

# Comprehensive Planning Lakewood 2025: Moving Forward Together



**Lakewood**  
Full of Possibilities.

# What is the Comprehensive Plan?

## It is our city's vision for the future

(Comprehensive Plans are required by Colorado state law and City Charter, Article IX)

### The Plan Should...

- Reflect community values and aspirations
- Address Current needs
- Anticipate need/opportunities of the future



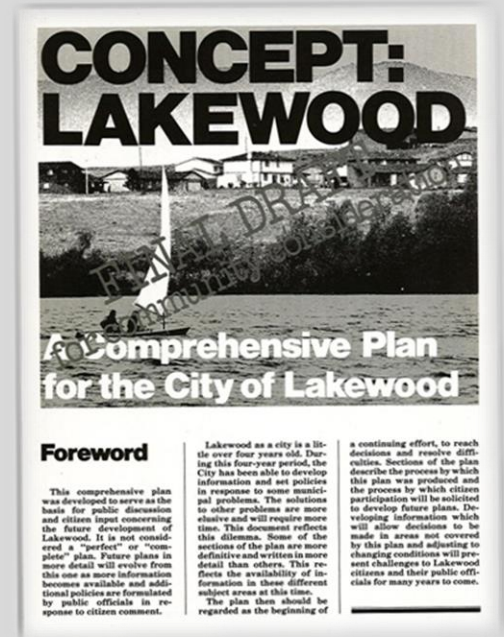
## How is the Comprehensive Plan used?

- Prioritize budget and resource decisions
- Guidance for adjusting regulations (zoning codes, building codes, public safety)
- Criteria for decision making by City leadership
- Guide for public support/opposition to City actions

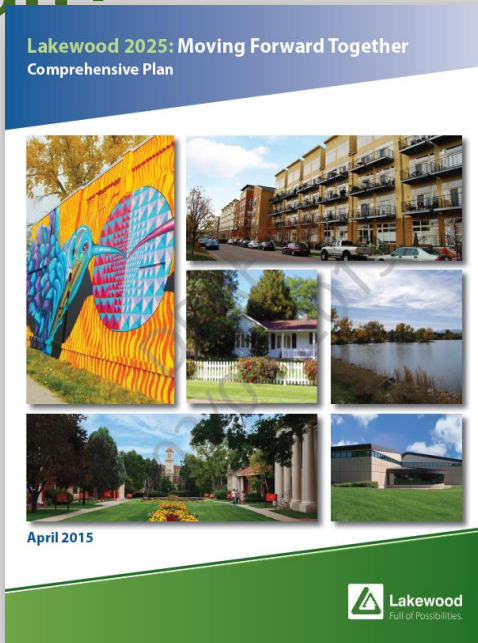


## Adopted Comprehensive Plans:

- 1975 Concept Lakewood
- 1987 Comprehensive Plan
- 2003 Comprehensive Plan
- 2015 Lakewood 2025: Moving Forward Together



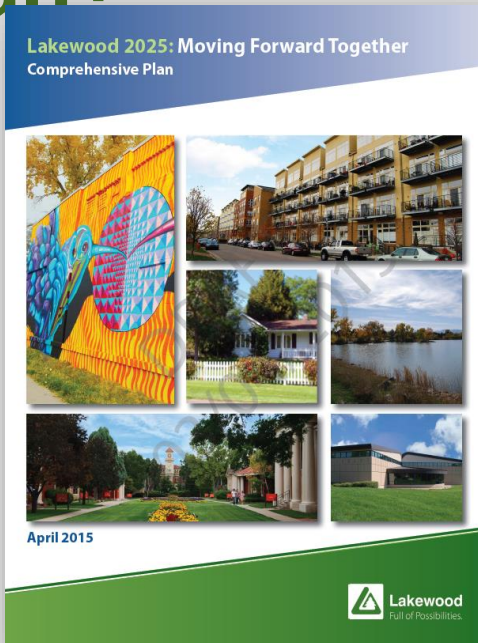
# What is Covered in the Comprehensive Plan?



## LAKEWOOD LIVES

Neighborhoods - Housing - Family Services  
Historic Preservation - Arts and Culture - Parks, Trails, and  
Recreation - Schools and Libraries - Public Services

# What is Covered in the Comprehensive Plan?

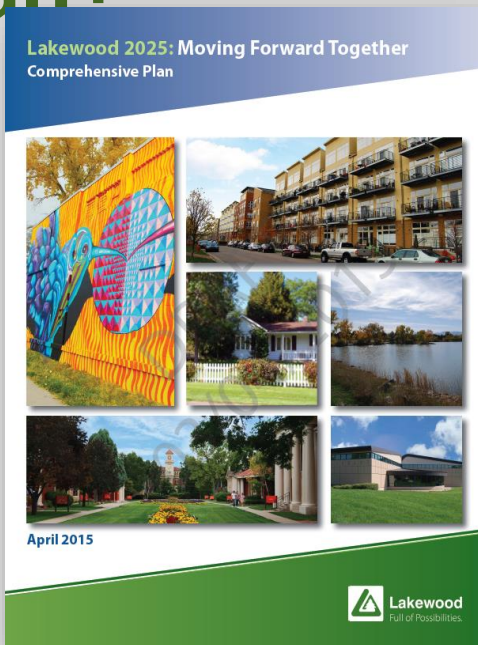


## LAKEWOOD INNOVATES

Citywide Economic Development Strategies  
Growth Areas - Community Activity Areas  
Neighborhood Activity Areas  
Future Activity Areas - Industrial Areas



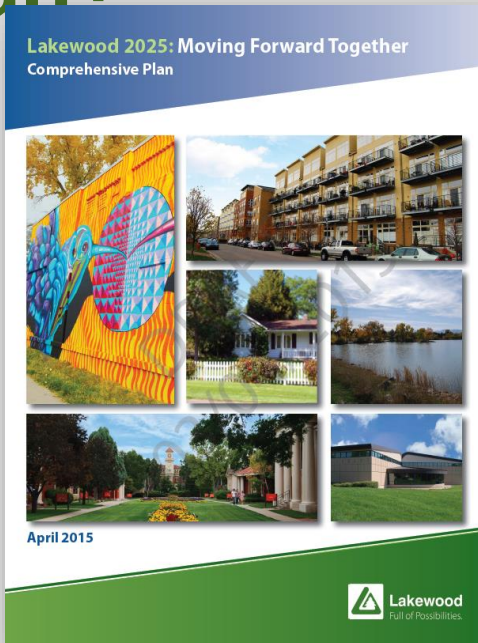
# What is Covered in the Comprehensive Plan?



## LAKEWOOD MOVES

Multi-Modal Transportation System - Future Transportation Improvements - Complete Streets - Way-finding and Informational Sign Opportunities

# What is Covered in the Comprehensive Plan?

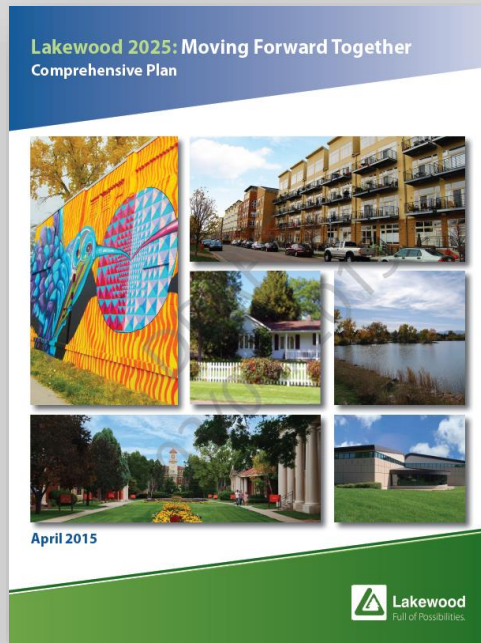


## LAKEWOOD SUSTAINS

City Leadership and Role - Air Quality and Climate - Water  
Biodiversity, Natural Resources and Ecosystem Services  
Energy in Built Environments - Waste



# How is the Comprehensive Plan Organized?



## Plan Elements

Vision Statement



Guiding Principle



Goal



Action Step

What if the community needs to address something more specific, nuanced, or complicated?



## Special Plans get created for:

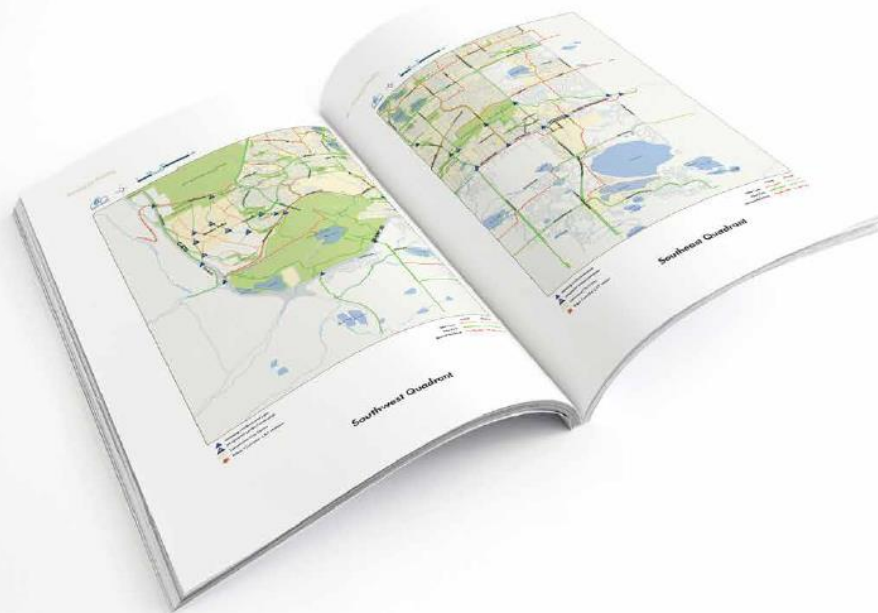
- Neighborhoods, corridors, and special districts
- City systems like parks or transportation
- Complex topics like sustainability & climate adaptation



## Special Plans created & adopted as elements of the Comp Plan

### PLANNING FOR PEDALING

- Updating the Lakewood Bicycle System Master Plan



## Other important questions...

Once a plan is in place, how does it get implemented?

How do we measure successful implementation?

Who decides that a plan is no longer relevant?



## Tonight's Examples

- **Lamar Station Planning, 40 West Arts District & ArtLine**  
*Alexis Moore, Principal Planner*
- **City of Lakewood Sustainability Plan**  
*Jonathan Wachtel, Sustainability Manager*







# Planning for Sustainability

**City of Lakewood  
Citizen's Planning Academy  
August 30, 2019**

**[www.Lakewood.org/Sustainability](http://www.Lakewood.org/Sustainability)**

City of Lakewood  
Sustainability Division



# Sustainability: What is it?

## Community sustainability:

*The process of 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: What is it?

What do you think about when you hear the term sustainability?



# Sustainability: What is it?

## Community sustainability –

The process of 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: What is it?

The concept of sustainability recognizes the interplay between natural, economic and social interests.”



# Sustainability: What is it?

## Triple-bottom-line

Look for the action/solution that benefits our economic, social, and environmental well-being.





# Sustainability: What is it?

Can you think of some examples in your day-to-day life where you use the triple-bottom-line to make your decisions?



# Sustainability: What is it?

How do you apply this approach to an organization?

How about an entire city?



# Sustainability Planning

## Quiz & Brainstorming Session

There's usually a good  
reason why we do things.

But that doesn't mean  
there aren't impacts.

Let's look at some topics through the  
triple-bottom-line sustainability lens



# Sustainability Planning

What is the average number of miles driven by per car in Lakewood each day?



# Sustainability Planning

What is the average number of miles driven by per car in Lakewood each day?

**17.2 miles per day**



# Sustainability Planning

78% trips to work by  
SOV





# Sustainability Planning

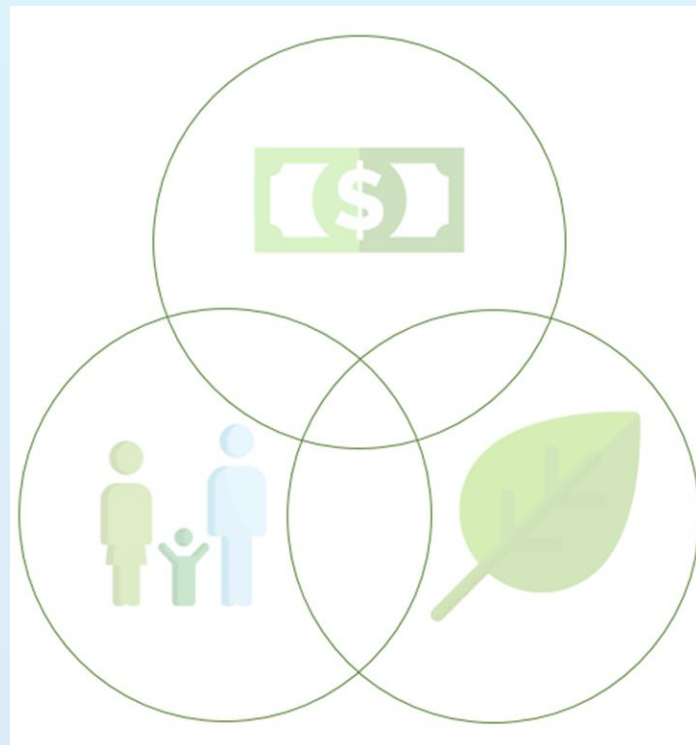
Why are we driving all of these miles?

What are the benefits of the automobile?

What are the impacts?

Solutions?

What is the cost of inaction?



# Sustainability Planning

How would those “solutions” impact the existing benefits?

What are the impacts of not taking an action?



# Sustainability Planning

How many pounds of waste does the average household (2.33 persons) in Lakewood generate in a year?



# Sustainability Planning

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**~ 3,700 lbs. of trash**



# Sustainability Planning

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**3,700 lbs. of trash**

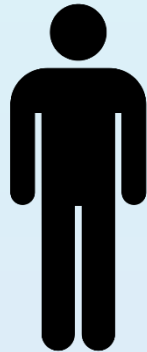
**About 1,122 lbs. of that is probably  
packaging waste and another 550 lbs. is  
food waste**



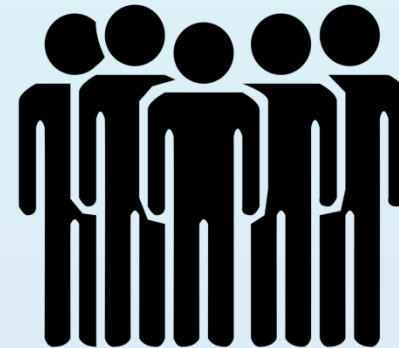
# Sustainability Planning

How many pounds of waste does the average household (2.33 persons) in Lakewood generate in a year?

**4.4 pounds per day = 660,000 pounds per day**



Individual



Lakewood





# Sustainability Planning

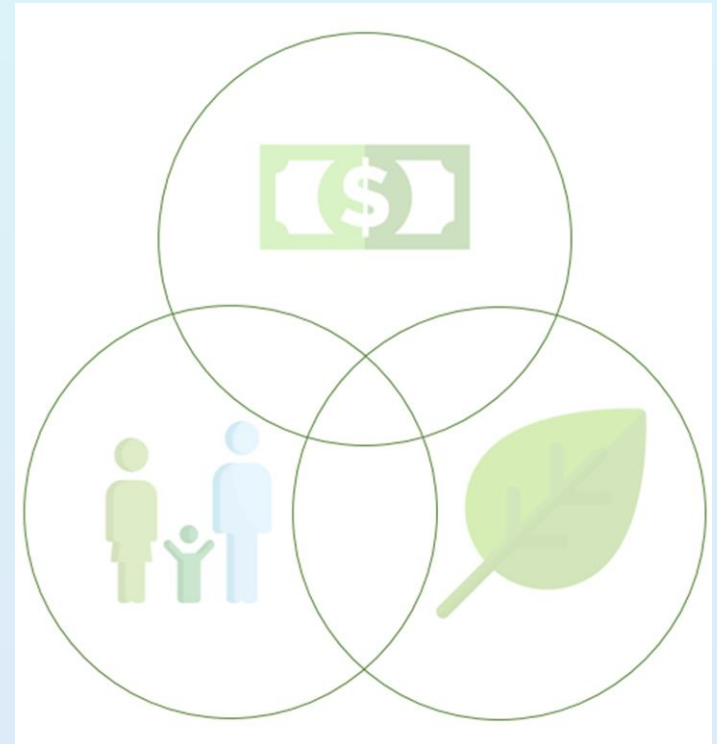
Where does the waste come from?

What are the benefits of the system producing this waste?

What are the impacts?

Solutions?

What is the cost of inaction?



# Sustainability Planning

How many gallons of water does an average household in Lakewood use in a year? (Indoor and Outdoor)



# Sustainability Planning

**78,000 gallons**



Household  
Indoor and outdoor  
water use



# Sustainability Planning

How much water do we consume in  
Lakewood?

**78,000 gallons**

Enough water to:

Take a 520 hour shower

To flush an older model toilet 22,172 times

Or

a *Watersense* toilet 60,628 times



# Sustainability Planning

## How much water do we use in Lakewood?

**6,950,051,390 gallons**

2015 Citywide

=

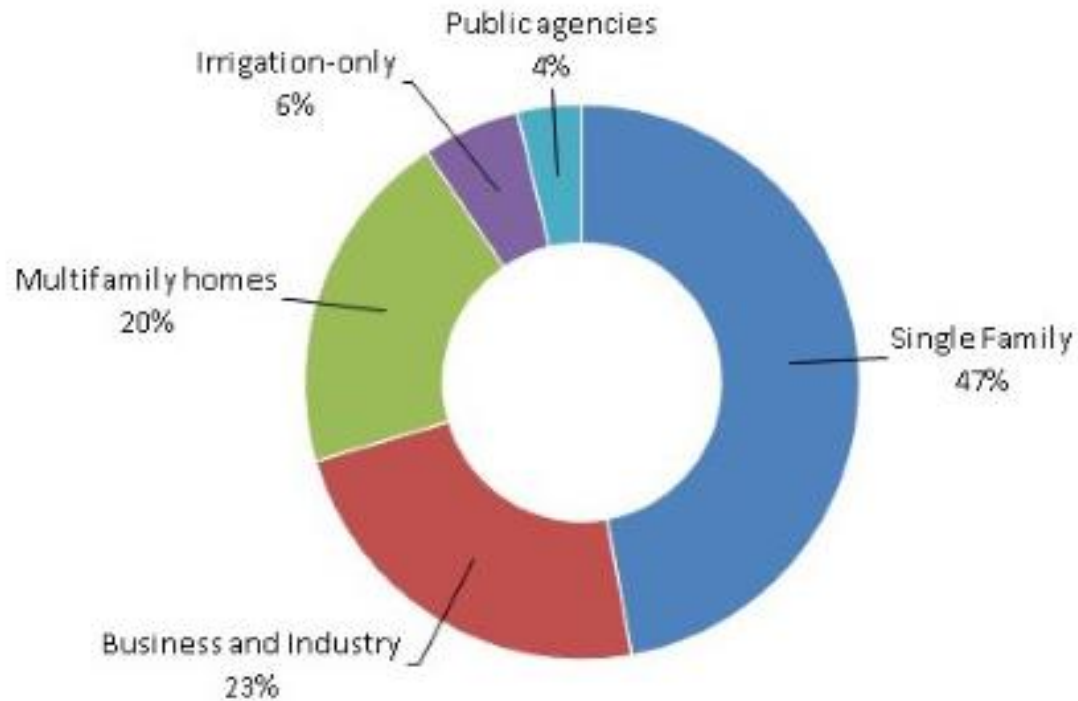
**10,523**

Olympic-size  
swimming pools



# Sustainability Planning

**Denver Water Retail Treated Water Sales**



# Sustainability Planning



What solutions  
would help us be  
more  
sustainable?

# Sustainability Planning

Is it really possible to be  
sustainable?

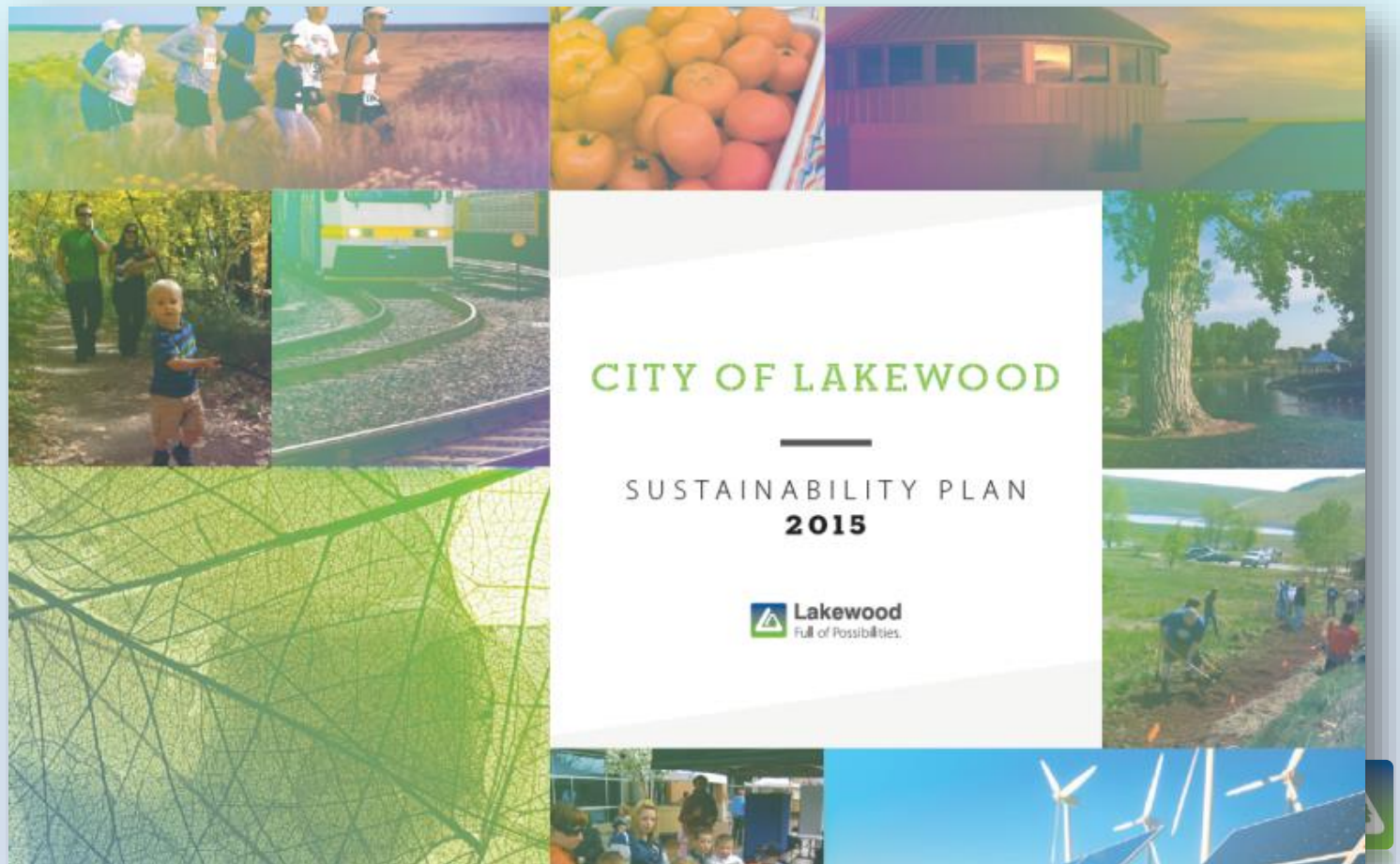
How are we going to try to  
solve these challenges?





# Lakewood Sustainability Plan

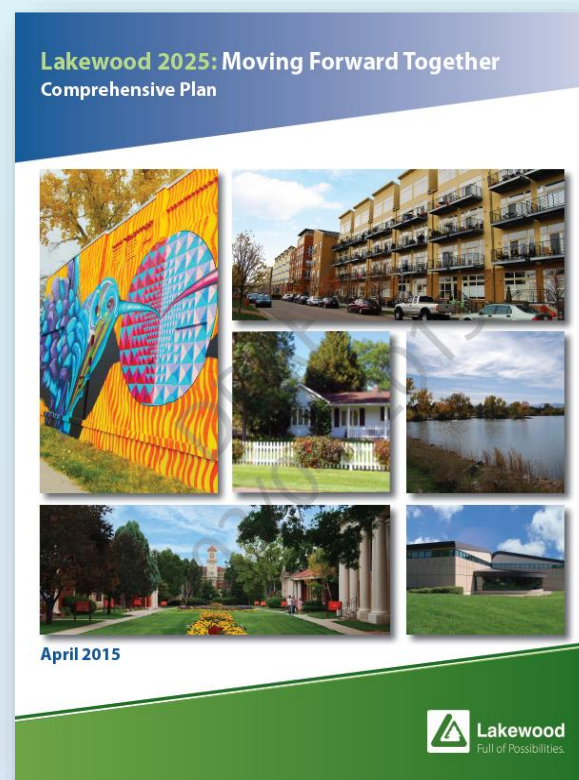
## What is a Sustainability Plan?



# Lakewood Sustainability Plan

## How does the plan relate to the Comprehensive Plan?

- Complements and expands upon recommendations
- Establishes measurable goals (targets) and methods of measuring progress and trends (indicators)
- Intended to be adaptable and responsive to changing conditions





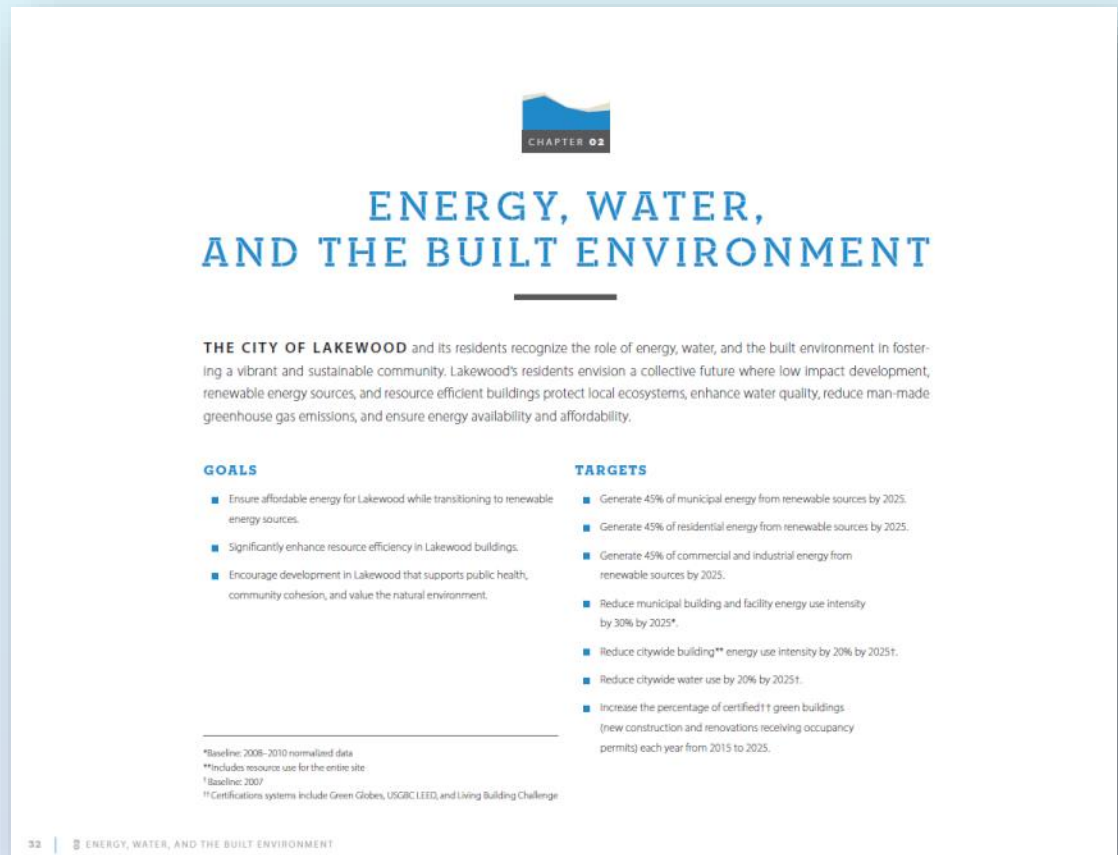
# Sustainability Plan: Strategic Shift



# Lakewood Sustainability Plan

## Plan Organization – Each chapter includes...

### Value Statement / Goals / Targets



# Lakewood Sustainability Plan

## Implementation

## Primary Strategies

## Supporting Strategies

### IMPLEMENTATION STRATEGIES

#### 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. Specifically:

- Continue to provide environmental education programs for residents of all backgrounds and ages;
- Identify opportunities for interpretive signage and on-site messaging in Lakewood's parks, natural areas, and other appropriate public spaces;
- Integrate environmental education into community events like Earth Day, Cider Days, and the annual Community Resources Plant Sale;
- Develop resources and tools that enable residents to share ecological stewardship concepts and programs with neighbors, employers, and co-workers; and
- Recognize efforts of residents, businesses, and organizations demonstrating stewardship of Lakewood's natural systems.

#### NS1-B LANDSCAPE AND AGRICULTURAL STEWARDSHIP

### SUPPORTING STRATEGIES

#### COLLABORATION

- Work with schools to support existing and new Safe Routes to Schools programs.
- Work with schools and youth organizations to support opportunities for a variety of youth sports and physical activities year-round.
- Work with nutrition experts to educate residents, schools, and businesses about the importance of healthy eating.
- Work with LiveWell Colorado to support school-based nutrition education program and efforts to establish a statewide farm-to-school programs.

#### EDUCATION & PROMOTION

- Continue to market Lakewood's range of recreation and wellness programs and facilities.
- Market Lakewood as Healthy Eating and Active Living (HEAL) community.
- Promote the 9News Health Fair and opportunities for residents to regularly track their critical health numbers.

#### TOOLS & TECHNOLOGY

- Promote mobile technologies and apps that track personal wellness goals and activities.

#### RESEARCH & TRACKING

- Track fitness trends and activities.
- Track diversity of physical activity facilities and recreation programs participants.
- Track private recreation center business trends.



# Lakewood Sustainability Plan

























## Strategies we use...



- Education & outreach
- Plans
- Policy or code adjustments
- Partnerships & collaboration
- Operational improvements
- Inventory, assessment, survey
- Enforcement or incentives
- Programs and services
- Physical infrastructure improvements







# Lakewood Sustainability Plan

## Strategy Benefits Tables

TABLE BE1-1: STRATEGY BENEFITS						
STRATEGY	ENVIRONMENTAL BENEFITS		ECONOMIC BENEFITS		SOCIAL BENEFITS	
	GHG REDUCTION POTENTIAL	ECOSYSTEM HEALTH	SELF-RELIANCE	HOUSEHOLD BENEFITS	COMMUNITY COHESION	PUBLIC HEALTH
BE1-A: Renewable Energy Transmission and Generation						
BE1-B: District-Scale Sustainability						
BE1-C: Sustainable Energy and Water Resource Center						
BE1-D: Municipal Renewable Energy Generation						

 <5,000 MtCO<sub>2</sub>e Greenhouse Gas Emissions   
  ~10,000 MtCO<sub>2</sub>e Greenhouse Gas Emissions

 High   
  Medium   
  Low   
  Does Not Apply





# Lakewood Sustainability Plan

## Strategy Feasibility Tables

TABLE BE1-2: STRATEGY FEASIBILITY

STRATEGY	CITY OF LAKEWOOD			COMMUNITY	
	UPFRONT COSTS	ONGOING COSTS	PAYBACK / REVENUE POTENTIAL	FINANCIAL BENEFIT FOR RESIDENTS	FINANCIAL BENEFIT FOR BUSINESSES
BE1-A: Renewable Energy Transmission and Generation	\$\$	-	✓	✓	✓
BE1-B: District-Scale Sustainability	\$\$\$\$	-	✓	✓	✓
BE1-C: Sustainable Energy and Water Resource Center	\$	✓	-	✓	✓
BE1-D: Municipal Renewable Energy Generation	\$\$\$\$	✓	✓	-	-

\$ < 50,000    \$\$ = 50,000–100,000    \$\$\$ = 100,000–1,000,000    \$\$\$\$ > 1,000,000





# Sustainability Plan Annual Report 2018-2019

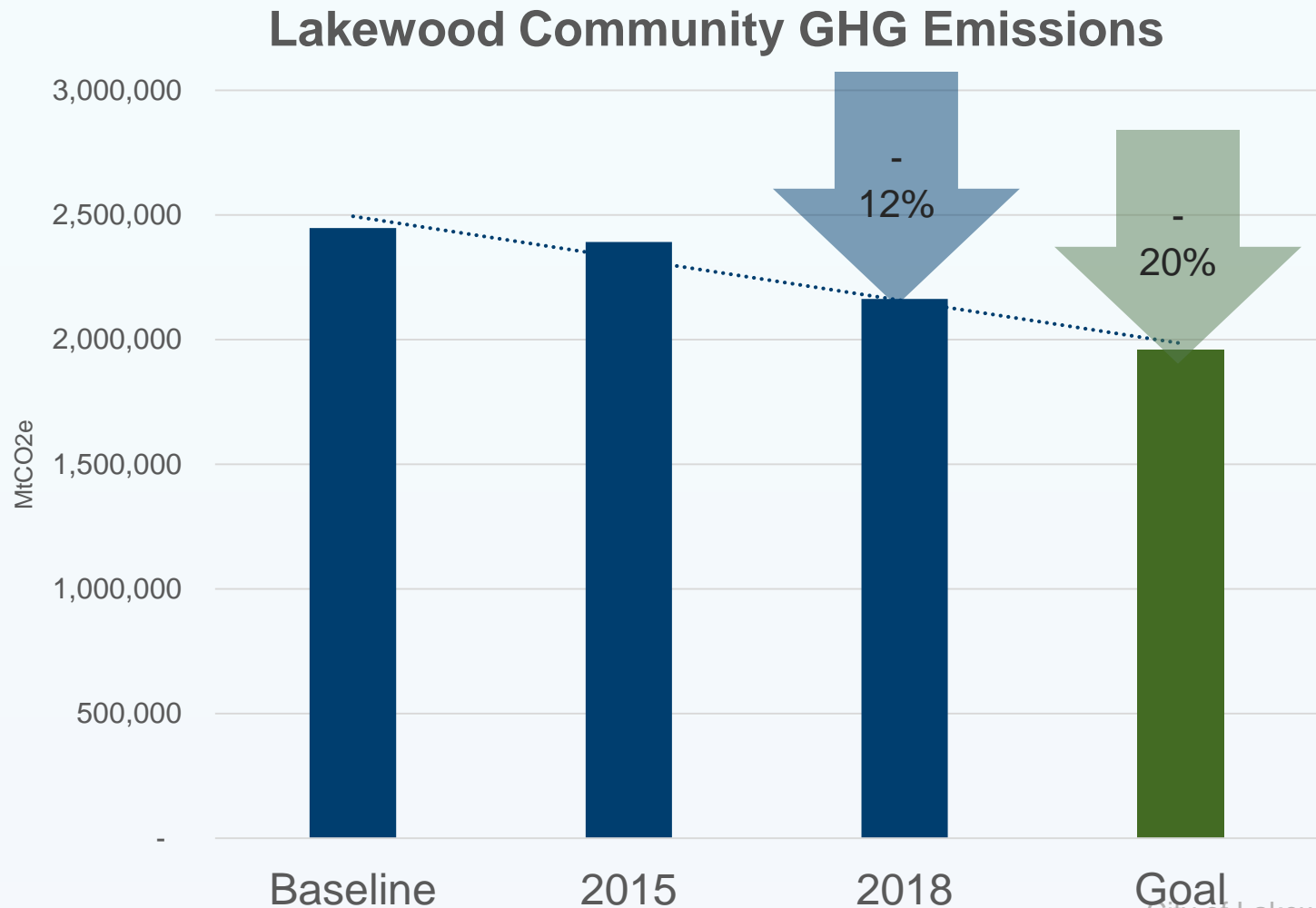
<b>01</b>	<b>CLIMATE CHANGE AND ADAPTATION</b>	<b>6</b>
<b>02</b>	<b>ENERGY, WATER, AND THE BUILT ENVIRONMENT</b>	<b>12</b>
<b>03</b>	<b>SUSTAINABLE ECONOMY</b>	<b>20</b>
<b>04</b>	<b>ZERO WASTE</b>	<b>26</b>
<b>05</b>	<b>COMMUNITY COHESION AND PUBLIC HEALTH</b>	<b>32</b>
<b>06</b>	<b>NATURAL SYSTEMS</b>	<b>38</b>
<b>07</b>	<b>TRANSPORTATION</b>	<b>46</b>

Read the full report:

[Lakewood.org/SustainabilityPlan](https://Lakewood.org/SustainabilityPlan)

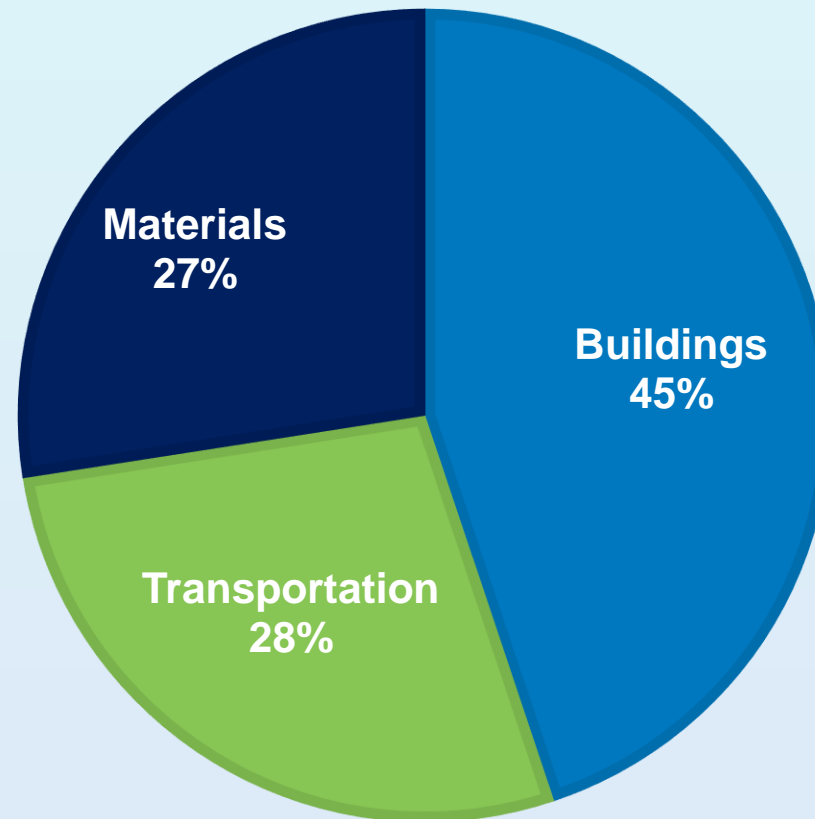


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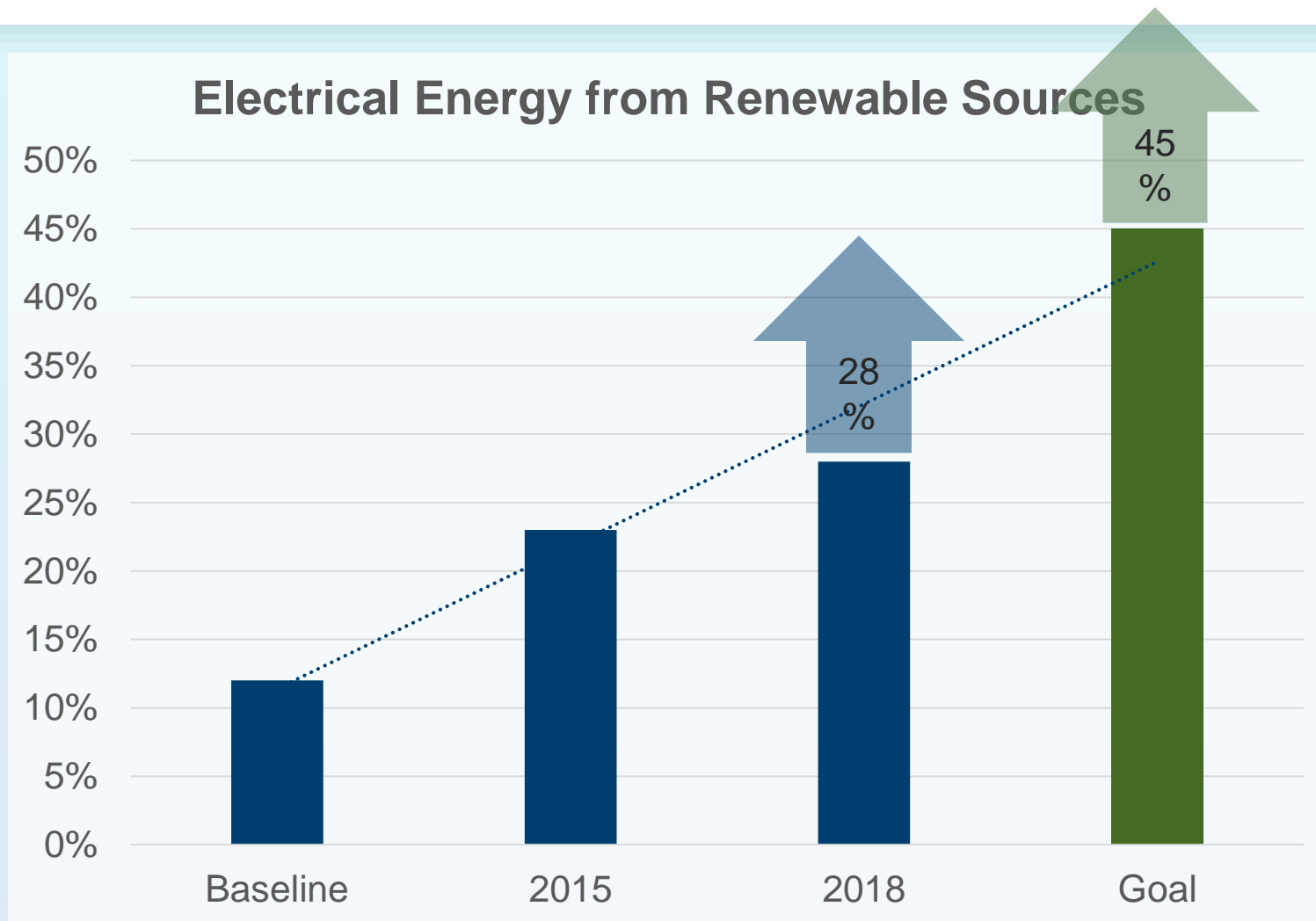


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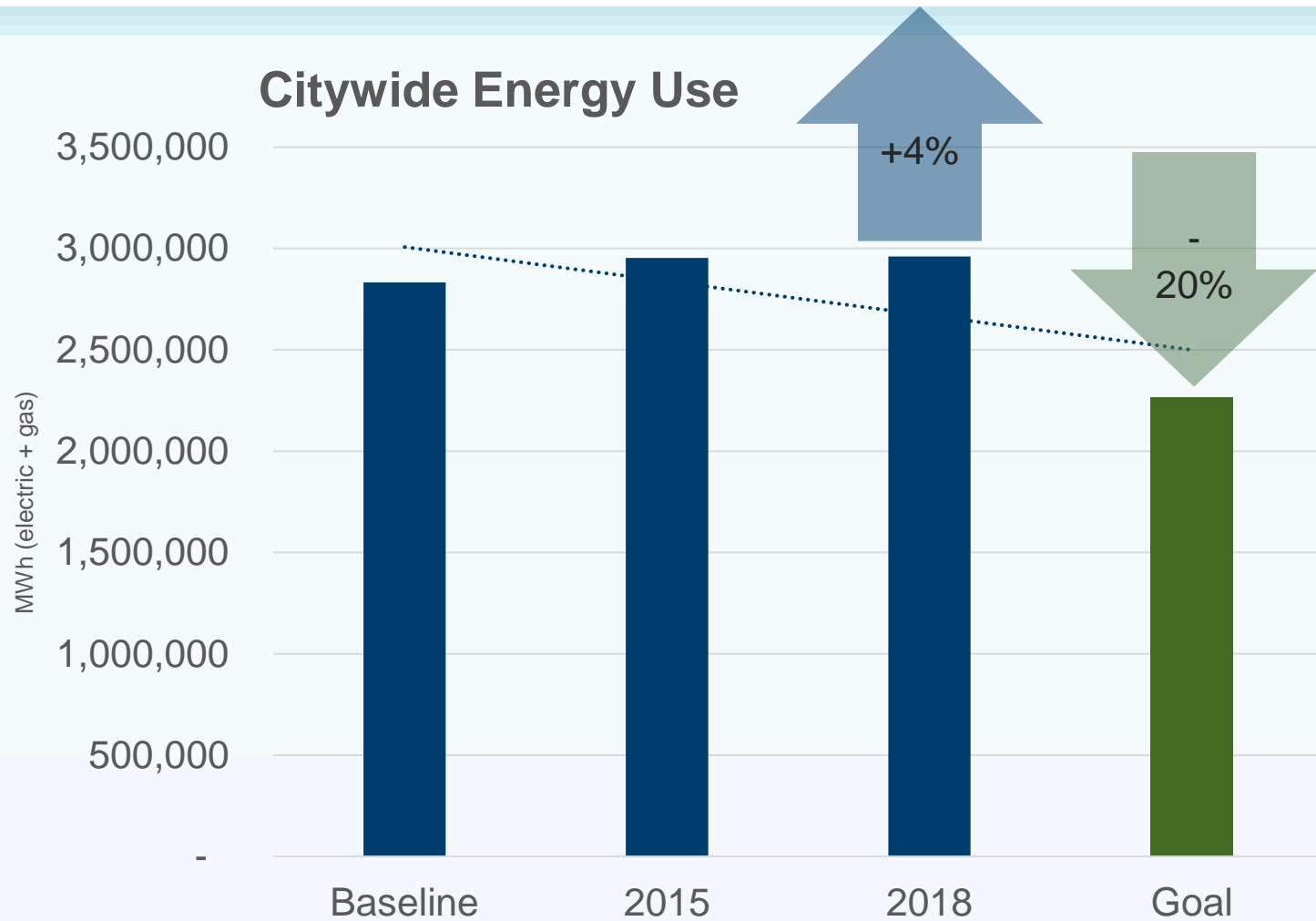
## 2018 Lakewood Community GHG Emissions



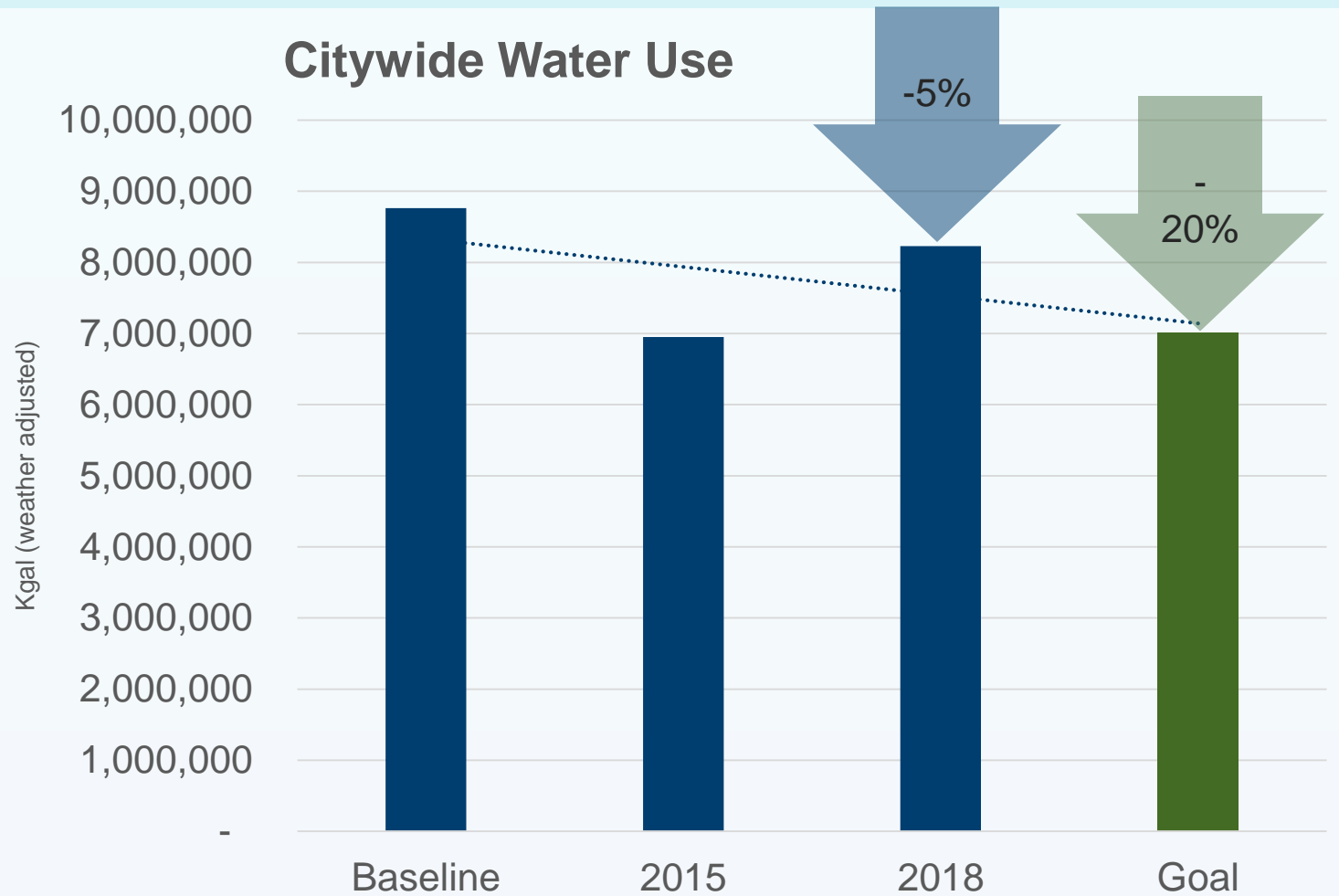
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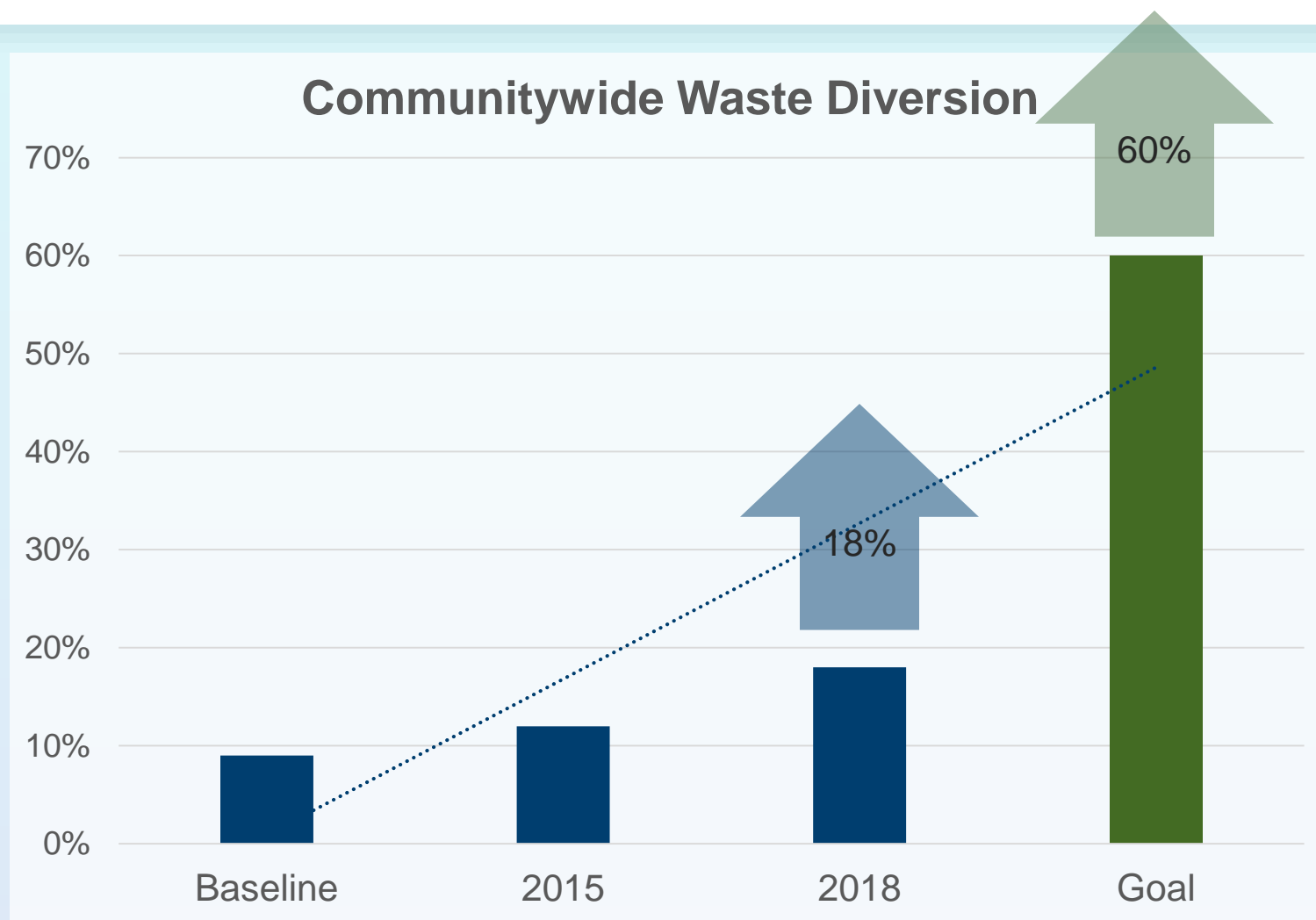
# Sustainability Plan Annual Report 2018-2019



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# Sustainability Plan Annual Report 2018-2019



# Sustainability Plan Annual Report 2018-2019

## Status of Implementation Strategies



*Complete:* **4**



*Significant Progress:*  
**17**



*Underway:* **31**



*Not Started:* **11**





# Sustainability Plan Annual Report 2018-2019

On Track Targets	Not On Track Targets	To Be Determined Targets
<ul style="list-style-type: none"> <li>Community GHG emissions (2)</li> <li>Renewable <i>electric</i> energy (3)</li> <li>Green building certifications</li> <li>Local food</li> <li>Municipal waste diversion</li> <li>Earth Day/Cider Days waste diversion</li> <li>Resident subscriptions to city communication tools</li> <li>Outstanding Sustainable Neighborhoods certifications</li> <li>Recreation program participation</li> <li>Eliminating food deserts</li> <li>Water Quality Standards</li> </ul>	<ul style="list-style-type: none"> <li>Municipal facility energy use</li> <li>Citywide energy</li> <li>Citywide water use</li> <li>LED streetlights</li> <li>Housing and transportation costs for CDBG households</li> <li>Households above Living Wage Standard</li> <li>Community waste diversion</li> <li>Tree canopy coverage</li> <li>SOV trips to work</li> <li>Resident satisfaction for citizen involvement</li> <li>Resident satisfaction for programs for people with special needs, older adults, low-income persons, homeless people</li> </ul>	<p>Data not available:</p> <ul style="list-style-type: none"> <li>Civic Center waste diversion</li> <li>Construction waste diversion</li> <li>Residential waste diversion</li> <li>Vehicle miles traveled</li> <li>City fleet fuel consumption</li> </ul> <p>Strategy has not been implemented:</p> <ul style="list-style-type: none"> <li>Municipal GHG emissions</li> <li>Green business certifications</li> <li>Complete Neighborhoods</li> <li>Priority waste streams diversion</li> <li>Community affordable housing</li> <li>Acreage of healthy ecosystems</li> </ul>

# Lakewood Sustainability Plan

## Integrating Sustainability into your site planning exercise...

- Look for opportunities to support the goals and targets from each chapter of the plan...
- Then, ask yourself how to maximize the design using a systems approach to achieving triple-bottom-line benefits



# Lakewood Sustainability Plan

## Integrating Sustainability into your site planning exercise...

- Look for opportunities to support the goals and targets from each chapter of the plan...
  - Is the project energy and water resource efficient? Could renewable sources of generation be included?
  - Does the design include features that enhance water quality?
  - Does the landscaping contribute to ecological health?
  - Does the project accommodate multiple modes of transportation?
  - Is there recycling and zero waste infrastructure...
- Then ,ask yourself how to maximize the design using a systems approach to achieving triple-bottom-line benefits



# Our Sustainable Future...

**Check out our programs:**

[www.Lakewood.org/Sustainability](http://www.Lakewood.org/Sustainability)

Stay up-to-date:

[www.Lakewood.org/SustainabilityNews](http://www.Lakewood.org/SustainabilityNews)

Get involved:

[www.Lakewood.org/SCOOP](http://www.Lakewood.org/SCOOP)

City of Lakewood  
Sustainability Division

