



Board Workshop  
**Communitywide Climate Action Plan**

Office of Planning and Environmental Review  
May 24, 2017

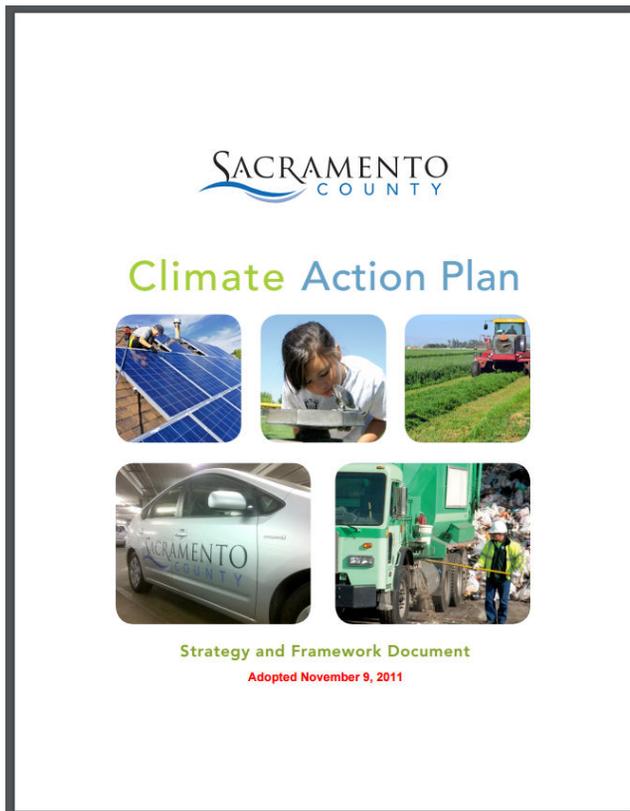
---

Surinder Singh, Principal Planner

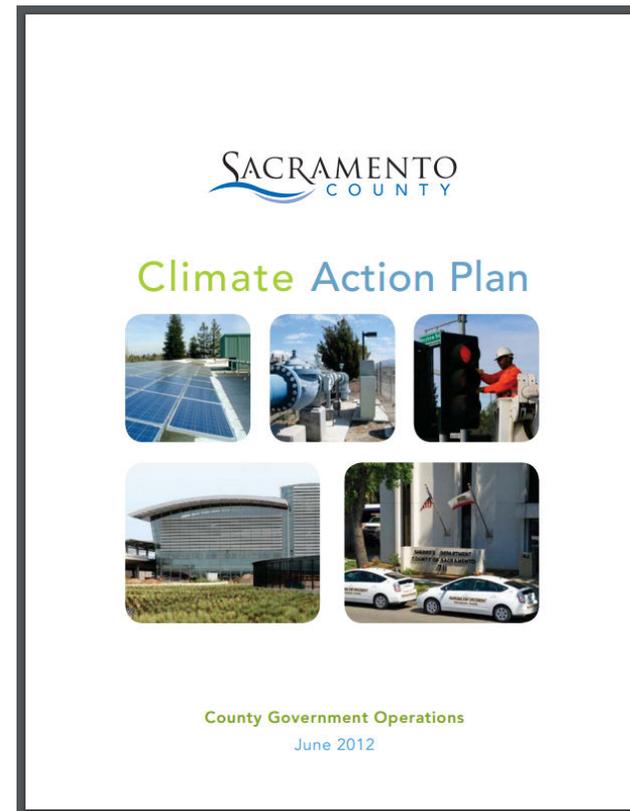
# Previous Work

---

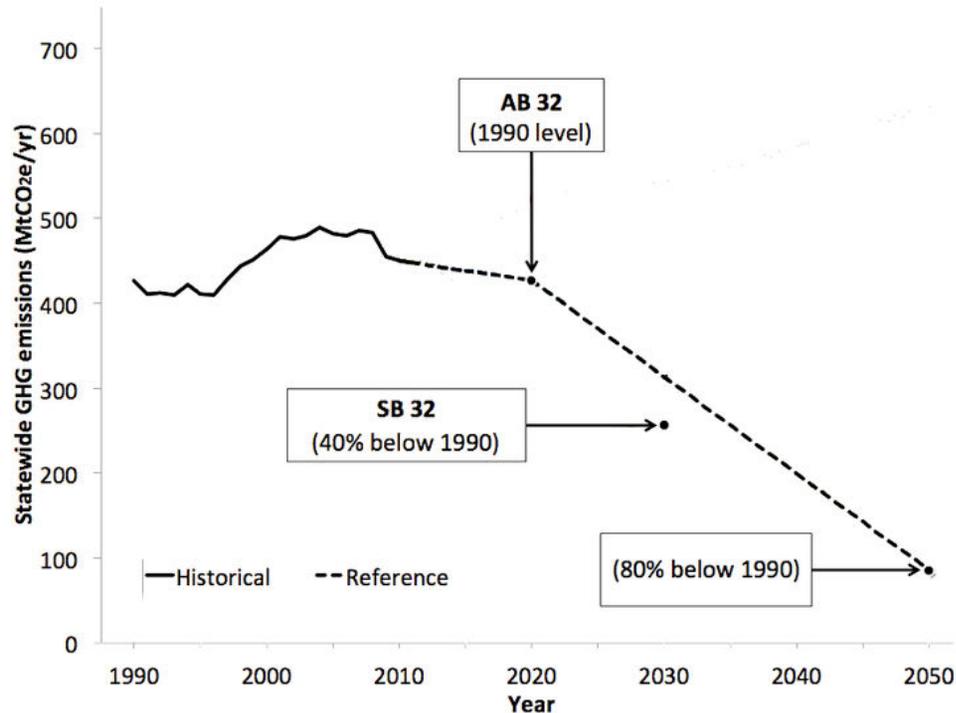
- Phase 1 (2011)  
*Strategy and Framework*



- Phase 2A (2012)  
*County Government Operations*



# State Guidance



## Greenhouse Gas Reduction

### Assembly Bill 32

- 1990 levels by 2020

### Senate Bill 32

- 40% below 1990 levels by 2030

### Executive Order S-3-05

- 80% below 1990 levels by 2050

## Climate Change Adaptation

### Senate Bill 379

- Safety Element updates

# Components

---

## 1. Greenhouse Gas Reduction

### Process

- 5-Steps (*Modified*)
- ICLEI-Local Governments for Sustainability

### Completed

- Inventory, Forecast, Targets

### In-Progress

- Develop Measures



# Components

## 2. Climate Change Adaptation

### Process

- 9-Steps
- California Natural Resources Agency

### Completed

- Vulnerability Assessment

### In-Progress

- Develop Measures



# 2015 GHG Inventory

---

## Gases Inventoried

- Carbon dioxide (CO<sub>2</sub>)
- Methane (CH<sub>4</sub>)
- Nitrous oxide (N<sub>2</sub>O)
- Fluorinated gases (F-gases), or High-Global Warming Potential (GWP) gases:
  - Hydrofluorocarbons (HFCs)
  - Perfluorocarbons (PFCs)
  - Sulfur hexafluoride (SF<sub>6</sub>)

# 2015 GHG Inventory

## Communitywide Emissions

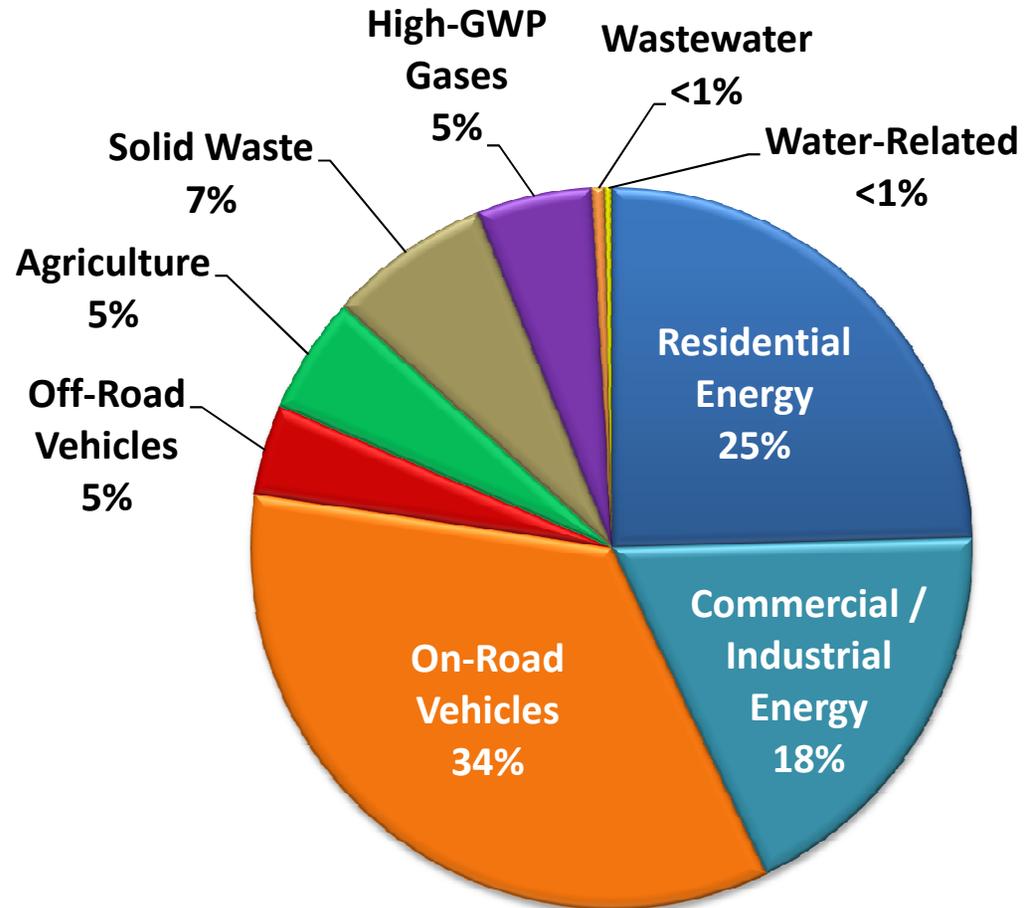
- 4,853,647 MTCO<sub>2</sub>e

## Largest Sectors

- Residential Energy
- Commercial/Industrial Energy
- On-Road Vehicles

## Largest Sectors Combined

- 77% of Total



# 2015 GHG Inventory

## Government Operations Emissions

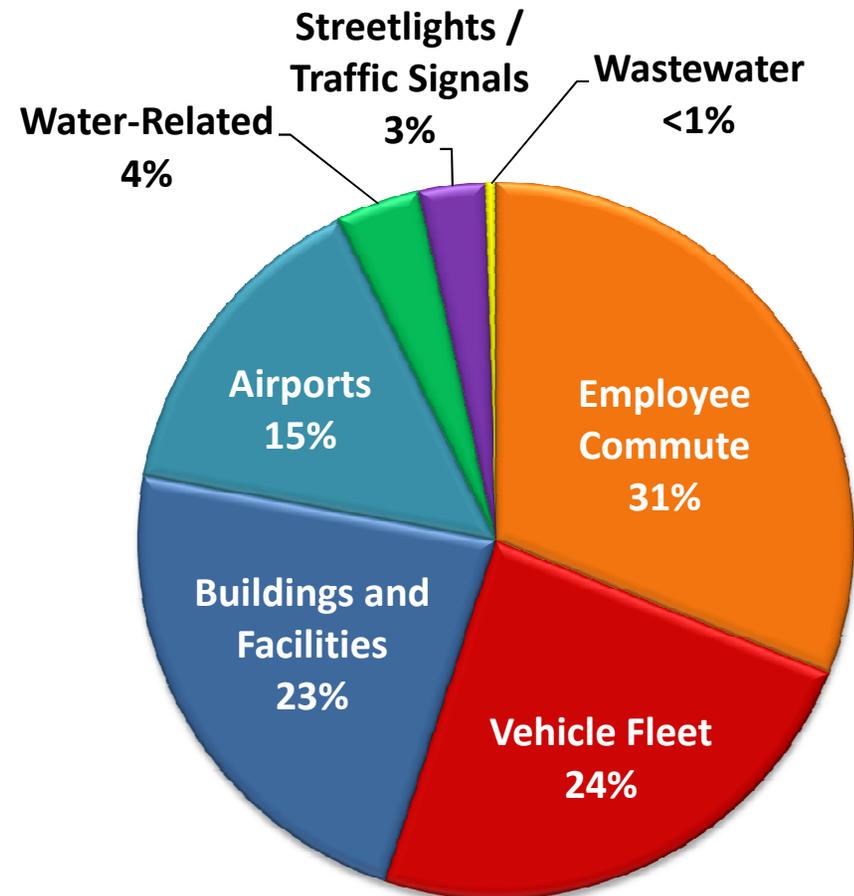
- 123,397 MTCO<sub>2</sub>e

## Largest Sectors

- Employee Commute
- Vehicle Fleet
- Buildings and Facilities
- Airports (buildings/facilities)

## Largest Sectors Combined

- 93% of Total



# GHG Reductions

---

## Forecasts

- Project business-as-usual (BAU) growth
- Subtract State/Federal actions

## Targets

2020

- 15% below 2005 levels (*Strategy and Framework*)

2030

- 6 MTCO<sub>2</sub>e/capita (*Draft Scoping Plan*)

2050

- 2 MTCO<sub>2</sub>e/capita (*Draft Scoping Plan*)



*For Reference:*

2015

8.4 MTCO<sub>2</sub>e/capita

# GHG Reductions

---

## Gap Analysis

- Compare gap between forecast and targets
- Identify GHG reductions needed to achieve targets

## GHG Reduction Measures

- Develop measures
- Quantify reduction potential
- Analyze feasibility of measures
- Identify costs/benefits (environmental, economic, social)

# GHG Reductions

---

## Preliminary Measures

### Communitywide

- Require electric water heaters (new/replacement)
- Require CalGreen Tier 1 standards (new/remodel)
- Phase in zero-net energy requirements (new)
- Divert 80% of solid waste

### Government Operations

- Require CalGreen Tier 1 standards and phase in zero-net energy
- Convert fleet fuel to renewable LNG and renewable diesel
- Create and staff Employee Transportation Program

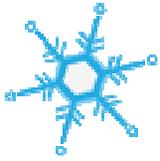
# Climate Change Adaptation

---

## Climate Change Impacts



Increased Temperature



Changes in Precipitation Patterns



Increased Wildfires



Increased Flooding



Sea-Level Rise

# Climate Change Adaptation

---

## Examples of Preliminary Measures



Cool Materials, Shading, Cooling Centers, Multi-Lingual Outreach through Sacramento-Alert



Water Conservation Certification for Businesses, Drought-Tolerant Landscaping, Groundwater Storage, Recycled Water or Graywater



Very-High Hazard Zone Restrictions, Multi-Lingual Outreach through Sacramento-Alert for Evacuations and Air Quality Warnings



New/Improved Infrastructure, Stream Restoration, Pervious Pavement, Multi-Lingual Outreach through Sacramento-Alert for Warnings and Evacuation Routes



Updated Maps, Critical Infrastructure Analysis/Protection, Multi-Lingual Outreach through Sacramento-Alert

# Disadvantaged Communities

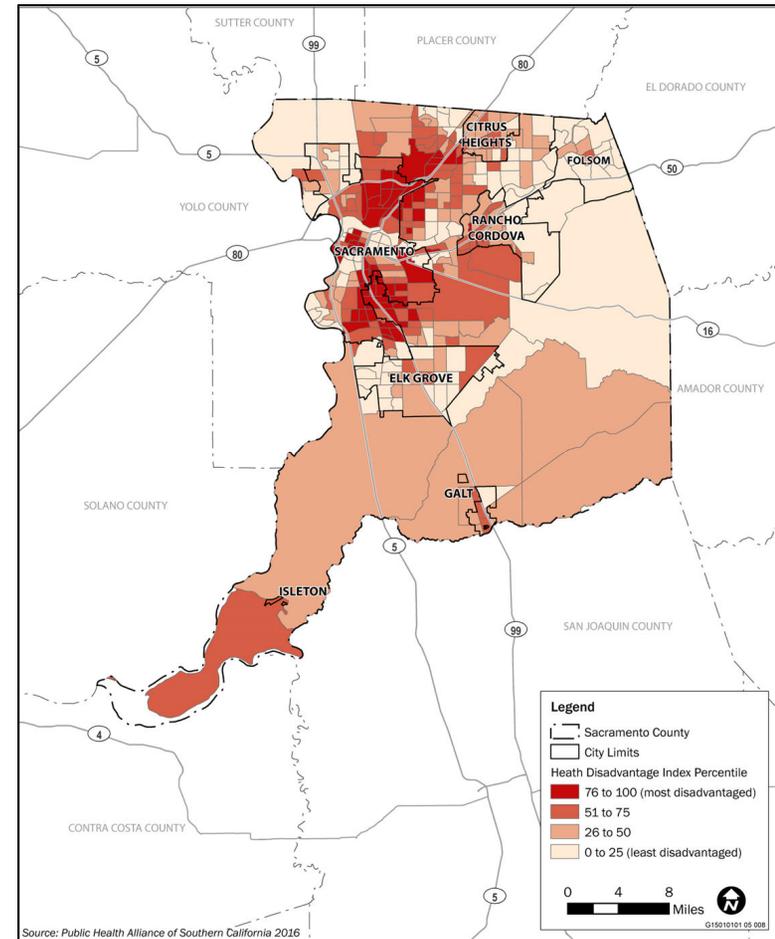
## Cap-and-Trade Funds

- 25% for projects that benefit
- 10% for projects within

## Health Disadvantage Index (HDI)

Indicators (of 27 total)

- Economic
- Educational/Employment
- Engagement
- Neighborhood Quality
- Mortality



# Public Outreach

## Webpage

- Overview, Process, Announcements, and Past Meeting Materials

## Dedicated Email

- [ClimateActionPlan@SacCounty.net](mailto:ClimateActionPlan@SacCounty.net)

## GovDelivery Subscription

- Announcements/Updates
- 750+ Subscribers (March 2017)

## Social Media

- County Pages through PIO



Facebook



Google+



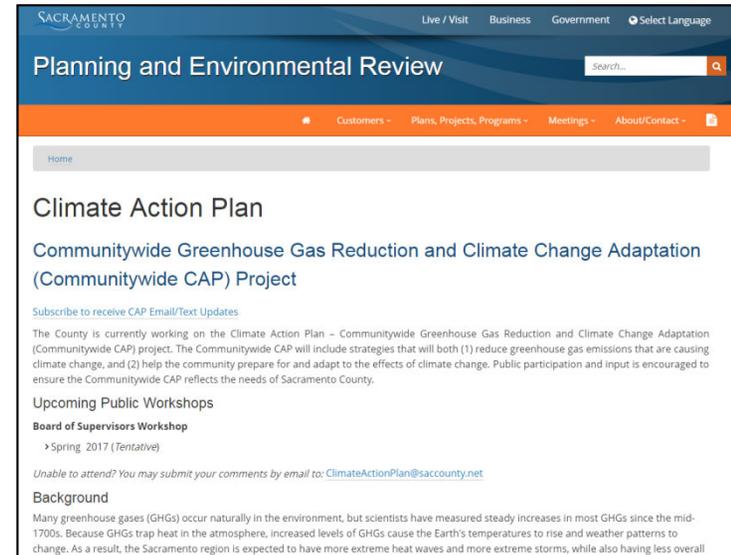
Twitter



Nextdoor



LinkedIn



# Public Outreach

---

## Stakeholder Meetings

Date: August 2016

Topic: Kickoff, Early Issues

Location: Downtown



## Public Workshops

- Round 1

Topic: Kickoff, GHG Inventory

Date: November 2016

Locations: South Sacramento,  
North Highlands



# Public Outreach

---

## Public Workshops

- Round 2

Topic: Climate Change  
Adaptation

Date: February 2017

Locations: Arden Arcade,  
Walnut Grove



# Public Outreach

---

## Upcoming Outreach

- Focused Stakeholder Meetings
- GHG Reduction Measure Workshops
- Draft Communitywide CAP Workshops
- Public Hearings

