ENERGY AND CLIMATE ACTION PLAN 2016 PROGRESS REPORT

Presentation to the County of Santa Barbara Board of Supervisors

Energy & Sustainability Initiatives Division

September 12, 2017

Agenda

- County Sustainability Committee (CSC) Introduction

- ECAP Timeline

- ECAP Overview

- ECAP Implementation Progress

- Featured Stories

- Staff Recommendations

- Next Steps

County Sustainability Committee

County Executive Office

• Matthew Pontes, Assistant County Executive Officer

Agricultural Commissioner / Weights and Measures Department

• Debbie Trupe, Deputy Commissioner, Agricultural Commissioner

Community Services Department

• Jennifer Cregar, Project Supervisor, Energy and Sustainability Initiatives Division

• Frank Chen, Program Specialist, Energy and Sustainability Initiatives Division

• Dinah Lockhart, Deputy Director, Housing & Community Development Division

• Laurie Baker, Program Manager, Housing & Community Development Division

• Brian Yanez, Deputy Director, Parks Division

General Services Department

• Jeannette Pell, Director

• Skip Grey, Deputy Director

Planning and Development Department

• Mindy Fogg, Supervising Planner, Long Range Planning Division

• Selena Evilsizor, County Planner, Long Range Planning Division

Public Health Department
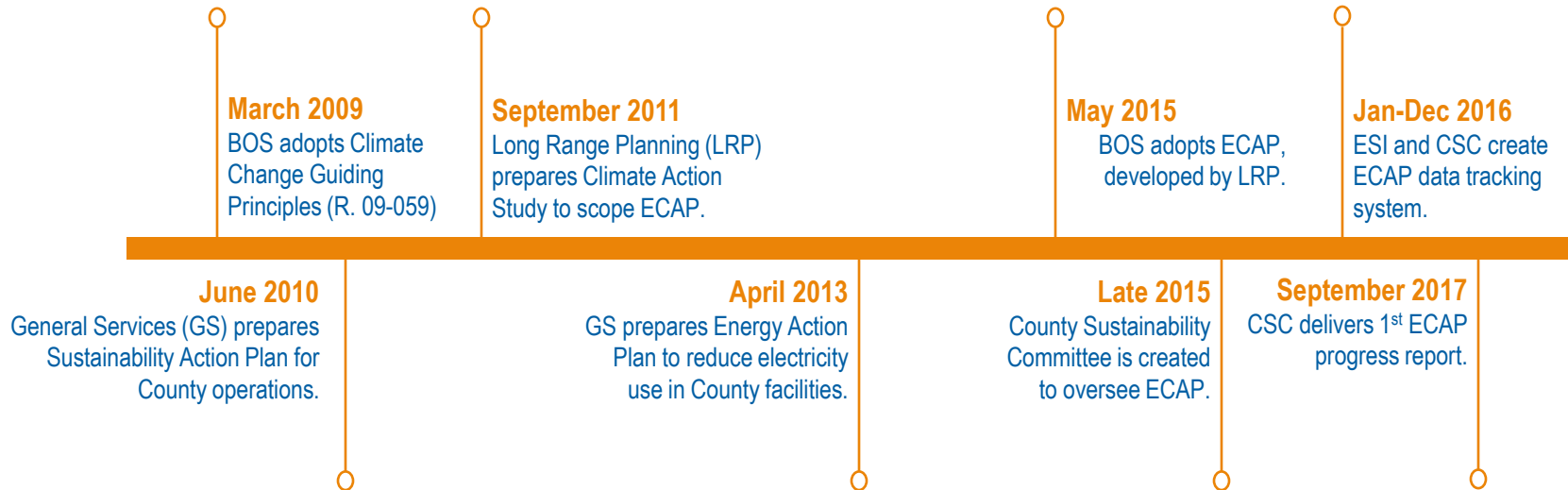
• Susan Klein-Rothschild, Deputy Director

Public Works Department

• Alan Nakashima, Senior Program Specialist, Resource Recovery & Waste Management Division

• Brittany Heaton, Project Manager, Transportation Division

• Kalani Durham, Water Conservation Specialist, Water Agency

• John Karamitsos, Senior Program Specialist, Water Agency

Partner Agencies

• Ben Ellenberger, Project Manager, Santa Barbara County Air Pollution Control District

• Andrew Orfila, Transportation Planner, Santa Barbara County Association of Governments

ECAP Timeline

March 2009
BOS adopts Climate Change Guiding Principles (R. 09-059)

September 2011
Long Range Planning (LRP) prepares Climate Action Study to scope ECAP.

May 2015
BOS adopts ECAP, developed by LRP.

Jan-Dec 2016
ESI and CSC create ECAP data tracking system.

June 2010
General Services (GS) prepares Sustainability Action Plan for County operations.

April 2013
GS prepares Energy Action Plan to reduce electricity use in County facilities.

Late 2015
County Sustainability Committee is created to oversee ECAP.

September 2017
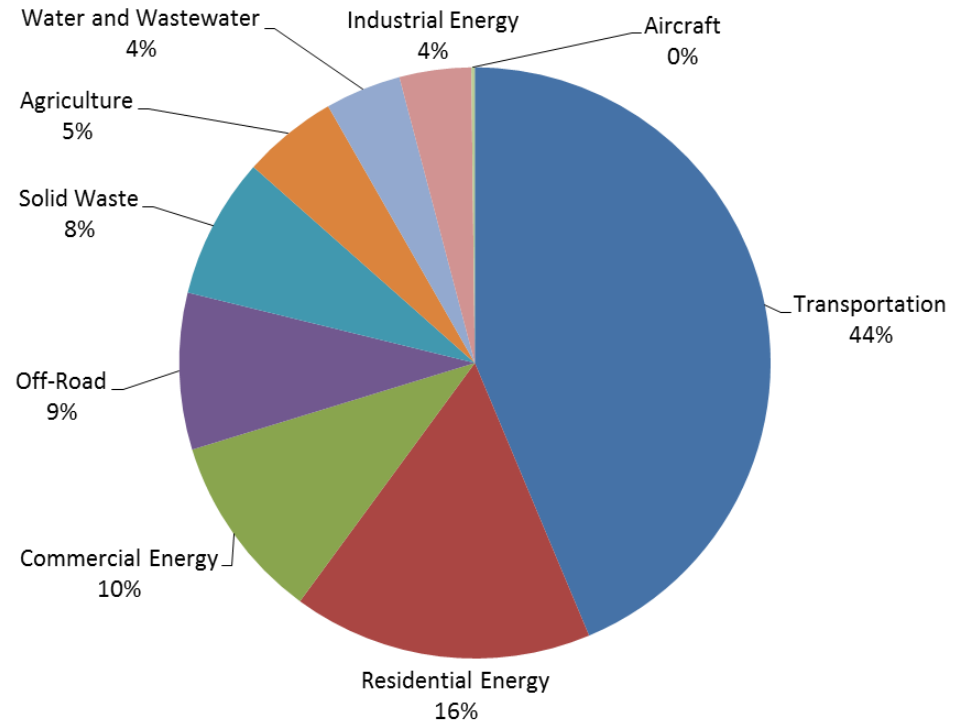CSC delivers 1st ECAP progress report.

ECAP Overview

- Establishes goal to reduce community GHG emissions to 15% below 2007 levels by 2020 in line with AB 32

- Identifies actions that the County and community can take to reach 2020 goal

    - Upgrading the County vehicle fleet with newer, less polluting vehicles
    - Encouraging business participation in Food Scraps Collection Program
    - Promoting homeowner participation in emPower Central Coast and Solarize programs

- Focus is on unregulated (non-point source) emissions in the unincorporated county; emissions reduction strategies are mostly voluntary

- Folds in activities identified in the County's adopted Sustainability and Energy Action Plans

- Allows streamlined environmental review under CEQA
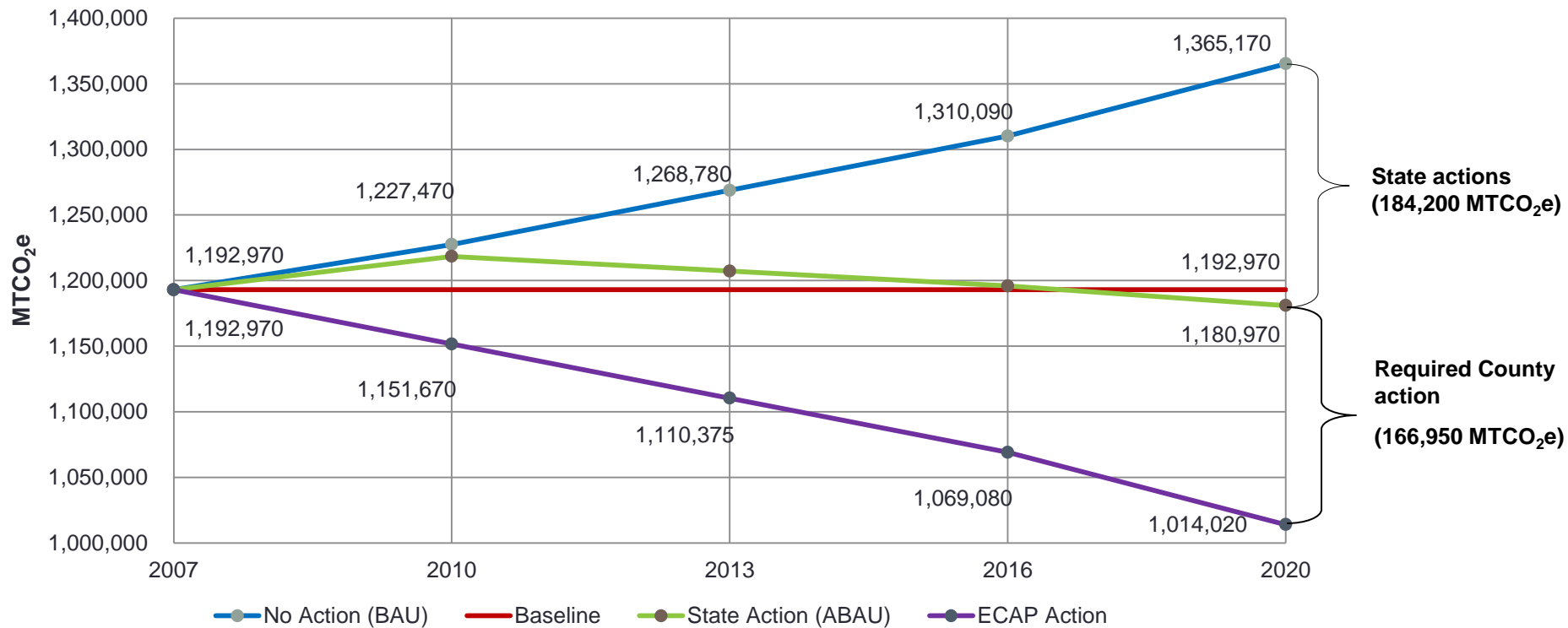
Some Terminology

- **Greenhouse Gas (GHG)** = Carbon dioxide and other pollutants that contribute to climate change; measured in $MTCO_2e$

- **Emissions Reduction Measure (ERM)** = Activity that reduces GHG emissions (53 total)

- **Core Strategy** = Category of similar ERMs (11 total)

  - Built Environment
  - Industrial Energy Efficiency
  - Water Efficiency
  - Transportation
  - Sustainable Communities Strategy
  - Community Choice Energy*

  - Waste Reduction
  - Agriculture
  - Renewable Energy
  - Land Use Design
  - Government Operations

2007 Community GHG Emissions Baseline (where we started)

Sector	Total MTCO$_2$e
Transportation	521,160
Residential Energy	195,490
Commercial Energy	121,580
Off-Road	102,140
Solid Waste	91,920
Agriculture	62,110
Water and Wastewater	49,520
Industrial Energy	46,780
Aircraft	2,270
TOTAL	**1,192,970**

Pie chart of 2007 Community GHG Emissions:
- Transportation 44%
- Residential Energy 16%
- Commercial Energy 10%
- Off-Road 9%
- Solid Waste 8%
- Agriculture 5%
- Water and Wastewater 4%
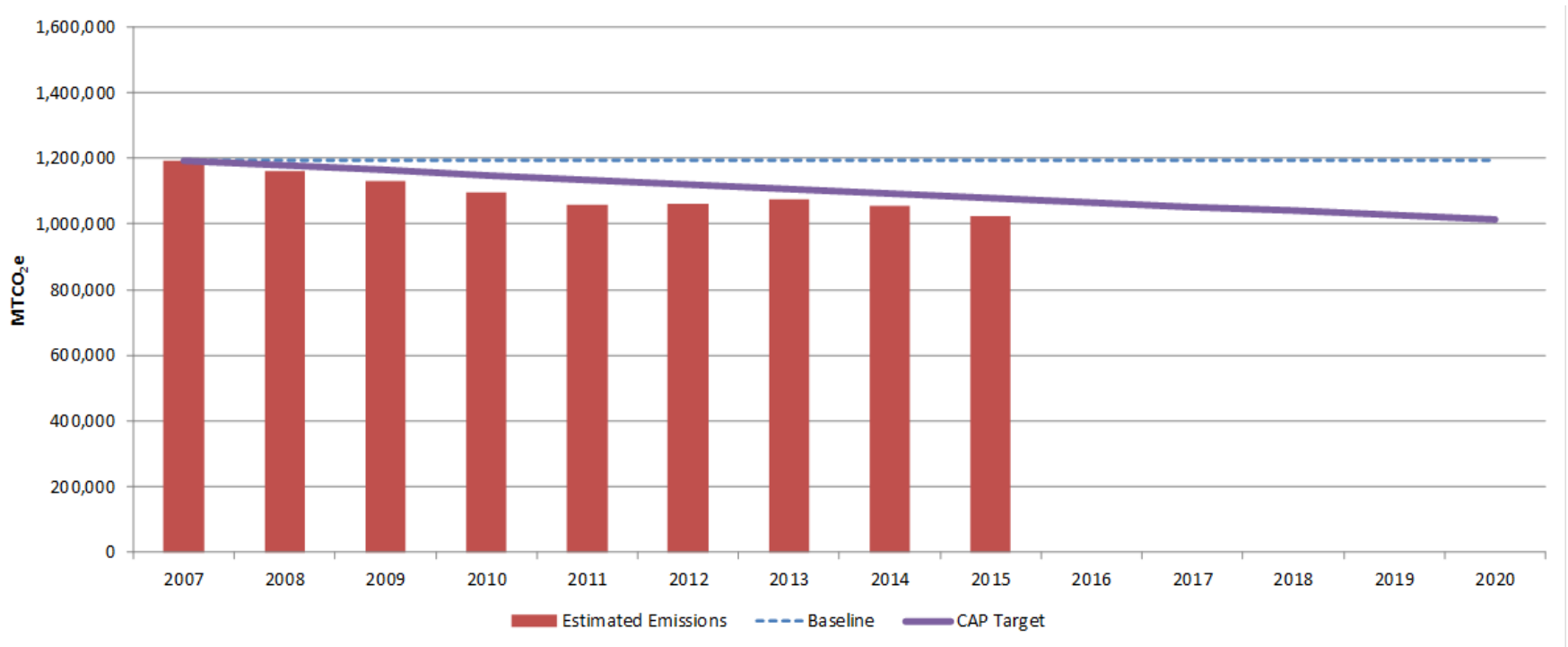- Industrial Energy 4%
- Aircraft 0%

2020 Community GHG Emissions Forecast (where we're headed)

Tracking ECAP Implementation Progress

- Two ways of tracking ECAP implementation progress:

  - Change in GHG emissions from 2007 baseline ("snapshot" approach)
    - More common approach
    - Local government best practice
    - Typically measured every 2-5 years
    - Reports changes in emissions, but cannot attribute changes to specific actions

  - Progress towards emission reduction measure (ERM) goals ("livestream" approach)
    - Less common
    - Gold standard
    - Typically measured annually or more frequently
    - Ties changes in emissions to specific actions

Change in Community GHG Emissions, 2007-2015 ("Snapshot" Approach)

ECAP Implementation Progress by Core Strategy ("Livestream" Approach)

Core Strategy	2016 Progress MTCO$_2$e	2020 Target MTCO$_2$e	Percent to Target
Built Environment (BE)	8,915	48,310	18%
Waste Reduction (WR)	8,650	46,850	18%
Sustainable Communities Strategy (SCS)	Not measurable	29,150	Not measurable
Transportation (T)	1,072	27,360	4%
Renewable Energy (RE)	6,261	14,510	43%
Industrial Energy Efficiency (IEE)	0	8,960	0%
Agriculture (AG)	2,133	7,640	28%
Government Operations (GO)	1,925	4,320	45%
Land Use Design (LUD)	1,056	2,480	43%
Water Efficiency (WE)	593	600	99%
Total	**30,605**	**190,180**	**16%**

Featured Story: Water Savings = GHG Savings

Featured Story: Renewable Energy = GHG Savings

ECAP Funding Recommendations

- Highlight ECAP strategies during budget approval process

- Approve funding to update ECAP by 2020 and consider countywide approach including smaller cities

- Seek funding to prioritize investment in areas with largest GHG reduction potential:
  - Built Environment (BE)
  - Waste Reduction (WR)
  - Sustainable Communities Strategies (SCS)
  - Transportation (T)

Next Steps

- Continue to work with County Sustainability Committee to improve reporting and implementation

- Complete 2016 GHG inventory update

- Revise ECAP by end of CY2020 to
  - Align with deeper state-level GHG reduction targets
  - Continue streamlined CEQA environmental review
  - Possibly include smaller cities

QUESTIONS?

Built Environment (BE) Recommendations

- Encourage County leadership (GO 1)
  - Ex: Energy Savings Performance Contract for County building upgrades

- Develop EE programming specifically targeting new homeowners and non-residential entities (BE 4)
  - Ex: 50 Home Challenge, enhanced incentives for Smart Build Santa Barbara (SB^2) program

- Increase EE programming for existing homeowners and businesses (BE 2)
  - Ex: energy benchmarking and audits, Regional Energy Network application, commercial PACE

- Enhance support for Green Business Program(BE 3, BE 1)
  - Ex: County facility certification, outreach using Environmental Health Services inspectors

Sustainable Communities Strategy (SCS) Recommendations

- Encourage County leadership (GO 4)

  – Ex: Match employees with appropriate work sites near homes

- Prioritize transit-oriented/infill development and enhanced transit options in line with Sustainable Communities Strategy

  – Ex: Update Circulation Element of Comprehensive Plan, support development within Mixed-Use Zoning District in Hollister-State corridor

- Work with SBCAG and SustainSB to develop quantifiable metric to report progress

Transportation (T) Recommendations

- Encourage County leadership (GO 3)
  - Ex: Establish minimum mpg rating for applicable new vehicle purchases, encourage telemeetings

- Promote electrification of transportation sector (T 3)
  - Ex: Pursue outside funding for EV chargers and EV incentives

- Facilitate greater use of active forms of transportation (T 4, T 5, T 6)
  - Ex: Update Circulation Element of Comprehensive Plan; continue Hollister-State bicycle lane and streetscape improvements

- Improve data access from community partners (T 6, T 9)
  - Ex: Encourage expansion of Safe Routes to School programs in N. County