

SAN MATEO COUNTY energy watch



A Joint Project of:



*Pacific Gas and
Electric Company*

C/CAG

City/County Association of Governments
of San Mateo County

COUNTY OF SAN MATEO

RECYCLEWORKS 

RICAPS

Regionally Integrated Climate Action Planning Suite

Presentation to C/CAG Board
March 12, 2015

History

- 2009 – Bad economy made it difficult for cities to prioritize CAP development; especially small cities
- C/CAG developed funding to create CAP tools:



Grant(s) GOAL:
7 CAPs drafted by
end of 2012

2009

Jurisdiction	Adopted CAP
Atherton	
Belmont	
Brisbane	
Burlingame	X
Colma	
Daly City	X
East Palo Alto	
Foster City	
Half Moon Bay	
Hillsborough	X
Menlo Park	X
Millbrae	
Pacifica	
Portola Valley	
Redwood City	
San Bruno	
San Carlos	X
San Mateo	X
South San Francisco	
Woodside	
County	
TOTALS	6



Cupertino

RICAPS Elements

Regionally Integrated Climate Action Planning Suite

TOOLS:

1. CAP Template
2. Menu of Measures
3. Users Guide
4. Forecasting Tool
5. Hara Tool

C/CAG Transportation (TCAP)



PLUS:

- Technical Assistance The logo for DNV-GL, consisting of three horizontal bars in light blue, dark blue, and green, with the text "DNV-GL" in black below them.
- Multi-City Working Group



Expansion

2011 GOAL:

Promote RICAPS to other counties

- Presentations to other congestion management agencies, county managers, planning directors
- Grant application to *California* **Strategic Growth Council**

Grant application was not successful, so...

NEW GOAL:

Focus on support for implementation

CAP Progress

2015 Goal:
Every city has
completed a
draft CAP,
ready to adopt

Jurisdiction	Drafted/ In progress	Adopted
Atherton	X	
Belmont	X	
Brisbane	X	
Burlingame		X
Colma		X
Daly City		X
East Palo Alto		X
Foster City	X	
Half Moon Bay	X	
Hillsborough		X
Menlo Park		X
Millbrae	X	
Pacifica	X	
Portola Valley	X	
Redwood City		X
San Bruno	X	
San Carlos		X
San Mateo		X
South San Francisco		X
Woodside	X	
County		X
C/CAG TCAP	X	
TOTALS	11	11

Using
RICAPS
Tools and
Technical
Support

Innovative CAP Implementation

SAN MATEO COUNTY
energy
watch Program Activity



Comprehensive Energy Recommendations

Engineering support for bundles of projects leveraging PG&E 0% financing

Technical partner: Ecology Action



School Prop 39 Support

Benchmarking, assistance getting audits, Expenditure Plan development, guidance

Staffing: Andrea Pappajohn,

Jacki Falconio (CCBA Fellow)

PLUS:



Innovative CAP Implementation



Zero Net Energy (ZNE) 2-Day Workshop

May 18 – Local Governments

May 19 – Builders/architects, homeowners, realtors

Staffing: Jacki Falconio (CCBA)



LR₂C₂ – Large Residential Resource Conservation Collaborative

- Atherton, Hillsborough, Portola Valley, Woodside, Menlo Park
- “Plug load,” Lawn Be Gone, CAP measures

Staffing: Jacki Falconio (CCBA), Kyle Ramey (AmeriCorps)

Innovative CAP Implementation



Water Conservation

School water benchmarking, program outreach to nurseries, hardware stores

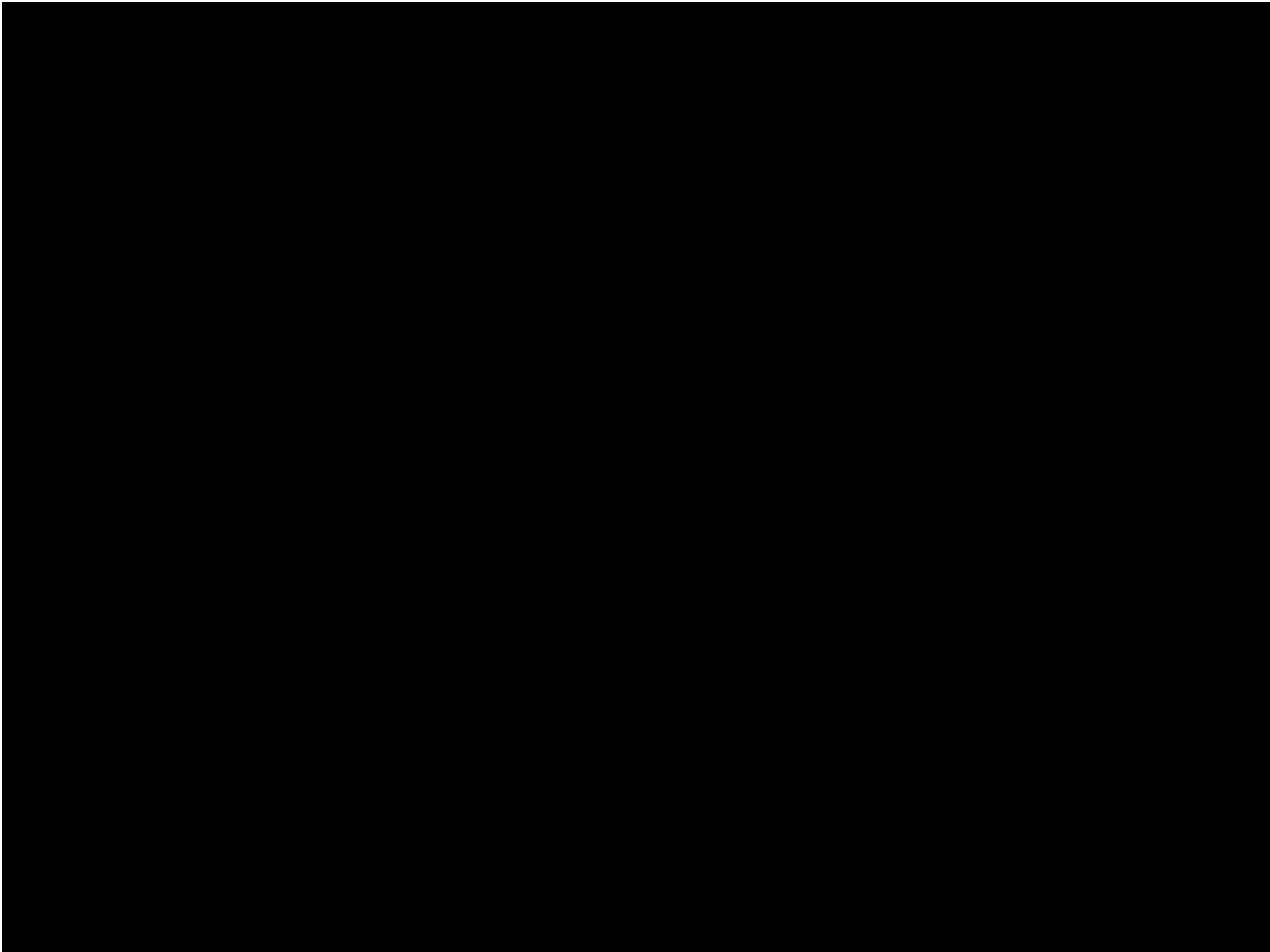
Staffing: Kyle Ramey (AmeriCorps) – shared with Bay Area Water Supply and Conservation Agency (BAWSCA)



Outreach to Small Businesses

- Campaigns coordinated with cities, Chambers
- New marketing materials
- GOAL: Businesses sign up for no-cost energy assessment from SMC Energy Watch

Staffing: Eddie Ashley (CCBA Fellow)

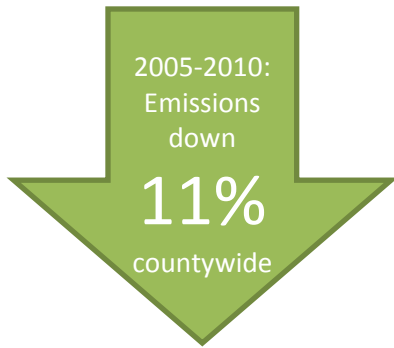


Join the
SAN MATEO COUNTY
energy
watch
CHALLENGE
How much will *you* save?

Cooperative Competition

- News hook: Elected officials work together toward common goal
- GOAL: Encourage businesses to get no-cost energy assessments
- Co-benefit: Donations to local charity
- Prize: Lunch/party for businesses and elected officials

Reporting & Tracking



Greenhouse Gas Inventories

- Municipal operations
- Community-wide



Beacon Award

- C/CAG is Beacon Award Champion
- 9 participants so far: Brisbane, Burlingame, Daly City, Foster City, Millbrae, Portola Valley, Redwood City, San Carlos, San Mateo



Annual Report to Council

- CAP progress for Earth Day
- 4 cities: Foster City, Millbrae, Portola Valley, Redwood City, so far

Reporting & Tracking

Unincorporated County: Building Energy Use

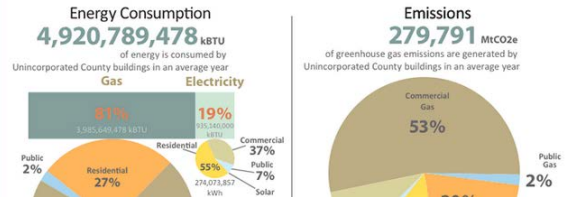


San Mateo County Energy Watch, in partnership with Pacific Gas and Electric Company (PG&E), has compiled the following data to illustrate the trends and impact of energy consumption in buildings. These graphs show the proportional and total use of natural gas versus electricity, and show consumption trends from both a collective and individual standpoint. At the bottom, we highlight the investments Unincorporated County's community has made in generating clean energy from either energy efficiency and/or solar photovoltaic (PV) systems.

Unincorporated County
2010 Demographics:
2010 Population: 61,330
2010 Employment: 46,430

Snapshot: Building Energy Consumption and Emissions

Unincorporated County's energy consumption data includes both PG&E's energy sources and grid-tied solar installations. Each city will have slight differences in the percentages between their energy data and their greenhouse gas emissions because of two factors: 1) Emissions from PG&E's electricity mix change each year depending on influences like weather patterns and state mandates for increased renewables. 2) Currently, natural gas releases fewer emissions than PG&E's electricity mix. Solar doesn't release emissions.



City Progress Reports

- Building energy use by city
- On www.smcenergywatch.com
- 2012 and 2013 data coming soon

Online Tracking of CAP Progress

- Examples:
 - Kings County, Washington
www.kingcounty.gov/environment/climate
 - City of Berkeley
www.ci.berkeley.ca.us/climateprogress/
- Potential intersection with County Open Data Portal

The screenshot shows the City of Berkeley website's navigation menu (Home, Residents, Businesses, Visitors, Services, Elected Officials) and a search bar. The main content area is titled "ENERGY & SUSTAINABLE DEVELOPMENT" and includes a "printable version" link. The "Climate Action Plan Progress" section provides information about Berkeley's progress toward achieving its Climate Action Plan goals in areas like Transportation and Land Use, Building Energy Use, Waste & Recycling, Community Outreach, and Adaptation & Resilience. It mentions that the plan identifies 30 specific goals designed to help reduce Berkeley's community-wide global warming emissions 33% by 2020 from 2000 levels. Below this, there are five icons representing core strategies: Transportation & Land Use, Building Energy Use, Waste Reduction & Recycling, Community Outreach, and Adaptation & Resilience. An "Additional Information" section lists links for the Climate Action Plan, Take Action on Climate Change, Climate Action Plan Programs and Services, and Greenhouse Gas Emissions Inventory. A footer link returns to the Office of Energy and Sustainable Development homepage.

Looking Ahead

2016 – 2025 Program Cycle

- Planning happens Summer 2015
- Contracting likely in Fall 2015

New Synergies

- Merger with County Office of Sustainability
- Exploring additional grant sources

Evaluating Needs

- Input from cities – March 31 RICAPS meeting
- What are your goals/interests?





Thank you!

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