

The seal of Contra Costa County, California, is a circular emblem with a gold border. The border contains the text "THE COUNTY OF CONTRA COSTA CALIFORNIA" in gold letters, separated by small stars. The central image depicts a landscape with green hills, a blue sky with white clouds, a blue body of water, and a white building with a red roof.

# Contra Costa County's Climate Action Plan: Overview

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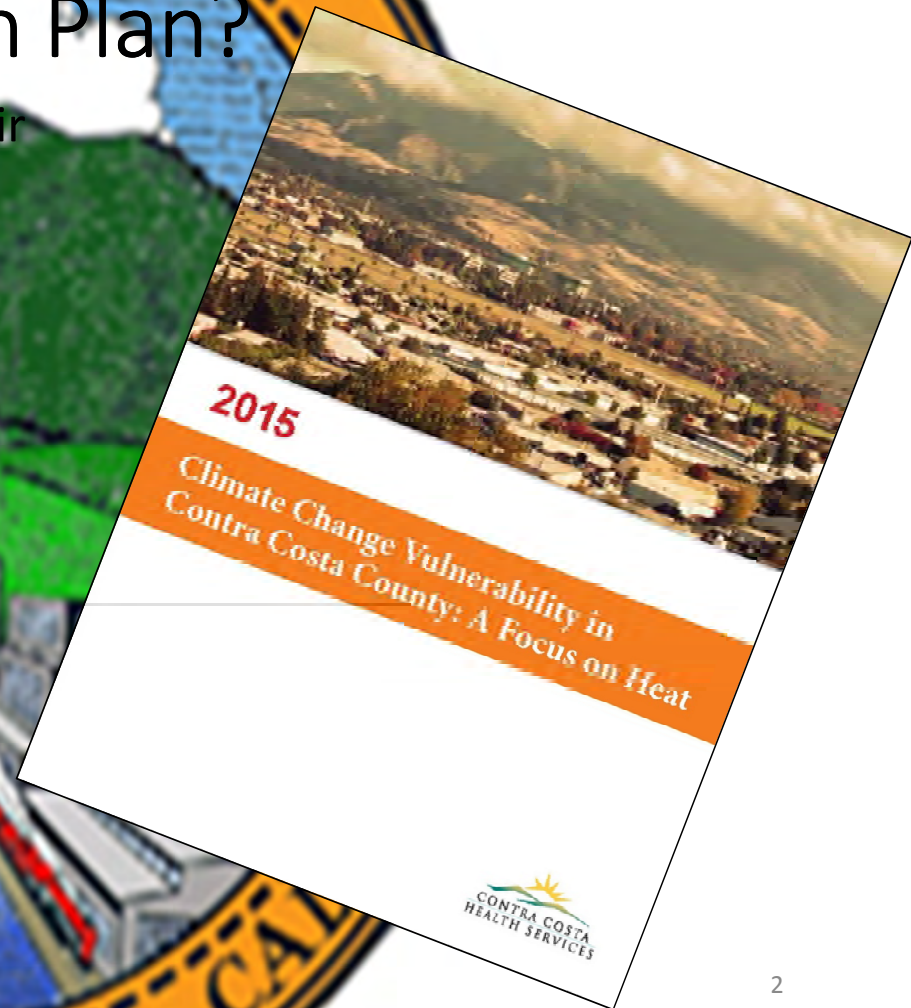
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Contra Costa County

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# Why Have a Climate Action Plan?

- Reduce greenhouse gas emissions/improve air quality
- Improve community health and promote health equity
- Adapt to climate change impacts
  - Rising sea levels, including CCC waterfront
  - More extreme heat events
  - Drought
  - Fire
  - Less fresh water
- Meet State environmental requirements
- Other benefits, including:
  - Enhanced quality of life
  - Lower energy bills
  - Support local economy

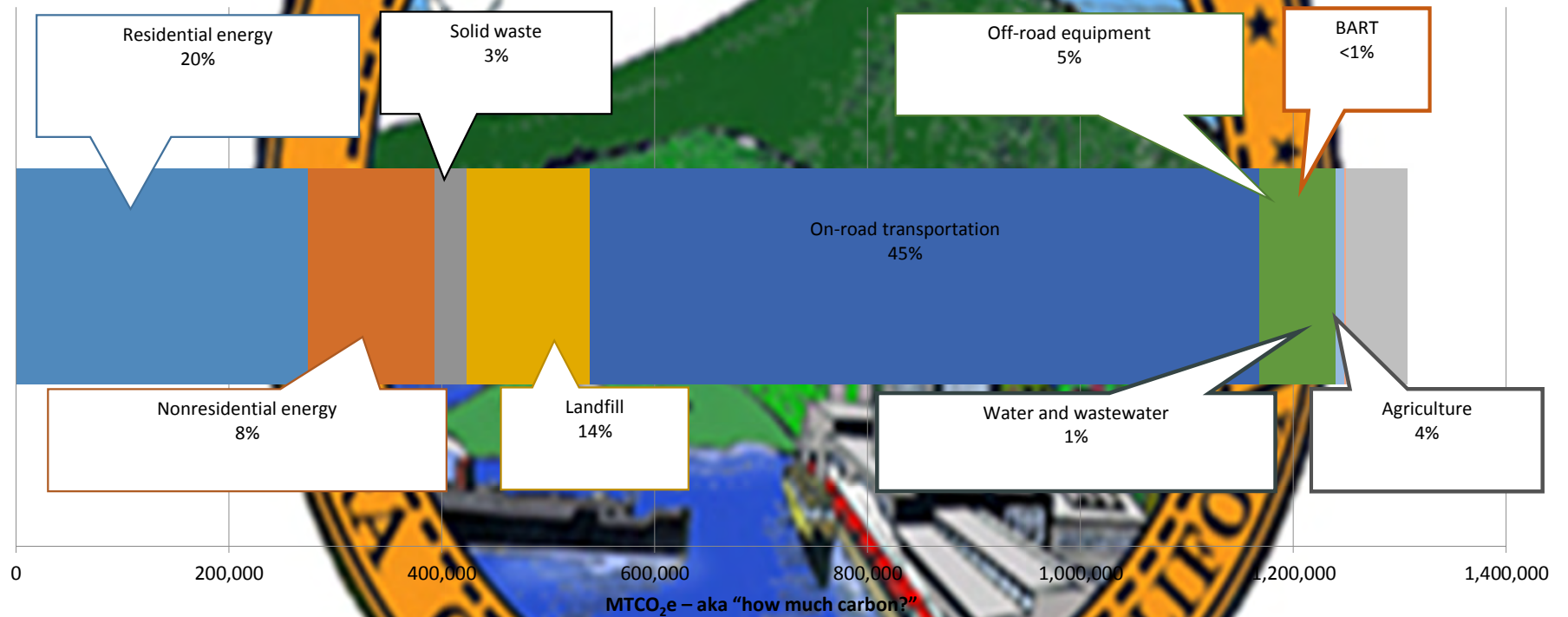




# Countywide Emissions

## 2005 GHG Emissions by Sector:

Source: Michael Baker International 2015



# Emissions from County Operations (2008 Report)

The County completed its GHG emissions inventory in August of 2007 and revised this inventory in June of 2008. The results of the municipal inventory are illustrated below.

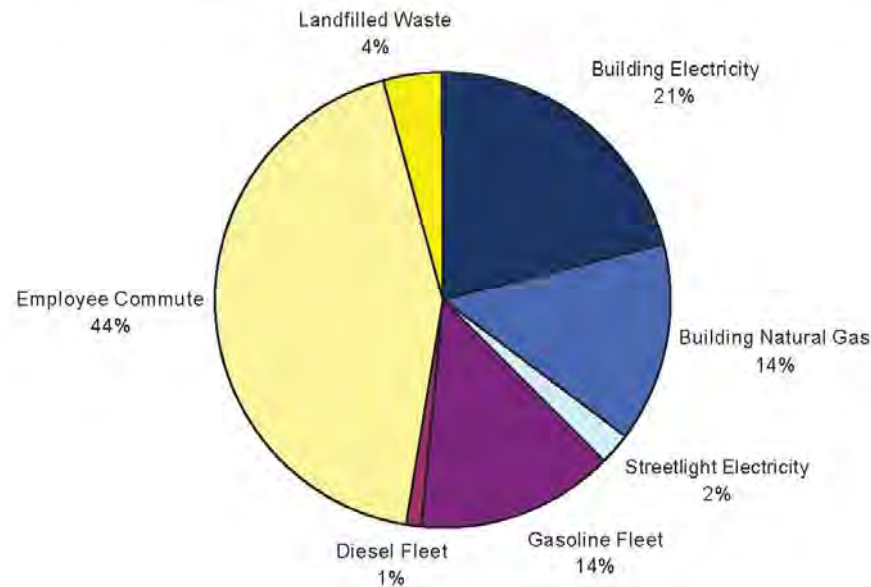


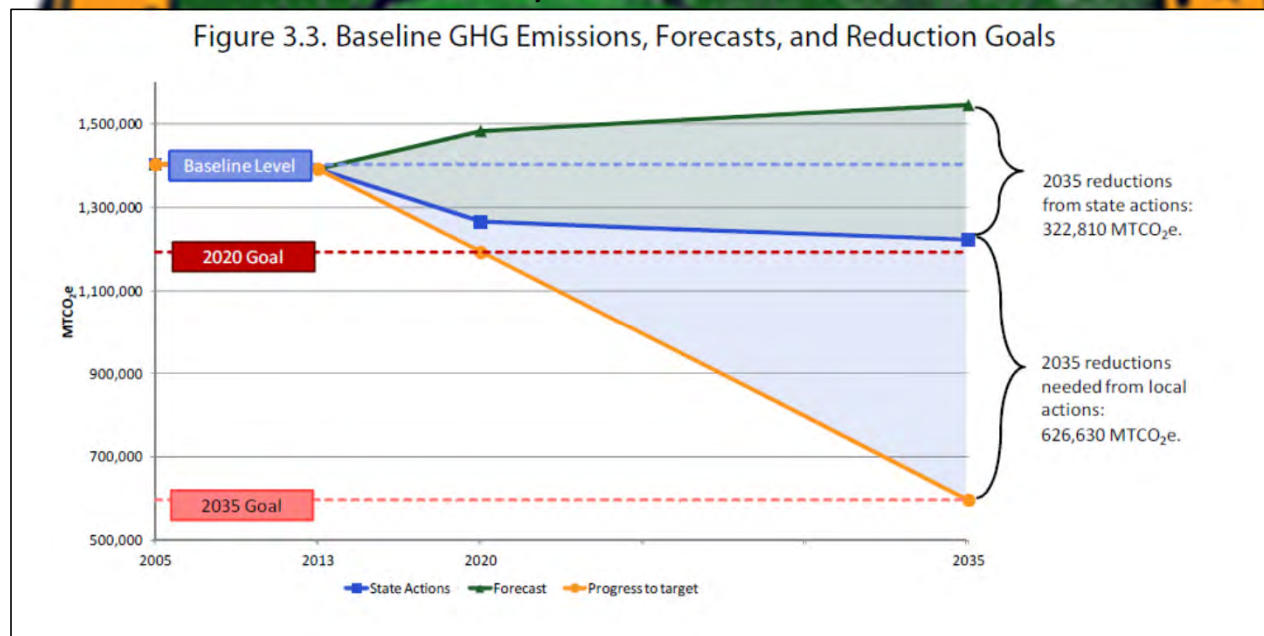
Figure 2.1 Municipal GHG emissions by source in 2006

# Contra Costa County's 2015 Climate Action Plan: What are the Emissions Reduction Goals?

Overall Goals:

- Reduce community-wide emissions in unincorporated areas 15% below 2005 levels by 2020
- Trajectory to reduce emissions in unincorporated areas to 50% below 1990 levels by 2035

Note: SB 32 goal is 80% below 1990 levels by 2050





# Where Will the Reductions Come From?

- Energy Efficiency



- Waste



- Renewable Energy



- Water



- Land Use and Mobility



- Government Operations



# Energy Efficiency

- Residential Buildings: **BAY AREA** Regional Energy Network
- Non-residential Buildings: **EAST BAY energy watch**
- Energy Conservation Awareness: work in progress
- Urban Forestry and Paving and Roofing Resources: high-albedo, vegetation or solar, low-impact, pervious surfaces, etc
- Energy Efficiency Capacity Building: grants, workforce
- Energy Efficient New Buildings: getting to zero net energy





# Renewable Energy



- Install more renewable energy on homes and businesses
  - County is looking to assess renewable energy resource potential in Contra Costa County next year
  - Study will also identify needed modifications to zoning code and ordinances to facilitate renewable deployment
- Cite more renewable energy on public lands
- Northern Waterfront Economic Development Initiative may yield opportunities for renewable energy, both installation and related businesses






# Renewable Energy



- Financing – Property Assessed Clean Energy now available in unincorporated County

**Contra Costa County Unincorporated**

**45** Homes Improved      06/21/2016 HERO Launch Date      53,815 Housing Count      01/01/2011 - 09/30/2016 Report Range



**Improvements**

Type	Total Installed	Bill Savings
Energy	63	\$1.02M
Solar	25	\$1.36M
Water	1	\$6,242

**Lifetime Impact**

Applications Submitted	188
Applications Approved	138
Funded Amount	\$1.25M
Economic Stimulus	\$2.17M
Jobs Created	11
Energy Saved	11.8M kWh
Emissions Reduced	2,835 tons
Water Saved	935K gal

Learn how these numbers are calculated at <https://www.hero.gov/faq>

**hero** GOV      855-HERO-411      gov@heroprogram.com

# Land Use and Transportation



- Majority of emissions come from transportation
- Increasing County focus on infill, transit-oriented development, complete streets, and related policies
  - Contra Costa Centre (Pleasant Hill BART) as a model
- County fleet is winning awards and recognition
- How to reach private fleets?
- County collaborates with transit agencies
- Northern Waterfront Economic Development Initiative as opportunity to bring jobs closer to housing



# Land Use and Transportation



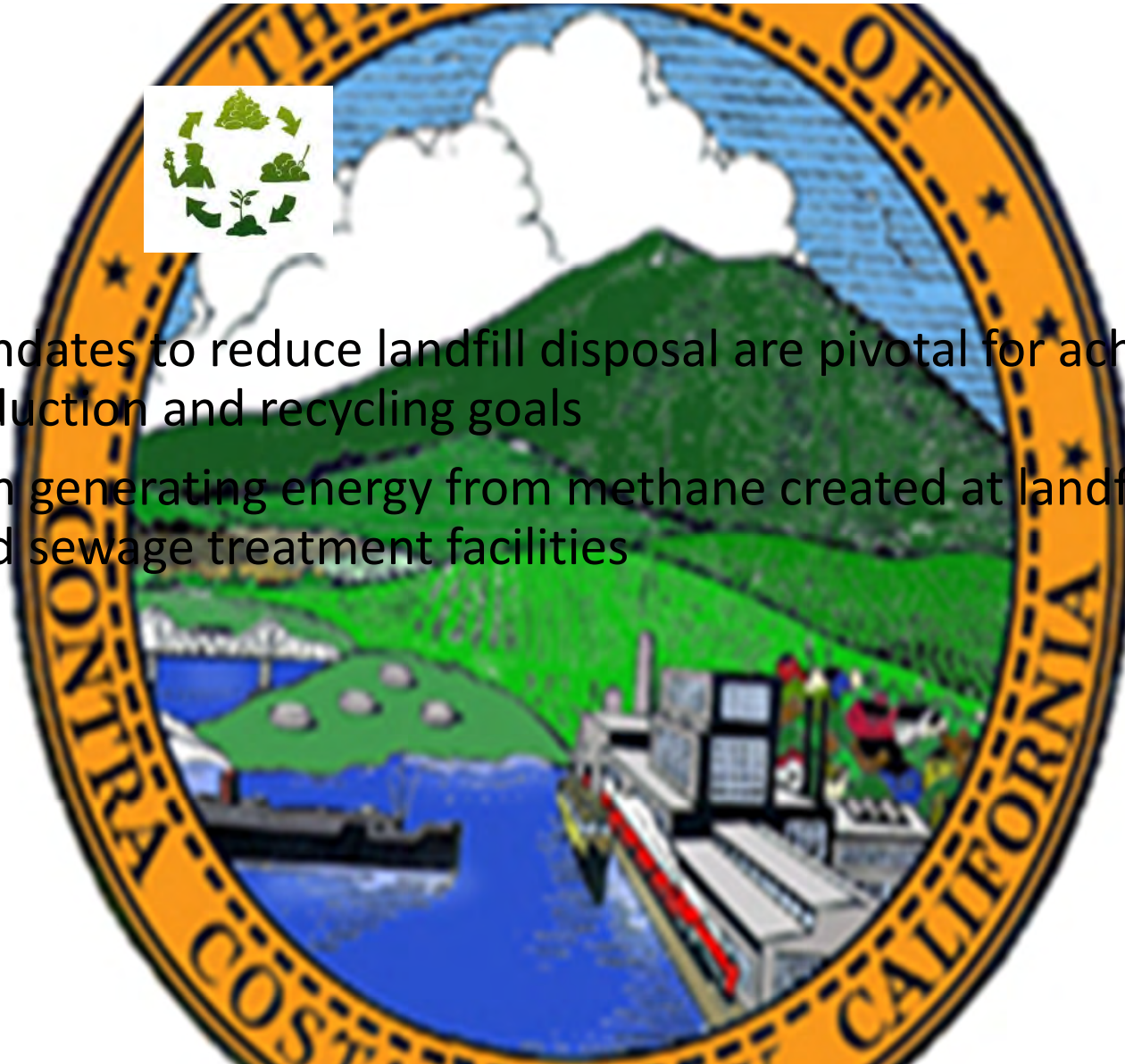
- Climate Action Plan calls for continued support for local farmers markets, community gardens, school gardens, and other urban agricultural practices
- 2017 work will include amending General Plan to encourage community gardens in new residential developments
- Siting of new schools is important



# Waste



- State mandates to reduce landfill disposal are pivotal for achieving waste reduction and recycling goals
- Interest in generating energy from methane created at landfills, waste water and sewage treatment facilities





# Community Choice Energy

- Feasibility study for community choice energy expected in November
- Options:
  - Form CCE in Contra Costa County
  - Join MCE (Marin Clean Energy; five cities in CCC already belong)
  - Join recently approved CCE in Alameda County
  - Stick with PG&E
- Community input process in December and January
- CCE could create market opportunities for renewable energy generated in Contra Costa County



# Water



- Water conservation in homes and businesses falls to EBMUD and Contra Costa Water
- County may update conservation requirements for new developments
- County should begin to promote rainwater collection for irrigation, and allow use of recycled water for irrigation



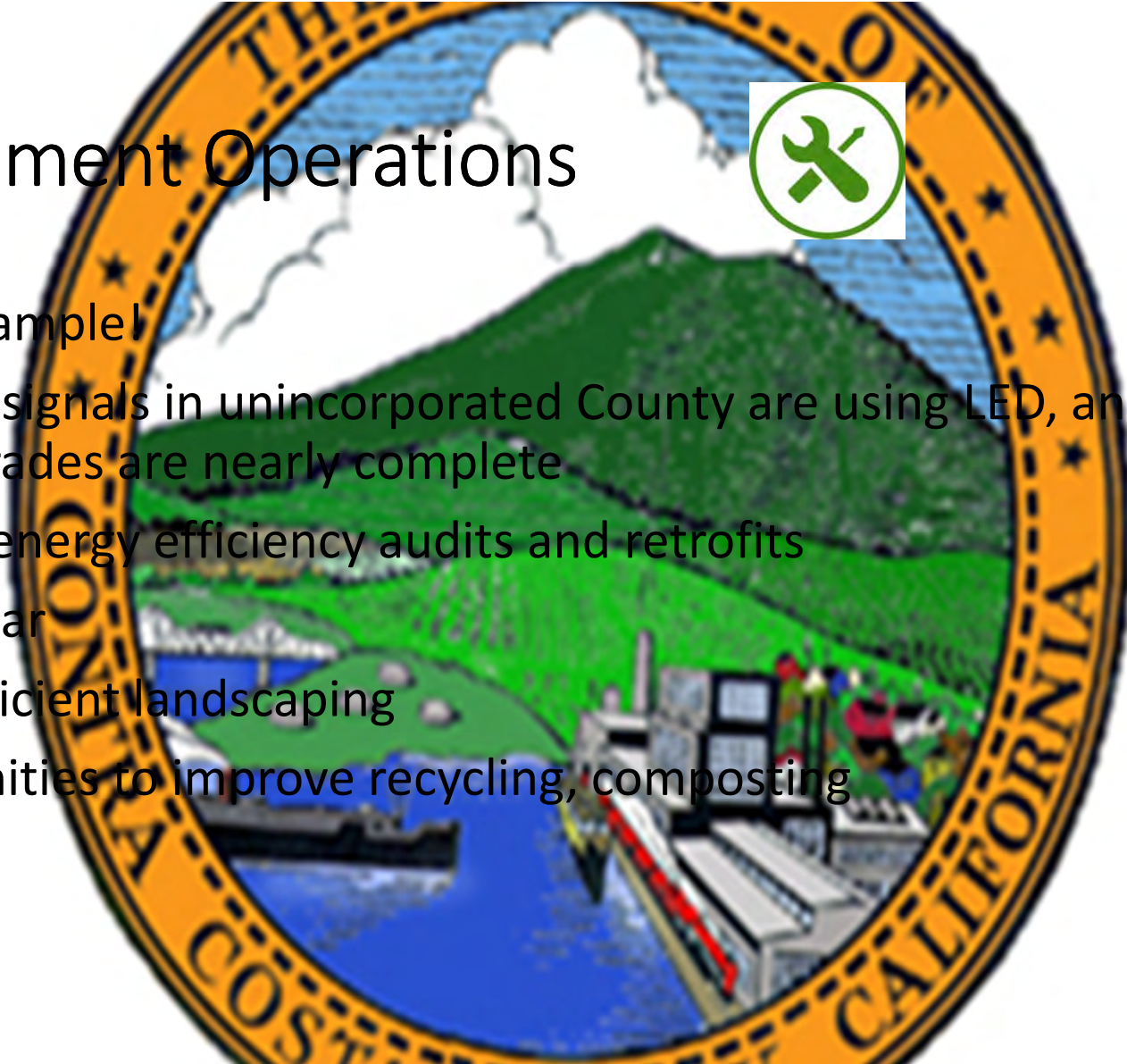


# Government Operations



## Lead by Example

- All traffic signals in unincorporated County are using LED, and street light upgrades are nearly complete
- Ongoing energy efficiency audits and retrofits
- 5 MW solar
- Water efficient landscaping
- Opportunities to improve recycling, composting



# Government Operations



- County fleet just received Clean Champion Award from East Bay Clean Cities
- Opportunities with:
  - Upcoming update of Capital Improvements Plan
  - Potential new County Administrative office
  - Potential new Emergency Operations Center





# Discussion

- What do you think is the best way to align City and County initiatives on sustainability and climate action planning?
- Role of budget and accounting principles – should we be pushing for a move to life-cycle costing, in order to ensure funds for ongoing operation and maintenance of public sector investments?
- Who else should be engaged in the County's Climate Action Plan implementation?
  - Individuals
  - Organizations

