

# ENERGY AND CLIMATE ACTION PLAN 2017 PROGRESS REPORT

Presentation to the County of Santa Barbara Board of Supervisors  
December 11, 2018



# Agenda

- County Sustainability Committee Introduction
- ECAP Overview
- ECAP Implementation Progress
- ECAP Implementation Highlights and Opportunities
- Looking Forward Recommendations
- Recommended Action

# County Sustainability Committee

## County Executive Office

- Matthew Pontes, Assistant County Executive Officer

## Agricultural Commissioner / Weights & Measures

- Debbie Trupe, Deputy Commissioner

## Community Services

- Ryder Bailey, Chief Financial Officer, Community Services
- George Chapjian, Director, Community Services
- Frank Chen, Program Specialist, Sustainability
- Jen Cregar, Co-Division Chief, Sustainability
- Jett Black-Mertz, Sr. Housing Specialist, Housing & Community Development
- Ashley Watkins, Co-Division Chief, Sustainability
- Vacant, Parks

## General Services

- Skip Grey, Assistant Deputy Director

## Planning and Development

- Selena Evilsizor, Planner, Long Range Planning

## Public Health

- Vacant

## Public Works

- Alan Nakashima, Sr. Program Specialist, Resource Recovery & Waste Management
- Brittany Heaton, Project Manager, Transportation
- John Karamitsos, Sr. Program Specialist, Water Agency

## Partner Agencies

- Molly Pearson, Project Manager, Santa Barbara County Air Pollution Control District
- Andrew Orfila, Transportation Planner, Santa Barbara County Association of Governments

# ECAP Overview

- Adopted in 2015; implementation began 2016
- Establishes goal to reduce community greenhouse gas (GHG) emissions to 15% below 2007 levels by 2020
  - **GHG** = carbon dioxide, methane, nitrous oxide and other pollutants that contribute to climate change; measured in MTCO<sub>2</sub>e
- Identifies actions the County and community can take to reach 2020 goal
  - **Emissions Reduction Measure (ERM)** = individual action (53 total)
  - **Core Strategy** = category of similar ERMs (11 total)
- Focus is on unregulated emissions in the unincorporated county; ERMs are mostly voluntary
- Allows streamlined project-level environmental review through 2020

# ECAP Implementation Progress Monitoring

- Measured in two ways:
  - GHG emissions (MTCO<sub>2</sub>e)
    - CY2016 is the most recent year for which complete data is available
  - ERM ( % change from 2016; % of 2020 target)
    - CY2017 is the most recent year for which complete data is available
- Improvement over prior year measurement methods

# ECAP Implementation Progress: GHG Emissions

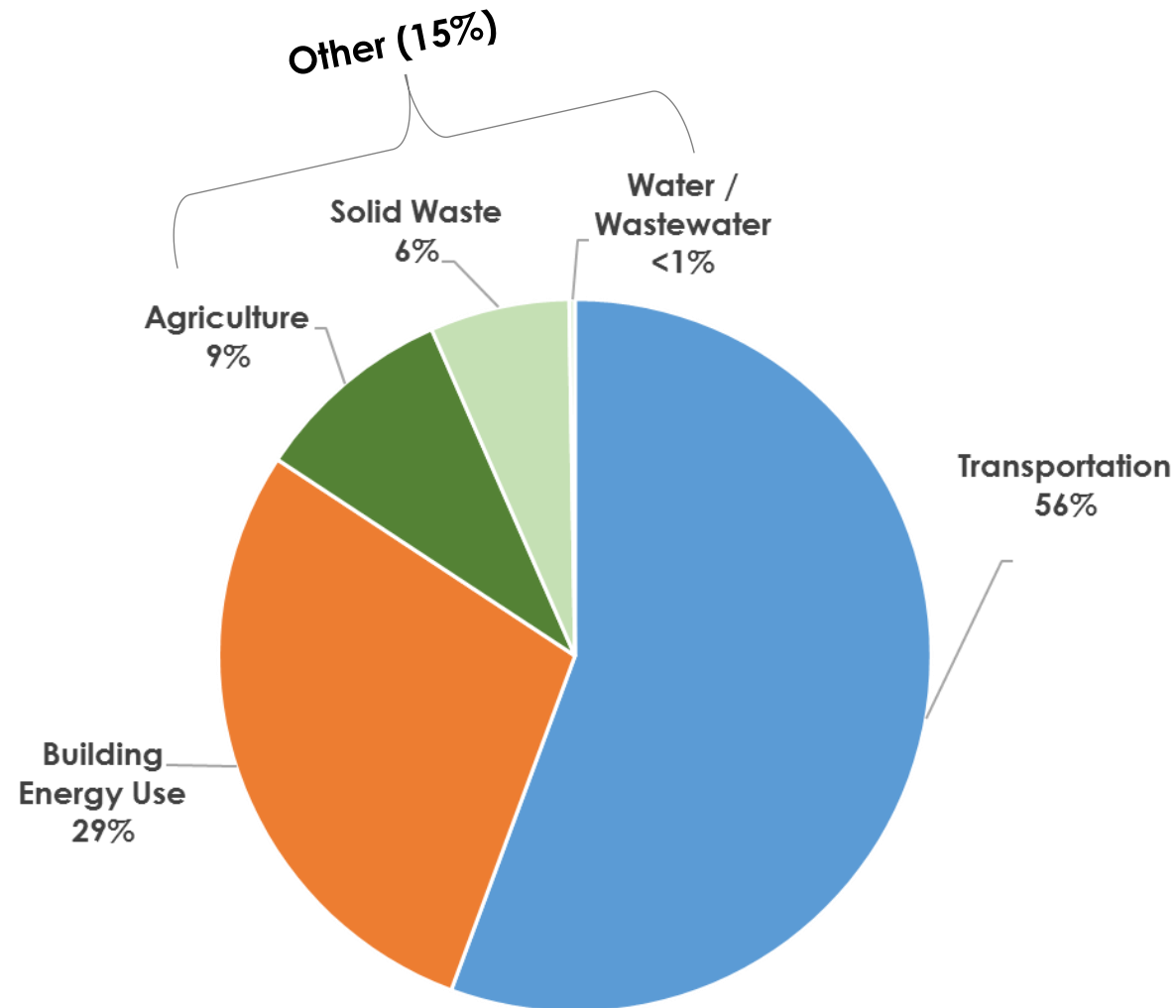
Source	GHG Emissions (MTCO <sub>2e</sub> )		Difference		Primary Reason for Change
	2007	2016	MTCO <sub>2e</sub>	Percent	
Transportation	523,430	588,246	↑ 64,816	↑ 12%	Increased vehicle miles traveled, partially offset by decreased emissions rates
Building Energy	330,370	374,164	↑ 43,794	↑ 13%	Increased non-residential natural gas use
Off-Road	102,140	138,950	↑ 36,810	↑ 36%	Increased construction activity
Agriculture	90,348	119,360	↑ 29,012	↑ 32%	Increased fertilizer use, partially offset by decreased livestock population
Solid Waste	91,920	82,750	↓ 9,170	↓ 10%	Reduced landfill waste tonnage
Water and Wastewater	4,699	3,364	↓ 1,335	↓ 28%	2007 inventory double counted wastewater treatment electricity use and water pumping
<b>TOTAL</b>	<b>1,142,907</b>	<b>1,306,833</b>	<b>↑ 163,926</b>	<b>↑ 14%</b>	

# ECAP Implementation Progress: ERMs

- We're not likely to reach the 2020 GHG reduction goal without further action.



# Unincorporated County GHG Emissions by Source





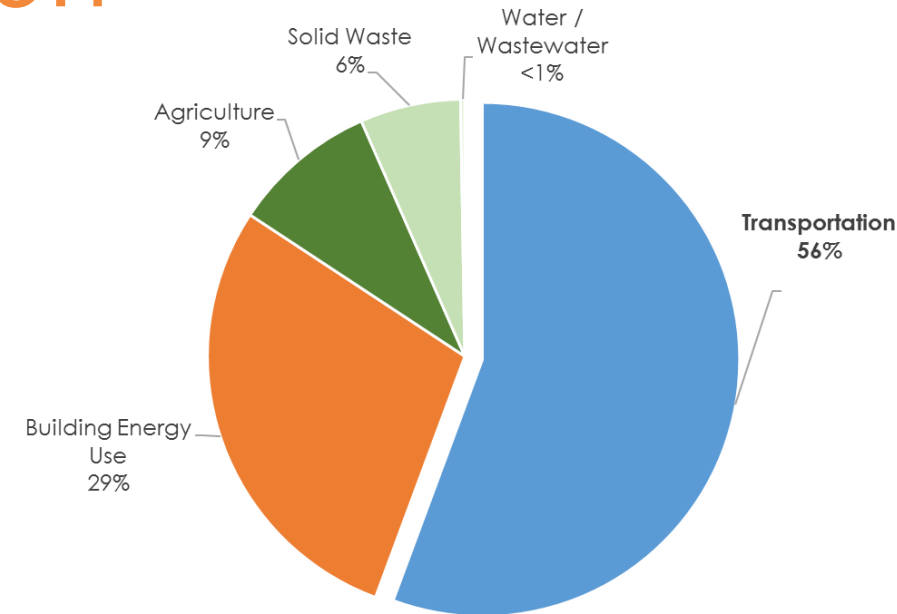
# ECAP Implementation Highlights and Opportunities: Transportation

## ■ Highlights:

- Rail ridership up
- Students using active transportation
- Seeing uptick in infill development
- Slight declines in County fleet fuel use

## ■ Opportunities:

- Address housing-jobs imbalance
- Increase funding for active transportation and shared mobility projects
- Encourage electric vehicle adoption
- Strengthen County fleet procurement goals and requirements
- Enhance employee commuter benefits



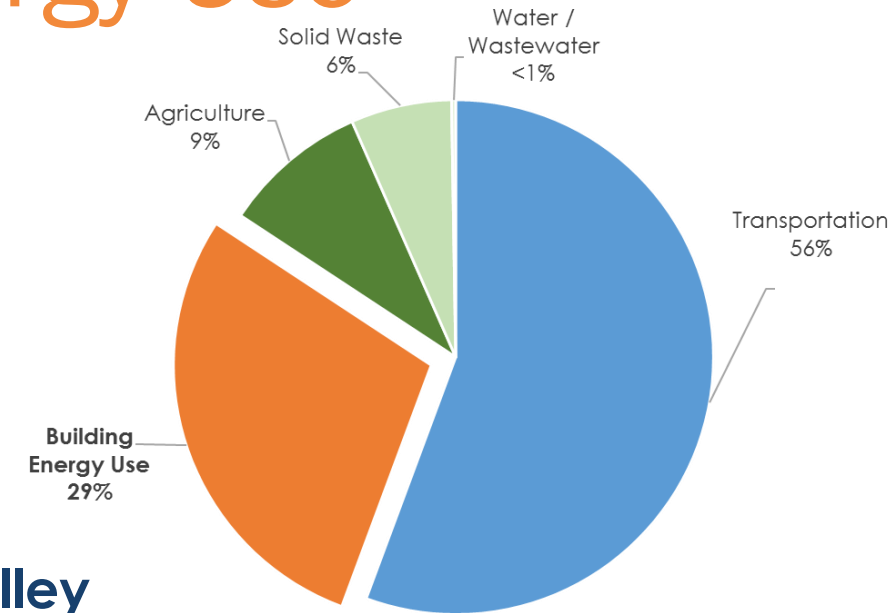
# ECAP Implementation Highlights and Opportunities: Building Energy Use

## ■ Highlights

- Reaching residents with energy efficiency information
- Rooftop solar and Cuyama Solar Project exceeded renewable energy goals

## ■ Opportunities

- **Full build out of solar potential in Cuyama Valley Rural Area = ~14% of total GHG reduction needed**
- Strategic Energy Planning
- Tri-County Regional Energy Network (3C-REN)
- Commercial energy benchmarking and auditing
- Building electrification
- County campus energy master plans



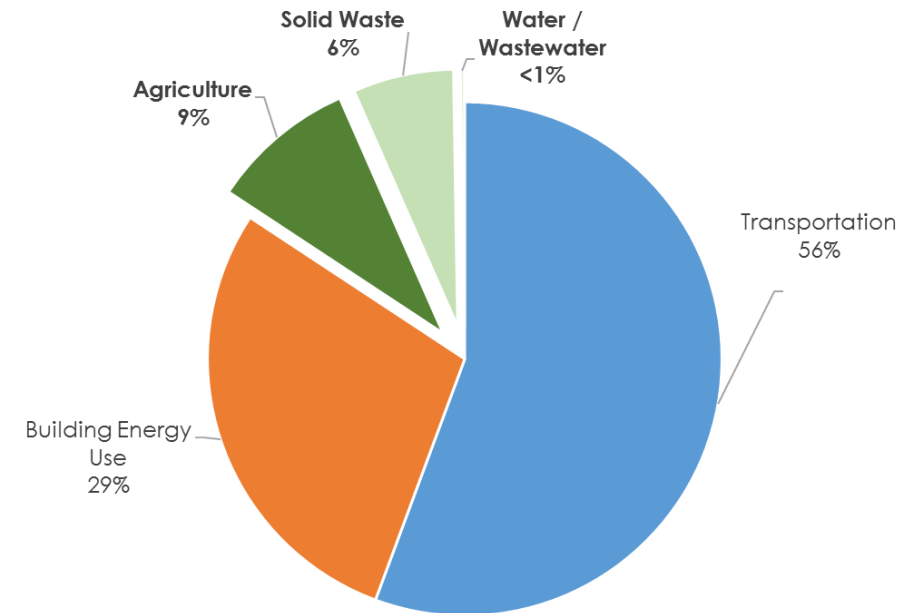
# ECAP Implementation Highlights and Opportunities: Other

## ■ Highlights

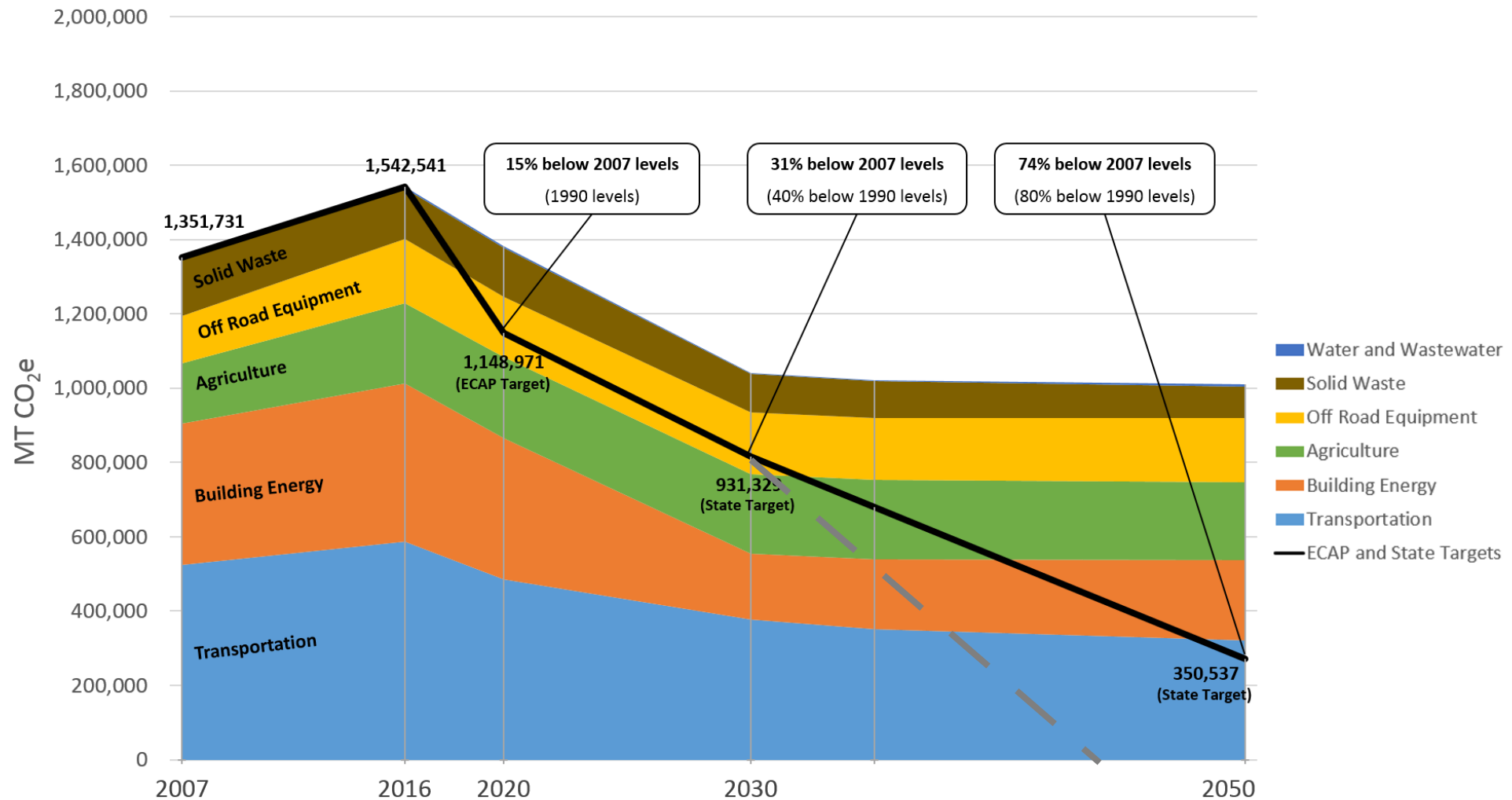
- Agriculture: Growers using water-efficient irrigation
- Waste: Diverting more waste from landfill
- Water/Wastewater: Annual water savings on track for 2020 goals

## ■ Opportunities

- Agriculture: Carbon farming, increased agricultural equipment replacement
- Waste: **Tajiguas Resource Recovery Project = ~62% of total GHG reduction needed**, improved sorting for County facilities
- Water/Wastewater: Parks Water Management Plan, demonstration gardens



# Looking Forward: Post-2020 Goal Setting



# Looking Forward: Plan Updates

Staff recommends that the ECAP be updated to:

- **Establish a new 2030 GHG reduction target.**
  - 40% below 1990 levels ≈ 31% below 2007 levels
- **Include GHG reduction and climate resiliency actions.**
  - Ex: Solar to reduce GHG emissions + battery to provide grid backup
  - Ex: Bike lanes to reduce GHG emissions + cool pavements to extend life
  - Ex: Compost to reduce GHG emissions + retain moisture and build soil health
- **Employ a regional approach inclusive of interested neighboring jurisdictions and community representatives.**
  - At a minimum, agree to shared vision and reporting. Individual jurisdictions may adopt their own implementation strategies.
- **Report implementation progress on a three-year cycle.**
  - 2021: Final report on current ECAP for progress through 2020
  - 2024: 1<sup>st</sup> report on 2030 GHG reduction target progress through 2023

# Recommended Action

- A. Receive and file ECAP 2017 Progress Report and 2016 GHG Inventory Update and Forecast
- B. Provide staff with direction regarding updating the ECAP to:
  - 1. Establish a new 2030 GHG reduction target;
  - 2. Include GHG reduction and climate resiliency actions;
  - 3. Employ a regional approach inclusive of interested neighboring jurisdictions and community representatives;
  - 4. Report implementation progress for the current and updated ECAP on a three-year cycle; and
  - 5. Other direction provided by the Board.

QUESTIONS?

---