

# Monterey County

Climate Action Plan- update

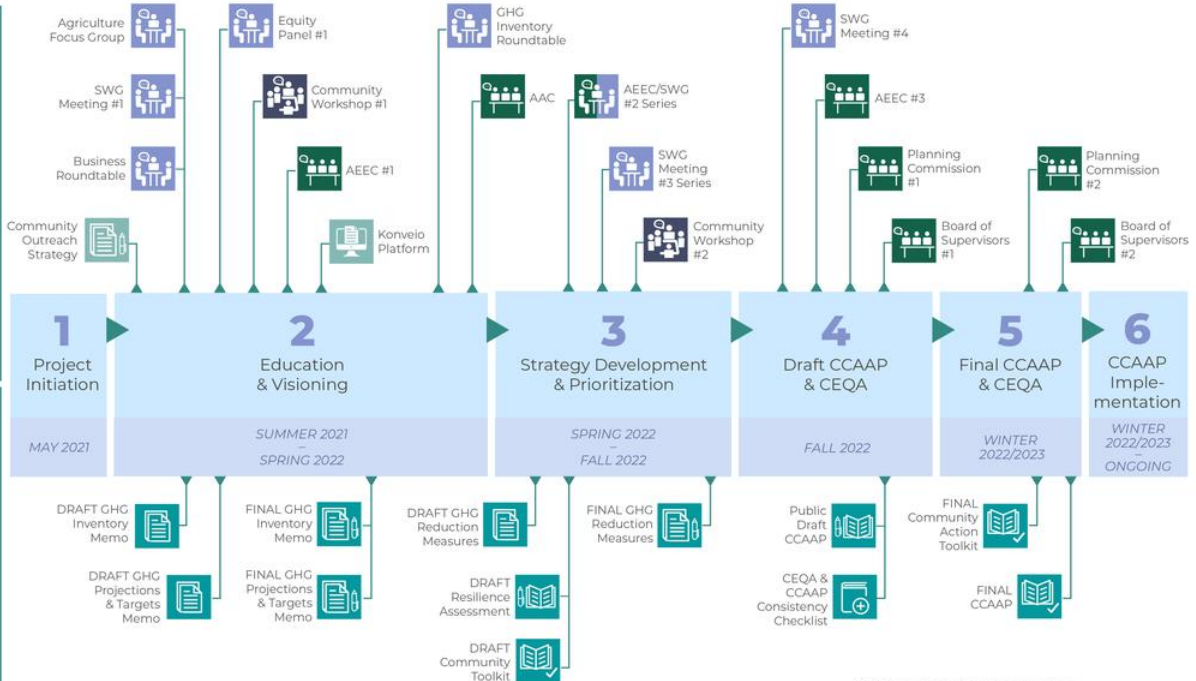
8/23/2022

# Background and Progress

- October 2020- General Plan Update- Requiring County to work diligently towards the adoption of a Climate Action Plan by the end of 2022
- Spring 2021- County awarded Funding for Plan; Consultant hired via RFP
- Fall 2021 –Emissions Inventory Released
- Spring 2022- Stakeholder Engagement on Inventory and Sequestration Analysis Completed
- Summer 2022- Strategy Brainstorm and Discussion underway

**OUTREACH/MEETINGS**

**CCAAP DEVELOPMENT**



**AAC:** Agricultural Advisory Committee  
**AEEC:** Alternative Energy and Environment Committee  
**SWG:** Sector Working Group  
**CCAAP:** Community Climate Action and Adaptation Plan  
**GHG:** Greenhouse Gas Emission



# Climate Action Plan Overview

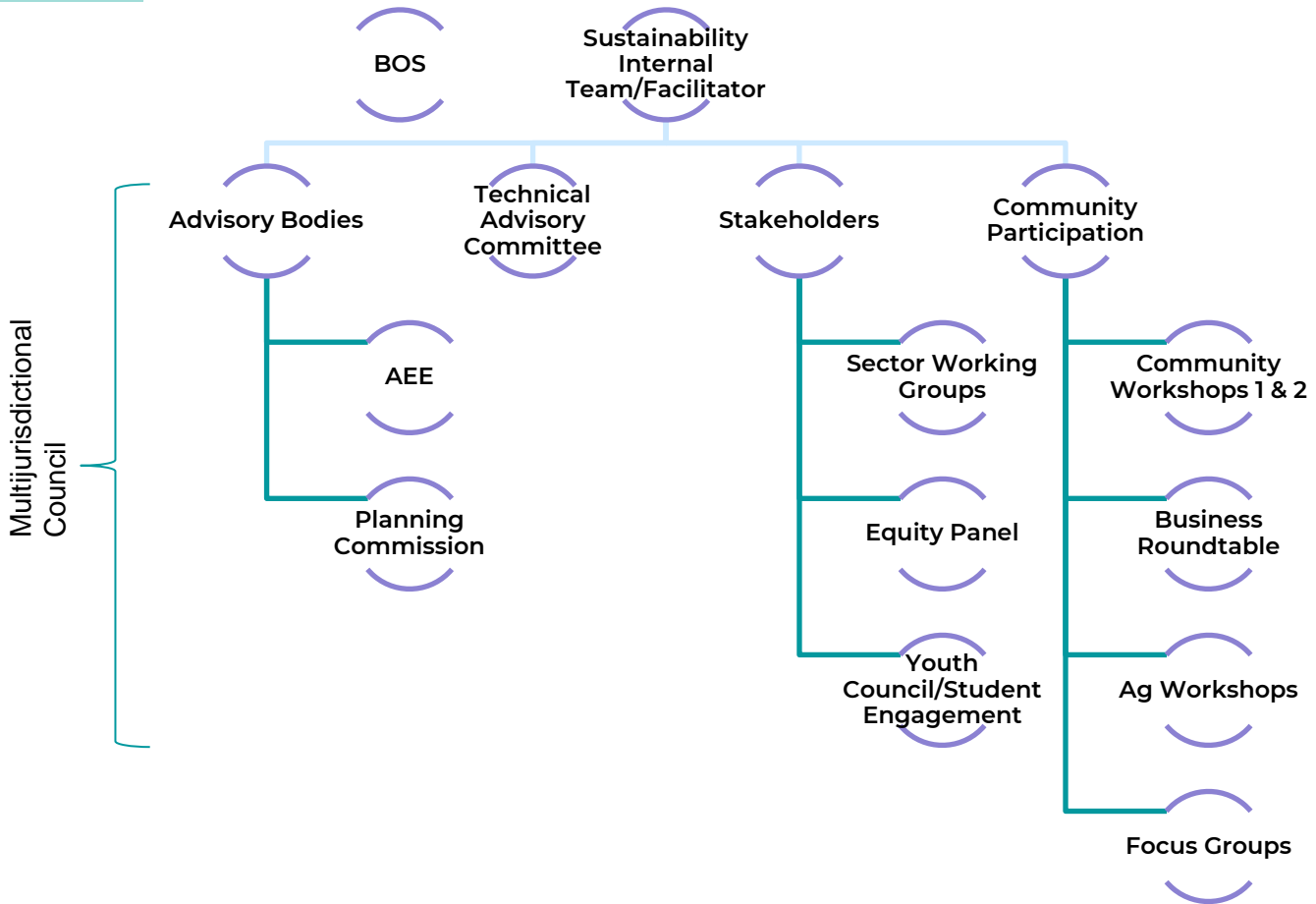
# What is a Climate Action Plan and Why is the County Creating One?

- A **roadmap** for reducing greenhouse gas (GHG) emissions
- Identifies **existing and projected** GHG emissions
- Sets **GHG reduction targets**
- Establishes **policies and actions** to meet reduction targets
- Integrates **climate adaptation and resilience strategies**
- Engages and empowers the **community**
- Provides an **implementation program**
- **Required by the General Plan**





# Public Engagement Process Overview



## Summary of Stakeholder Meetings

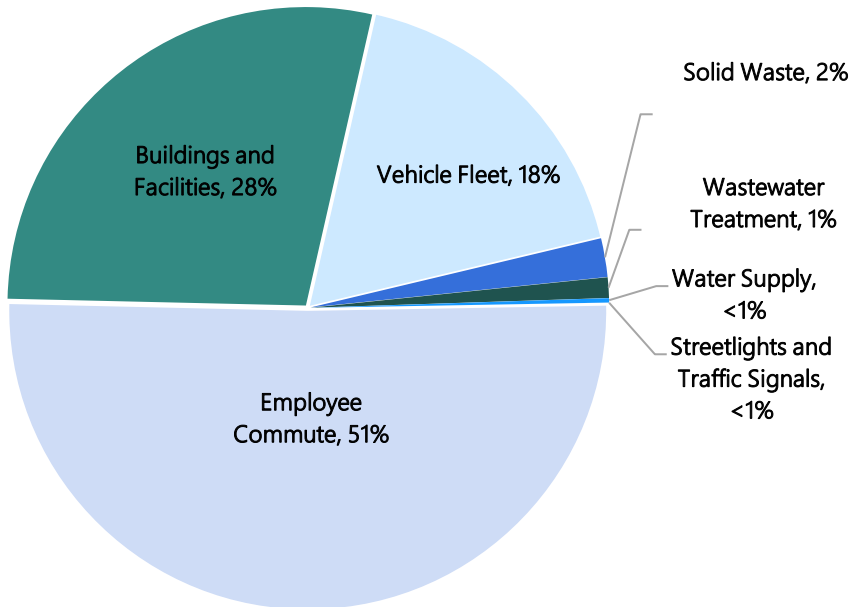
- Over 30 public and community meetings held to gather input on the formation of the Climate Action Plan
- More than 300 individuals and businesses/associations engaged





# **GHG Inventory**

# Municipal Climate Action Plan Update- 2019



## Most Effective Strategies Reducing Emissions from County Operations:

1. Telecommuting
2. Fleet Electrification
3. Building Decarbonization

# 2019 GHG Emissions – Countywide

Included Sectors	GHG Emissions (MTCO <sub>2</sub> e)	Percent of Total
On-Road Transportation (Interim)	479,174	44
Agriculture	266,917	24
Nonresidential Building Energy	170,639	16
Residential Building Energy	81,750	7
Solid Waste	69,724	6
Off-Road Vehicles and Equipment	17,616	2
Wastewater Treatment	15,586	1
Water Supply*	0	0
<b>Total</b>	<b>1,101,405</b>	<b>100</b>

\*Water supply emissions are included in building energy sectors based on available data

## Carbon Sequestration

(Refers to carbon sequestered on county lands on an annual basis)

Vegetation/Land Cover Type	Total Carbon Sequestration (MT C/year)	
	Minimum	Maximum
Agricultural Lands	1,075,984	3,417,295
Forests	67,309,374	179,108,621
Grasslands/Shrub lands	-83,799,829	106,870,905
Wetlands	14,676,880	22,530,323
Other Lands	1,183,370	1,281,410
Carbon Sequestration Total	444,779	313,208,553



**Next Steps**

## Next Steps

- Continued Strategy Discussion
- Community Workshop- September 29<sup>th</sup>- Marina Library
- Planned Community Workshop in Central Salinas Valley- Date- TBD
- Strategy Selection
- Draft of Plan Released for Comment

**Thank you!**

**End of Deck**





**Additional Slides**

# Public Engagement Process: Phase 1 – Education and Visioning

Activity	Date
County prepares Engagement Strategy	9/2/21
Agriculture GHG Methodology Meeting	10/14/21
Sector Working Group Meeting 1	10/21/21
Agriculture Focus Group	10/27/21
Business Roundtable	10/28/21
Community Workshop 1	11/16/21
AEEC	11/18/21
Youth Council (monthly)	9/21, 10/21, 11/21, 12/21

Activity	Date
Online Platform Launched	12/6/21
Equity Panel Meeting 1	12/10/21
GHG Inventory Report Released	1/10/22
Multijurisdictional Council Meetings	2/12/22 & 4/20/22
Agriculture Advisory Committee	2/24/22
AEEC	2/25/22
Agriculture Emissions and Sequestration Methodology Discussion (Held as AEEC)	6/22/22

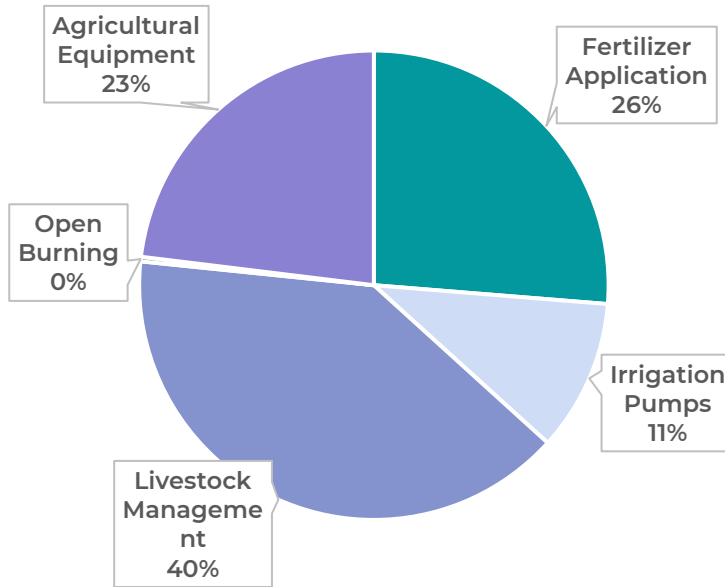
# Public Engagement Process: Phase 2– Strategy Formation and Discussion

Activity	Date
Buildings and Energy Strategy Brainstorm (AEEC)	5/5/22
Transportation and Land Use Strategy Brainstorm (AEEC)	5/6/22
Resource Consumption Strategy Brainstorm (AEEC)	5/26/22
Equity Panel Reflection	7/21/22
Crops Workshop (Industry Collaboration)	7/24/22
Vines Workshop (industry Collaboraton)	8/3/22
Buildings and Energy Strategy Discussion	8/10/22
Transportation and Land Use Strategy Discussion	8/11/22

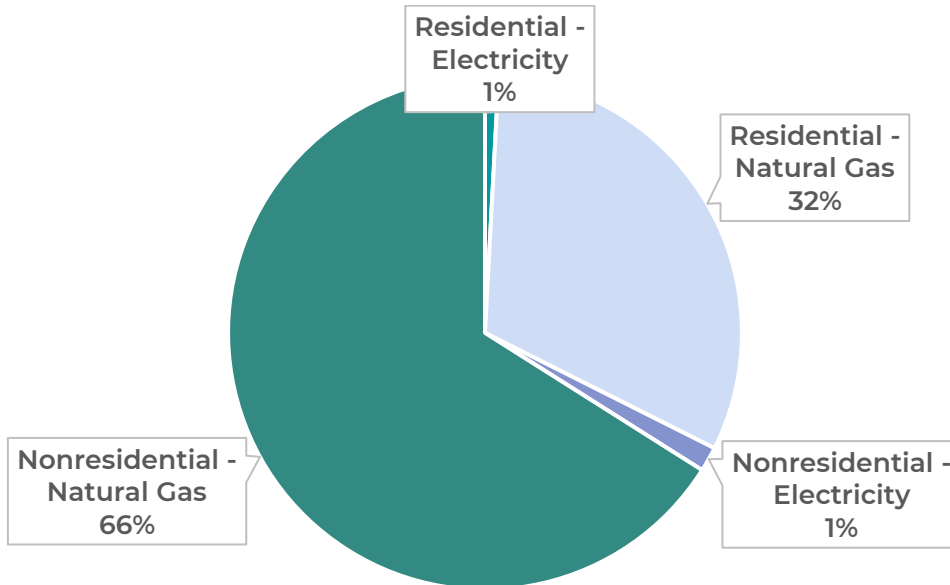
Activity	Date
Resource Consumption Strategy Discussion	8/17/22
Agriculture Brainstorm and Discussion	8/24/22
Cattle Workshop (Industry Collaboration)	9/22/22
Community Workshop	9/29/22

*Other Presentations-  
TAMC Board  
Monterey Peninsula Chamber of  
Commerce  
MC Hospitality Association  
Mayor's Meeting  
APA Conference*

Agricultural Activity	GHG Emissions (MTCO <sub>2</sub> e)
Livestock Management	106,512
Fertilizer Application	70,148
Agricultural Equipment	61,564
Irrigation Pumps	27,86
Open Burning	827
<b>Total</b>	<b>266,917</b>



Energy Source and Use	GHG Emissions (MTCO <sub>2</sub> e)
<b>Residential</b>	<b>81,750</b>
• <i>Electricity</i>	<i>2,137</i>
• <i>Natural Gas</i>	<i>79,613</i>
<b>Nonresidential</b>	<b>170,456</b>
• <i>Electricity</i>	<i>3,931</i>
• <i>Natural Gas</i>	<i>166,526</i>
<b>Total</b>	<b>252,206</b>



*Note: These are preliminary results*

# GHG Reduction Solutions

## LAND USE

- T-1. Increase Residential Density
- T-2. Increase Job Density
- T-3. Provide Transit-Oriented Development
- T-16. Improve Street Connectivity

## TRANSIT

- T-24. Extend Transit Network Coverage or Hours
- T-25. Increase Transit Service Frequency
- T-26. Implement Transit-Supportive Roadway Treatments
- T-27. Reduce Transit Fares



## Solid Waste

- S-1. Institute or Extend Recycling Services
- S-2. Implement Organics Diversion Program

## BUILDING DECARBONIZATION

- E-8. Utilize a Combined Heat and Power System
- E-11. Install Alternative Type of Water Heater in Place of Gas Storage Tank Heater in Residences
- E-12. Install Electric Ranges in Place of Gas Ranges
- E-13. Limit Wood Burning Devices and Natural Gas/Propane Fireplaces in Residential Development
- E-14. Require All-Electric Development
- E-15. Require Zero Net Energy Buildings
- E-16. Require Renewable-Surplus Buildings



## Natural and Working Lands

- N-1. Create New Vegetated Open Space
- N-2. Expand Urban Tree Planting
- N-3. Implement Management Practices to Improve the Health and Function of Natural and Working Lands
- N-4. Require Best Management Practices for Manure Management