STRATEGIC PLAN HIGHLIGHTS AND LOCAL GOVERNMENT CASE STUDIES

Webinar April 7, 2014 2:00PM - 4:00PM



Statewide Energy Efficiency Collaborative

AN ALLIANCE TO SUPPORT LOCAL GOVERNMENT

The Statewide Energy Efficiency Collaborative (SEEC) is an alliance to help cities and counties reduce greenhouse gas emissions and save energy. SEEC is a collaboration between three statewide non-profit organizations and California's four Investor Owned Utilities.









Pacific Gas and Electric Company



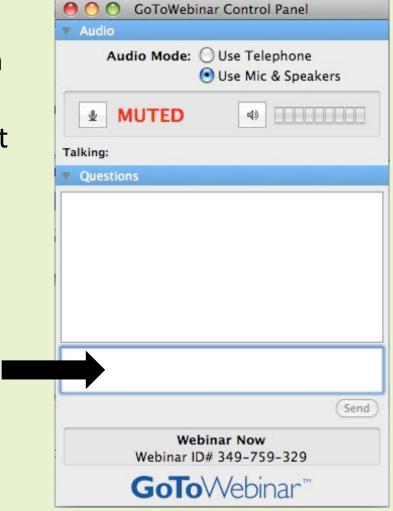




This program is funded by California utility ratepayers and administered by Pacific Gas and Electric Company, San Diego Gas and Electric Company, Southern California Edison and Southern California Gas Company under the auspices of the California Public Utilities Commission.

WEBINAR LOGISTICS

Questions: At any point during the webinar, you can type your question into the question text box and click send. Questions will be read aloud at the end of the webinar after all presentations are done, as long as time permits.



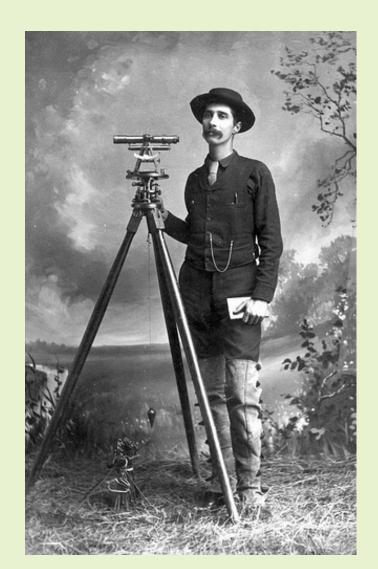
WEBINAR RESOURCES



www.lgc.org/events/seec2014-webinar18

WEBINAR SURVEY

When you log out of the webinar you will be asked to complete a survey – please take 5 minutes to provide us with input which will help inform future webinars.



WEBINAR AGENDA

2:00	WEBINAR LOGISTICS & INTRODUCTION
	Joseph Oldham, Statewide Local Government Energy Efficiency Best Practices Coordinator
	SUCCESS STORIES & LESSONS LEARNED
2:15	OUTREACH / COMMUNITY ENGAGEMENT
	Joshua Brock, SDG&E Michelle Castagnola – Chula Vista Free Business Energy Evaluations Program
2:35	ENERGY EFFICIENCY POLICIES
	Scot Mann, SCE Gabriel Diaz – Moreno Valley Reach Codes Lessons Learned
2:55	UTILITY ENERGY MANAGEMENT SYSTEMS
	Jillian Rich, PG&E Barry Hooper – San Francisco's Existing Commercial Buildings Ordinance
3:15	CODE COMPLIANCE
	Paulo Morais, SCG
3:25	CLIMATE & ENERGY ACTION PLANNING
	Becky Estrella, SCG
3:35	Summary
3:40	Q&A
3.40	
4:00	Adjourn

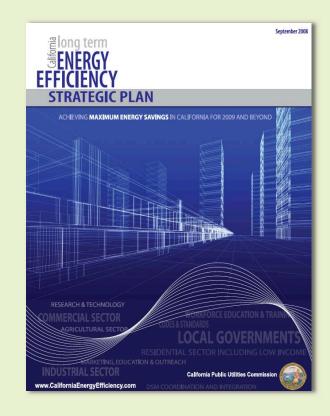
Long Term Energy Efficiency Strategic Plan Historical Context

Current plan was released in September 2008

Designed to provide a roadmap for energy efficiency in California through 2020

The Plan set out "Big Bold" Energy Efficiency Strategies with programmatic goals:

- All new residential construction will be zero net energy by 2020
- All new commercial construction will be zero net energy by 2030
- HVAC will be transformed to ensure that its energy performance is optimal for California.
- All eligible low-income customers will be given the opportunity in the low-income energy efficiency program by 2020.



To address these broad goals, the plan is divided into chapters devoted to specific market sectors; each with its own set of goals and strategies

Local Government Chapter

Vision of the Plan for Local Governments:

"By 2020, California's local governments will be leaders in using energy efficiency to reduce energy use and global warming emissions both in their own facilities and throughout their communities."

12. LOCAL GOVERNMENTS

12.1 VISION

By 2020, California's local governments will be leaders in using energy efficiency to reduce energy use and global warming emissions both in their own facilities and throughout their communities.



12.2 PROFILE

California's 600-plus local governments are remarkably diverse—they range from the largest county in the United States to small towns; from busy agricultural centers to residential suburbs to world-renowned cities. ⁵⁹ This diversity includes energy efficiency: California's local governments and their communities face different circumstances and have different constituencies, and are at different levels of commitment and capacity. Many of them, however, are paying significant attention to energy efficiency and climate change and are interested in doing what they can, as quickly as they can, and in collaboration with their residents, other local governments, State government, utilities and other key participants.

Local governments share a broad array of energy-related authorities and opportunities:

Five goals are listed with a series of menu items for local governments to chose from to work on for each goal:

- 1. Local governments are leaders in adopting and implementing "reach" codes.
- 2. Strong support from local governments for energy code compliance enforcement.
- 3. Local governments lead by example with their own facilities and energy usage practices.
- 4. Local governments lead their communities with innovative programs for energy efficiency, sustainability, and climate change.
- 5. Local government energy efficiency expertise becomes widespread and typical.

Community Outreach and Engagement Activities

Local Government Partnership Strategic Planning Report-Out

Joshua Brock, Supervisor San Diego Gas and Electric









2008 LGP Strategic Plan Menu Items

- 1.1.1. Reach Codes
- 1.1.2. Green Building Code
- 1.1.3. Point of Sale Program
- 1.1.4. IDSM Code Updates
- 1.1.5. Energy Efficiency Codes & Programs
- 1.1.6. Educational Programs
- 1.2.1. Stakeholder Engagement
- 2.1.1. Code Compliance Workshop Attendance
- 2.1.2. Code Compliance and Enforcement
- 3.1.1. Local Gov't Benchmarking Policies
- 3.1.2. Local Gov't 'Utility Manager' Program
- 3.2.1. Local Gov't EAP/CAP
- 3.2.2. Local Gov't Building Standard
- 3.2.3. Local Gov't Revolving Energy Efficiency Fund
- 3.2.4. Local Gov't Commissioning/Retro-Commissioning Policy
- 4.1.1. Community-Wide EAP/CAP Template
- 4.1.2. Customized EAP/CAP
- 4.1.3. Community-Wide Planning for EE
- 4.1.4. Community-Wide EE Savings Analysis
- 5. EE Expertise

Community Outreach and Engagement Activities



FREE Homeowner Workshop

Come learn how you could get \$1,000-\$4,500 in energy efficiency rebates and incentives!

Thurs. Nov 21, 2013 6:30 – 8pm



Downtown Redwood City Library's Community Room - 1044 Middlefield Road

RSVP online:

https://EnergyUpgradeRedwoodCity.Eventbrite.com

Every home has room for improvement when it comes to saving energy and money.

Home energy upgrade benefits include:

Increase comfort
Lower energy bills

Improve indoor air quality

Add value

BayAreaEnergyUpgrade.org

DEL Community Outreach and NORTE MODOC SISKIYOU Engagement **SHASTA** LASSEN TRINITY HUMBOLDT **TEHAMA PLUMAS** Jan 2010-MENDOCINO-¬ GLENN SIERRA March 2014 NEVADA COLUSA YUBA PLACER Completed 17 **EL DORADO** SONOMA NAPA SACRAMENTOAMADOR **Projects** TUOLUMNE CONTRA JOAQUIN MONO 46 **In-Progress** SAN FRANCISCO STANISLAUS MARIPOSA **Projects** SAN SANTA MATEO MERCED MADERA **Total Projects** 63 SANTA CRUZ FRESNO SAN INYO BENITO **TULARE** MONTEREY KINGS **SAN LUIS** KERN **OBISPO** BERNARDINO SANTA BARBARA VENTURA ANGELES RIVERSIDE IMPERIAL SAN DIEGO

Thank You

Joshua Brock

jbrock@semprautilities.com

858.503.5129



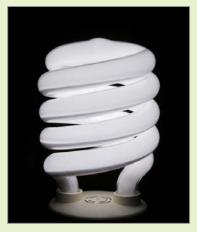






Free Resource and Energy Business Evaluations











Business Energy & Water Evaluations

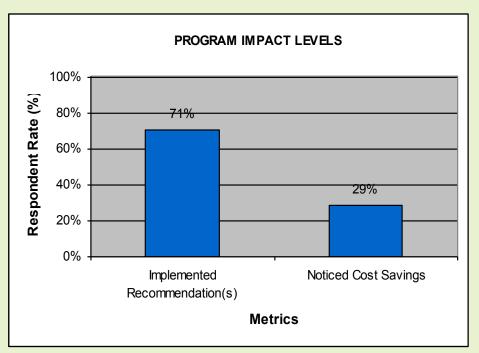
Voluntary Participation

432 participants

Post-assessment surveys

Implement recommendation(s)

Noticeable cost savings





Free Resource & Energy Business Evaluations

- Ordinance linking FREBE to business licenses
- Required for storefronts & offices
 New businesses (first year)
 Existing businesses (every 4 years)
- Exemptions
 Home-based
 Mobile
 Participated in similar program (past 4 yrs)
- Not required to complete EE retrofits
- Non-compliance fine (\$15 or 5%)



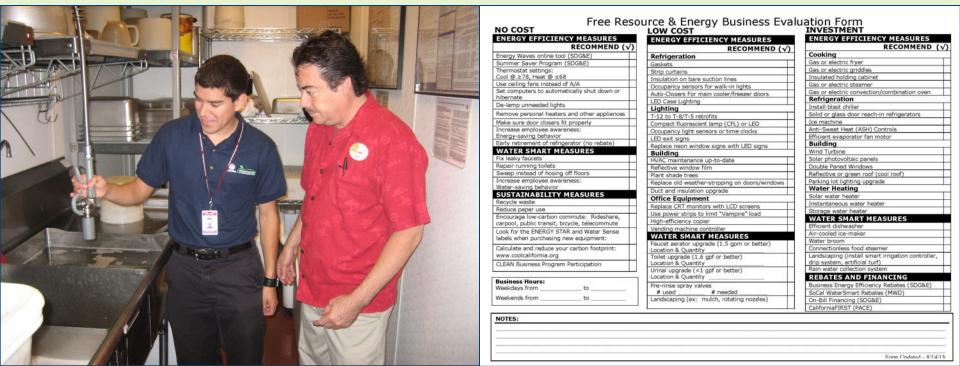




Free Resource & Energy Business Evaluations

- 30-minute onsite evaluation by trained City staff (interns)
- Review w/ business owner or manager:
 Utility bills & rate
 Energy, water, & other sustainability opportunities (& rebates)

 Immediate referrals to Direct Install/3rd Party programs
- "Solutions Report" delivered within 1 month



Free Resource & Energy Business Evaluations

RESULTS (CY2013)

- •680 evaluations completed
- •305 referrals to DI program
- •71% implemented at least 1 recommendation (survey)
- •92% would recommend FREBE
- •50 recruited into CLEAN Business program
- •Over 2,500 businesses in our database (cumulative)







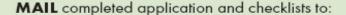
It's EASY to become a Chula Vista CLEAN Business!

Follow these three simple steps:

APPLICATION. Review the certification criteria and checklists. Complete the checklists by indicating the suggested measures/practices your business would like to implement. Once implemented, fill out and submit an application and your completed checklists for review.

VERIFICATION. Allow program staff to verify the selected measures and track your progress by setting up a site visit at your business. Call (619) 691-5122 and select #6 from the menu to set up a visit. Once certified, your business will be presented with a certificate and window decal.

3 RECOGNITION. Submit a business description and a picture of your choice. These will be used on the Chula Vista CLEAN Business website to advertise your business—at no cost to you!



CVCB Group Public Works Facility 1800 Maxwell Road Chula Vista, CA 91911

or FAX to: (619) 397-6363

or EMAIL to: environmentalservices@ci.chula-vista.ca.us

Lessons Learned & Next Steps

- FREBE successful at "getting foot in the door"
- Helps w/ developing long-term relationships
- Challenges with accessing utility program data
- FREBE 2.0...

Follow-up visits (2nd Cycle)

Link to PACE financing

DOE Better Buildings Challenge



THANK YOU!

Michelle Castagnola

Environmental Resource Specialist

619-409-5955

mcastagnola@chulavistaca.gov

www.chulavistaca.gov/clean



SEEC Resources

Community Outreach and Engagement

- Deeply Held Concerns and Other Challenges to Public Engagement Processes www.ca-ilg.org/DeeplyHeldConcerns
- Community Engagement Section of Sustainability Best Practices Framework www.ca-ilg.org/sustainability-best-practices-framework
- How to Harness the Power of Your Community to Address Climate Change: A Local Official's Guide -
 - <u>www.ca-ilg.org/document/how-harness-power-your-community-address-climate-change-local-officials-guide</u>
- Bright Ideas in Energy Efficiency: Developing Successful Community and Business
 Outreach Programs Breakout Session, 2013 Statewide Energy Efficiency Best
 Practices Forum <u>Presentations</u>, <u>Fact Sheet</u> and <u>Video</u>
- Helping Local Governments Work With Businesses Breakout Session, 2012
 Statewide Energy Efficiency Best Practices Forum <u>Presentations</u> and <u>Video</u>
- Communicating Energy Projects 2012 Statewide Energy Efficiency Collaborative Webinar, 2012 - <u>Video</u> and <u>Presentations</u>

Energy Efficiency Policy Activities

Local Government Partnership Strategic Planning Report-Out

Scot Mann, Program Manager Southern California Edison









2008 LGP Strategic Plan Menu Items 1.1.1. Reach Codes 1.1.2. Green Building Code 1.1.3. Point of Sale Program 1.1.4. IDSM Code Updates 1.1.5. Energy Efficiency Codes & **Programs** 1.1.6. Educational Programs 1.2.1. Stakeholder Engagement 2.1.1. Code Compliance Workshop Attendance 2.1.2. Code Compliance and Enforcement 3.1.1. Local Gov't Benchmarking Policies 3.1.2. Local Gov't 'Utility Manager' Program 3.2.1. Local Gov't EAP/CAP 3.2.2. Local Gov't Building Standard 3.2.3. Local Gov't Revolving Energy Efficiency Fund 3.2.4. Local Gov't Commissioning/Retro-**Commissioning Policy** 4.1.1. Community-Wide EAP/CAP Template 4.1.2. Customized EAP/CAP 4.1.3. Community-Wide Planning for EE 4.1.4. Community-Wide EE Savings **Analysis** 5. EE Expertise

Energy Efficiency Policy Activity Examples

Reach Code City of Chula Vista

Green Building Policy Madera County Energy Watch

Point of Sale San Francisco Energy Watch

IDSM Building Code Port of San Diego

EE Codes & Programs San Diego Association of

Governments

Benchmarking Policy Sonoma County Energy Watch

Revolving EE Fund City of Santa Monica

RCx Policy City of San Bernardino

DEL NORTE MODOC SISKIYOU **Energy Efficiency Policies SHASTA** TRINITY LASSEN HUMBOLD1 **TEHAMA PLUMAS** Jan 2010-BUTITE VIENDOCINO-**GLENN March 2014** COLUSA YUBA PLACER SUTTER Completed 83 EL DORADO ONOMA NAPA SACRAMENTOAMADOR **Projects** CALAVERAS MARIN TUOLUMNE MONO OAQUIN 102 **In-Progress** SAN **FRANCISCO** STANISLAUS MARIPOSA **Projects** SAN **SANTA** MATEO MERCED CLARA MADERA **Total Projects** 185 **SANTA CRUZ** SAN INYO BENITO **TULARE** MONTEREY KINGS KERN OBISPO SAN **BERNARDINO SANTA** BARBARA **VENTURA** LOS ANGELES **RIVERSIDE ORANGE IMPERIAL** SAN DIEGO

Why EE Policies?

- Unique opportunity to set policy
- Support local governments in leveraging their authority where possible
- Respond to the call of California's Long-Term Energy Efficiency Strategic Plan (CLTEESP).
- Understand their specific interests
- Provide the vital tools and resources needed
- Empowerment to become sustainability leaders

Policy Value

- Improve building performance
- Optimize design
- Address equipment and system issues
- Organize projects
- Increase energy savings opportunities
- Demonstrate environmental leadership

Policy Results

- Energy Efficiency Savings
- Empowerment To Improve Facilities
- Financing/Permitting Streamlined
- Environmental Leadership



Thank You

Scot Mann

scot.mann@sce.com

626.302.0659









City of Moreno Valley and Reach Codes



Gabriel Diaz, Associate Planner Phone: 951-413-3226

Email: gabrield@moval.org

Background on Staff Initiation of the Reach Code Process - Why Adopt?

- Energy Reach Codes would result in construction that is more energy efficient than is required under the current energy code.
- Contribute to the City achieving 15% energy savings community-wide by the year 2020
- Establish consistency with the State of California Long Term Energy Efficiency Strategic Plan and AB 32.



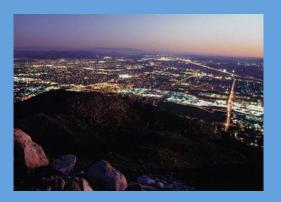
Criteria Used in Evaluating Reach Codes?

- Consideration of local municipalities with similar climate zones, and/or demographics.
- Comparison of various approaches to implementing CalGreen and green ordinances in several other cities.
- A thorough evaluation of the California Green Building Code mandatory and optional measures.
- Review of Cost Effectiveness Studies that have been recognized by the California Energy Commission.

The Municipal Government Process

- Internal Review
- Meetings with Departments and Divisions
- Primary meetings with the Planning Division, Building Division and the Public Works Department/Utility Division





How the City of Moreno Valley Attempted to Achieve the "Reach" in Reach Codes

- Mandatory local measures Requires energy efficiency measures above
 Title 24 standards to be incorporated into a project.
- Performance measures Requires that a project achieve a specific percentage above by Title 24/CalGreen



Proposed Mandatory Local Measures

Examples of Proposed Residential Measures

- Orientation of buildings to optimize the use of solar energy with the long side of the house oriented within 30 degrees south
- Each appliance provided by the builder meets Energy Star requirements



Proposed Performance Measures

- New Residential Projects Achieve a 10% energy efficiency level above current Title 24 requirements.
- New Non-Residential projects Achieve a 15% energy efficiency level above current Title 24 standards.
- Retrofits or additions to existing residential structures Achieve 5% energy efficiency above current Title 24 standards residential structures greater than 1,000 square feet of floor area.
- Retrofits or additions to existing non-residential structures Achieve a 5% energy efficiency above current Title 24 standards for non-residential structures greater than 10,000 square feet of floor area.

Decision Makers/Stakeholder Involvement and Public Engagement of Reach Codes

- City Council/Planning Commission Study Session meetings
- Public Outreach with the Building Community Economic Development Subcommittee meeting
- Planning Commission and City Council Public Hearings
- Final Decision Approval of only one mandatory measure



Lessons Learned

- Timing of Reach Codes
- Fragile economic climate
- New Building Energy Efficiency Standards on the horizon
- Engage, decision makers, stakeholders and internal staff early in the process



FUTURE OF REACH CODES?

- Encourage integration of Energy Efficiency (EE) into building design
- Developments that exceed Title 24 building code criteria
- Density Bonuses for new residential developments
- Municipal code amendment



Thank You

Gabriel Diaz, Associate Planner

Phone: 951-413-3226

Email: gabrield@moval.org

SEEC Resources

Energy Efficiency Policy

- Best Practices Fact Sheet San Rafael's Green Building Ordinance -San Rafael Green Building
- Best Practices Fact Sheet Local Ordinances Exceeding State Building Energy Efficiency Standards - <u>Reach Codes</u>
- Reach Codes Breakout Session, 2012 Statewide Energy Efficiency Best Practices Forum - <u>Presentations</u> and <u>Video</u>
- City Planners' Energy Action Resource Guide developed by ICLEI www.californiaseec.org
- RetroCommissioning at the Local Level 2012 Statewide Energy Efficiency Collaborative Webinar - <u>Video</u> and <u>Presentations</u>
- Sustainability Best Practices Framework www.ca-ilg.org/sustainability-best-practices-framework
- Energy Efficiency & Conservation www.ca-ilg.org/energy-efficiency-conservation
- Green Building <u>www.ca-ilg.org/green-building</u>

Utility Energy Management & Benchmarking Activities

Local Government Partnership Strategic Planning Report-Out



Jillian Rich, Senior Program Manager Pacific Gas and Electric Company





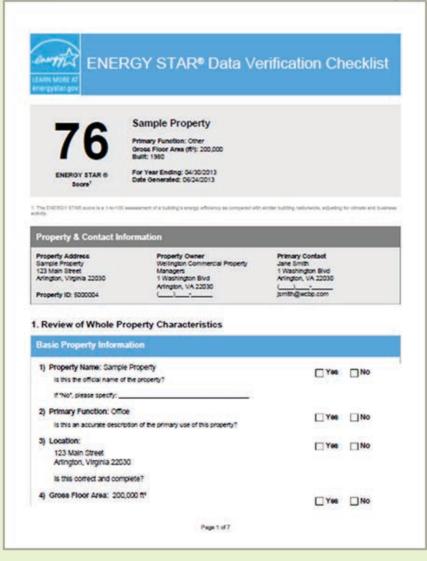




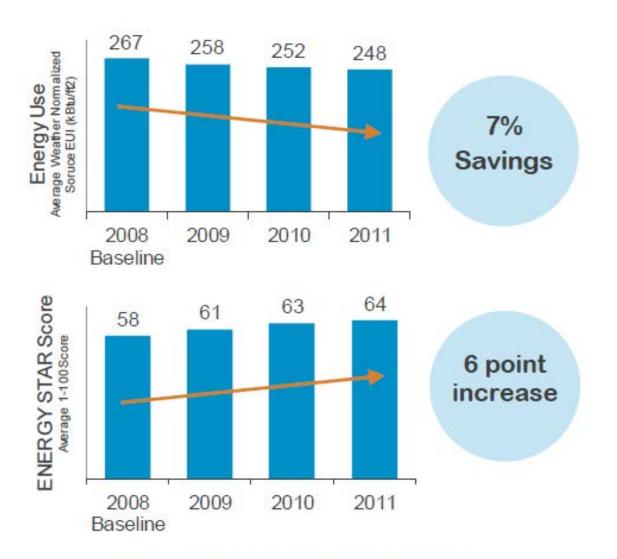
2008 LGP Strategic Plan Menu Items

- 1.1.1. Reach Codes
- 1.1.2. Green Building Code
- 1.1.3. Point of Sale Program
- 1.1.4. IDSM Code Updates
- 1.1.5. Energy Efficiency Codes & Programs
- 1.1.6. Educational Programs
- 1.2.1. Stakeholder Engagement
- 2.1.1. Code Compliance Workshop Attendance
- 2.1.2. Code Compliance and Enforcement
- 3.1.1. Local Gov't Benchmarking Policies
- 3.1.2. Local Gov't 'Utility Manager' Program
- 3.2.1. Local Gov't EAP/CAP
- 3.2.2. Local Gov't Building Standard
- 3.2.3. Local Gov't Revolving Energy Efficiency Fund
- 3.2.4. Local Gov't Commissioning/Retro-Commissioning Policy
- 4.1.1. Community-Wide EAP/CAP Template
- 4.1.2. Customized EAP/CAP
- 4.1.3. Community-Wide Planning for EE
- 4.1.4. Community-Wide EE Savings Analysis
- 5. EE Expertise

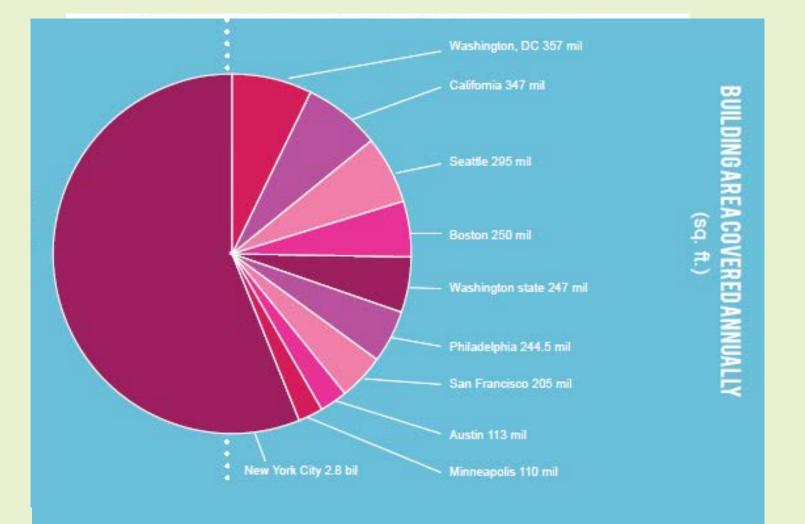
Utility Energy Management & Benchmarking



Energy Savings in Portfolio Manager



7% average energy savings and 6 point ENERGY STAR score increase among Portfolio Manager buildings



Each year, existing benchmarking requirements will impact more than 48,000 properties totaling approximately

4.9 BILLION SQUAREFEET.

DEL **Utility Energy Management** NORTE MODOC SISKIYOU & Benchmarking **SHASTA** TRINITY LASSEN HUMBOLDT **TEHAMA PLUMAS** Jan 2010-BUTITE MENDOCINO-**GLENN** SIERRA **March 2014** NEVADA COLUSA YUBA PLACER LAKE SUTTER Completed 46 EL DORADO SONOMANAPA SACRAMENTOAMADOR **Projects** CALAVERAS MARIN TUOLUMNE MONO CONTRA JOAQUIN 122 **In-Progress** COSTA SAN **FRANCISCO** ALAMEDA STANISLAUS MARIPOSA **Projects** SAN SANTA MATEO MERCED CLARA MADERA **Total Projects** 168 **SANTA CRUZ** FRESNO INYO BENITO **TULARE** MONTEREY KINGS **SAN LUIS** KERN **OBISPO** SAN **BERNARDINO SANTA BARBARA VENTURA** ANGELES RIVERSIDE ORANGE IMPFRIAL SAN

Thank You

Jillian Rich

j6r1@pge.com

415.972.5378











Energy Efficiency in Existing Commercial Buildings in San Francisco



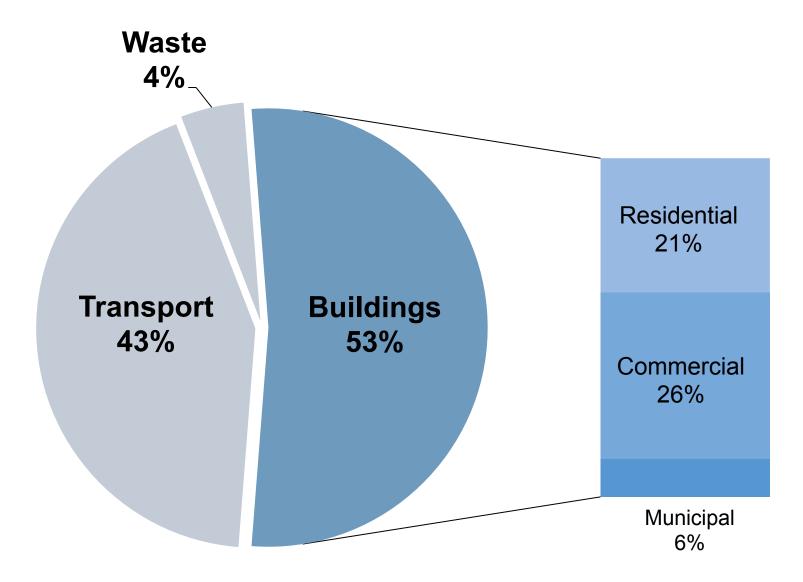
Agenda



- Impetus for Existing Commercial Buildings Ordinance
- Requirements & implementation
- Early results
- Lessons learned



GHG Emissions from San Francisco

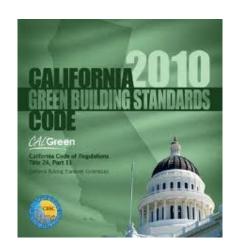






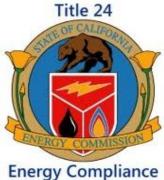


Pacific Gas and Electric Company®















Mayor's Task Force on

Existing
Commercial
Buildings



December 2009







Scope

Existing Commercial

Composition

- Owners' Representatives
- Property Managers
- Contractors
- Operators
- Engineers
- Architects
- Finance
- Utilities

The Task

- Cost effective energy savings
- Minimum costs
- Measureable





Existing Commercial Buildings Ordinance

3 year phase-in: 2011-2014

Mandatory:

- Benchmarking with limited public disclosure (every year)
- Energy audits or retrocommissioning (every 5 years)

Voluntary:

- Capital improvements
- Operations and calibration
- Tenant engagement
- Financing & incentives
- Policy as Customer Relationship Management

Stakeholders' Primary Observation

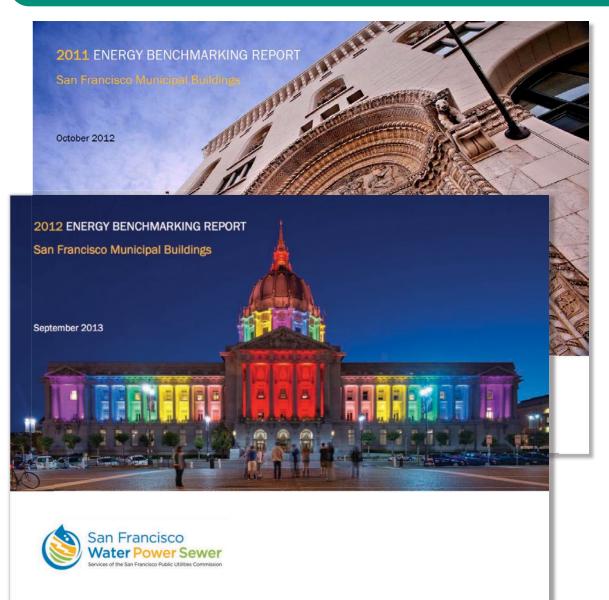


What Is Measured Gets Managed.

- Peter Drucker

Municipal Portfolio



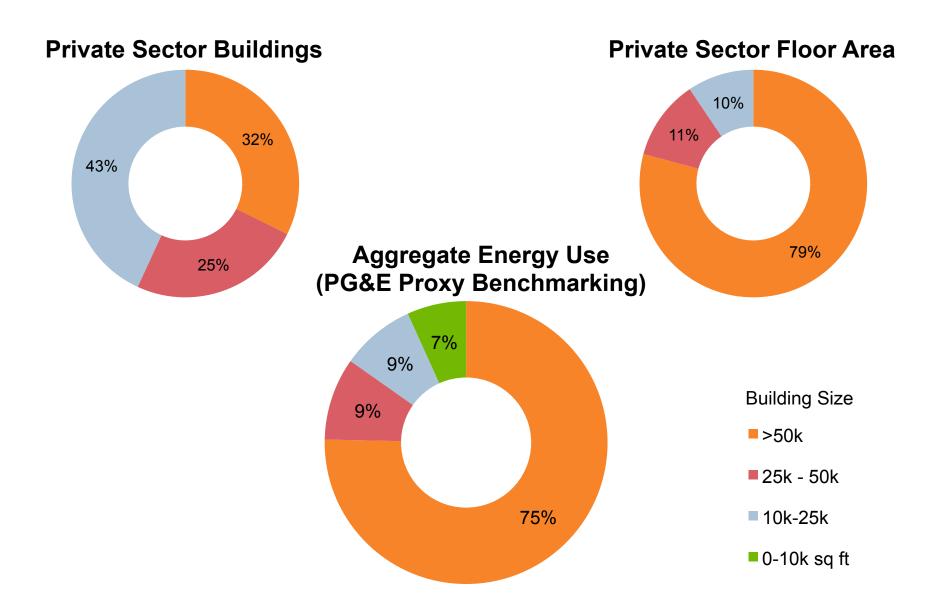


SFPUC 2012 Analysis:

- 450 buildings, 26 agencies totaling 46M sq ft
- 79% outperform national median
- Potential eligibility for ENERGY STAR:
 - 11 of the 33 ratable city buildings
 - 42 of 109 schools
- 5 sites rank in bottom 25% compared to national peers
- Carbon reduction:
 - 5% since 2011
 - 7% since 2009

Private Sector Building Stock Affected



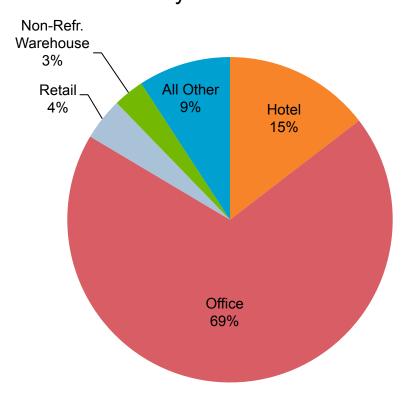


Early Observations



- Office dominates
- Median office ENERGY STAR score >80 (!)
 - 93% of floor area
 reporting a score >75 is
 3rd party verified via
 - Audit
 - ENERGY STAR certification
 - LEED EB

Floor area reporting to date by sector:



Does Benchmarking Work?





EPA Study:

35,000 buildings that benchmarked for 4 years.

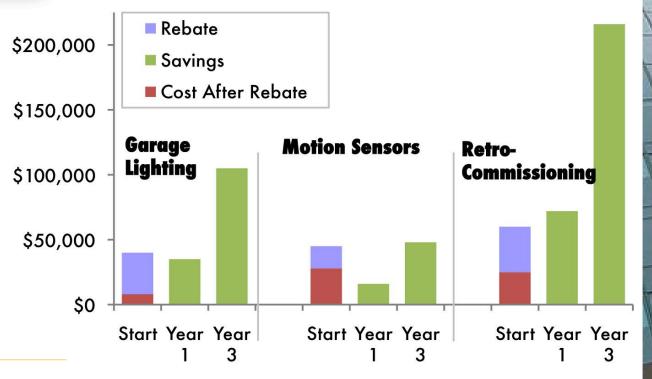
Average benefits:

- 2.4% annual energy use reduction
- 7% average savings over 4 years
- Buildings with the lowest scores improved the most.
- · Peter Drucker was right.



"By benchmarking our hotel's energy use and identifying inefficiencies through an audit, we were able to maximize savings without sacrificing our customers' experience."

Peter Koehler, General Manager InterContinental Hotel





SAN FRANCISCO

Audit example: Flood Building



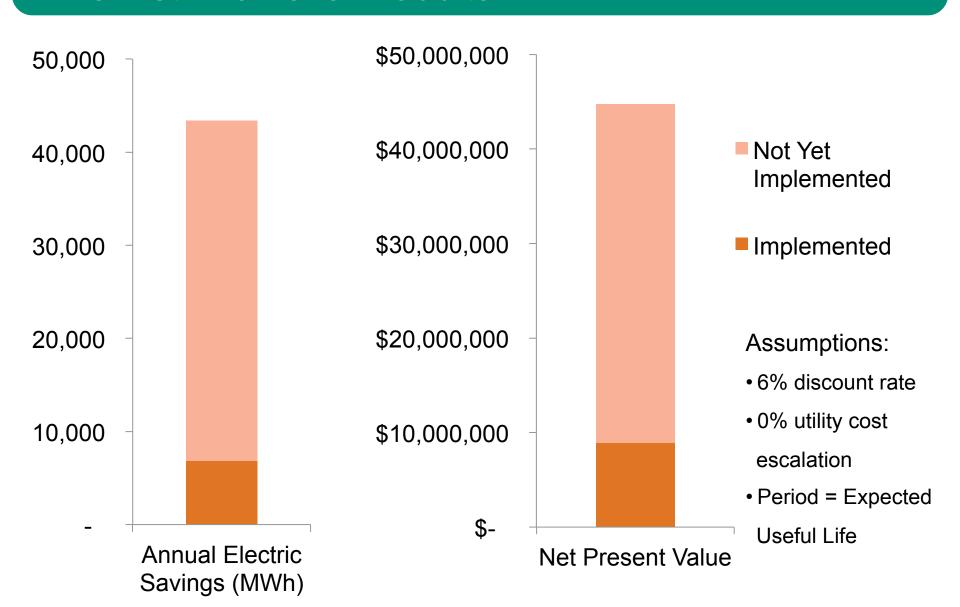
- 290,000 sq ft historic landmark
- Level 2 in Q3 2012
- Updated lighting and HVAC controls
- \$1.2M estimated lifetime savings



Image: Joe Mabel

Uncovering Value The first 120 Level II audits:





Total Savings Potential Uncovered



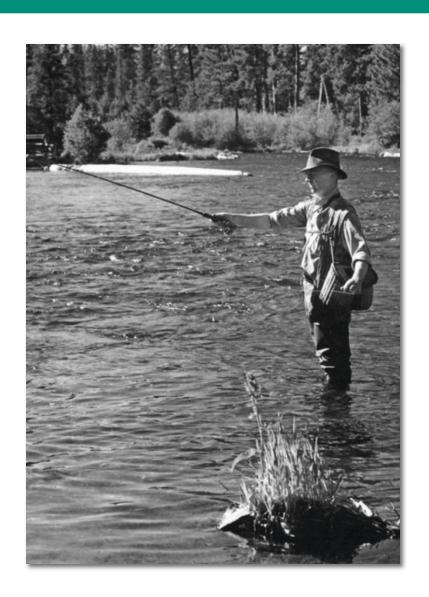
608 MW	Demand reduction
60 GWh	Annual electric savings
789,000	Annual therms
\$11M	Annual energy cost savings
\$6M	Estimated rebate eligibility
4.4	Year average simple payback

Lessons Learned



Crucial

- Patience
- Quality inventory of building stock
- Utility support
- Communication & segmentation
- Incentives/buy-in
- Capacity



Lessons Learned





- Large buildings do not have single "owner"
- New audit triage options worth evaluation
- Lack of consensus approach to wholebuilding data access in CA is a constraint

Resources for Other Communities



Purpose	Tool	Source
Know status in other cities	Policy maps Reports summarizing benefits	www.buildingrating.org
Model policy	Benchmark: Fact sheets, policy design guide and sample language	SEE Action Work Group (US DOE EERE)
	Audit: Same resources under development	
	DOE SEED database	
Manage compliance data	Building Performance Database Data definitions/taxonomy	US DOE EERE website
Benchmark buildings	ENERGY STAR Portfolio Manager	www.energystar.gov/benchmark

Learn More



Web: sfenvironment.org/ecb greenfinancesf.org

Questions: benchmark@sfenvironment.org 415-992-6373

San Francisco Energy Watch incentives: Achievements since 2006















- Installed **5**,600 energy efficiency measures
- \$4,500 average annual energy cost savings
- Paid \$18.2 million in incentives
- Reduced 52,800 tons of carbon emissions

Equivalent to:

- Removing 8,400 vehicles from the road
- Powering 25,000 San Francisco homes for a year

Summary of Existing Commercial Buildings Ordinance



	Ener	gy Benchn	narking	Audit/Retrocommissioning	
Applies to:	Non-residential buildings with 10,000 square feet or more of conditioned space				
Requires	All energy used by the building, and basic descriptive characteristics. May be done in-house.			Assessment by a qualified professional identifying cost-effective opportunities to save energy.	
	I way be don	c in-nousc.		(May alternately be retrocommissioning.)	
Tool:	ENERGY STAR Portfolio Manager		Manager	ASHRAE <i>Procedures for …Audits</i> "Level 2" for ≥50k sq ft "Level 1" for <50k sqft	
Frequency:	Annually, starting:			Every 5 years	
	>50k sq ft: Oct 2011	25k-50k sq ft: April 2012	10k-25k sq ft: April 2013	Due dates assigned over 3 years	
Exemption s	New or unoccupied buildings, (De Facto: whole building transaction in prior calendar year)		_	Buildings that are new, unoccupied, in financial distress, earned LEED EB, or earned ENERGY STAR 3 of the past 5 years	



Relation to California Law

SF ECB Ordinance		California AB1103	
Requires	Benchmark and Audit	Benchmark only	
Trigger	Annual	Transaction (sale, lease, refinance of entire building)	
Tool	ENERGY STAR Portfolio Manager		
Data required	Monthly energy consumption for the entire building and Basic characteristics (size, occupancy, use, hours of operation)		
Data Disclosed	Summary of annual energy performance: • 1 to 100 rating • Energy use per sq ft per year • GHG emissions from operations	All	
Disclosure :	Public	Counterparty in transaction (available to CEC)	

SEEC Resources

Utility Energy Management & Benchmarking

- Benchmarking Best Practices Breakout Session, 2011 Statewide Energy Efficiency Best Practices Forum - <u>Video</u>, <u>Audio</u> (MP3), and <u>Presentations</u>
- Benchmarking 2012 Statewide Energy Efficiency Collaborative Webinar <u>Video</u> and <u>Presentations</u>
- Best Practices Fact Sheet Valley Innovative Energy Watch Benchmarking <u>VIEW Benchmark</u>

Code Compliance Activities

Local Government Partnership Strategic Planning Report-Out



Paulo Morais, Energy Programs Supervisor Southern California Gas Company









2008 LGP Strategic Plan Menu Items

- 1.1.1. Reach Codes
- 1.1.2. Green Building Code
- 1.1.3. Point of Sale Program
- 1.1.4. IDSM Code Updates
- 1.1.5. Energy Efficiency Codes & Programs
- 1.1.6. Educational Programs
- 1.2.1. Stakeholder Engagement
- 2.1.1. Code Compliance Workshop
 Attendance
- 2.1.2. Code Compliance and Enforcement
- 3.1.1. Local Gov't Benchmarking Policies
- 3.1.2. Local Gov't 'Utility Manager' Program
- 3.2.1. Local Gov't EAP/CAP
- 3.2.2. Local Gov't Building Standard
- 3.2.3. Local Gov't Revolving Energy Efficiency Fund
- 3.2.4. Local Gov't Commissioning/Retro-Commissioning Policy
- 4.1.1. Community-Wide EAP/CAP Template
- 4.1.2. Customized EAP/CAP
- 4.1.3. Community-Wide Planning for EE
- 4.1.4. Community-Wide EE Savings Analysis
- 5. EE Expertise

Code Compliance Activities

Why do we need to engage local governments in Code Compliance Activities? A 2007 study estimated noncompliance rates with the Energy Commission statewide building measures ranging from 28 to 100% and with appliances standards from 0% to 63%.

The key activities adopted by local governments were:

- 2.1.1 Local government staff and contract staff attend code compliance workshops offered by the California Energy Commission, utility codes & standards staff, or other local governments with strong compliance records.
- 2.1.2 Redesign enforcement, compliance, plan review processes; introduce new forms and templates.

2008 LGP Strategic Plan Menu Items

- 1.1.1. Reach Codes
- 1.1.2. Green Building Code
- 1.1.3. Point of Sale Program
- 1.1.4. IDSM Code Updates
- 1.1.5. Energy Efficiency Codes & Programs
- 1.1.6. Educational Programs
- 1.2.1. Stakeholder Engagement
- 2.1.1. Code Compliance Workshop
 Attendance
- 2.1.2. Code Compliance and Enforcement
- 3.1.1. Local Gov't Benchmarking Policies
- 3.1.2. Local Gov't 'Utility Manager' Program
- 3.2.1. Local Gov't EAP/CAP
- 3.2.2. Local Gov't Building Standard
- 3.2.3. Local Gov't Revolving Energy Efficiency Fund
- 3.2.4. Local Gov't Commissioning/Retro-Commissioning Policy
- 4.1.1. Community-Wide EAP/CAP Template
- 4.1.2. Customized EAP/CAP
- 4.1.3. Community-Wide Planning for EE
- 4.1.4. Community-Wide EE Savings Analysis
- 5. EE Expertise

Code Compliance Activities

Strategic Plan Task Highlights:

- Workshops in energy code compliance locally to interested Cities.
 - Educate city staff on importance of training.
 - Increase staff development/training opportunities in the area of code compliance.
- Worked regionally to leverage and maximize costeffective code compliance and enforcement.
- Most local governments continue to experience challenges with enforcement due to lack of funding and resources

DEL NORTE MODOC SISKIYOU **SHASTA** TRINITY LASSEN HUMBOLDT **TEHAMA PLUMAS** BUTITE MENDOCINO-GLENN SIERRA NEVADA COLUSA YUBA PLACER LAKE SUTTER EL DORADO SONOMA NAPA SACRAMENTOAMADOR CALAVERAS MARIN TUOLUMNE CONTRA JOAQUIN COSTA

ALAMEDA

SANTA

CLARA

STANISLAUS

SAN

BENITO

MONTEREY

MERCED

MARIPOSA

MADERA

FRESNO

KINGS

SANTA BARBARA

SAN LUIS OBISPO

FRANCISCO

SAN

SANTA CRUZ

MATEO

MONO

TULARE

VENTURA

ANGELES

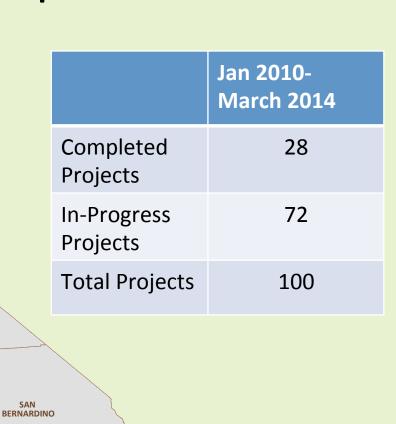
ORANGE

INYO

RIVERSIDE

SAN

Code Compliance Activities



Thank You

Paulo Morais

pmorais@semprautilities.com

213.244.3246









SEEC Resources

Code Compliance

 Energy Code Ace: New website created by the California Statewide Codes and Standards Program to help contractors, residents, and businesses meet the requirements of Title 24, Part 6 - http://energycodeace.com/

Climate and Energy Action Planning

Local Government Partnership Strategic Planning Report-Out

Becky Estrella, Energy Programs Supervisor Southern California Gas Company









2008 LGP Strategic Plan Menu Items

- 1.1.1. Reach Codes
- 1.1.2. Green Building Code
- 1.1.3. Point of Sale Program
- 1.1.4. IDSM Code Updates
- 1.1.5. Energy Efficiency Codes & Programs
- 1.1.6. Educational Programs
- 1.2.1. Stakeholder Engagement
- 2.1.1. Code Compliance Workshop Attendance
- 2.1.2. Code Compliance and Enforcement
- 3.1.1. Local Gov't Benchmarking Policies
- 3.1.2. Local Gov't 'Utility Manager' Program
- 3.2.1. Local Gov't EAP/CAP
- 3.2.2. Local Gov't Building Standard
- 3.2.3. Local Gov't Revolving Energy Efficiency Fund
- 3.2.4. Local Gov't Commissioning/Retro-Commissioning Policy
- 4.1.1. Community-Wide EAP/CAP Template
- 4.1.2. Customized EAP/CAP
- 4.1.3. Community-Wide Planning for EE
- 4.1.4. Community-Wide EE Savings Analysis
- 5. EE Expertise

Climate and Energy Action Planning Activities

CAP's and EAP's outline and detail short and long term policies, actions, programs and address climate change and reduce greenhouse gas emissions.

By completing CAP's and EAP's, local governments will:

- ➤ Be able to formally document greenhouse gas reduction.
- ➤ Have the ability to effectively document energy efficiency efforts.
- Support and respond to California's Long-Term Energy Efficiency Strategic Plan.

Climate

Action

Planning



Climate and Energy Action Planning Activities

DRAFT CLIMATE ACTION PLAN
October 2013



CAP/EAP Strategic Planning Activities Examples:

- Task 3.2.1 Local Govt. EAP/CAP: South Bay Partnership developed a regional template for CAP/EAP's that could be customized and adopted by cities.
- Task 3.2.1 Local Govt. EAP/CAP: Kern Energy Watch hosted an Energy Action Plan Summit to support municipalities create and implement EAP's.
- Task 4.1.3 Community-Wide Planning for EE: San Luis Obispo Energy Watch completed a regional Climate Action Plan with SLO APCD.
- Task 4.1.3 Community-Wide Planning for EE: City of San Diego's CAP included community-wide EE mitigation measures.

Thank You

Becky Estrella

bestrella@semprautilities.com

909.335.7992









SEEC Resources & Guidance

Climate and Energy Action Planning

- Best Practice Case Studies: EE Coordinator Website http://eecoordinator.info/
- SEEC ClearPath California: An exciting new suite of tools developed by ICLEI to develop a GHG inventory, forecast, and climate action plan www.californiaseec.org. You'll also find:
 - Quick start guides for each milestone of the climate planning process
 - On-demand trainings
 - Technical guides and handbooks
- Planning for Climate Change <u>www.ca-ilg.org/planning-climate-change</u>
- Local Governments Taking Action: Highlighting Best Practices at Each Step in the Climate Action Planning Process Breakout Session, 2013 Statewide Energy Efficiency Best Practices Forum - Video, Presentations, and Infographic
- Compliance, Tools & Synchronization: A Guide to Climate Action Planning Resources in California Breakout Session, 2012 Statewide Energy Efficiency Best Practices Forum - <u>Video</u> and <u>Presentations</u>
- Climate Action Planning: New Champions Breakout Session, 2011 Statewide Energy Efficiency Best Practices Forum - <u>Video</u>, <u>Audio</u> (MP3), and <u>Presentations</u>
- Climate Action Planning Advanced Track Breakout Session, 2011 Statewide Energy Efficiency Best Practices Forum - <u>Video</u>, <u>Audio</u> (MP3), and <u>Presentations</u>

Strategic Plan Highlights and Local Government Case Studies

SUMMARY

http://eestats.cpuc.ca.gov/
Regulatory>Filed Documents

For SDG&E and PG&E:

- Category: Quarterly

- Report Type: LGP Strategic Plan

For SCE and SoCalGas

- Category: Annual

- Report Type: Other Annual Reports

Statewide Energy Efficiency Collaborative

AN ALLIANCE TO SUPPORT LOCAL GOVERNMENT

Strategic Plan Highlights and Local Government Case Studies

Q&A

Statewide Energy Efficiency Collaborative

AN ALLIANCE TO SUPPORT LOCAL GOVERNMENT

STRATEGIC PLAN HIGHLIGHTS AND LOCAL GOVERNMENT CASE STUDIES

Presenters:

- Joseph Oldham , joldham@lgc.org , 559.797.6034
- Joshua Brock , jbrock@semprautilities.com , 858.503.5129
- Michelle Castagnola , <u>mcastagnola@chulavistaca.gov</u> , 619.409.5955
- Scot Mann, scot.mann@sce.com, 626.302.0659
- Gabriel Diaz, gabrield@moval.org, 951.413.3226
- Jillian Rich , <u>j6r1@pge.com</u> , 415.972.5378
- Barry Hooper , <u>benchmark@sfenvironment.org</u> , 415.992.6373
- Paulo Morais , pmorais@semprautilities.com , 213.244.3246
- Becky Estrella , <u>bestrella@semprautilities.com</u> , 909.335.7992

Webinar April 7, 2014 2:00PM - 4:00PM

