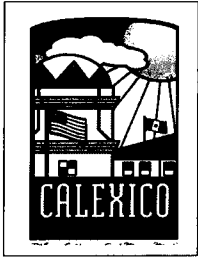


**AGENDA  
ITEM**

**14**



# AGENDA STAFF REPORT

**DATE:** June 2, 2021

**TO:** Mayor and City Council

**APPROVED BY:** Miguel Figueroa, City Manager *MK*

**PREPARED BY:** Lilliana Falomir, Public Works Manager – Administrative *L. Falomir*

**SUBJECT:** Imperial County Climate Action Plan - City of Calexico

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**Recommendation:**

This item is for information purpose only.

**Background:**

The Imperial County Transportation Commission (ICTC) developed the Imperial Valley Regional Climate Action Plan (Regional CAP) through funding from the Southern California Association of Governments (SCAG). The purpose of the Regional CAP is to address the impacts of climate change and reduce greenhouse gas (GHG) emissions in the Imperial Valley region which includes the County of Imperial (County) and the cities of Brawley, Calexico, Calipatria, Holtville, El Centro, Imperial, and Westmorland. The Regional CAP is consistent with and complementary to statewide legislation and regulation, and establishes local strategies, measures, and actions aimed at reducing GHG emissions.

Calexico adopted a Climate Action Plan in 2015, which includes strategies to reduce GHG emissions consistent with Assembly Bill (AB) 32. The inventory, forecasts, and targets identified in the Regional CAP are intended to support an update to Calexico’s current Climate Action Plan and recommend GHG reduction measures to incorporate into an update. These updates would help Calexico align with more recent State reduction targets and goals.

**Discussion & Analysis:**

ICTC shared the Draft Regional CAP in March 2021 with all jurisdictions for review. A consultant team led by Ascent developed the Draft Regional CAP. The Regional CAP includes each local agency’s inventory, forecast, targets, and proposed GHG reduction measures.

The City of Calexico’s baseline inventory year is 2005. All targets are

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set relative to this year. The CAP also includes a 2018 inventory that provides a current estimate of GHG emissions and demonstrates the progress the City has made in reducing GHG emissions. A legislatively-adjusted business-as-usual (BAU) forecast was conducted, accounting for anticipated growth in the City as well as state and federal legislations that affect such standards as vehicle emissions and fuel economy and energy efficiency in new construction. The 2030 and 2050 targets were developed in line with the California Air Resources Board’s 2017 Climate Change Scoping Plan, which is the state’s plan to meet its goal of reducing emissions to 40% below 1990 levels by 2030 and show progress towards 80% below 1990 levels by 2050. The 2017 Scoping Plan has varying targets depending on the emissions sector. For example, the Scoping Plan targets up to a 72 percent reduction from 1990 levels for the electricity sector, and an 8 percent reduction from 1990 levels for the agricultural sector by 2030. These sector-specific targets were weighted by the Calexico’s emissions in each sector and also adjusted to be relative to 2005 levels, based on the state’s 2005 emissions.

The results are summarized in Table 1.

Table 1: City of Calexico GHG Inventory and Forecasts

<i>Metric Tons CO<sub>2e</sub></i>	Inventory		Legislatively-Adjusted Forecast	
	2005	2018	2030	2050
Energy	158,790	86,845	72,617	24,076
Transportation	97,757	96,471	88,605	96,300
Water	10,151	8,679	8,720	12,003
Solid Waste	24,474	25,479	32,913	45,303
Agriculture	2,020	2,284	2,249	2,247
Total	293,192	219,758	205,105	179,929
Percent from 2005		-25%	-30%	-39%
Calexico Target (Percent from 2005)			-40%	-64%
GHG Reductions Needed			28,077	75,087

As shown in Table 1, Calexico needs to reduce another 28,077 MTCO<sub>2e</sub> by 2030 and 75,087 MTCO<sub>2e</sub> by 2050. This is equivalent to reducing 2018 emissions by another 12% and 34%, respectively.

The CAP proposes 46 measures, 24 of which have associated reductions quantified. These measures address reductions across the transportation, energy, solid waste, and agricultural sectors and result in a total reduction of 44,793 MTCO<sub>2e</sub> from the forecasted legislatively-adjusted BAU emissions in 2030 and 36,326 MTCO<sub>2e</sub> in 2050. Reductions are lower in 2050 primarily due to the proposed zero carbon electricity measure (E-2.6),

which would no longer have reductions in 2050 relative to the BAU as the state is required to achieve a carbon neutral electric grid by 2045 under Senate Bill 100.

Table 2 shows that the proposed measures under the CAP would help the City exceed the GHG reductions needed to meet the City’s 2030 targets. However, additional reductions are needed to meet the 2050 targets.

Table 2: City of Calexico GHG Reductions under CAP

<i>Metric Tons CO<sub>2</sub>e</i>	2030	2050
Transportation Measures	5,168	6,225
Energy Measures	36,175	20,450
Waste Measures	2,548	7,644
Agriculture Measures	903	2,008
Total Reductions	44,793	36,326
Reductions Needed	28,077	75,087
Gap (Exceedance)	(16,717)	38,761

A coordinated, multi-jurisdictional effort is important to address climate change as climate action requires communities working together to reduce GHG emissions. The Regional CAP recognizes the shared nature of the challenge of combating climate change and the varying capacity of individual jurisdictions to achieve GHG emissions goals. The Regional CAP identifies GHG reduction strategies and measures that would be implemented on a regional level as well as jurisdiction-specific measures that would further reduce local GHG emissions. The Regional CAP will also assist the region in securing funding for sustainable and transportation projects, provide opportunities to streamline the process to approve projects, and achieve community goals requiring regional investment and participation.

**Fiscal Impact:**

No fiscal impact at this time.

**Coordinated With:**

Imperial County Transportation Commission.  
Public Works Department.

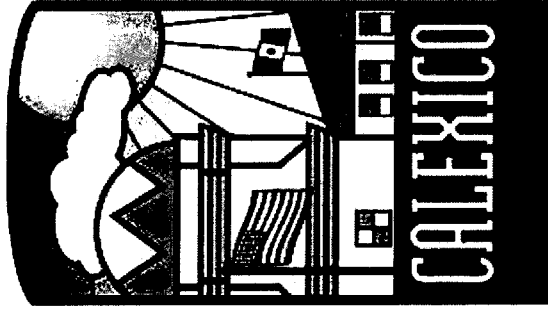
**Attachment:**

1. Regional CAP Presentation for the City of Calexico

# Imperial County Regional Climate Action Plan

*City of Calexico*

**ASCENT**  
ENVIRONMENTAL



*"Where Calypsoes and Movers Meet"*

JUNE 2021



# Agenda

CAP Background	CAP Overview	Proposed GHG Measures
Climate Change Science State Targets and Legislation	Purpose Inventory and Forecast Locally-Specific Targets	Summary of Measures by Sector and Quantified Reductions





# Climate Action Plan Background

## Climate Change and the Imperial Valley

Climate change: unnatural warming of Earth's climate due to increased GHG emissions.

Disruption of precipitation and temperature affecting reliability of water supply and longer heat waves

## State Targets and Legislation

Senate Bill 32 and Executive Order S-3-05 : Reduce statewide emissions to 40% below 1990 levels by 2030 and 80% below 1990 levels by 2050.

Local governments encouraged to reduce their GHG emissions to help meet statewide goals





# CAP Overview

ASCENT

## Purpose of the CAP

Develop a plan for reducing GHG emissions, measuring progress, and improving quality of life for residents.

Align city's CAP efforts with regional efforts to support GHG reduction

Support State GHG reduction goals







## CAP Overview

ASCENT

### Planned Updates to the Draft CAP

Adjusted agricultural emissions (Scaled by agricultural acres instead of jobs)

Resulted in the unincorporated County accounting for a greater proportion of regional emissions

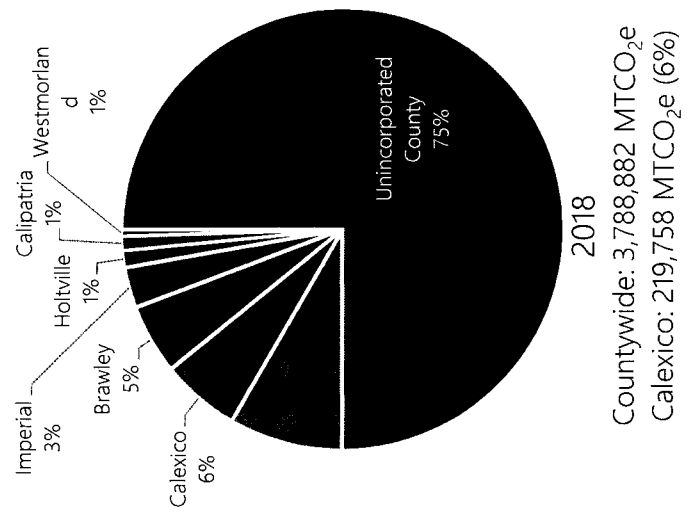
Adjusted GHG reduction measure assumptions and made minor calculation corrections

Addressed stakeholder comments



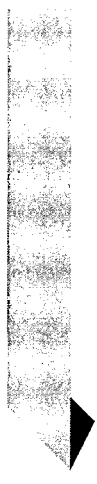
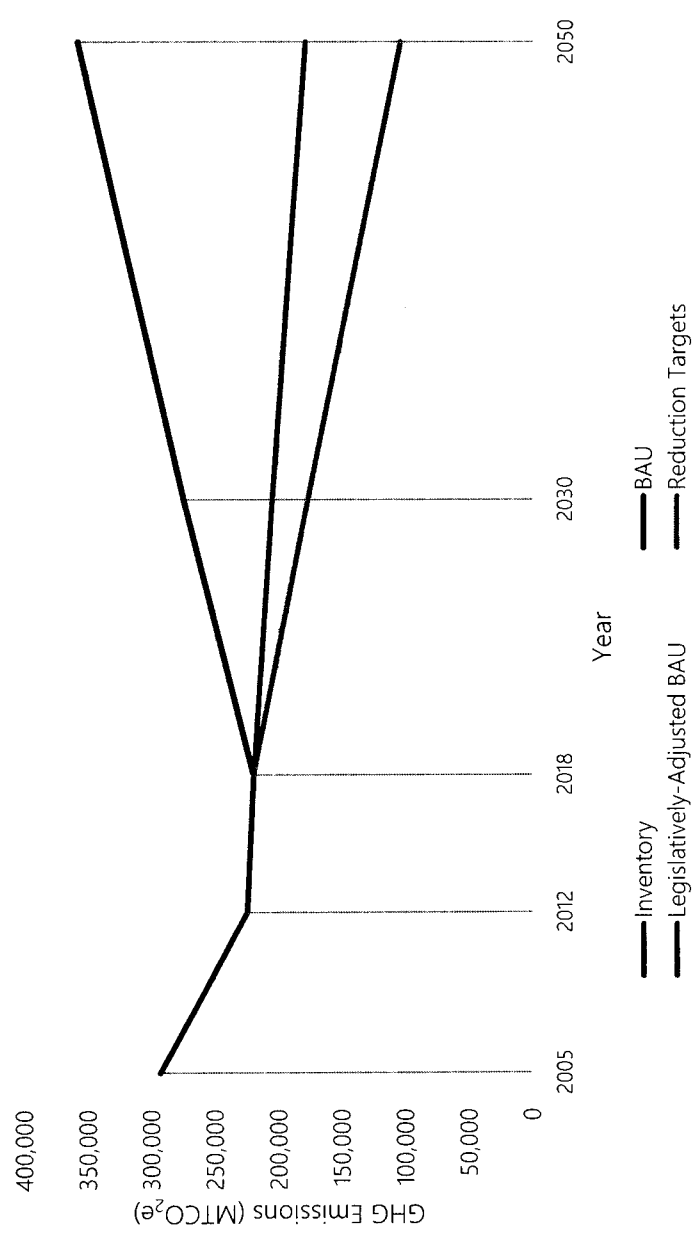
# City of Calexico GHG Inventory, Forecasts, and Targets

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# City of Calexico GHG Inventory, Forecasts, and Targets

- Legislatively-Adjusted BAU Forecasts include:**
- Title 24
  - RPS and SB 100
  - On-Road vehicle emissions and fuel economy standards (e.g., Advanced Clean Car standards)
  - Off-Road standards (e.g., diesel emission regulations for off-road construction equipment)





## GHG Reduction Measures

### GHG Reduction Measures in Numbers

46 Proposed Measures (24 Quantified Measures)

16 Energy Measures

15 Transportation Measures

9 Agricultural Measures

3 Water Measures

3 Solid Waste Measures

Total Reductions in 2030: 44,793 MTCO<sub>2</sub>e

Total Reductions needed in 2030: 28,077 MTCO<sub>2</sub>e





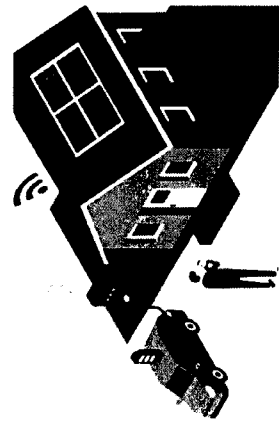
## GHG Reduction Measures

### Measure Considerations

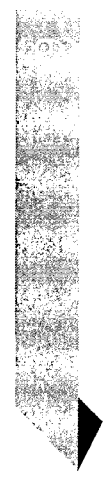
Measure effectiveness is highly dependent on individual variables, such as participation rates in agency-initiated programs

Examples:

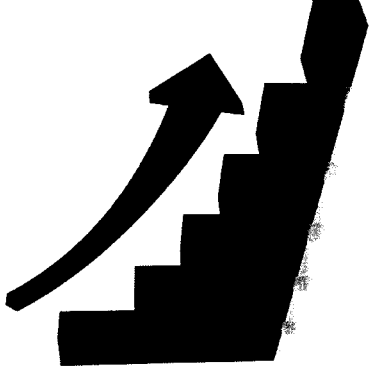
- Number of EV chargers to be installed in the City at non-residential developments (T-3.2)
- Percent of municipal energy use that would be offset by on-site solar (E-2.4)
- Percent of new and existing residential buildings that can be electrified (E-1.3)



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# GHG Reduction Measures – Gap Analysis



Metric Tons CO <sub>2</sub> e	2030	2050
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<b>Gap (Exceedance)</b>	<b>(16,717)</b>	<b>38,761</b>





# Thank You

*Any questions?*

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