CITY OF LAKEWOOD ENGAGEMENT

2015 BY THE NUMBERS



47,085
volunteers participating in
City programs



20,773
followers on Lakewood
social media channels



150,000
participants in City Family
Services Programs

WHERE TO NEXT?

>Underway>

LAKEWOOD SUSTAINABILITY COOPERATIVE "SCOOP"

The Scoop is an innovative concept that connects the City with a network of volunteers who contribute their experience and expertise to moving sustainability forward in Lakewood.

*Sustainability Plan Strategy
CC1-A, page 101*



>Underway>

GROWING SUSTAINABLE NEIGHBORHOODS

While continuing to support existing neighborhoods, staff searches for opportunities to enable new neighborhood participation and expand support for neighborhood initiatives.

*Sustainability Plan Strategy
CC1-D, page 102*

Future Priority >>

ART & SUSTAINABILITY

Partner with the 40 West Arts District and other artist communities to incorporate the arts into events and initiatives, including the Earth Day.

*Sustainability Plan Strategy
CC1-E, page 102*

NATURAL SYSTEMS

THE CITY OF LAKEWOOD and its residents recognize the value of healthy ecosystems and rich biodiversity, which provide critical services that support our community's environmental, economic, cultural, physical, and mental health. Lakewood envisions a future where nature at all scales and its benefits are valued, conserved, enhanced, and responsibly managed, sustaining a resilient and thriving community.

DID YOU KNOW?

According to the 2013 "Metro Denver Urban Forest Assessment" completed by Dr. McPherson of the USDA Forest Service, our regional urban forest saves residences \$21.8 million in cooling costs each year, and a healthy tree can store 13 pounds of carbon each year.

2025 TARGETS	BASELINE	CURRENT
Increase the acreage of functional and healthy natural ecosystems.	To Be Determined <i>upon the completion of a ecosystem inventory</i>	
Ensure that all waters within Lakewood meet or exceed the Colorado Department of Public Health and Environment's Water Quality Standards for the uses assigned.	-	1 body of water impaired* 2015
Achieve tree canopy coverage of 30%.	7.7%* 2011	7.8%** 2011

*MORE ABOUT: Water Quality Target

The Colorado Department of Health and Environment monitors two bodies of water in Lakewood, Bear Creek Reservoir, and Bear Creek. According to the 2015 report, Bear Creek Reservoir has high levels of phosphorus, disrupting the aquatic ecosystem. The City is working with multiple entities to return phosphorus levels back to a safe and healthy balance.

**MORE ABOUT: Tree Canopy Target

We learned that measuring tree canopy coverage can be completed in a number of ways. For Lakewood, which contains acres of native grasslands, tree canopy coverage is most desirable in our urban areas. Our citywide tree canopy coverage is currently 7 percent, but will be reassessed in future updates to reflect targeted areas in Lakewood in order to achieve our 2025 target.



2015 HIGHLIGHTS

DESCRIPTION

Bear Creek Lake Park
Education Programs

The Parks Division offers a wide range of programs and events at all of Lakewood's regional parks, including volunteer trail projects, campfire programs, and full moon hikes.

Green Infrastructure
Assessment Research

The Sustainability Division assembled partners and developed a project proposal to assess existing habitat types and conditions across Lakewood in order to improve connectivity and quality of Lakewood's natural areas and preserve biodiversity.

Earth Day

The Employees' Committee for a Sustainable Lakewood hosted its annual Earth Day Celebration with more than 30 vendors, educational demonstrations, and more than 700 attendees.



Sustainability Division Projects & Actions Completed in 2015
in Support of Natural Systems Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Continued membership with the **Bear Creek Watershed Association** to protect and restore water and environmental quality within the Bear Creek Watershed.
- Partnered with **Colorado Natural Heritage Program** and **Jefferson County Open Space** to develop the proposal for a Lakewood Biodiversity Project.
- Continued working with the **Urban Drainage and Flood Control District** to maintain the flood plain and address drainage issues.
- Partnered with **Volunteers of Colorado, scout groups, and home-school groups** to replace vegetation impacting by flooding at Bear Creek Lake Park.
- Leveraged the flooding at Bear Creek Lake Park to host **West Metro Fire Rescue** emergency trainings.

CITY GOVERNMENT LEADERSHIP



City staff designed and built the Morse Park Rain Garden to reduce the risk of flooding and maximize water storage and treatment capacity. The garden is an example of multipurpose green infrastructure for residents and developers.

NEIGHBORHOOD LEADERSHIP



Eiber Sustainable Neighborhood BeeSafe Initiative encourages neighbors to choose alternatives to systemic pesticides that are harmful to bees and other beneficial insects in their yards. The neighborhood created yard signs, created fliers, hosted workshops and identified block leaders to support the initiative.

HOW ARE WE DOING?

NOXIOUS WEEDS IN LAKEWOOD

An estimated 30 acres of City property contain List A Noxious Weeds. The City utilizes an integrated pest management system approach to address this ongoing challenge and conducts annual assessments to monitor progress. Examples of List A Noxious Weeds include the following:

- Purple Lossestrife
- Orange Hawkweed
- Myrtle Spurge
- Cypress Spurge

ENVIRONMENTAL EDUCATION IN LAKEWOOD

In 2015, Lakewood Regional Parks staff hosted

137

educational programs,
engaging

6,008

residents



57

developments with
Best Management
Practices (BMPs) to
improve water quality



68%

of Lakewood land is
permeable, protecting
environmental and
water quality

WHERE TO NEXT?

>Underway>

AGRICULTURAL STEWARDSHIP

Through outreach opportunities, such as the Sustainable Neighborhoods Program and Lakewood's Earth Day Celebration, the City has spread awareness about environmentally responsible landscape and agriculture practices, such as minimizing the use of harmful chemicals.

*Sustainability Plan Strategy
NS1-B, page 127*

Future Priority >>

BIODIVERSITY INVENTORY

Identify and map habitat throughout Lakewood using the expertise of City Parks staff and community involvement, such as annual species counts and crowdsourced data collection.

*Sustainability Plan Strategy
NS1-C, page 128*

Future Priority >>

GREEN INFRASTRUCTURE NETWORK

Using the biodiversity inventory, establish a network to facilitate habitat protection, restoration, and connectivity across Lakewood.

*Sustainability Plan Strategy
NS1-D, page 130*

TRANSPORTATION

THE CITY OF LAKEWOOD and its residents recognize and value the importance of multiple safe, reliable, and affordable transportation choices for all users in order to foster a healthy and thriving community. Lakewood envisions a future with a convenient and resilient transportation system that improves our quality of life by making our streets safer, our air cleaner, and our community better connected.

DID YOU KNOW?

The City of Lakewood covers more than 27,000 acres of land, which requires a mix of well-connected travel modes to provide access for people with different travel preferences and abilities.

2025 TARGETS	BASELINE	CURRENT
Convert all streetlights to LED or other high efficiency lighting technologies.	<i>previously unavailable</i>	94* <i>LED streetlights installed</i>
Reduce Lakewood's daily per capita vehicle-miles-traveled (VMT) by 10%	14.6 VMT 2010	In Progress <i>updated data dependent on DRCOG data sets</i>
Reduce the percent of trips to work by single-occupancy vehicles to 65%.	79% 2010	80% 2014 <i>(1% increase)</i>
Reduce petroleum-based fuel consumption of the City fleet by 10%.	330,505 gallons 2010	326,257 gallons 2010 <i>(1% decrease)</i>

***MORE ABOUT:** LED Streetlight Target

LED technology has significant advantages — high energy efficiency, long lives, and low maintenance — over conventional high-pressure sodium lamps that line most streets around the country.

The City of Lakewood has been replacing streetlights as it rebuilds intersections; however, the majority of streetlights are under a tariff-rate system, which means that the price will remain the same no matter how much energy is used.

In order to reach our 2025 target, the City will need to work with Xcel Energy and the Public Utilities Commission to revise the rate system so that we can realize the savings of investing in energy-efficient technology.

TRANSPORTATION 2015

2015 HIGHLIGHTS

DESCRIPTION

Sustainable
Neighborhoods
Bike Ride

The City teamed up with the Lakewood Bicycle Advisory Team and Sustainable Neighborhoods to organize a progressive community ride through Belmar, Eiber, Lake Lochwood, and Southern Gables.

Every Trip Counts

The Sustainability Division facilitated neighborhood participation in the Regional Air Quality Council's Every Trip Counts Program, which asks participants to reduce two car trips per week during the months when ozone pollution is highest.

Employee
Commuting Program

The City researched best practices for workplace commuting programs and participated in the Denver Regional Council of Governments' Go-Tober challenge to encourage employees to walk, bicycle, and take transit to work.



Sustainability Division Projects & Actions Completed in 2015
in Support of Transportation Goals

WHAT HAPPENED IN 2015?



COLLABORATION

In 2015, the City of Lakewood

- Promoted the **Denver Regional Council of Governments** Way to Go Program to encourage residents and employees to explore new commuting options.
- Partnered with **Lakewood Bicycle Advisory Team** to offer a Bicycle Safety 101 class for City employees.
- Participated in the **West Metro Active Transportation Collaborative** with other local government staff, elected officials, and community representatives.
- Worked with students from the **University of Denver Graduate Net Impact Chapter** to research best practices for workplace commuting programs.
- Participated in the **Regional Air Quality Council** Every Trip Counts Program to encourage participants to reduce trips by car.
- Worked with students from the **University of Colorado Denver** Hometown Colorado Initiative to create walkshed maps showing existing and potential future connections to multiple pedestrian destinations.

CITY GOVERNMENT LEADERSHIP



The Employees' Committee for a Sustainable Lakewood encouraged employees to participate in DRCOG's Go-Tober program and explore new ways to get to work. This month-long effort sparked additional efforts to expand the City's employee commuting program.

NEIGHBORHOOD LEADERSHIP



Since bringing Car2Go, a carshare service, to Belmar, the Belmar Sustainable Neighborhood reported 200 registered Belmar users through outreach and multimodal transportation workshops. This service enables people to combine carsharing with walking, biking, or transit.

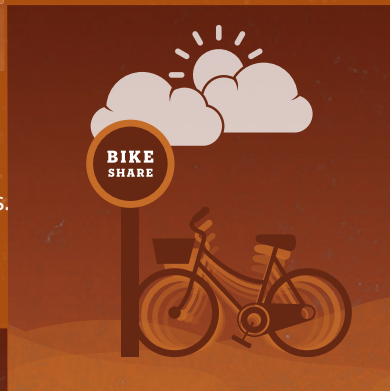
HOW ARE WE DOING?

WHAT DOES A MULTIMODAL TRANSPORTATION NETWORK LOOK LIKE?



COMMUTE by light rail or bus.

BIKE for short trips and errands.



CAR SHARE for when the weather doesn't cooperate and other convenience trips.

IS LAKEWOOD BECOMING MORE MULTIMODAL?

80% residents drove alone to work in 2014¹

6% residents carpooled to work in 2014

5% residents took transit to work in 2014

29% increase in transit ridership between 2010 and 2015

170 miles of bike trails and routes

93 miles of missing bike trail and route segments

1800+ alternative fuel vehicles in Lakewood

¹U.S. Census Bureau. "Commuting Characteristics by Sex." American Community Survey 1-year estimates 2014.

WHERE TO NEXT?

>Underway>

EMPLOYEE COMMUTING PROGRAM

The City is creating a comprehensive commuting program that will enable and encourage employees to walk, bike, carpool, or take transit to work through elements like employee bike-share, transit benefits, and bicycle maintenance, and various outreach initiatives.

*Sustainability Plan Strategy
T2-A, page 153*

Future Priority >>

MULTIMODAL TRANSPORTATION PLAN

Work with the Comprehensive Planning & Research and Traffic Engineering divisions to develop a citywide multimodal transportation plan based on existing zoning and projected growth.

*Sustainability Plan Strategy
T2-A, page 153*

Future Priority >>

CAR & BIKE SHARE

Coordinate with west metro agencies to provide car and bike-share options to increase connectivity to transit and build a multimodal transportation network.

*Sustainability Plan Strategy
T2-B, page 154*

APPENDIX

TARGETS AND INDICATORS

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
CLIMATE CHANGE & ADAPTATION	TARGET: Reduce communitywide greenhouse gas emissions by 20% below 2007 levels by 2025.							
	Greenhouse Gas Emissions	2007	2,646,240	-	-	-	City of Lakewood Greenhouse Gas Inventory	2007 is the most recent inventory year
	Percent below 2007 levels	2007	-	-	-	-	City of Lakewood Greenhouse Gas Inventory	2007 is the most recent inventory year
	TARGET: Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.							
	Greenhouse Gas Emissions	2007	2,646,240	-	-	-	City of Lakewood Greenhouse Gas Inventory	2007 is the most recent inventory year
	Percent below 2007 levels	2007	-	-	-	-	City of Lakewood Greenhouse Gas Inventory	2007 is the most recent inventory year
	TARGET: Reduce communitywide greenhouse gas emissions by 50% below 2007 levels by 2050.							
	Municipal Greenhouse Gas Emissions	-	-	-	-	-	-	Data will be established after completion of municipal greenhouse gas emissions inventory

ENERGY, WATER, & THE BUILT ENVIRONMENT	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
	TARGET: Generate 45% of municipal energy from renewable sources by 2025.							
	Kilowatts of energy	-	-	-	-	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Percent of municipal energy from renewable sources	2010	13%	2015	22%	69%	Xcel Energy - Public Service Company of Colorado (PSCo) Power Supply Mix	Updated annually
	TARGET: Generate 45% of residential energy from renewable sources by 2025.							
	Kilowatts of energy	-	-	-	-	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Percent of residential energy from renewable sources	2010	13%	2015	22%	69%	Xcel Energy - Public Service Company of Colorado (PSCo) Power Supply Mix	Updated annually
	TARGET: Generate 45% of commercial and industrial energy from renewable sources by 2025.							
	Kilowatts of energy	-	-	-	-	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Percent of commercial and industrial energy from renewable sources	2010	13%	2015	22%	69%	Xcel Energy - Public Service Company of Colorado (PSCo) Power Supply Mix	Updated annually
	TARGET: Reduce municipal building and facility energy use intensity by 30% by 2025.							
	Municipal energy use intensity in thousand British thermal units (kBtu)	2010	58	2015	66	14%	City of Lakewood Community Resources Department	Data normalized for weather based on 2012-2014 benchmark using total heating and cooling degree days; benchmark was changed from original 2008-2010 dates in the Sustainability Plan due to data anomalies
	TARGET: Reduce citywide building energy use intensity by 20% by 2025.							
	Citywide energy use in Kilowatt Hours/Degree Days (kWh/DD)	2012	479,617	2014	494,407	3%	Xcel Energy Local Government Consumption Report	Data reported is the total citywide consumption of both electric and gas energy consumption, normalized for weather
	TARGET: Reduce citywide water use by 20% by 2025.							
	Citywide water use in gallons	2010	8,762, 211,570	2015	6,950, 051,390	-21%	Denver Water, Conservation Division	Normalized for weather
	TARGET: Generate 45% of commercial and industrial energy from renewable sources by 2025.							
	Kilowatts of energy	-	-	-	-	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Percent of commercial and industrial energy from renewable sources	2010	13%	2015	22%	69%	Xcel Energy - Public Service Company of Colorado (PSCo) Power Supply Mix	Updated annually

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
	TARGET: Increase the percentage of certified green buildings (new construction and renovations receiving occupancy permits) each year from 2015-2025.							
	Percentage of certified green buildings within citywide building stock	2010	6	2015	17	183%	Green Globes, USGBC LEED, and Living Building Challenge online project directories	Does not include number of "in progress" sites
	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
ENERGY, WATER, & THE BUILT ENVIRONMENT	Indicator: Kilowatts of on-site solar energy installed	2010	1,022.9	2015	1,069.7	5%	City of Lakewood Public Works Department	Taken from building permits used for alternative energy
	Indicator: Number of residential subscribers to community solar projects and wind source	-	-	2014	2,267	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Indicator: Annual energy resource mix as reported by Xcel Energy	2010	Coal: 61% Natural Gas: 27% Wind: 10% Hydro: 1% Solar: <1%	2015	Coal: 53% Natural Gas: 24% Wind: 19% Hydro: 2% Solar: 1%	-	Xcel Energy CO Customer Notice, and CO ₂ Emissions and Fuel Mix Charts	Updated annually
	Indicator: Residential electricity and gas costs	-	-	-	-	-	Xcel Energy	Methodology underway
	Indicator: Number of business subscribers to community solar projects and wind source	-	-	-	-	-	Xcel Energy Local Government Consumption Report	Data to be distributed by Xcel Energy in June 2016
	Indicator: Commercial electricity and gas costs	-	-	-	-	-	Xcel Energy	Methodology underway
	Indicator: Kilowatts of energy generated from on-site renewable energy systems for municipal buildings	-	-	2015	0	-	City of Lakewood	There are currently no on-site renewable systems
	Indicator: Kilowatts of energy purchased from off-site renewable energy systems	-	-	2014	274	-	Clean Energy Collective Community Solar Garden	In 2014, the City purchased 274 kilowatts of solar energy over a 20-year contract period.. From the solar garden, 240,188 kWh were generated in 2015

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
ENERGY, WATER, & THE BUILT ENVIRONMENT	Indicator: Energy use intensity by sector	-	-	-	-	-	-	Methodology underway
	Indicator: Municipal energy use intensity	2010	58	2015	66	14%	City of Lakewood Community Resources Department	Data not yet normalized for weather. Methodology underway
	Indicator: Water use by sector	-	-	-	-	-	-	Methodology underway
	Indicator: Municipal water use	-	-	-	-	-	City of Lakewood Community Resources Department	Methodology underway
	Indicator: Number of certified green building projects	2010	6	2015	17	183%	Green Globes, USGBC LEED, and Living Building Challenge online project directories	Data does not include number of "In Progress" sites
	Indicator: Number of indoor air quality investigations and/or complaints filed with Jefferson County Public Health	-	-	-	-	-	-	Methodology underway
	Indicator: Number of certified sites through the Sustainable Sites Initiative	-	-	2015	0	-	Sustainable Site Initiative	Updated annually

	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY	TARGET: Increase local food assets annually through 2025.							
	Number of local food assets	-	-	-	-	-	-	Baseline to be established after the completion of Sustainability Plan Strategy SE1-A, p. 58
	TARGET: Achieve participation from 20 local businesses in the first three years of implementing a green business certification program.							
	Number of certified green businesses	-	-	-	-	-	-	City of Lakewood green business certification program to be established
	TARGET: Increase the percentage of households in CDBG qualified neighborhoods spending less than 45 percent of income on housing and transportation costs to 60% by 2025.							
	Number of CDBG qualified neighborhoods spending less than 45% of income on housing and transportation costs	-	-	2013	24,399	-	City of Lakewood Planning Department	Will be updated as CDBG qualified neighborhood boundaries change
	Percent of CDBG qualified neighborhoods spending less than 45% of income on housing and transportation costs	-	-	2013	91.7%	-	Center for Neighborhood Technology (CNT) H + T Affordability index, and City of Lakewood Planning Department	CNT uses ACS 5-year estimates at block group level. 2013 is the most recent.
	TARGET: Increase number of households above Living Wage Standard by 15% by 2025.							
	Number of households above the Living Wage Standard	2010	31,552 (51% of hh)	-	-	-	US Census American Fact Finder, H12: Average Household Size of Occupied Housing Units by Tenure, and B19001-Household Income for the Past 12 Months	2010 is the most recent data, Methodology pulled from STAR Community Rating System Technical Guide
	TARGET: Increase number of housing units within a designated Complete Neighborhood by 25% by 2025.							
	Number of housing units within a designated Complete Neighborhood	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy SE2-B, p. 65
	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
	Indicator: Location quotients of specifically identified sectors	-	-	-	-	-	-	Methodology underway
	Indicator: Urban agriculture permits issued	2013-2014	302	2015	64	-	City of Lakewood Planning Department	"Urban agriculture permits" are small animal permits

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY	Indicator: Acreage of community gardens and urban farms	-	-	2015	More than 50 acres	-	City of Lakewood	Acreage for some plots/land area was not reported. Current data only account for 7 of the 24 total community gardens and urban farms.
	Indicator: Funds deposited into locally owned and managed financial institutions	-	-	-	-	-	-	Methodology underway
	Indicator: Unemployment level	2010	Avg rate: 10% Avg no.: 7,956.2	2015	Avg rate: 4% Avg no.: 3,250.9	-	Bureau of Labor Statistics Data Finder	Used Series IDs LAUCT084300000000003 and -04 for unemployment rate and number
	Indicator: Jobs to labor force ratio	-	-	-	-	-	-	Methodology underway
	Indicator: Average "click rate" for the City Economic Development electronic newsletter	-	-	2015	3.5%	-	Mailchimp.com Economic Development Newsletter stats	To be updated annually
	Indicator: Median household income	2010	\$51,937	2014	\$54,063	4%	U.S. Census American Fact Finder	Table B19013: Median Household Income in the Past 12 Months, ACS 1-yr Estimates
	Indicator: Percentage of households that meet or exceed the living wage standard	-	-	2010	31,552	-	U.S. Census American Fact Finder	Table H12: Average Household Size of Occupied Housing Units by Tenure, and B19001- Household Income for the Past 12 Months. 2010 is the most recent data. 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%	-	Center for Neighborhood Technology (CNT) H + T Affordability index	CNT uses ACS 5-year estimates at block group level; 2013 is the most recent.
	Indicator: Number of residents on waiting lists for subsidized units at MWHS properties	2010	2,109	2015	1,690	-20%	Metro West Housing Solutions (MWHS)	Updated annually
	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

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
SUSTAINABLE ECONOMY	Indicator: Jefferson County Schools postsecondary and workforce readiness score	-	-	2013-2014 School Year	Exceeds: 3 Meets: 1 Approaching: 1 Does not meet: 4	-	Colorado Department of Education	Number for each category represents number of high schools that meet each set of criteria
	Indicator: High school graduation rates and postsecondary educational attainment	2010	High School Grad & Higher: 90% Bach. Degree and higher: 36%	2014	High School Grad & Higher: 90% Bach. Degree and higher: 36%	0%	U.S. Census American Fact Finder	Table S1501: Education Attainment, 1yr estimates
	Indicator: Participation in workforce development programs and skills training	-	-	2015	2,258 participants	-	American Job Center	Updated annually

METRIC		BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
ZERO WASTE	TARGET: Achieve a 60% communitywide diversion rate by 2025.							
	Amount of waste diverted	2010	1,674,566	2014	2,018,264	-	Colorado Department of Health and Environment	Numbers are state level and taken from CDPHE's Annual Solid Waste Diversion Totals, line "MSW Diversion"
	Diversion rate	2010	9.1%	2014	11.5%	2.4%	Colorado Department of Health and Environment	Numbers are state level and taken from CDPHE's Annual Solid Waste Diversion Totals, line "MSW Diversion Rate (excluding scrap metal recycling)"
	TARGET: Achieve an 80% diversion rate at the Civic Center by 2025.							
	Amount of waste diverted	-	-	2015	85,411	-	City of Lakewood Sustainability Division, Heritage Center, and Hauler Reports	Compost and recycling numbers were taken from hauler Alpine Reports for the Civic Center North and South Buildings. Data was extrapolated for Heritage Center, and the North and South buildings for landfill weight; data does not include Civic Center events, construction, and e-waste.
	Diversion rate	-	-	2015	65%	-	City of Lakewood Sustainability Division, Heritage Center, and Hauler Reports	
	TARGET: Achieve increased diversion rates for specific municipal facilities (to be established).							
	Diversion rate	-	-	-	-	-	City of Lakewood Sustainability Division	To be established after the completion of Sustainability Plan Strategy ZW1-B, p. 77
	TARGET: Achieve a 90% diversion rate at City of Lakewood Earth Day and Cider Days events.							
	Diversion rate	2014	Cider Days: 87% Earth Day: 80%	2015	Cider Days: 94% Earth Day: 93%	Cider Days: 7% Earth Day: 13%	City of Lakewood	Updated annually
	TARGET: Achieve a 60% residential diversion rate by 2025.							
	Diversion rate	-	-	-	-	-	-	Methodology underway
	TARGET: Achieve a 60% construction and demolition diversion rate by 2025.							
	Diversion rate	-	-	-	-	-	-	Methodology underway
	TARGET: Achieve a 60-90% diversion rate for priority waste streams.							
	Diversion rate	-	-	-	-	-	-	Priority waste streams to be established after the completion of Sustainability Plan Strategy ZW3-A, p. 89

	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
ZERO WASTE	Indicator: Number of residents engaged through zero waste outreach and education campaigns	-	-	2015	14,420	-	City of Lakewood Sustainability Division, Heritage Center, and Cultural Center	Data includes attendance from City zero waste events, Sustainable Neighborhood zero waste events, as well as the number of "opens" for the Sustainability Newsletter. Data not available for previous years and will be updated annually.
	Indicator: Number of City facilities that offer recycling and composting collection	-	-	2015	Composting: 2 Recycling: 13	-	City of Lakewood Sustainability Division	Compost and recycling reports began in 2015
	Indicator: Participation at special collection events	-	-	2015	Participation: 3,373 Pounds Collected: 39,259 Gallons Collected: 112	-	City of Lakewood Public Works, Police Department, and Community Resources Departments	"Participation" includes the number of vehicles counted at the CDBG Neighborhood cleanups, organic yard waste collection event, and City of Lakewood Cleanup Days; "pounds" includes weights from the prescription drug take-back, holiday lights (data to be collected for 2015), Earth Day E cycle, and Shred Day; "gallons" is the total number of gallons of cooking oil collected.
	Indicator: Volume of material collected at Quail Street Recycling Center	-	-	2014	1,350 tons		City of Lakewood Public Works Department	Updated annually
	Indicator: Volume of hazardous material collected at Rooney Road Recycling Center	-	-	2014	380,317 pounds	-	City of Lakewood Public Works Department	Most recent data found was for 2014; since the center opened in 1994, they have collected 5,300,608 as of the end of 2015. 2015 data to be collected.
	Indicator: Residential diversion rate (eight units or fewer)	2010	9.1%	2014	11.5%	2.4%	Colorado Department of Public Health	Numbers are state level and taken from CDPHE's Annual Solid Waste Diversion Totals, line "MSW Diversion Rate (excluding scrap metal recycling)"
	Indicator: Percentage of residents with recycling/composting services	-	-	-	-	-	-	Methodology underway
	Indicator: Percentage of residents who compost at home	-	-	-	-	-	-	Methodology underway
	Indicator: Residential diversion rate (more than eight units)	2010	9.1%	2014	11.5%	2.4%	Colorado Department of Public Health	Numbers are state level and taken from CDPHE's Annual Solid Waste Diversion Totals, line "MSW Diversion Rate (excluding scrap metal recycling)"

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
ZERO WASTE	Indicator: Percentage of multifamily residences with recycling/composting services	-	-	-	-	-	-	Methodology underway
	Indicator: Commercial landfill diversion rates	-	-	-	-	-	-	Methodology underway
	Indicator: Number of restaurants and grocery stores participating in food composting program	-	-	-	-	-	-	Methodology underway
	Indicator: Number of individuals employed at reuse and resource recovery businesses	-	-	2015	34 businesses	-	City of Lakewood Economic Development	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	-	-	-	-	-	-	Methodology underway

	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH	TARGET: Increase the percentage of residents reporting "good" or "very good" satisfaction ratings for Lakewood's efforts at welcoming citizen involvement as reported in the City of Lakewood Citizen Survey to 60% by 2025.							
	Percentage of residents reporting "good", or "very good" reporting satisfaction of welcoming citizen involvement in the Citizen Survey	2013	48%	-	-	-	City of Lakewood Citizen Survey	Survey distributed every 2-3 years; most recent distribution was in 2013; a survey will be conducted in 2016.
	TARGET: Increase resident subscriptions to the City communication tools each year through 2025.							
	Number of resident subscriptions to City communication tools	-	-	2015	31,251	-	Mailchimp.com report for each newsletter	Updated annually; residents may subscribed to more than one newsletter and thus double counted; 15 total newsletters.
	TARGET: Certify 12 neighborhoods as "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program by 2025.							
	Number of "Outstanding Sustainable Neighborhoods" in the Sustainable Neighborhoods Program	2010	0	2015	4	400%	City of Lakewood Sustainability Division	Updated annually
	TARGET: Increase recreation program participation each year through 2025.							
	Number of participants in City recreation programs	2010	352,000	2015	437,000	24%	City of Lakewood Community Resources Department	Data includes admissions for all ages at City recreation centers and pools.
	TARGET: Eliminate USDA-defined food deserts in Lakewood.							
	Number of USDA-defined food desert within the City boundary	-	-	2015	6	-	United States Department of Agriculture Food Access Research Atlas - Food Desert Locator	Used definition: LI and LA at 1 and 10 miles (original food desert measure); Last update to the locator was March 11, 2015
	TARGET: Achieve community affordable housing targets.							
	Number of community affordable housing targets that have been achieved	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy CC3-A, p.113
	TARGET: Increase the percentage of residents reporting "good" or "very good" satisfaction ratings for Lakewood programs for people with special needs, older adults, low-income persons, and homeless people to above Front Range benchmarks.							
	Front Range benchmark comparison of the percentage of residents reporting "good", or "very good" satisfaction of programs for people with special needs, older adults, low-income persons, and homeless people	2013	Older Adults: Below Special Needs: N/A Low-income: Much Above Homeless: N/A	-	-	-	City of Lakewood Citizen Survey	In 2013, only the older adults and low-income categories were looked at; survey distributed every 2-3 years; a survey will be conducted in 2016.

	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH	Indicator: Voter turnout in regular municipal elections	2010	71.1%	2014	57%	-14%	City of Lakewood City Clerk's Office	Updated Annually
	Indicator: Enrollment in citizen academies	-	-	2015	Planning Academy: 20 Police Academy: 75	-	City of Lakewood Planning and Police Departments	Updated Annually
	Indicator: Number of applications for citizen boards and commissions	-	-	2015	26	-	City of Lakewood City Clerk's Office	Updated Annually
	Indicator: Number of volunteers participating in City programs and activities	-	-	2014	47,085	-	City of Lakewood	Updated Annually
	Indicator: Total page views on Lakewood.org	-	-	2015	4,546,627	-	Google Analytics	Updated Annually
	Indicator: Number of followers of Lakewood social media channels	-	-	2015	20,773	-	City of Lakewood City Manager's Office	Data was first collected in 2015
	Indicator: Number of Google Translate requests for Lakewood.org Web pages	-	-	-	-	-	-	Methodology underway
	Indicator: Minority resident satisfaction with the job Lakewood government does at welcoming citizen involvement	2013	50%	-	-	-	City of Lakewood Citizen Survey	Survey distributed every 2-3 years; most recent distribution was in 2013; a survey will be conducted in 2016.
	Indicator: Resident satisfaction with overall quality of life	2013	Very Good: 37% Good: 57% Neither good nor bad: 6% Bad: 1%	-	-	-	City of Lakewood Citizen Survey	Survey distributed every 2-3 years; most recent distribution was in 2013; a survey will be conducted in 2016.
	Indicator: Number of participants in the Sustainable Neighborhoods Program	2010	0	2015	5	500%	City of Lakewood Sustainability Division	Metric reported is number of neighborhoods participating in the program
	Indicator: Number of registered neighborhood organizations	-	-	2015	129		City of Lakewood Planning Department	Updated annually

	METRIC	BASLINE YEAR	BASLINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH	Indicator: Number of neighborhoods, households, and people registered on NextDoor.com	-	-	2015	neighborhoods:102 households: 9,587 people: 12,067	-	City of Lakewood	Number of neighborhoods includes both launched and pilot; number of households is the number of claimed households.
	Indicator: Participation in Lakewood's Inspire Arts Week	-	-	2015	3,800	-	City of Lakewood Community Resources	Updated annually
	Indicator: Attendance at City Cultural and Heritage programs	-	-	-	-	-	City of Lakewood Community Resources	In process of data collection
	Indicator: Annual number of public art installations	2010	1	2015	7	-	City of Lakewood Community Resources	Updated annually
	Indicator: Acreage of community gardens and urban farms	-	-	2015	More than 50 acres	-	City of Lakewood Planning Department	Acreage for some plots/land area was not reported; current data only account for 7 of the 24 total community gardens and urban farms.
	Indicator: Number of households in identified food deserts	-	-	2015	11,018	-	United States Department of Agriculture Food Access Research Atlas - Food Desert Locator and US Census Bureau Cartographic Boundary Shapefiles at the Census Tract level	Used definition: LI and LA at 1 and 10 miles (original food desert measure); last update to the locator was March 11, 2015.
	Indicator: Resident's satisfaction with recreation programs and facilities	2013	Programs: 77% Facilities: 76%	-	-	-	City of Lakewood Citizen Survey	Survey distributed every 2-3 years; most recent distribution was in 2013; a survey will be conducted in 2016.
	Indicator: Number of unique visits to City recreation facilities	-	-	2014	425,652	-	City of Lakewood Community Resources Department	Includes all four of the City's recreation centers: Carmody, Charles Whitlock, Green Mountain, and LINK; updated annually.
	Indicator: Bicycle traffic counts	-	-	2014	595	-	City of Lakewood Public Works Department	In 2014, the City completed bicycle counts at each of the following locations: 6th Ave Service Road at Jeffco Fairgrounds, 13th Ave bike path at Zephyr, 13th Ave bike path at Kipling, C-470 bike path at the north pedestrian bridge, Alameda bike path between Hoyt and Kipling, Alameda bike path east of Carr St., and the Alameda bike path west of Carr St; counts were conducted in Jan. and Apr. on weekdays and weekends, then averaged for each; the City plans to conduct more counts in the future.

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
COMMUNITY COHESION & PUBLIC HEALTH	Indicator: Level of Bicycle or Walk Friendly Community certification	-	-	2014	Bronze	-	The League of American Bicyclists Bicycle Friendly Community Report Card	-
	Indicator: Number of residents on waiting lists for subsidized units at Metro West Housing Solutions properties	2010	2,109	2015	1,690	-20%	Metro West Housing Solutions	Updated annually
	Indicator: Percentage of households that spend more than 45% of income on housing and transportation costs	-	-	2013	45%	-	Center for Neighborhood Technology (CNT) H + T Affordability index	CNT uses ACS 5-year estimates at block group level; 2013 is the most recent data available.
	Indicator: Participation in City of Lakewood Family Services programs	-	-	2015	152,590	-	City of Lakewood Community Resources Department	2015 is the projected data; actual data from 2015 has not been updated.
	Indicator: Number of people served through the Action Center	-	-	-	-	-	The Action Center	In process of data collection
	Indicator: Resident's feelings of safety	2013	In your neighborhood during the day: 96% Walking alone in your neighborhood after dark: 72%	-	-	-	City of Lakewood Citizen Survey	Survey distributed every 2-3 years; most recent distribution was in 2013; a survey will be conducted in 2016
	Indicator: Jefferson County public health selected health conditions and causes of death	-	-	2011	Leading Causes of Death: Cardiovascular Diseases: 24.2% Cancer: 21% Unintentional Injuries 7.3%	-	Jefferson County Public Health Community Health Assessment	Last updated, 2011; distributed every 5 years; data reported for Jefferson County as a whole.

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
NATURAL SYSTEMS	TARGET: Increase the acreage of functional and healthy natural ecosystems.							
	Acreage of functional and healthy natural systems	-	-	-	-	-	-	Criteria to be established after the completion of Sustainability Plan Strategy NS1-C, p. 128
	TARGET: Ensure that all waters within Lakewood meet or exceed the CDPHE's Water Quality Standards for the uses assigned.							
	Water quality	-	-	2015	Bear Creek Reservoir Impairments: Chl-a, phosphorus	-	Colorado Department of Health and Environment, Water Quality Control Commission, Colorado's Section 303(D) List of Impaired Waters and Monitoring and Evaluation List	WBIDs COSPBE01c, and COSPBE02 within the South Platte River Basin (COSP); the City is working through multiple outlets with multiple entities to ensure all waters come up to standard.
	Number of waters in Lakewood that meet or exceed the CDPHE's Water Quality Standards	-	-	2015	1 body of water impaired	-	Colorado Department of Health and Environment	There are two bodies of water that are monitored by CDPHE: Bear Creek Reservoir, and Bear Creek; data taken from CDHPE, Water Quality Control Commission's "Colorado's Section 303(D) List of Impaired Waters and Monitoring and Evaluation List".
	TARGET: Achieve 30% tree canopy coverage by 2025.							
	Percent coverage	2001	7.67%	2011	7.8%	0.13%	i-Tree Landscape Tool	Data collected using census area "Lakewood"; i-Tree uses NLCD land cover, tree canopy, and impervious surface data and is updated every 5 years as NLCD data is updated; this calculation is for Lakewood land cover as a whole, not just the urban tree canopy.
	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
NATURAL SYSTEMS	Indicator: Acreage of land cover by habitat type	2001	Developed: 20,904.2 acres Forest: 195 acres Wetland: 927.5 acres Water: 642.9 acres Other: 5,529.1 acres Pasture/ Cultivated: N/A	2011	Developed: 20,904.2 acres Forest: 195 acres Wetland: 927.5 acres Water: 642.9 acres Other: 5,529.1 acres Pasture/ Cultivated: N/A	-	i-Tree Landscape Tool	Data collected using census area "Lakewood." i-Tree uses NLCD land cover, tree canopy, and impervious surface data and is updated every 5 years as NLCD data is updated; "Other" includes shrub/scrub, grassland/herbaceous, and barren land.

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
NATURAL SYSTEMS	Indicator: Acres of Colorado List A noxious weed species on city owned property	-	-	2015	30	-	City of Lakewood Community Resources Department	List A noxious weed species currently/ formerly seen and controlled: purple loosestrife, orange hawkweed, myrtle spurge, cypress spurge
	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; methodology to be established
	Indicator: Number of developments that have installed or retrofitted BMP's to improve water quality	-	-	2015	57	-	City of Lakewood Public Works Department	Updated annually
	Indicator: Number of environmental education programs and outreach events	-	-	2015	137	-	City of Lakewood Community Resources Department	Updated annually
	Indicator: Attendance at Lakewood's annual Earth Day Celebration	2012	500	2015	750	33.3%	City of Lakewood Sustainability Division	Attendance measurements begin in 2012, which was the first year the event was held at the Heritage Center; the 2015 measurement does not include E-waste event attendance
	Indicator: Percentage of permeable land	2007	70.68%	2011	68.4%	-2.28%	i-Tree Landscape Tool	Data collected using census area "Lakewood"; i-Tree uses NLCD land cover, tree canopy, and impervious surface data and is updated every 5 years as NLCD data is updated
	Indicator: Percentage of 100-year flood plain w/ vegetative coverage	-	-	-	-	-	-	Methodology underway

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
TRANSPORTATION	TARGET: Convert all streetlights to LED or other high efficiency lighting technologies by 2025.							
	Number of LED streetlights	-	-	2015	94 LED Streetlights	-	City of Lakewood Public Works Department	Data does not include lighting in parks and other city owned facilities
	TARGET: Reduce Lakewood's daily per capita VMT by 10% by 2025.							
	Vehicle miles traveled (VMT)	2010	14.6	-	-	-	Denver Regional Council of Governments Lakewood Community Profile, 2013	Data from DRCOG Focus Travel Model 2010
	TARGET: Reduce the percent of trips to work by single-occupancy vehicles from 75% to 65% by 2025.							
	Number of single-occupancy trips	2010	53,174.9	2014	63,498.8	19%	United States Census Bureau American Fact Finder	Commuting Characteristics by Sex, American Community Survey 1-year Estimates
	Percent of trips to work that are single-occupancy	2010	79.2%	2014	80.3%	1%	United States Census Bureau American Fact Finder	Commuting Characteristics by Sex, American Community Survey 1-year Estimates
	TARGET: Decrease petroleum-based fuel consumption of the City fleet by 10% by 2025.							
	Amount of petroleum-based fuel consumed	2010	330,505	2014	326,257	-1%	City of Lakewood Public Works Department	Data not normalized for weather
	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
TRANSPORTATION	Indicator: Annual vehicles miles traveled in street maintenance operations	2010	156,865	2014	260,611	66%	City of Lakewood Public Works Department	Data not normalized for weather
	Indicator: Concentration of criteria air pollutants	-	-	-	-	-	-	Methodology underway; closest data available is for entire Denver Metro area.
	Indicator: Street construction waste diversion rates	-	-	-	-	-	City of Lakewood Public Works Department	Per City regulations, no waste is generated. All materials for street construction programs (concrete and overlay) are recycled or reused.
	Indicator: Percentage of recycled materials used in street maintenance and construction	-	-	-	-	-	City of Lakewood Public Works Department	Materials being recycled are asphalt binder and aggregates; per City, no more than 20% recycled asphalt pavement (RAP) may be used on collector and arterial streets overlay; no more than 30% RAP on patching, minor collectors and residential streets.
	Indicator: Street and signal lighting energy use	2013	7,024,646 kWh	2015	6,4167,99 kWh	-9%	City of Lakewood Public Works Department	Data includes metered, non-metered, flasher, and flat rate usage

	METRIC	BASELINE YEAR	BASELINE	CURRENT YEAR	CURRENT	% CHANGE	SOURCE	NOTES
TRANSPORTATION	Indicator: Commuter mode split	2010	Drove alone: 79% Carpooled: 9% Transit: 4% Walked: 2% Other: 6%	2014	Drove alone: 80% Carpooled: 6% Transit: 5% Walked: 1% Other: 8%	Drove alone: 1% Carpooled: -3% Transit: 1% Walked: -1% Other: 2%	United States Census Bureau American Fact Finder	Commuting Characteristics by Sex, American Community Survey 1-year Estimates
	Indicator: Transit ridership	2010	3,959,935	2015	5,115,176	29%	Regional Transportation District, Service Development Department	Data derived from RTD reports; data reflects the average annual ridership based on average total daily passengers at each bus and light rail stop in Lakewood.
	Indicator: Percentage of household income spent on transportation	-	-	2013	19%	-	Center for Neighborhood Technology (CNT) H + T Affordability index	CNT uses ACS 5-year estimates at block group level; 2013 is the most recent
	Indicator: Bicycle level of service	-	-	-	-	-	-	Methodology underway
	Indicator: Number of miles of bike trails and routes and number and length of missing segments	-	-	2015	170.31 miles of trails and routes; 93 miles of missing segments	-	City of Lakewood Community Resources and Public Works Departments	Includes hard, soft, and signed facility type trails and routes
	Indicator: Bicycle traffic counts	-	-	2014	595	-	City of Lakewood Public Works Department	In 2014, the City completed bicycle counts at each of the following locations: 6th Ave Service Road at Jeffco Fairgrounds, 13th Ave bike path at Zephyr, 13th Ave bike path at Kipling, C-470 bike path at the north pedestrian bridge, Alameda bike path between Hoyt and Kipling, Alameda bike path east of Carr St., and the Alameda bike path west of Carr St; counts were conducted in Jan. and Apr. on weekdays and weekends, then averaged for each; the City plans to conduct more counts in the future
	Indicator: Number of alternative fuel vehicles in Lakewood	-	-	2015	Petroleum based: 94,832; Electric hybrid: 1,729; Electric: 87; Other: 23	-	Colorado Department of Revenue, Division of Motor Vehicles	Based on vehicle registration in Lakewood at the end of 2015
	Indicator: Number of alternative fuel vehicles in the City's fleet	-	-	2015	5	-	City of Lakewood Public Works Department	First Generation Prius Hybrid, and Chevy Volts
	Indicator: Number of alternative fuel stations in Lakewood	-	-	2015	10	-	US Department of Energy	Methodology to be refined; data is currently from one source and does not cover every station in Lakewood.
	Indicator: Average miles per gallon of vehicles in Lakewood	-	-	-	-	-	Colorado Department of Revenue, Division of Motor Vehicles	Methodology underway

STAY INFORMED

READ THE SUSTAINABILITY PLAN AND THIS REPORT ONLINE

www.lakewood.org/sustainabilityplan

LEARN MORE ABOUT SUSTAINABILITY IN LAKEWOOD

www.lakewood.org/green

SIGN UP FOR OUR NEWSLETTER & FOLLOW US ON SOCIAL MEDIA

www.lakewood.org/sustainabilitynews

JOIN THE LAKEWOOD SUSTAINABILITY COOPERATIVE

www.lakewood.org/scoop

EMAIL US

sustainability@lakewood.org