

# CITY OF CHINO



## 2024 Climate Action Plan Progress Report

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*April 2025*



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*The City has made  
significant progress in  
implementing the 2020-  
2030 CAP Update.*

## Overview

The City of Chino adopted a Climate Action Plan (CAP) in November 2013 to reduce greenhouse gas (GHG) emissions generated by community activities. Since the adoption of the City's 2013 CAP, the State of California (State) enacted new climate change regulations which implement statewide targets to reduce GHG emissions to 40% below the 1990 levels by 2030. To ensure conformity with the latest State climate change regulations, the 2013 CAP was updated with a new target year of 2030 and was approved by the City Council on November 17, 2020. The 2020-2030 CAP Update builds on the successes of the 2013 CAP and uses the analysis from the *San Bernardino Regional Greenhouse Gas Reduction Plan* Update (Regional Plan), completed in March 2014. The Regional Plan was a collaborative effort among the San Bernardino Council of Governments (SBCOG), 24 Partnership Cities, and the County of San Bernardino to develop regional GHG inventories and reduction measures to more effectively address GHG emissions and climate change in San Bernardino County.

The 2020-2030 CAP Update establishes a GHG reduction target of achieving 46% below 2008 emissions levels by 2030. This ambitious target is consistent with larger statewide objectives outlined under Senate Bill 32 (SB 32) and represents the City's commitment to reducing GHG emissions generated within the community. The emissions target will not be achieved overnight, nor will it be met through a single action. Rather, the CAP outlines 15 measures that will work in conjunction with State initiatives to improve energy efficiency, encourage resource conservative, and support sustainable practices that will lower GHG emissions and enhance community resiliency to climate change. A significant difference between the 2020-2030 CAP and the 2013 CAP is the methodology on how GHG reduction measures are calculated. An updated tracking tool has been developed to measure and track specific categories that include items such as re-roofs, installation of solar panels, upgraded HVAC systems, installation of LED streetlights and Electrical Vehicle (EV) charging stations. This tracking tool helps to provide a more accurate calculation of GHG reduction related to the implementation of the categories noted above. These methods of tracking are explained in greater detail below.

In order for the City to achieve its 2030 GHG reduction target, the City will need to reduce their emissions by 41,131 metric tons carbon dioxide equivalent (MTCO<sub>2</sub>e). Within the first four years of implementation of the 2020-2030 CAP Update, the City has reduced their GHG emissions by 31,253 metric tons carbon dioxide equivalent (MTCO<sub>2</sub>e), which is approximately 75% of the GHG reduction target goal (see Figure 1). Significant progress was made by the City in implementing all 15 local GHG reduction measures in the following sectors: Energy, Renewable Energy, On-Road Transportation,

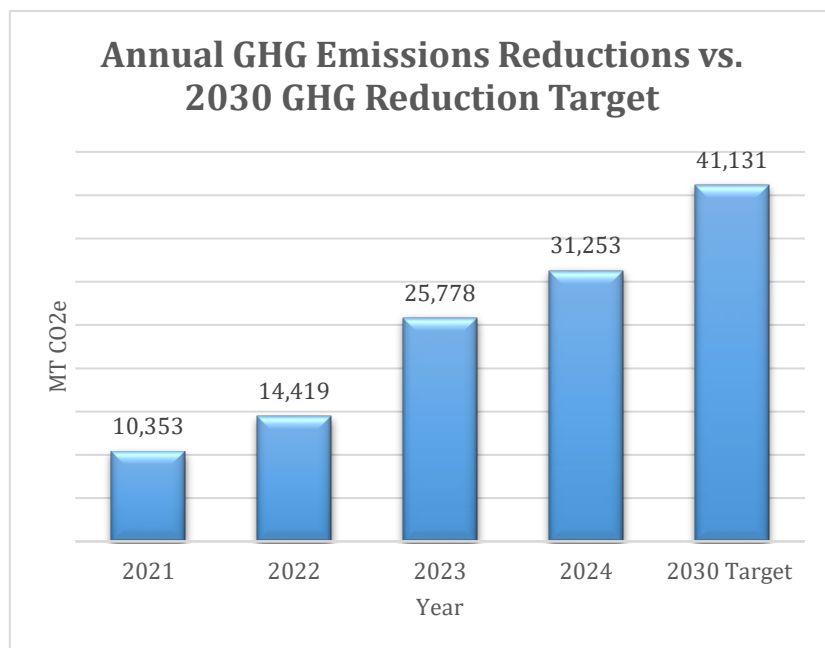
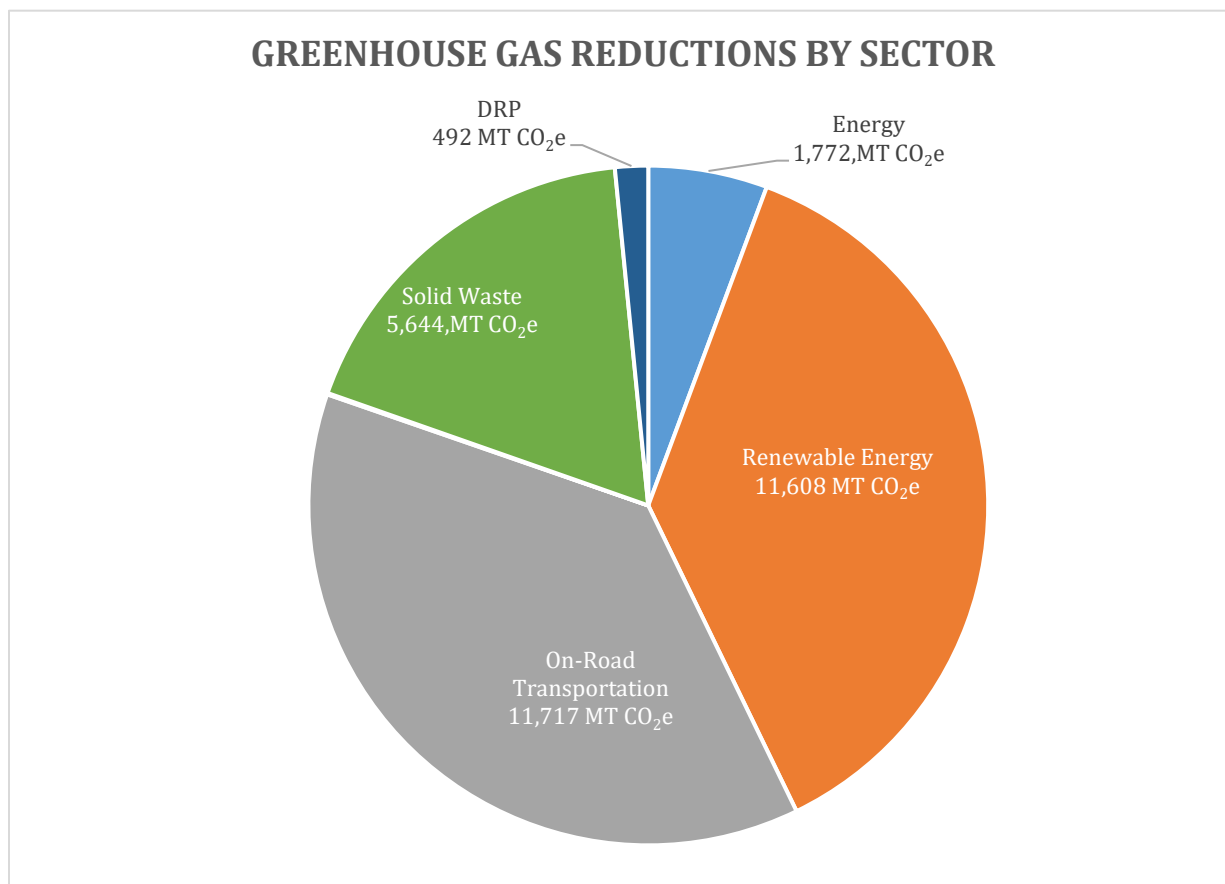


Figure 1. Annual Greenhouse Gas Emission (GHG) Reductions Compared to 2030 GHG Reduction Target

Solid Waste, Wastewater Treatment, Water Conveyance, and Design Review Process (DRP) for New Development. On-Road Transportation reduction measures contributed to the most (37%) overall GHG reduction in the City for year 2024, while DRP for New Development contributed the least (2%) (see Figure 2). The GHG reduction measures listed in Wastewater Treatment and Water Conveyance sectors are unquantifiable in tracking the amount of GHG reduction; therefore, were not included in the pie chart below.



*Figure 2. Greenhouse Gas Reductions by Sector*

The progress report outlines the current status of each measure identified in the City's 2020-2030 CAP. Metrics have been established for all measures to track implementation progress more specifically. The sector summaries on the following pages identify each measure, the tracking metric, and emission reductions achieved to-date, as available. The progress report concludes with a summary of actions that need to be taken during the next tracking year to adaptively manage the CAP and encourage additional emissions reduction.



## Energy Efficiency



The 2020-2030 CAP identifies four GHG reduction measures to improve energy efficiency throughout the City. These measures include retrofitting existing buildings to become more energy efficient, outdoor lighting upgrades, and public outreach and education about energy efficiency and incentive programs. Emission reductions achieved by the measures represent 6% of total GHG reductions achieved by the City in 2024. Equally important, the measures provide a number of community co-benefits, including increased energy efficiency while reducing demand, sustainability education and awareness, and improved air quality and public health.

### 2024 Highlights

- A total 261 homes were renovated.
- A total of 267,523 square feet of commercial space was renovated.
- The City upgraded 408 streetlights to LED.

### Progress Update

| Measure   | Tracking Metric(s)                            | Status             | Metrics       |                | Reductions (MTCO <sub>2e</sub> ) |                | Percent of 2030 Target |
|---|---|--------------------|---------------|----------------|----------------------------------|----------------|------------------------|
|   |   |                    | 2030 Target   | Achieved       | 2030 Target                      | Achieved       |                        |
| <i>Energy-1 thru 3.<br/>Energy efficiency incentives and programs to promote energy efficiency for existing buildings</i> | <i>Homes retrofitted</i>                      | <i>In progress</i> | <i>1,000</i>  | <i>261</i>     | <i>2,686</i>                     | <i>156.02</i>  | <i>6%</i>              |
|   | <i>Commercial square footage retrofitted</i>  | <i>In progress</i> | <i>70,000</i> | <i>267,523</i> | <i>1,758</i>                     | <i>1332.53</i> | <i>76%</i>             |
| <i>Energy-4<br/>Outdoor lighting upgrades for existing development</i>  | <i>Percentage of outdoor LED streetlights</i> | <i>In progress</i> | <i>100%</i>   | <i>142%</i>    | <i>200</i>                       | <i>283.64</i>  | <i>142%</i>            |
| MTCO <sub>2e</sub> = carbon dioxide equivalent  |   |                    |               |                |                                  |                |                        |
| <sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030.     |   |                    |               |                |                                  |                |                        |

# Renewable Energy



The 2020-2030 CAP identifies two GHG reduction measures to improve renewable energy throughout the City. These measures include public outreach and education, incentive programs, and retrofitting existing residential homes, commercial buildings, and industrial buildings for solar installations. Emission reductions achieved by this measure represent 37% of total reductions achieved by the City in 2024. Equally important, the measures provide a number of community co-benefits, including increased

energy efficiency while reducing demand, improved air quality and public health, and increased renewable energy.

## 2024 Highlights

- Photovoltaic (PV) solar panels totaling 6,216 kilowatts (kW) of capacity were installed on existing residential homes, existing commercial, and existing industrial buildings.

## Progress Update

| Measure   | Tracking Metric(s)        | Status             | Metrics       |              | Reductions (MTCO <sub>2e</sub> ) |                 | Percent of 2030 Target Achieved <sup>a</sup> |
|---|---------------------------|--------------------|---------------|--------------|----------------------------------|-----------------|--|
|   |                           |                    | 2030 Target   | Achieved     | 2030 Target                      | Achieved        |  |
| <i>Energy-5 Renewable Energy installation on existing residential</i>   | <i>kW of solar panels</i> | <i>In progress</i> | <i>23,794</i> | <i>1,839</i> | <i>8,687</i>                     | <i>9,113.75</i> | <i>105%</i>                                  |
| <i>Energy 6 Renewable Energy installation on existing commercial/ industrial</i>                                      | <i>kW of solar panels</i> | <i>In progress</i> | <i>N/A</i>    | <i>4,377</i> | <i>N/A</i>                       | <i>2,494.19</i> | <i>N/A</i>                                   |
| MTCO <sub>2e</sub> = metric tons of carbon dioxide equivalent   |                           |                    |               |              |                                  |                 |  |
| <sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030. |                           |                    |               |              |                                  |                 |  |

## On-Road Transportation



The 2020-2030 CAP identifies four GHG reduction measures for on-road transportation. These measures include educating City staff on ride sharing programs, reducing vehicle miles traveled (VMT) by expanding and improving bicycle and pedestrian infrastructure, expanding the Smart Signal system of LED traffic lights, and providing community based electric vehicle (EV) charging stations. Emission reductions achieved by these measures represent 37% of total GHG reductions achieved by the City in 2024. Equally important, the measures provide a number of community co-benefits, including improved air quality and public health, road and bicycle safety,

and increased non-motorized transportation.

### 2024 Highlights

- A total of 15 EV charging stations were installed.
- 0.8 miles of bicycle lanes dedicated with 10 secure bike racks were installed.
- The City replaced 5 traffic signals with LED smart signalization.

### Progress Update

| Measure  | Tracking Metric(s)  | Status             | Metrics        |                                      | Reductions (MTCO <sub>2e</sub> ) |                 | Percent of 2030 Target Achieved <sup>a</sup> |
|--|---|--------------------|----------------|--------------------------------------|----------------------------------|-----------------|--|
|  |   |                    | 2030 Target    | Achieved                             | 2030 Target                      | Achieved        |  |
| <i>On-Road-1 Employee training</i>   | <i>Training Sessions</i>  | <i>In progress</i> | <i>N/A</i>     | <i>N/A</i>                           | <i>N/A</i>                       | <i>N/A</i>      | <i>N/A</i>                                   |
| <i>On-Road 2 LED Traffic signals synchronized to TDM System.</i>   | <i>Number of signals replaced &amp; synchronized.</i>                   | <i>In progress</i> | <i>155</i>     | <i>5</i>                             | <i>2,797</i>                     | <i>1.21</i>     | <i>&gt;1%</i>                                |
| <i>On Road-3 Bicycle, and pedestrian infrastructure</i>  | <i>Miles of bike lanes, sidewalks, number of bike racks, crosswalks</i> | <i>In progress</i> | <i>8 miles</i> | <i>0.8 miles &amp; 10 bike racks</i> | <i>3,047</i>                     | <i>57.50</i>    | <i>2%</i>                                    |
| <i>On-Road-4 Electric Vehicle Charging stations</i>  | <i>Number of EV charging stations</i>                                   | <i>In progress</i> | <i>50</i>      | <i>15</i>                            | <i>6,591</i>                     | <i>1,766.41</i> | <i>27%</i>                                   |
| MTCO <sub>2e</sub> = metric tons of carbon dioxide equivalent  |   |                    |                |                                      |                                  |                 |  |
| <sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030 |   |                    |                |                                      |                                  |                 |  |



# Solid Waste Generation



The 2020-2030 CAP identifies one GHG reduction related to solid waste. This measure consisted of meeting a 50% diversion goal in 2020 and increasing that to 70% by 2030. Emission reductions achieved by this measure represent 18% of total GHG reductions achieved by the City in 2024. Equally important, the measures provide a number of community co-benefits, including resource conservation, and improved air quality and public health.

## 2024 Highlights

- The City almost met the near term (2020) goal of 50% diversion in 2023 and is continuing to increase recycling within the City toward the 2030 goal of 70% diversion.

## Progress Update

| Measure  | Tracking Metric(s)  | Status             | Metrics                            |              | Reductions (MTCO <sub>2</sub> e) |              | Percent of 2030 Target Achieved <sup>a</sup> |
|--|---|--------------------|------------------------------------|--------------|----------------------------------|--------------|--|
|  |   |                    | Target                             | Achieved     | 2030 Target                      | Achieved     |  |
| <i>Solid Waste-1 Diversion goals</i>   | <i>Percent of recycled materials diverted from the land fill.</i> | <i>In progress</i> | <i>50 % by 2020<br/>70% by2030</i> | <i>49.5%</i> | <i>15,111</i>                    | <i>5,644</i> | <i>37%</i>                                   |
| MTCO <sub>2</sub> e = metric tons of carbon dioxide equivalent   |   |                    |                                    |              |                                  |              |  |
| <sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030 |   |                    |                                    |              |                                  |              |  |

# Water Conveyance



The 2020-2030 CAP identifies two water conservation measures. These measures include promoting and educating the public on water efficiency, water conservation programs, and water efficient landscaping practices to property owners, residents, and businesses throughout Chino. Efforts made by City staff as highlighted in bullets below contributed to the City's overall reduction in GHG emissions, even if staff's efforts are unquantifiable in tracking the amount of GHG reduction. Equally important, the measures provide a number of community co-benefits, including conserving portable

water supplies, and improved air quality and public health.

## 2024 Highlights

- Promoted water efficiency practices through social media and cable news outlets.
- Offered Chino residents direct install weather-based irrigation timers free of charge.
- City installed underground soil monitoring systems at various City parks.
- The City transitioned the police department site to drought-tolerant landscaping.

## Progress Update

| Measure  | Tracking Metric(s)                   | Status             | Metrics         |          | Reductions (MTCO <sub>2</sub> e) |          | Percent of 2030 Target Achieved <sup>a</sup> |
|--|--------------------------------------|--------------------|-----------------|----------|----------------------------------|----------|--|
|  |                                      |                    | 2030 Target     | Achieved | 2030 Target                      | Achieved |  |
| <i>Water-1 and Water-2 Promote and educate water efficiency, water conservation, water efficient landscaping to residents, businesses, and property owners.</i>  | <i>Public outreach and education</i> | <i>In progress</i> | -- <sup>b</sup> | N/A      | -- <sup>b</sup>                  | N/A      | N/A  |
| MTCO <sub>2</sub> e = metric tons of carbon dioxide equivalent<br><sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030<br><sup>b</sup> The measures in the 2020-2030 CAP Update only had the City promoting water conservation and did not quantify the number of water conservation retrofits or GHG emissions reduced. |                                      |                    |                 |          |                                  |          |  |

# Wastewater Treatment



The 2020-2030 CAP identifies one wastewater measure. The measure includes working with Inland Empire Utilities Agency (IEUA) to identify new locations for recycled water, and public outreach and education. Efforts made by City staff as highlighted in bullets below contributed to the City’s overall reduction in GHG emissions, even if staff’s efforts are unquantifiable in tracking the amount of GHG reduction. Equally important, the measure provides a number of community co-benefits, including conserving water supplies, and improved air quality and public health.

## 2024 Highlights

- Water use efficiency and rebate program incentives are provided through the *Champion* newspaper and customer utility billing inserts.
- The City tracks rebate programs for turf replacement and other water efficiency programs offered by Monte Vista Water District and Inland Empire Utility Agency.

## Progress Update

| Measure  | Tracking Metric(s)                   | Status             | Metrics         |          | Reductions (MTCO <sub>2</sub> e) |          | Percent of 2030 Target Achieved <sup>a</sup> |
|--|--------------------------------------|--------------------|-----------------|----------|----------------------------------|----------|--|
|  |                                      |                    | Target          | Achieved | Target                           | Achieved |  |
| <i>Wastewater-1<br/>Promote and encourage recycled water consumption by residential, commercial, and industrial users.</i>   | <i>Public outreach and education</i> | <i>In progress</i> | -- <sup>b</sup> | N/A      | -- <sup>b</sup>                  | N/A      | N/A  |
| MTCO <sub>2</sub> e = metric tons of carbon dioxide equivalent<br><sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030<br><sup>b</sup> The measures in the 2020-2030 CAP Update only had the City promoting water conservation and did not quantify the number of water conservation retrofits or GHG emissions reduced. |                                      |                    |                 |          |                                  |          |  |

## GHG Performance Standard for New Development



The 2020-2030 CAP identifies one Development Review Process (DRP) measure that requires new development projects not exempt from the California Environmental Quality Act (CEQA) to fill out a screening table, demonstrating compliance with the 2020-2030 CAP. Screening tables are a menu of options of energy efficiency improvements, renewable energy options, water conservation measures, and other options that provide predictable GHG reductions. Each option within the screening tables is given a point value. Developers who choose options from the screening tables totaling 100 points or more will be determined to

have provided a fair-share contribution of GHG reductions; therefore, consistent with the 2020-2030 CAP. Equally important, the measure provides a number of community co-benefits, including increased energy efficiency while reducing energy demands, increased renewable energy, enhanced land use and community design, and increased non-motorized transportation.

### 2024 Highlights

- One new development application was required to use the GHG Screening Tables.

| Measure                               | Tracking Metric(s)   | Status             | Metrics     |          | Reductions (MTCO <sub>2</sub> e) |          | Percent of 2030 Target Achieved <sup>a</sup> |
|---------------------------------------|--|--------------------|-------------|----------|----------------------------------|----------|--|
|                                       |  |                    | 2030 Target | Achieved | 2030 Target                      | Achieved |  |
| <i>DRP-1 GHG Performance Standard</i> | <i>Number of new development applications using the Screening Tables</i> | <i>Not Started</i> | 25          | 1        | 6,051                            | 491.6    | 8%   |

MTCO<sub>2</sub>e = metric tons of carbon dioxide equivalent

<sup>a</sup> To keep on track each year should show 11% of the 2030 Target achieved, increasing each year until 2030

## Looking Ahead

While the City has made significant progress towards its 2030 GHG reduction target by completing approximately 75% of its 2030 goal as of 2024, much work still remains to be done. Climate change and our understanding of local effects are constantly evolving. Adaptively managing the 2020-2030 CAP to respond to new information is therefore necessary to ensure programs are functioning effectively and the City continues to advance as a climate change leader. Annually, staff will continue to monitor the progress and effectiveness of each measure and modify the measures, as needed, to maximize GHG emissions reduction for years to come. As the 2020-2030 CAP comes to near end, the CAP will be updated with new and revised measures that will help the City further reduce the amount of GHG emissions to achieve statewide carbon neutrality by year 2045(Executive Order EO B-55-18).