

# BayREN Update

ABAG Administrative Committee  
March 2, 2015



**ABAG**

ASSOCIATION  
OF BAY AREA  
GOVERNMENTS

**BAY  
AREA** Regional  
Energy  
Network

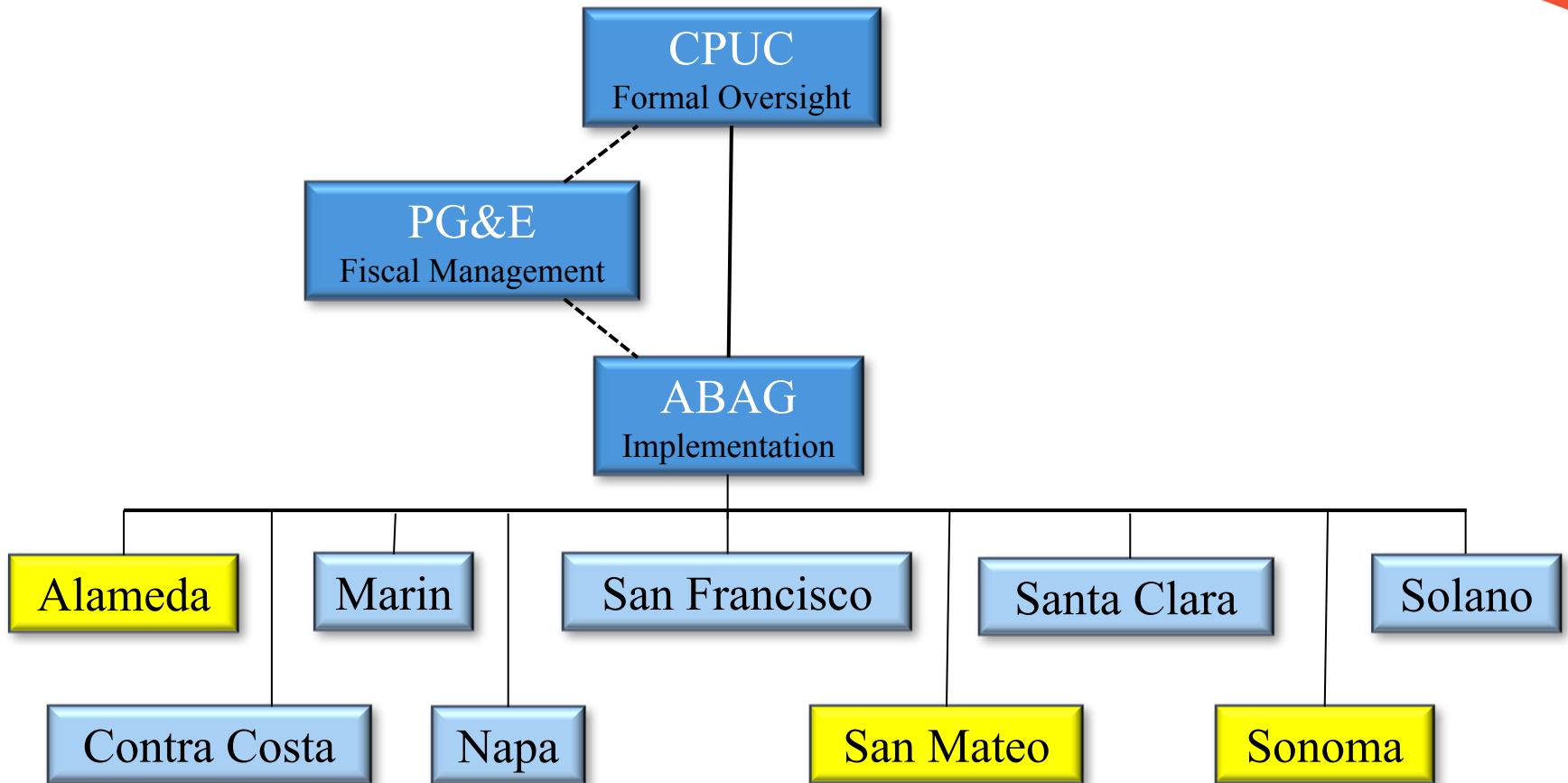
# BayREN

(Bay Area Regional Energy Network)



- BayREN is made up of public agencies representing all nine counties in the Bay Area
- One of only two regional energy networks in California
- 20% of the state's population
- 50% population within Pacific Gas and Electric Company service territory
- Draws on the expertise, experience, and proven track record of local agencies and their staff

# BayREN Organization



## BayREN Impacts

BayREN creates meaningful impact across the Bay Area:

- Energy Savings
  - Economic Stimulus
  - Job Creation
  - Environmental Policy Advancement
- 
- 2013-14 Funding: **\$22.7 million**
  - 2015 Funding: **\$12.8 million**



## Programs



- ❖ **Single Family Retrofit**
- ❖ **Multifamily Retrofit & Financing**
- ❖ **Energy Codes and Standards**
- ❖ **Pay-as-You-Save (PAYS)**
- ❖ **Commercial Pace Outreach**

## Single Family Program Offering

BayREN's program:

- Provides homeowners who install energy-efficient home improvements **\$1,000–\$3,150** in rebates and incentives
- Recruits, trains and qualifies Specialty Contractors for program participation
- Provides regional and local marketing, education and outreach activities for customers and contractors
- Offers a Home Upgrade Advisor for free one-to-one assistance for homeowners and contractors

# Economic Stimulus

## Highlight – Single Family Program



**\$9.5 million**

In total projects

**\$2.2 million**

Paid or reserved  
incentives



## Job Creation

### Highlight – Single Family Program



**\$1.1 million**

Estimated contractor wages generated

**35,104**

Total Home Upgrade  
Project worker hours



**51.3**

Average number of labor hours for each Home Upgrade Project required, equivalent to more than a week's worth of work for a contractor



# Energy Savings

## Highlight – Single Family Program

**247,468** kWh (electricity)

**65,105** therms (natural gas)



**516**

metric tons of CO2 conserved -  
same emissions created by driving a passenger car  
around the globe almost 50 times

# Connecting to the Community

## Training & Events

To leverage local relationships, BayREN members tailored custom, direct outreach to best communicate with their county.

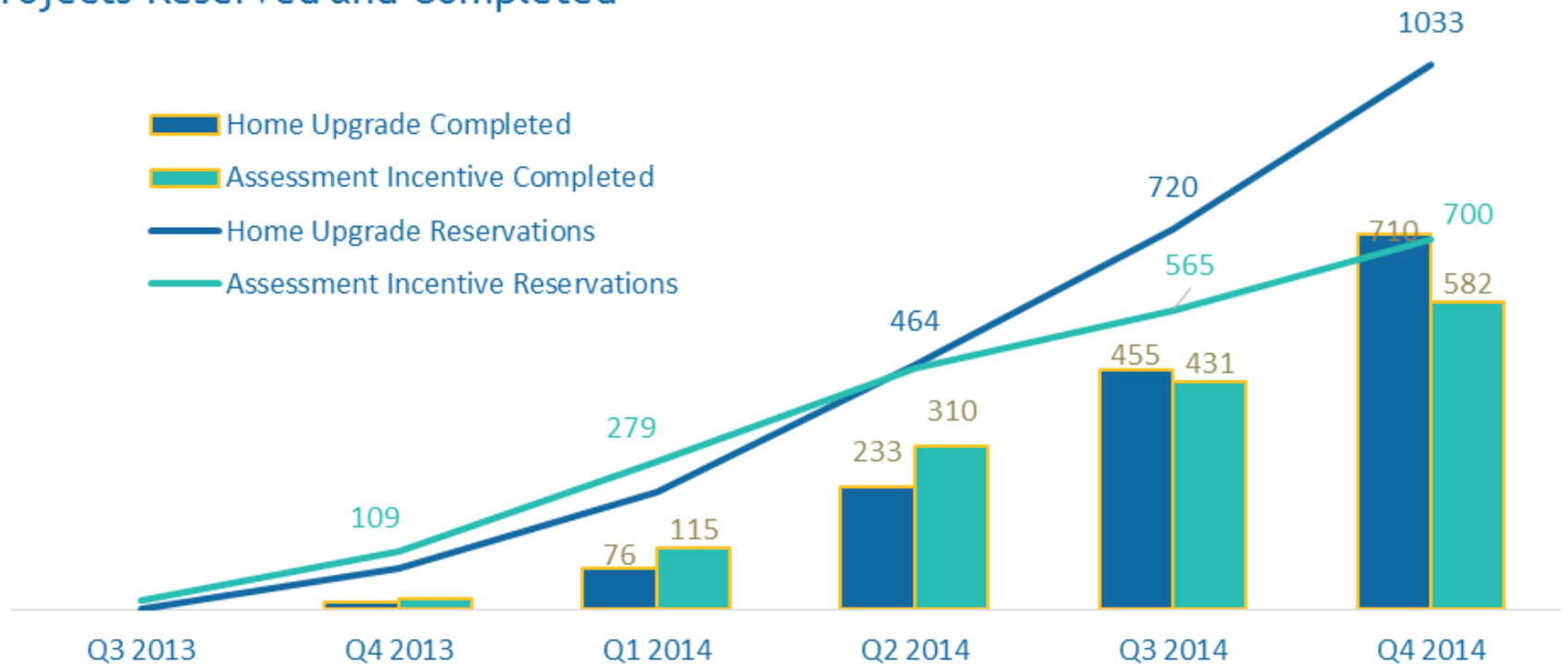
Contractors were trained to participate in the program, while grassroots efforts drove community awareness:

- **301** Community events total
- **50** Homeowner workshops
- **140** Outreach tabling events
- **73** Canvassing events
- **38** Presentations to homeowners
- Ongoing Contractor Trainings



# Single Family At a Glance

## Projects Reserved and Completed



# Multifamily Program Offering

BayREN offers cash rebates and free energy consulting for multifamily properties with five or more attached dwelling units that make energy upgrades.

- Offers rebates of **\$750** per unit for multifamily building upgrades
- Offers comprehensive technical assistance to multifamily property owners to identify and prioritize energy upgrades and qualify for rebates



## Multifamily Achievements

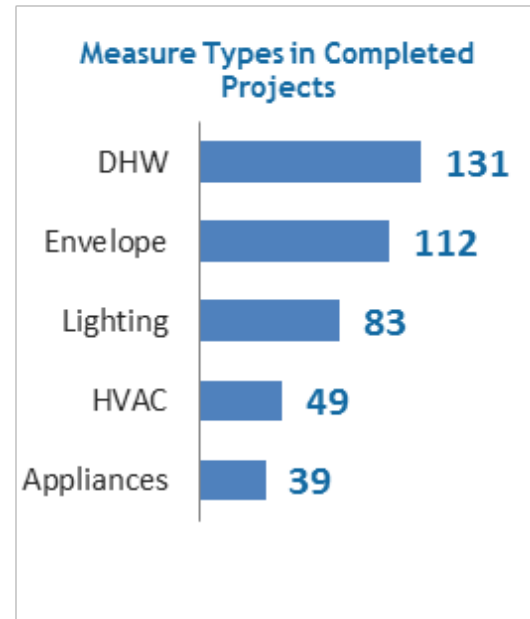
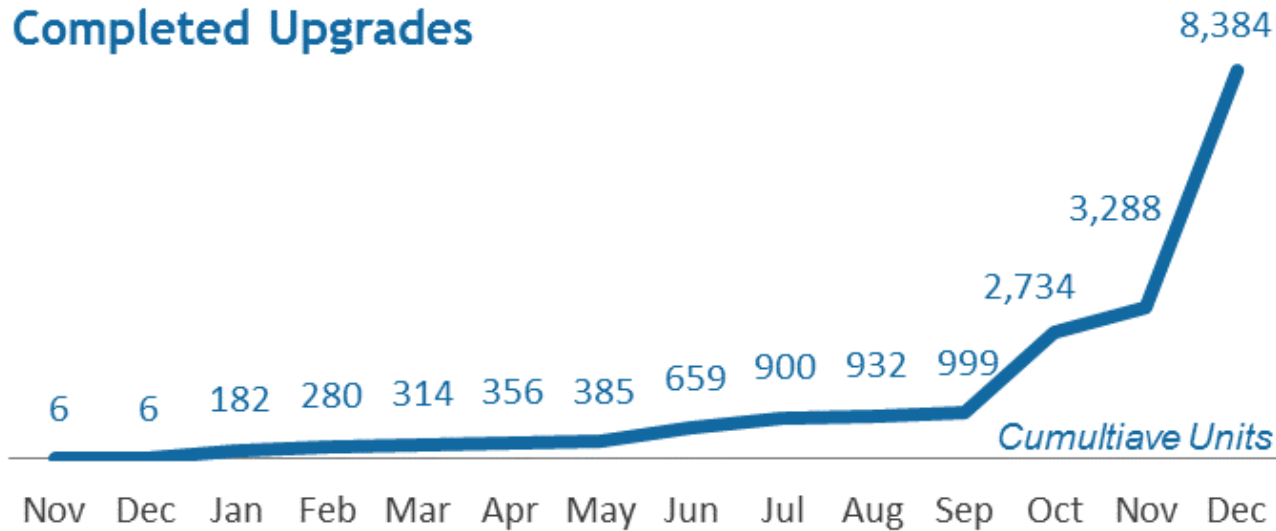
The program has been extremely successful, outperforming expectations and comparable programs statewide, by a factor of three to four.

- **8,340** Total Units Completed (exceeded program goals by more than 200%)
- **16%** Average Estimated Savings
- Average Estimated Savings Per Completed Unit: **406 kWh + 31 Therms**
- Total Rebates received by property owners = **\$6.2 million**

***BayREN's multifamily program stands out as an exemplary environmental improvement program not just in the Bay Area, but across the state.***

# Multifamily At a Glance

## Completed Upgrades



# Energy Savings

## Highlight – Multifamily Program

**3,400,000** kWh (electricity)  
**260,000** therms (natural gas)



**3,670**  
metric tons of CO<sub>2</sub> conserved  
same emissions created by 773 passenger cars or  
3.9 million pounds of coal burned

# Case Study

## Reflections Condominiums - Contra Costa

Reflections, a community of nearly 300 condominiums in San Ramon, recently completed a BAMBE project . Energy efficient measures included replacing exterior lighting, installing energy efficient windows, installing an on-demand water heater and high efficiency insulated storage water heaters

Results:

16.6% overall energy savings

Water savings

In-unit noise reduction

Increased safety from improved lighting

Rebate amount of \$222,000

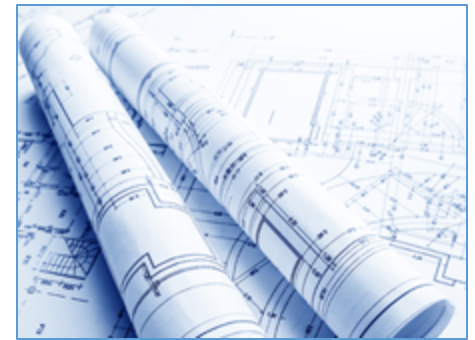




# Codes and Standards

## Purpose

- Provide support for cities and counties to better implement energy codes
- Maximize energy savings in new buildings
- Advocate for enhanced local energy codes
- Share best practices and develop resources



# Codes and Standards Achievements

- Improvements to local government codes and processes
  - **15** Permit Resource Opportunity Program jurisdictions for enhanced energy code compliance processes in building departments
- Advocacy for new energy policy and legislation
  - **351** attendees across **7** regional forums
- Training for local governments and building professionals on code compliance and enforcement
  - Exceeded energy code training goal by **42%**

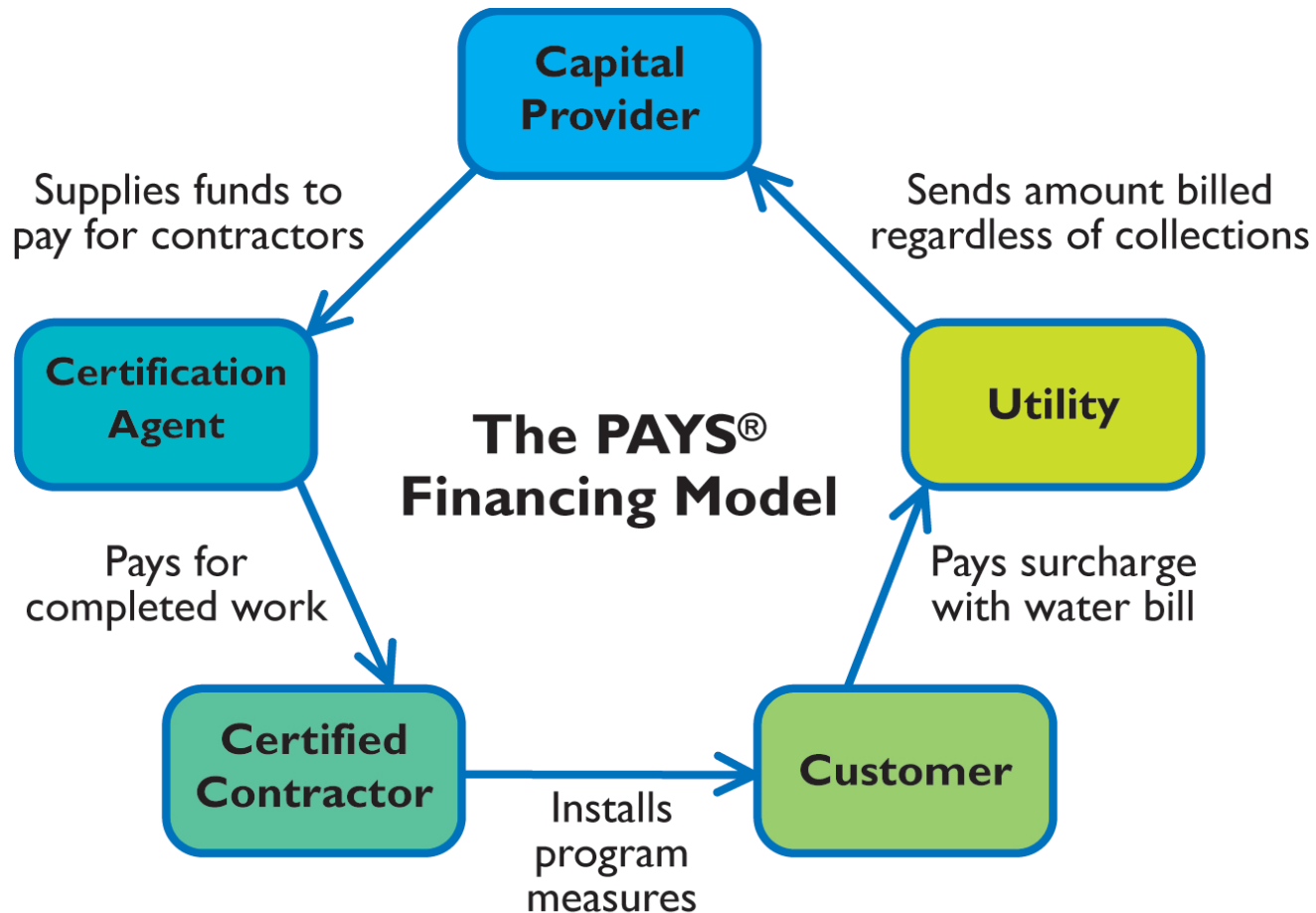
# PAYS Program Offering

## What is it?

A system of contracts between implementers of resource efficiency programs that:

- **Enables utility customers** to purchase and install money saving water- and energy-based technologies with no up-front cost through a surcharge on the customer's utility bill
- **Increases program effectiveness** to meet or exceed utility energy and climate goals
- **Allows a utility to shift rebate funds** to more strategic purposes

# How PAYS is delivered



## BayREN Water Utility Partners

- Town of Windsor – Expansion of pilot to commercial landscaping
- City of Hayward – focus on multifamily properties, with goal of 2,000 units
- EBMUD – Project design for multifamily pilot
- SFPUC – potential partner



# Commercial PACE Program Offering

- Court validations for Bay Area Counties
- Developing trainings for contractors
- Promotional activities and materials



# Opportunities and Challenges

- CPUC: BayREN is a “pilot”
- President Picker: “LGs are ‘psychotic’ for asking the IOUs for EE program direction”
- Diversity of funding
- Expansion of PAYS
- Coordination with other ABAG efforts, i.e. Resiliency Group