

SAN MATEO COUNTY  
energy  
watch



# San Mateo County Energy Watch Update

Presentation to CMEQ  
September 29, 2014

# San Mateo County Energy Watch (SMCEW)

**PARTNERSHIP:**



**PROGRAM MANAGEMENT:**



COUNTY OF SAN MATEO  
RECYCLEWORKS

**OVERSIGHT:**

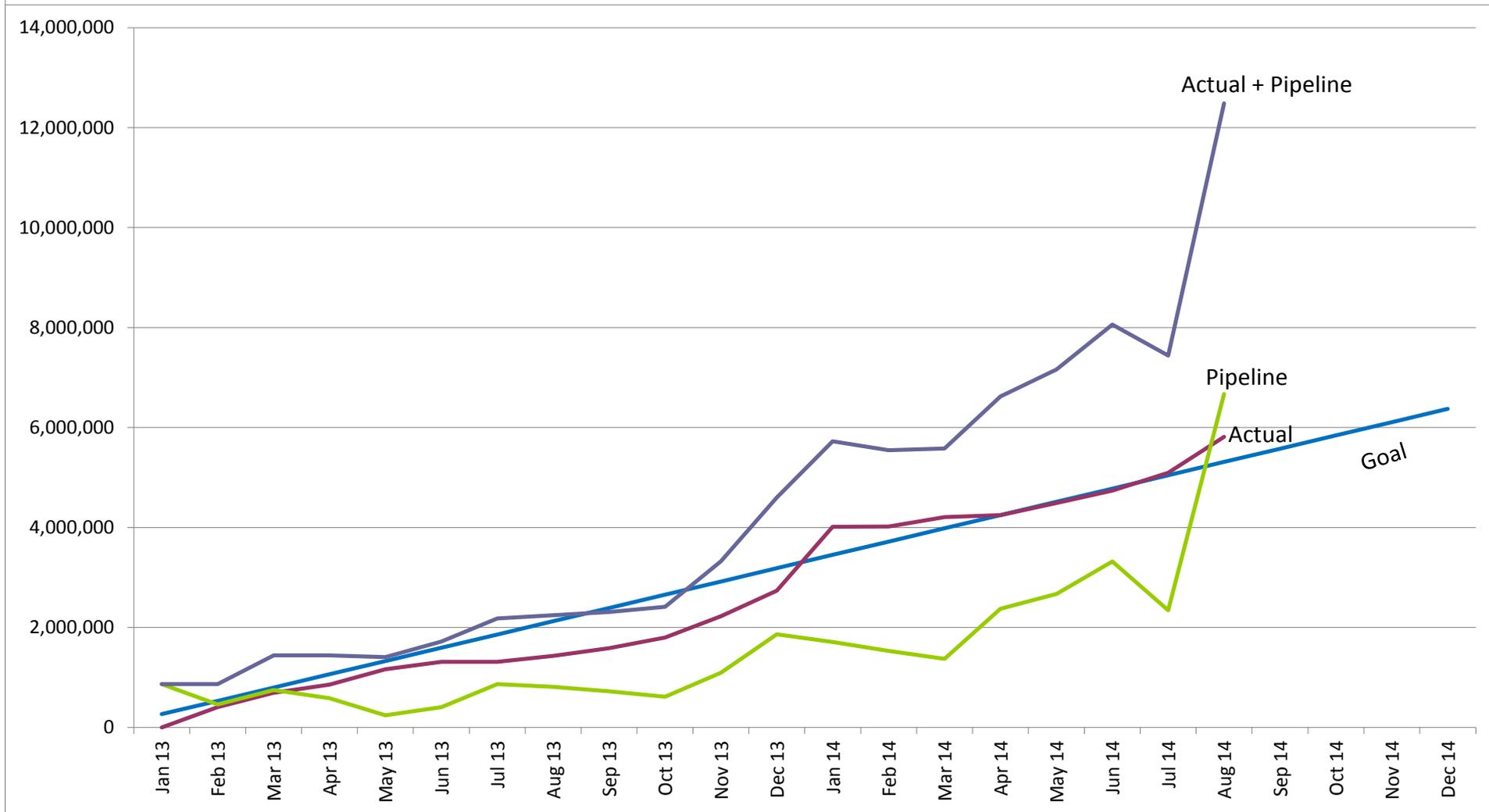


**PURPOSE:**

- Drive energy efficiency projects for “hard-to-reach” customers
- Assist cities with climate action planning and implementation

# SMCEW Progress Toward Goals

## San Mateo County Energy Watch 2013-2014 Energy Savings - kWh Goal vs. Achieved



# Support to Public Agencies for Energy Efficiency Upgrades



Local Governments (LG)	HVAC & Lighting Audits	Proceeding with HVAC & Ltg Projects	Streetlight Projects in Process
01 Atherton			
02 Belmont	X	X	X
03 Brisbane	X	X	X
04 Burlingame	X		
05 Colma	X	X	X
06 Daly City	X		X
07 East Palo Alto	X	X	
08 Foster City	X	X	
09 Half Moon Bay*			
10 Hillsborough	X		
11 Menlo Park	X	X	
12 Millbrae			
13 Pacifica			
14 Portola Valley	X		
15 Redwood City	X	X	X
16 San Bruno			X
17 San Carlos	X	X	X
18 San Mateo	X	X	X
19 South San Francisco	X	X	X
20 Woodside			
21 County – Municipal	X	X	X
<b>Total</b>	<b>15</b>	<b>11</b>	<b>10</b>

\*Half Moon Bay audits will begin Jan. 2015

PARTNERS:



# Prop 39 Support for Schools

- 8 Focus Districts

- Bayshore
- Brisbane
- Jefferson Union
- La Honda-Pescadero
- Las Lomas
- Millbrae
- Portola Valley
- Ravenswood City

- Expenditure Plans Submitted

- Belmont-Redwood Shores
- Menlo Park City
- San Mateo-Foster City
- Sequoia Union

- Developing In-house Capacity

- Coordinator – Andrea Pappajohn
- Engineering Liaison – Jacki Falconio



**PARTNERS:**



Anne E. Campbell • County Superintendent of Schools



Water benchmarking continuing



# Continuing Support for Climate Action Planning

**RICAPS**  
Regionally Integrated Climate Action Planning Suite

PARTNERS:



- Develop Climate Action Plans using RICAPS
- Develop GHG emissions inventories
- Monthly working group with cities
- Support with implementation

# Climate Action Plans

**PARTNERS:**



Local Governments (LG)	2010 GHG Inventories	Monthly Working Group	Drafted or Adopted CAP
01 Atherton	X	X	X
02 Belmont	X	X	X
03 Brisbane	X	X	X*
04 Burlingame	X	X	X
05 Colma	X	X	X
06 Daly City	X		X**
07 East Palo Alto	X	X	X
08 Foster City	X	X	X
09 Half Moon Bay	X	X	
10 Hillsborough	X	X	X
11 Menlo Park	X	X	X
12 Millbrae	X	X	X
13 Pacifica	X	X	X
14 Portola Valley	X	X	X
15 Redwood City	X	X	X
16 San Bruno	X		X
17 San Carlos	X	X	X
18 San Mateo	X	X	X
19 South San Francisco	X	X	X
20 Woodside	X	X	X
21a County – Municipal	X	X	X
21b County – Unincorp	X		X
22 C/CAG transportation		X	X
<b>Total</b>	<b>22</b>	<b>20</b>	<b>21</b>

SMCEW has helped every local government

\*Brisbane is working on an Energy Action Plan.

\*\*Daly City's CAP doesn't have quantifiable measures.

# Countywide GHG Emissions

PARTNERS:



- 2013-2014: DNV GL provided **2010 community GHG inventories** for all cities, county
- 2015: Requesting funding to provide **annual community GHG inventories**

	2005 Total GHG Emissions	2010 Total GHG Emissions	% Change
County-wide GHG Emissions	6,734,247 MTCO <sub>2</sub> e	5,974,979 MTCO <sub>2</sub> e	11% 



# Countywide GHGs: Energy

Sub-Sector	Fuel	2005 Energy Use	2010 Energy Use	% Change
Residential	Electricity	1.549 billion kWh	1.584 billion kWh	2% 
	Natural gas	129.2 million therms	132.4 million therms	2% 
Commercial/ Industrial	Electricity	2.438 billion kWh	2.604 billion kWh	7% 
	Natural gas	165.9 million therms	116.4 million therms	30% 
Direct Access – Electricity	Electricity	394.3 million kWh	342.6 million kWh	13% 

Note: Direct Access – Natural Gas not shown separately, but is included in Commercial / Industrial Sector

GOAL: Increase Public Awareness

# Beacon Award Support



- Recognition for interim accomplishments
- PR from ILG to public, colleagues, statewide
- Need from cities – Council Resolution

PARTNERS:



		Beacon Award Levels			Source of Data
		Silver	Gold	Platinum	
<b>Government Operations</b>	GHG savings in agency operations	5% reduction	10% reduction	20% reduction	RICAPS
	Energy savings in agency facilities	5% savings	10% savings	20% savings	PG&E
<b>Community Level</b>	GHG savings in community	5% reduction	10% reduction	20% reduction	RICAPS
	Energy efficiency in community	1 activity	2 activities	4 activities	PG&E
<b>Best Practices</b>	10 Best Practice Areas	1 activity in each Best Practice Area	2 activities in each Best Practice Area	3 activities in each Best Practice Area	Sustainable San Mateo County (as available)



GOAL: Increase Public Awareness

# Annual Reports to Councils

PARTNERS:



- Template and support to cities provided by RICAPS
- Content:
  - 2010 GHG inventory data
  - Overview of climate action plan strategies and progress
- Proposed timing: Earth Day 2015

## GOAL: Support for CAP Implementation Countywide EE Campaigns

### PARTNERS:



### Partners:

- **SMC Energy Watch** - Drive campaigns
- **Cities** – Bring audience, leverage public officials
- **Ecology Action** – Marketing, turnkey program
- **PG&E** – Usage data for identifying best commercial segments, customer outreach, coordination with additional programs

### Initial Target Customers:

- Restaurants
- Gas stations
- Warehouses
- Small retail
- Convenience stores

Coordination by:  
Eddie Ashley,  
CCBA Fellow



GOAL: Support for CAP Implementation

# DOE Grant: Solar Promotion

SERVICE PROVIDERS:



**For local governments:**



Technical assistance - streamlined solar permitting

**For residents:**



Online solar marketplace to compare quotes from pre-screened installers

# GOAL: Support for CAP Implementation

# Real Estate Collaboration

PARTNERS:



**Goal:** Drive demand for energy efficient homes

## Initiatives:

- **Classes** about green homes for realtors, lenders
- **Partnering with SAMCAR:** Classes, networking sessions, regular presentations at SAMCAR meetings
- **LinkedIn** group



GOAL: Support for CAP Implementation  
**Zero Net Energy Tool kit**

**PARTNERS:**



Move from “Why build to ZNE?”

“How to get started”



- Website info
- Networking events
- Classes

Coordination by:  
Jacki Falconio, CCBA Fellow

# Future SMCEW Efforts

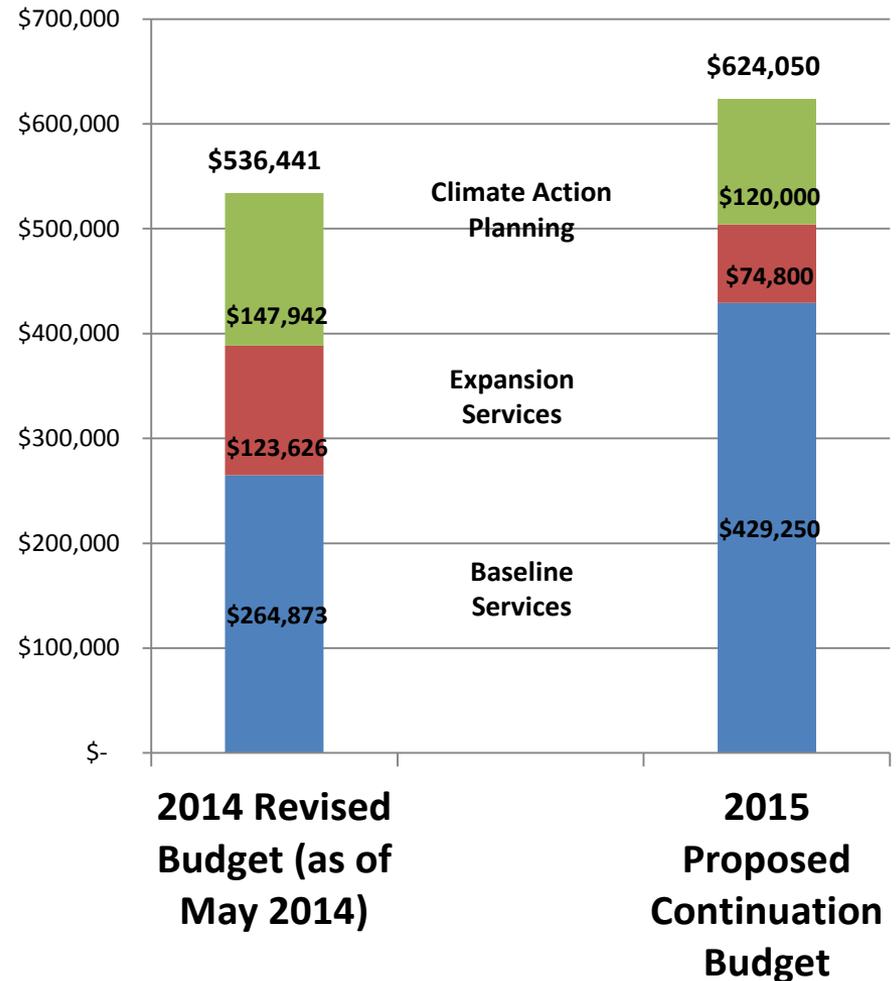
## 2014-2015:

- Expand **water conservation** efforts (shared CCBA Fellow with BAWSCA)
- Update city **progress reports**
- **Expand funding** and savings goals – commercial, schools
- Promote **residential online diagnostic tool**

## 2016 and beyond:

- Potential 10-year rolling cycle – higher goals/additional funding

- **Contract with PG&E for 2015**





**Thank you!**

**Susan Wright**

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