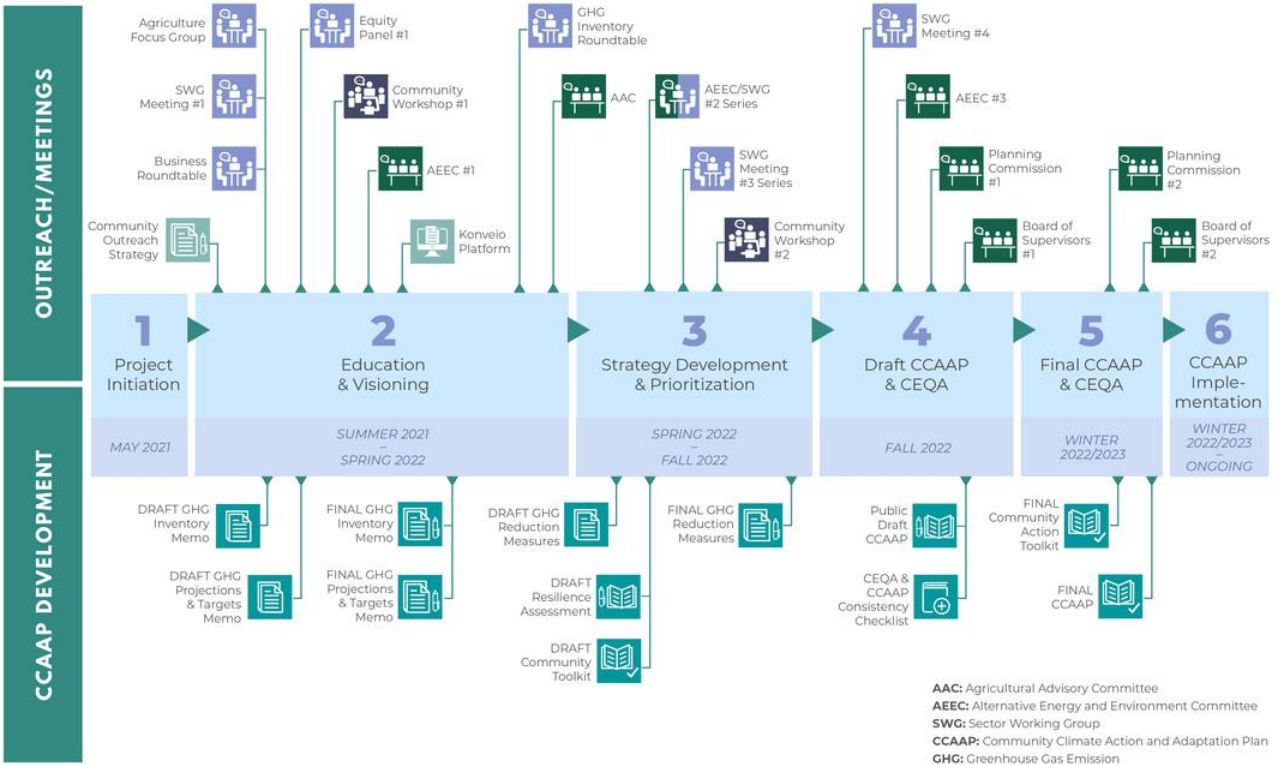
Monterey County

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



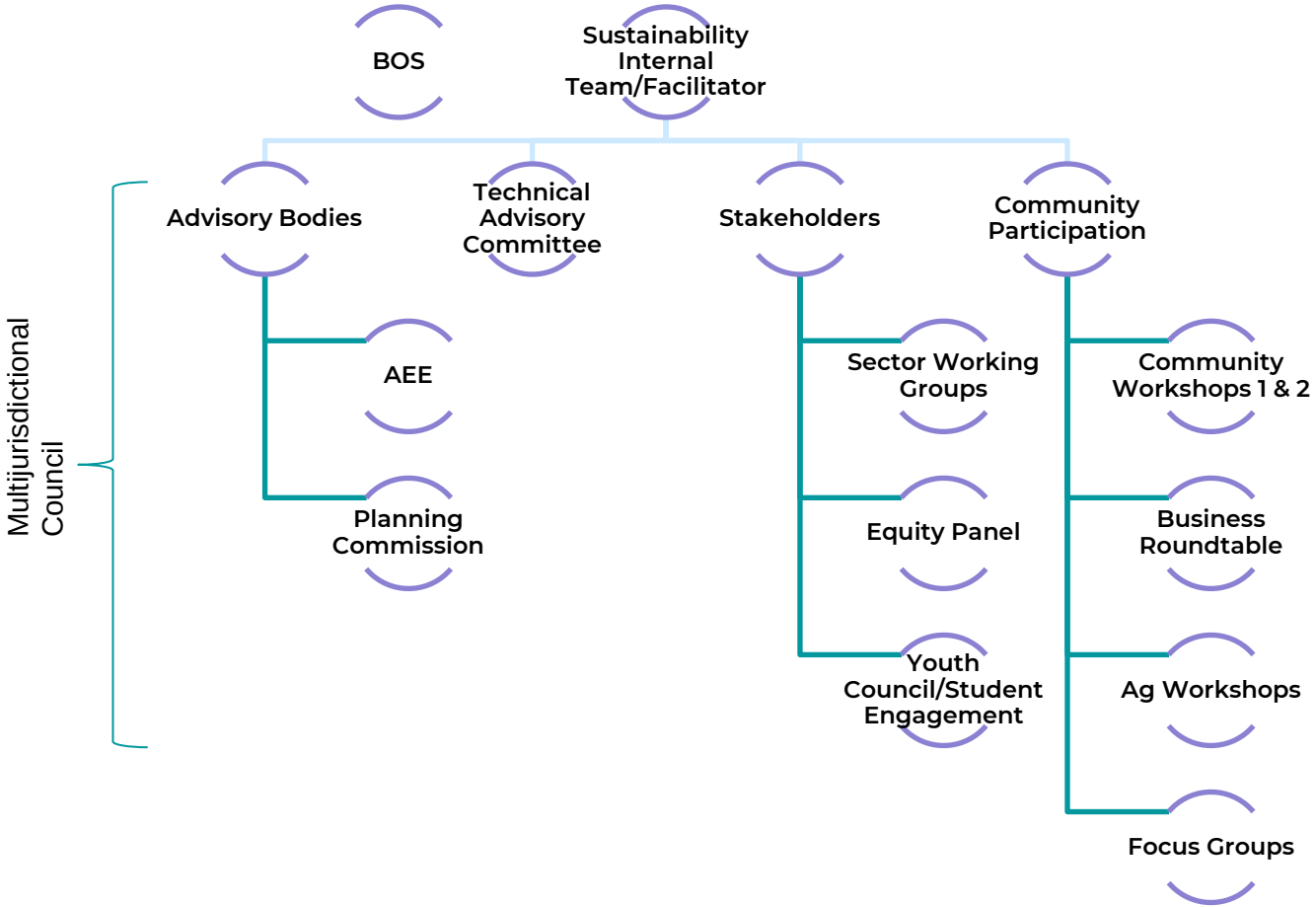
AAC: Agricultural Advisory Committee
AEEC: Alternative Energy and Environment Committee
SWG: Sector Working Group
CCAAP: Community Climate Action and Adaptation Plan
GHG: Greenhouse Gas Emission

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

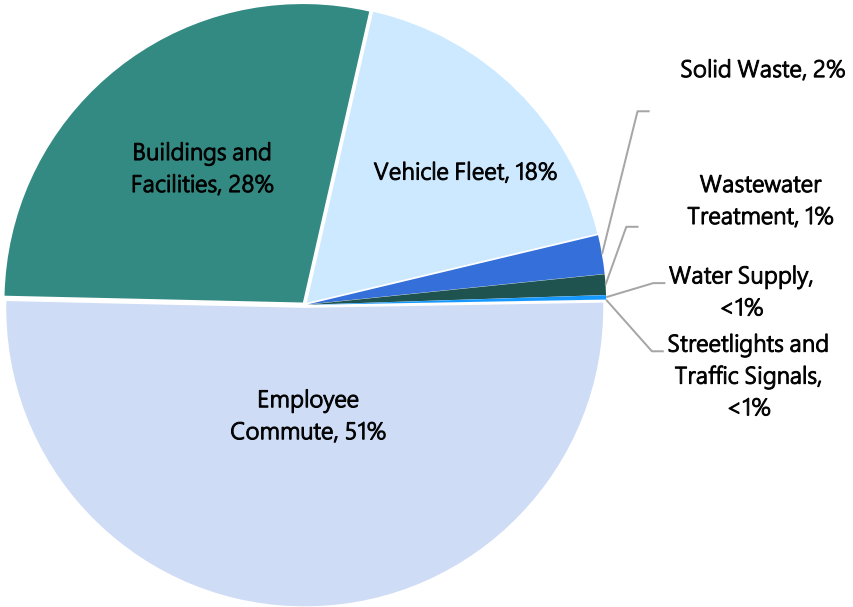

BOS
Sustainability Internal Team/Facilitator
Multijurisdictional Council
Advisory Bodies
Technical Advisory Committee
Stakeholders
Community Participation
AEE
Planning Commission
Sector Working Groups
Equity Panel
Youth Council/Student Engagement
Community Workshops 1 & 2
Business Roundtable
Ag Workshops
Focus Groups

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 Acton 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 ($MTCO_2e$)	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
Total	1,101,405	100

*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 29th- 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

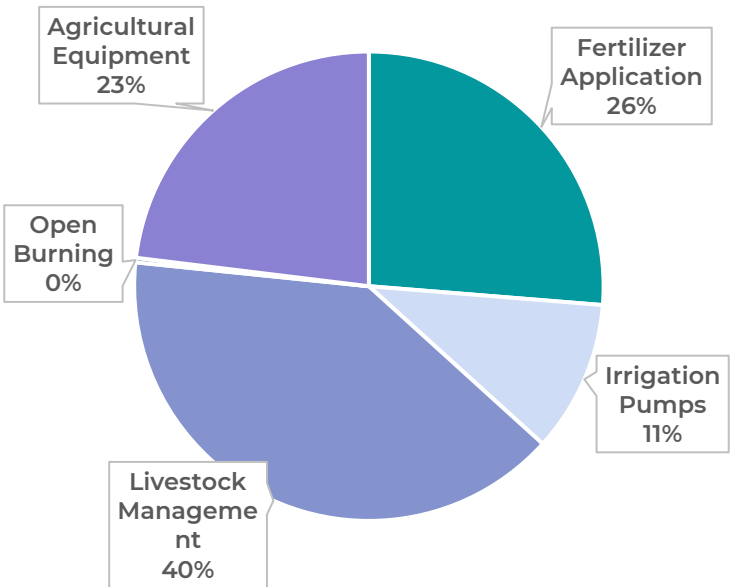
Public Engagement Process:
Phase 2– Strategy Formation and Discussion

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

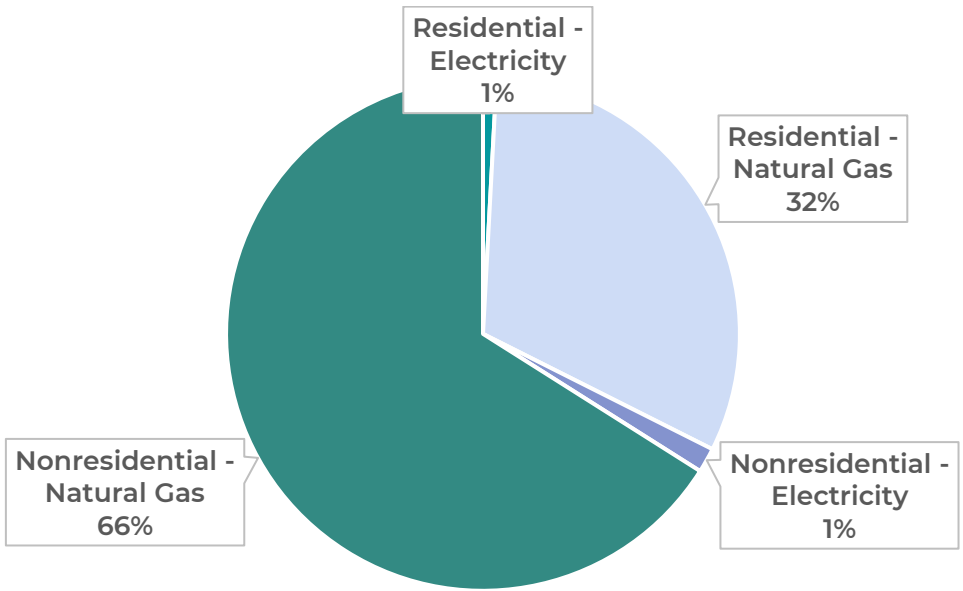
Activity	Date
Resource Consumption Strategy Discussion	8/17/22
Agriculture Brainstorm and Discussion	8/24/22
Cattle Workshop (Industry Collaboration)	9/22/22
Community Workshop	9/29/22

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

Agricultural Activity	GHG Emissions ($MTCO_2e$)
Livestock Management	106,512
Fertilizer Application	70,148
Agricultural Equipment	61,564
Irrigation Pumps	27,86
Open Burning	827
Total	266,917



Energy Source and Use	GHG Emissions ($MTCO_2e$)
Residential	81,750
• *Electricity*	*2,137*
• *Natural Gas*	*79,613*
Nonresidential	170,456
• *Electricity*	*3,931*
• *Natural Gas*	*166,526*
Total	252,206



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