



# Carlsbad's Climate Action Plan

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September 3, 2025



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CARLSBAD'S CAP

## OVERVIEW



Climate Action Plan  
(CAP)



CAP Dashboard



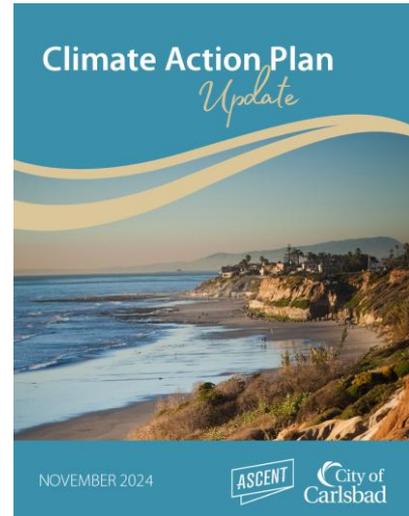
Adaptation  
planning

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# CLIMATE ACTION PLAN

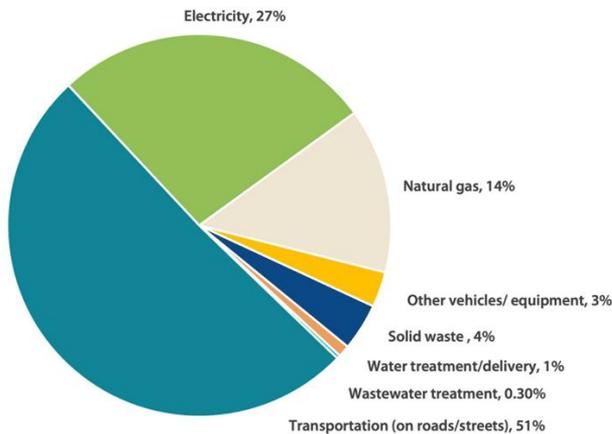
- Comprehensive update adopted Nov. 2024
- Includes 23 measures in 6 strategies
- Annual reporting to City Council



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# 2016 GHG INVENTORY



981,000 MT CO<sub>2</sub>e

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## HOW MUCH IS 981,000 METRIC TONS OF GREENHOUSE GASES?

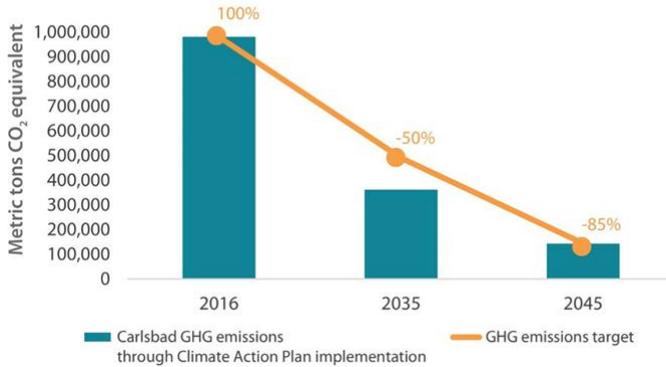
**110 million gallons**  
of gasoline consumed

**218 thousand passenger vehicles**  
driving continuously for one year

**48 thousand garbage trucks**  
of waste recycled instead of landfilled

**124 thousand households**  
electricity use for one year

# CAP REDUCTION TARGETS



From 2016 emissions:

- 50% below by 2035 (aligns with GP buildout)
- 85% below by 2045

Meet 2045 reduction targets exactly!



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# CAP MEASURES

- Leveraged as many existing actions as possible
- Each measure includes information seen here →
- 2 water measures:
  - Wastewater System Improvements
  - Water System Improvements

MEASURE W-2: Water System Improvements

EXISTING

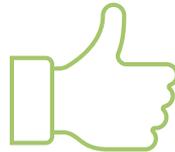
GHG Reductions	Implementation Details
<ul style="list-style-type: none"> <li>▶ 2035: 1,516 MTCO<sub>2</sub>e</li> <li>▶ 2045: 1,583 MTCO<sub>2</sub>e</li> </ul>	<ul style="list-style-type: none"> <li>▶ Timing: Ongoing</li> <li>▶ Lead Department: Utilities</li> </ul>
Monitoring Benchmarks	Data Needed to Monitor
<ul style="list-style-type: none"> <li>▶ By 2025: Supply recycled water pump stations with 100% renewable/carbon free electricity from Clean Energy Alliance</li> <li>▶ By 2035: Achieve the active and passive water conservation goals described in the Urban Water Management Plan (2020)                             <ul style="list-style-type: none"> <li>▪ 2,295 acre feet (AF) within CMWD service area and 2,981 AF within the entire city</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Water energy usage data</li> </ul>
Equity Considerations	Co-Benefits
<ul style="list-style-type: none"> <li>▶ Promote rebate and incentive programs (e.g., multi-family, low-income)</li> </ul>	<ul style="list-style-type: none"> <li>▶ Improved water quality</li> </ul>

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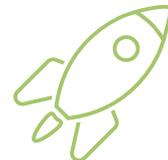
# CAP DASHBOARD



Annual reports lengthy, technical, hard to read



Wanted reporting to be more accessible



Dashboard launched July 2025

## City of Carlsbad Climate Action Plan

- Overview
- Energy**
- Transportation
- Carbon Sequestration & Waste Diversion
- Future Measures

### Energy

Energy use in homes and businesses, mainly from electricity and natural gas, makes up 41% of Carlsbad's emissions. By switching to cleaner energy sources, using less natural gas and making buildings more energy efficient, the city can reduce emissions and support a more sustainable future.

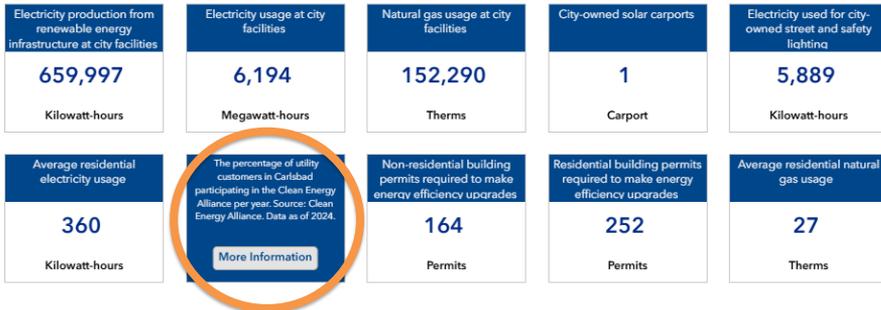
Electricity production from renewable energy infrastructure at city facilities <b>659,997</b> Kilowatt-hours	Electricity usage at city facilities <b>6,194</b> Megawatt-hours	Natural gas usage at city facilities <b>152,290</b> Therms	City-owned solar carports <b>1</b> Carport	Electricity used for city-owned street and safety lighting <b>5,889</b> Kilowatt-hours
Average residential electricity usage <b>360</b> Kilowatt-hours	<b>91%</b> Households & Businesses	Non-residential building permits required to make energy efficiency upgrades <b>164</b> Permits	Residential building permits required to make energy efficiency upgrades <b>252</b> Permits	Average residential natural gas usage <b>27</b> Therms

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No comprehensive adaptation plan, but included in Five Year Strategic Plan →

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ADAPTATION PLANNING

OBJECTIVE 3.1

**Research and evaluate a Climate Adaptation/Sustainability Plan to address the impacts of climate change, including but not limited to extreme heat, drought, erosion, flooding and wildfire.**



**Status: In Progress**

Conducted review of other adaptation plans. Federal and state guidance documents evaluated to determine plan components and applicability to the city.

**Next Steps:** Continue research and determine future actions.

# THANK YOU



Climate Action Plan + Dashboard

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