

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

*Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

Agenda

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, September 16, 2015

Time: 2:00 to 4:00 p.m.

Location: 555 County Center – 5th Floor
Redwood City, CA

1. Introductions
2. Public Comment
3. Approval of Minutes from July 15, 2015 meeting
(Susan Wright – Committee Staff) Action
4. Presentation on California Independent System Operator and Western Energy Imbalance Market
(Virginia Thompson – CAISO) Information, Discussion
5. San Mateo County Energy Watch Program Updates and Zero Net Energy Strategic Planning
(Susan Wright – Committee Staff) Information, Discussion
6. Presentation on State Energy Efficiency Collaborative Forum 2015, California Climate Action
Planning Conference, and the California Climate Change Symposium
(Susan Wright, Kim Springer – Committee Staff) Information, Discussion
7. Update on Current Water Supply and Drought Conditions
(BAWSCA staff) Information, Discussion
8. Committee Member Updates
9. Next Regular Meeting Date: October 21, 2015

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RESOURCE MANAGEMENT AND CLIMATE PROTECTION TASK FORCE
Minutes from the 7-15-2015 Meeting

In attendance:

Beth Bhatnagar, Sustainable San Mateo County
Bill Cheng, PG&E
Adrienne Carr, BAWSCA
Rick DeGolia, Town of Atherton*
Maryann Moise Derwin, Committee Vice Chair, Portola Valley Town Council*
Deborah Gordon, Committee Chair, Woodside Town Council*
Pradeep Gupta, South San Francisco City Council*
Deborah Hirst, Supervisor Horsley's office
Barbara Pierce, Redwood City City Council*
Betty Seto, DNV GL
Kim Springer, County of San Mateo RecycleWorks (staff)
Sandy Wong, C/CAG
Susan Wright, County of San Mateo RecycleWorks (staff)

Not in attendance:

Michael Barber, Supervisor Pine's office
Bob Cormia, Foothill De Anza Community College
Don Horsley, San Mateo County Board of Supervisors*
Jorge Jaramillo, San Mateo County Hispanic Chamber of Commerce
Joe La Mariana, County of San Mateo RecycleWorks
Kathy Lavezzo, PG&E
Alex Palantzas, San Mateo County Hispanic Chamber of Commerce
Dave Pine, San Mateo County Board of Supervisors *
Nicole Sandkulla, BAWSCA
Eric Sevim, A+ Japanese Auto Repair
*=elected official member

1) Introductions

Attendees introduced themselves and their organizations.

2) Public Comment

There was no public comment.

3) Approval of Minutes

The minutes from the April 15, 2015 meeting were approved.

4) Summary of San Mateo County Public Input to 2017 Plan Bay Area (Pradeep Gupta)

Pradeep Gupta explained the Plan Bay Area process with the goal of helping jurisdictions in San Mateo County get more involved in the 2017 update process. Plan Bay Area integrates plans for the

nine counties in the San Francisco Bay Area. The last plan came out in 2013; the next one will be in 2017.

Figure 1 – ABAG/MTG Regional Forecasting Process

ABAG's regional forecasts look at population (birthrate, age groups, gender, migration, and cohorts based on census tracts), economy (number of jobs and location of jobs), and number of people in households (changes because of ethnicity and demographics). ABAG is doing a lot of analysis and is responsible for the totals and how they're distributed.

Regarding Geographic Distribution, ABAG gets input from MTC for transportation. MTC holds the money for transportation projects. Urban SIM = Urban simulation model.

These numbers reappear in the form of RHNA requirements for housing, so it's important for local agencies to give input.

The Building Industry Association (BIA) filed a lawsuit against the last plan, asserting that the nine Bay Area counties are exporting their housing needs. The lawsuit made it a requirement for the next update in 2017 that the daily in-migration should stay at the level of the baseline year for the next 25 to 30 years. It's not sure how that would be enforced, since these are plans, not edicts. BIA said that at least the goal needs to be set.

DeGolia: You have to look at the quality of ABAG's forecasts vs. actual data to see how successful their forecasting was in the past.

Gupta: Forecasts start with a number of assumptions. That's where the real arguments are. We need to be very thorough to review the assumptions are made.

Gordon: This committee can review resource assets. We can take it to our cities, and to C/CAG.

Gupta: If you understand these issues, it puts us in good stead to get grants. 85-90% of transportation budget is for existing projects; the remainder is for new things through grants.

Figure 3 – Feedback: Prioritizing Goals & Targets

At the Plan BayArea 2040 open house, there were no presentations. You go and ask questions and give input.

Top priorities Bay Area wide:

Equitable access (3rd priority) was a new category this year. It reflects income gaps, and the need to live close to employment. Input about Open Space (4th priority) mostly came from Sonoma County. Climate Protection (5th priority) was a legislative priority.

San Mateo County's priorities are mostly the same as those for the overall Bay Area except the last three priorities are in a different order. For instance, Climate Protection is the 7th priority in San Mateo County in contrast to 5th priority for the Bay Area as a whole.

Gordon: There's a lot of data. There's an ability to present it in motion to show changes in direction and vectors in the Bay Area and the outside. Is it ever presented that way? It would be good to see if we are managing that change in the way we want, or being reactive.

Gupta: Yes, there are tools. A recent one over time has a number of slices where a particular topic can be expanded out.

Pierce: There was a tendency to ignore the RHNA numbers in the past; now they're acknowledging that they're there, and it's going in a good direction.

Gordon: Yes, we're starting to do things in a way that addresses those needs.

Gupta: It's clear that we are no longer an island. Our planning and housing depend on transportation and corridors. The importance of a plan like this is to think carefully about corridors and solutions. We need to think outside our own jurisdictions in addition to looking after our own jurisdiction.

5) San Mateo County Energy Watch Program Updates and 2016 Strategic Planning (Susan Wright)

After Susan Wright updated the committee about outreach activities to small businesses, the following comments and suggestions were made:

Cheng: Millbrae has a Chinese small business association that's really active.

Gordon: There's a Tamil group in San Jose.

Pierce: You could have a working group of small business owners to get input...like the group of real estate professionals that Energy Watch convened.

6) Presentation on State Energy Efficiency Collaborative Forum 2015 (Susan Wright)

This item was postponed.

7) Presentation on Utility of the Future 2015 Report and Knowledge Hub (Betty Seto, DNV GL)

After Betty Seto's report, the committee made the following comments.

- PG&E is holding a smart grid meeting focused on the solar industry and employment. They're looking for elected officials to participate.
- What are threats to traditional utility business model? DNV GL will be starting a project with the CPUC to look at these issues.
- The value of storage will be more explicitly recognized through policy changes.
- People are more open to home automation (NEST) through phone and apps than they were before.
- The rates changed. We can't ask people to reduce less and pay more.
- Duke Energy and Arizona Public Service have bought solar companies and are installing solar for their customers.
- The industry thinks cost savings is most important to people, but they actually prioritize reliability.
- Consumers are just starting to think about responsiveness; cost is fading. There's interest in self-healing grids.
- China's grid is big and centralized. We're going the other way – back into distributed systems.
- The Western imbalance grid measures weather conditions and distributes resources in 15-minute cycles based on conditions in different parts of the grid.
- There still remains the human factor – the workers that climb the poles when something goes down. That piece of it doesn't go away.

- Atherton is looking at direct charge to EVs that don't use an inverter. They want to enable employees to charge without putting that energy on the grid.
- Temperature and elevation change when you drive makes a difference.
- We can focus on these nine counties and have the ability to take risks. We might find ideas that might not be appropriate for the whole nation, but work here. We can shape our resources to what helps us. Other communities can do the same.

8) Update on Current Water Supply and Drought Conditions (Adrienne Carr, BAWSCA)

At the Climate Readiness Water Forum, David Sedlak gave a speech about the future of water. They were getting ideas from attendees about what they should focus on, and what can they do. Adrienne will forward the summary.

During Adrienne Carr's presentation, the following points were made:

- BAWSCA is currently experiencing the lowest water demand since 1977, which was the driest year on record. People have been responding to all the drought messaging; they're letting their lawns go brown.
- BAWSCA agencies reduced use by 31% from June 2013 use.
- Water Bank has worked well for the last 3 years.
- SFPUC continues to monitor State Water Board actions regarding curtailments and take appropriate action regarding water rights.
- Most savings are anticipated to be achieved in summer. It's harder to conserve water in the winter.
- There's a new drought campaign that will include video and billboards.

Regarding groundwater, BAWSCA met with the County and shared their model. The County saw that they didn't need to monitor groundwater. The Office of Sustainability has received grant money to study groundwater. BAWSCA will work with them. East Palo Alto has a groundwater management plan in draft form. They're starting to monitor it as we speak.

9) Committee Member Updates

None

10) Next Regular Meeting Date: August 19, 2015

Attachments:

None.

C/CAG AGENDA REPORT

Date: September 16, 2015
To: Resource Management and Climate Protection Committee
From: Kim Springer, County staff to RMCP Committee
Subject: Presentation on California Independent System Operator and Western Energy Imbalance Market

(For further information contact Kim Springer at 650-599-1412)

RECOMMENDATION

Receive a presentation on California Independent System Operator and Western Energy Imbalance Market.

FISCAL IMPACT

Staff time for coordination of the RMCP Committee is paid for out of Congestion Relief funds for an annual amount not to exceed \$40,000.

BACKGROUND/DISCUSSION

At the July 15, 2015 RMCP meeting the committee received a presentation on the Utility of the Future Survey report by consultant, DNV GL. One of the challenges identified by responders to the survey from utilities across the country is increased demand for and use of renewable sources of energy and its effect on the system grid.

The California Independent System Operator (CAISO) is a nonprofit benefit corporation that manages the California grid, a vast network of high-voltage power lines in California and a small part of Nevada. CAISO uses advanced technologies to manage both the transmission system and the power market, constantly adjusting the flow of electricity through the grid, 24/7. The system provides reliability by addressing changing conditions, which might include power plant supply changes or shutdowns, changing weather conditions or even natural disasters. CAISO continuously works to improve reliability.

The western Energy Imbalance Market (EIM) is a new system that started up near the end of calendar year 2014. The system was designed to accept real-time bids from energy resource suppliers on a voluntary basis and has a 15 minute cycle time. Previous systems were only required to adjust energy sources every hour. The Federal Energy Resource Commission (FERC),

through Order # 764 requires market design changes to reduce barriers to handling energy sources with greater variability, such as renewables.

Virginia Thompson, Account Manager - Industry Affairs with the California Independent System Operator will present on CIASO's role, the California grid, how the system works, challenges, and the western Energy Imbalance Market.

Links to the CAISO website are provided as attachments to this staff report.

ATTACHMENT

CAISO main page:

<http://www.caiso.com/Pages/default.aspx>

Western Energy Imbalance Market page:

<http://www.caiso.com/informed/Pages/EIMOverview/Default.aspx>

C/CAG AGENDA REPORT

Date: September 16, 2015
To: Resource Management and Climate Protection Committee
From: Susan Wright, County staff to RMCP Committee
Subject: San Mateo County Energy Watch Program Updates and Zero Net Energy Strategic Planning

(For further information contact Susan Wright at 650-599-1403)

RECOMMENDATION

Receive updates on San Mateo County Energy Watch Program and Zero Net Energy Strategic Planning.

FISCAL IMPACT

SMCEW program staff costs are paid for by funding under the C/CAG – PG&E Local Government Partnership (LGP) agreement. Additional matching funds, specifically for transportation-related Climate Action Planning efforts, come from C/CAG Congestion Relief Funds.

BACKGROUND/DISCUSSION

Progress toward goals: The SMCEW program has specific energy saving goals, which are reported to the California Public Utilities Commission via PG&E. The goals are achieved via two program services: a “Direct Install” program, which is a turnkey program focusing on lighting that requires very little staff time for customers, and a “Calculated” program that includes more complex HVAC projects, and takes longer for staff to develop and execute. The Direct Install program is driven by program contractor Ecology Action, and the Calculated program is driven by SMCEW with engineering support from Ecology Action, and coordination with local PG&E partner staff.

The attached savings charts show progress to date. Though the current program cycle runs through the end of the 2015 calendar year, the Calculated program has already reached 226% of its peak kilowatt- and Therms-saving goals, and 91% of its kilowatt hour goal, according to PG&E records. The Calculated program also has a robust pipeline of energy efficiency projects expected to be completed and attributed to the program before the end of the year, with the potential of driving the kWh savings to over 500% of the current goal.

The Direct Install program, as of August 2015, has reached 34% of its peak kilowatt-savings goal, and 39% of its kilowatt hour goal. (Ecology Action has actually completed 58% of its peak kilowatt goal and 43% of the kilowatt hour savings goal, but since those savings haven't yet been recorded by PG&E, they're not included on our savings charts.) The Direct Install program has a robust pipeline, well over the savings goal for the year. Savings are attributed to the program once incentives are paid by PG&E to the customer. In past years, Ecology Action has exceeded its savings goals.

Combined, staff expect to achieve well over the 2015 calendar year savings goals.

Zero Net Energy (ZNE): On July 15, 2015, staff provided updates on two ZNE webinars and workshops held on May 28 and 29, hosted by the SMCEW for local government staff, building professionals, real estate professionals and homeowners. Recordings of the webinars and all the workshop materials can be found at http://smcenergywatch.com/zero_energy_events. These workshops were developed in alignment with CPUC long term strategies using SMCEW long-term strategic planning funding.

In 2008 the CPUC adopted California's first Long Term Energy Efficiency Strategic Plan. Goals included in that plan state that zero net energy standards must be met by all new residential construction by 2020 and all new commercial construction, as well as 50% of existing commercial buildings, by 2030. The CPUC further supported these goals with ZNE Action plans in 2010 and 2015, which were supplemented by the CEC's 2013 Integrated Energy Policy Report that helped define ZNE buildings and laid out the necessary steps and renewables options for achieving the ZNE 2020/2030 goals.

In order to move ZNE along, the staff is create a ZNE Strategic Plan to support ZNE policy development and implementation of ZNE projects in San Mateo County. This plan addresses four main commitments, each with their own goals and strategies to accomplish said goals:

1. Support jurisdictions by developing templates for a ZNE Action Plan and ZNE Policy. Our goal is for cities to develop and implement a ZNE Action plan with technical assistance from SMCEW.
2. Nurture early adopters and influence developing projects by partnering with building departments to identify target ZNE opportunities and offer ZNE consultations with applicants.
3. Train professionals about ZNE, create criteria for a "ZNE Expert" and build an Early Adopters network.
4. Provide training and informational materials for distribution at building departments and to planning commissions. Not only do we want our building departments to be able to answer questions about ZNE, we also will provide materials and tools for building departments to refer applicants to.

2016-17 Contracting: Staff and PG&E have begun discussions on the next calendar year

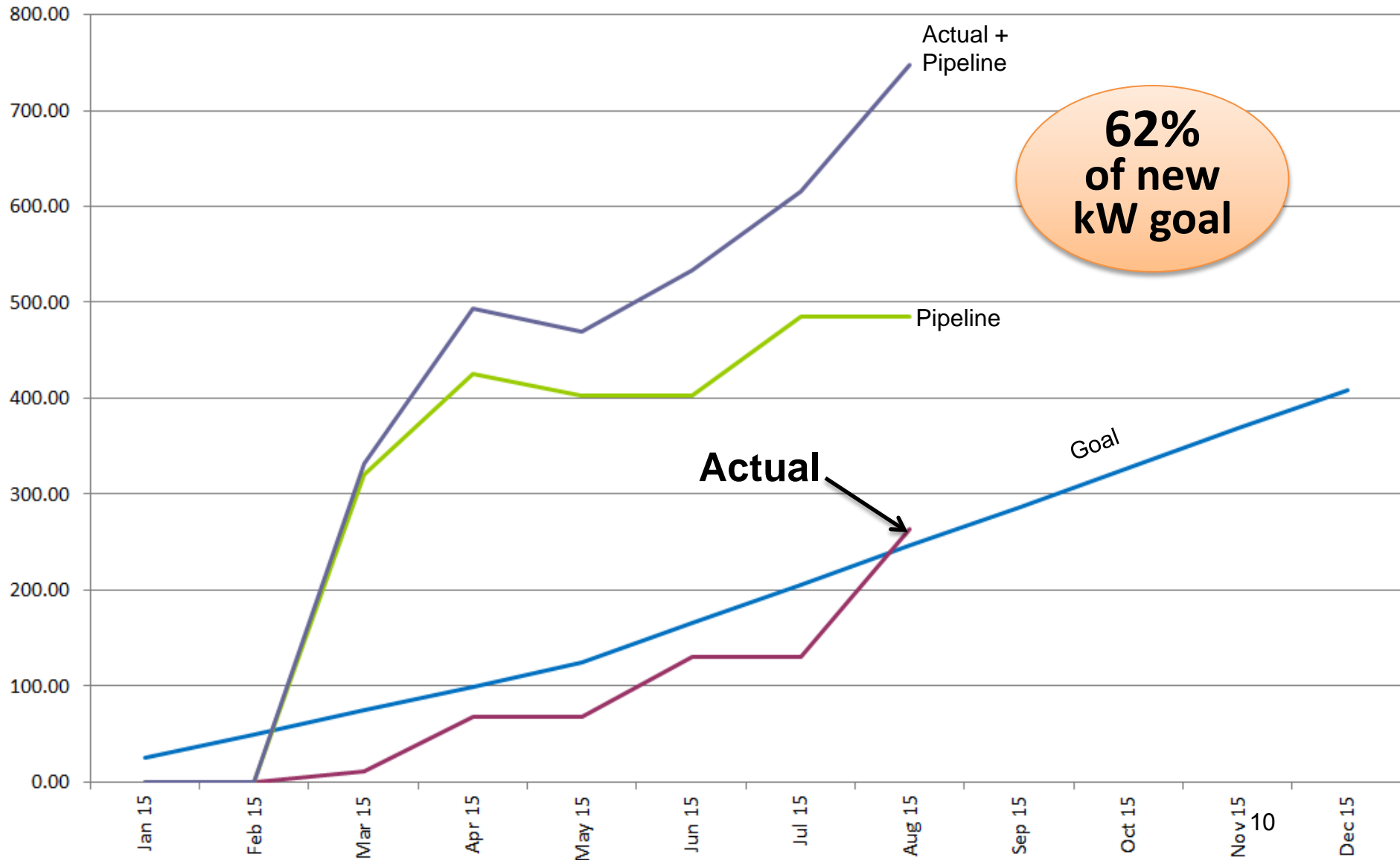
program cycle. Tentatively, the new program cycle will run from 2016 through 2017 (two years), and staff will be negotiating for a 15% increase over the current funding level. The additional funding will be used to maintain existing staffing levels, which increased in 2015, and provide additional climate action planning support to cities.

Staff will provide updates on contracting and the other items mentioned above.

ATTACHMENT

None.

Peak Kilowatts saved = 263 kW

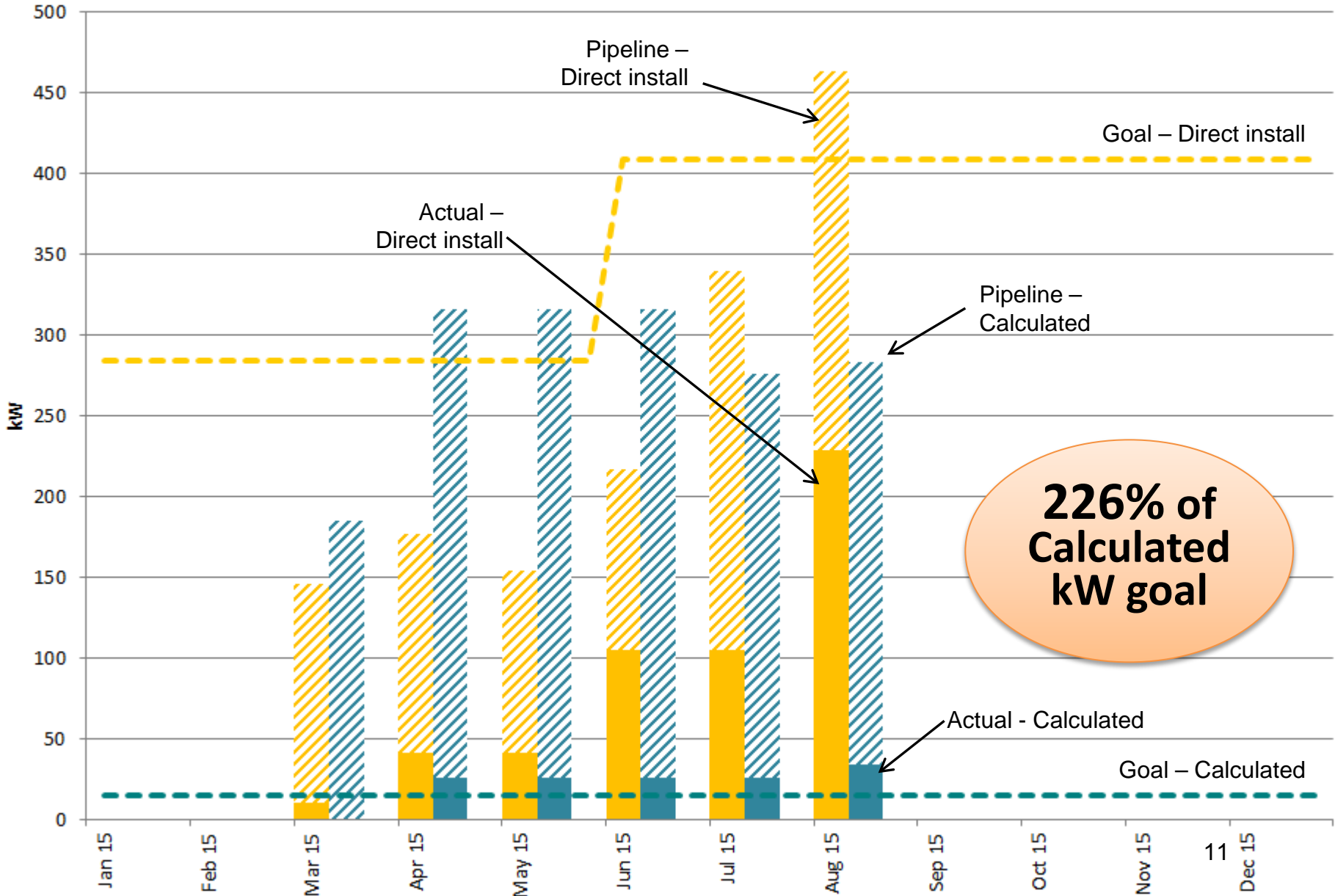


62%
of new
kW goal

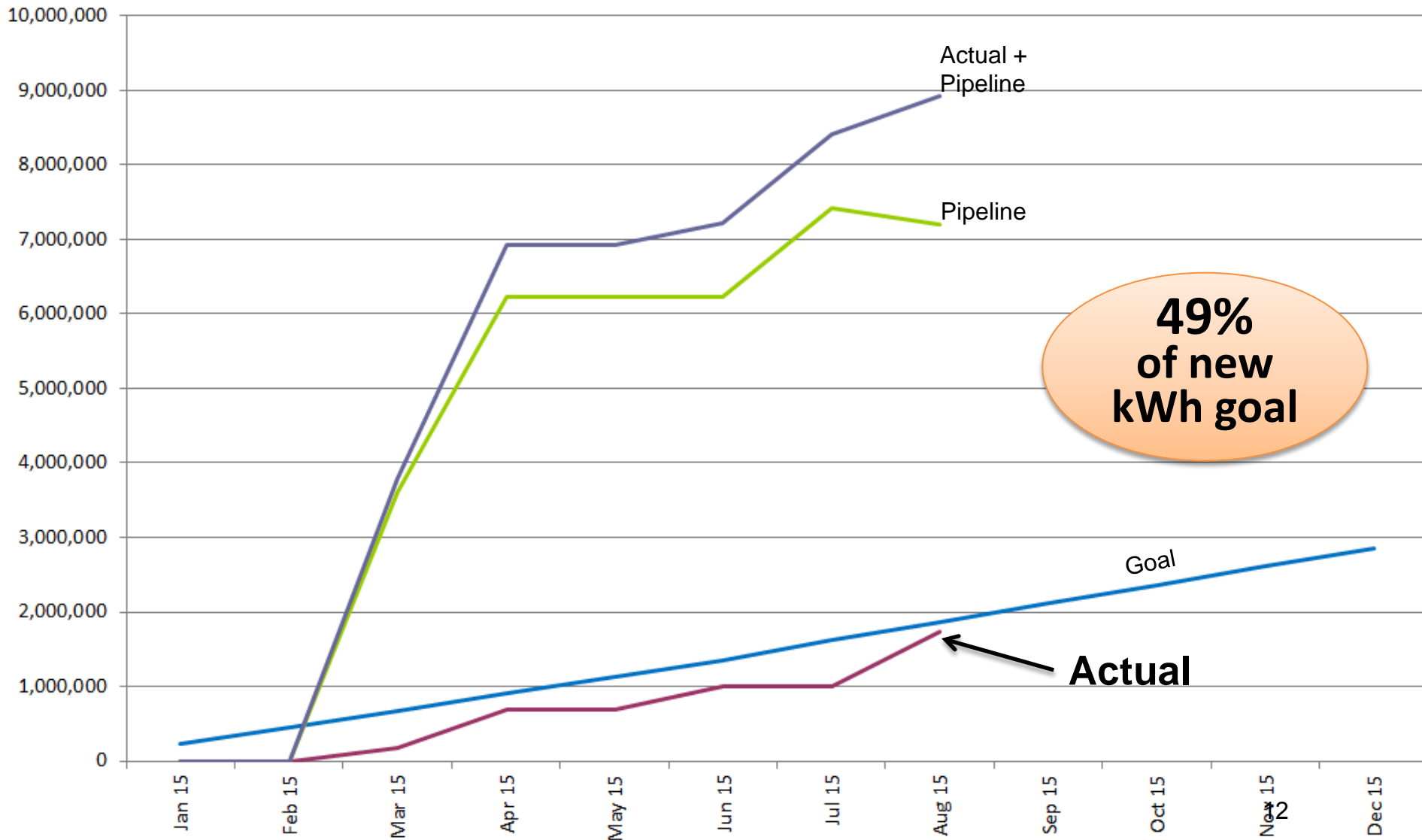
Actual

Goal

Peak kilowatts – Direct Install vs. Calculated



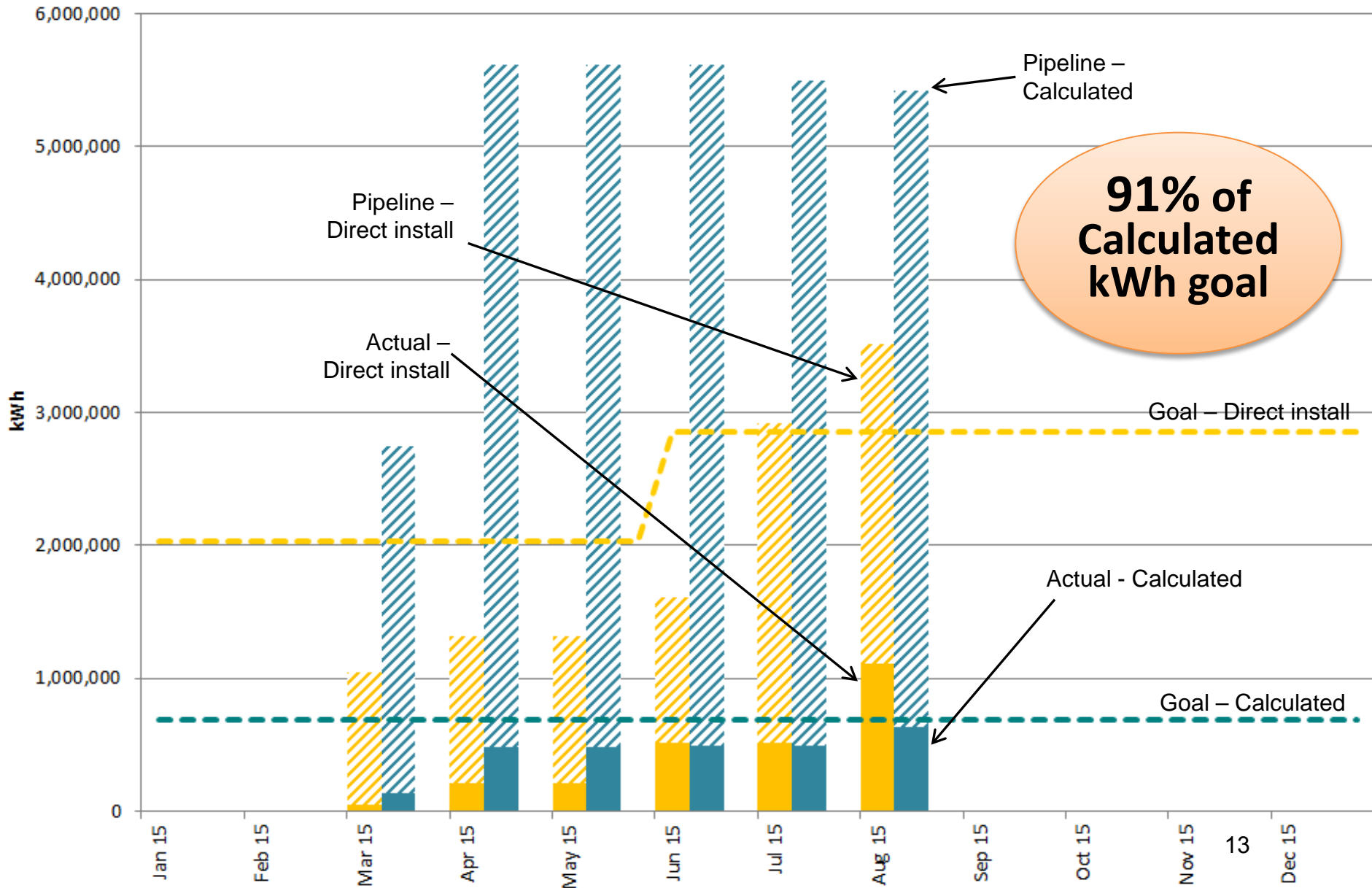
Kilowatt hours saved = 1,734,787 kWh



49%
of new
kWh goal

Actual

Kilowatt hours – Direct Install vs. Calculated



C/CAG AGENDA REPORT

Date: September 16, 2015

To: Resource Management and Climate Protection Committee

From: Kim Springer and Susan Wright, County Staff to C/CAG

Subject: Presentation on State Energy Efficiency Collaborative Forum 2015, California Climate Action Planning Conference, and the California Climate Change Symposium
(For further information contact Kim Springer at 650-599-1412 or Susan Wright at 650-599-1403.)

RECOMMENDATION

Receive an informational presentation on State Energy Efficiency Collaborative Forum 2015, California Climate Action Planning Conference, and the California Climate Change Symposium.

FISCAL IMPACT

None.

BACKGROUND/DISCUSSION

2015 SEEC Forum: The Statewide Energy Efficiency Collaborative (SEEC) is a collaboration between three statewide non-profit organizations (Local Government Commission, Institute for Local Government, and ICLEI – Local Governments for Sustainability, and California’s four Investor Owned Utilities (Pacific Gas and Electric Company, San Diego Gas & Electric, Southern California Edison, and Southern California Gas Company). SEEC provides education and tools for climate action planning, venues for statewide peer-to-peer networking, technical assistance and recognition for local agencies that reduce greenhouse gas emissions and energy use, namely the Beacon Award. The collaborative effort is designed to build upon the unique resources, expertise and local agency relationships of each non-profit organization, as well as those of the four investor owned utilities.

SEEC hosted the Sixth Annual Statewide Energy Efficiency Best Practices Forum on June 17-18, 2015 in Sacramento, CA. The first day consisted of a Statewide Local Government Partner Meeting for all utility partners. This meeting provided an opportunity to come together with local government partner peers from across the state and staff from California’s four Investor Owned Utilities to network and learn with one another.

The second day featured updates from key state agencies and highlighted innovative local energy and climate change programs on topics such as zero net energy, climate action plan tracking and implementation, the water energy nexus, community engagement, financing, and working with our state partners.

California Climate Action Planning Conference 2015: The second California Climate Action Planning Conference was held at California Polytechnic State University in San Luis Obispo on August 13-14, 2015 and was sponsored by the Governor’s Office of Planning and Research

(OPR), PG&E and others.

The conference focused mainly on trends in climate action planning with a small emphasis on adaptation. One of the driving themes was the new Governor's order, setting targets for GHG emissions through 2030 and 2050 and the various guidelines and plans being developed by OPR, such as "California at 50".

California Claim Change Symposium 2015: The California Climate Change Symposium was held in Sacramento on August 24-25, 2015 and was sponsored by: Intergovernmental Panel on Climate Change, the California Natural Resources Agency, CalEPA, OPR and others.

The main focus of the symposium was on climate science; various sources of data and models that can help support policy on risks such as fire, sea level rise, such as extreme heat and drought. There was also considerable emphasis on engagement of communities of need, especially because this aspect of policy development was included in the symposium agenda.

Staff will share key takeaways from the above conferences and forum. The agendas for the conferences and forum are attached to this report for your review.

ATTACHMENTS

1. 2015 SEEC Forum Agenda
2. California Climate Action Planning Conference 2015
3. California Claim Change Symposium 2015 Agenda



6th Annual
Statewide Energy Efficiency Forum
 June 17th – 18th • Sheraton Grand, Sacramento, CA



FORUM PROGRAM DRAFT

THURSDAY, JUNE 18TH

7:30 AM Registration and Continental Breakfast

8:30 AM Welcome

- Kate Meis, *Executive Director, Local Government Commission (LGC)*
- Supervisor Phil Serna, *County of Sacramento and CARB Board Member*
- Janice Berman, *Senior Director of Energy Efficiency Strategy, Pacific Gas and Electric Company*

9:10 AM Morning Plenary – Working Together to Meet New Goals: A Conversation with State Partners

This plenary session will feature a facilitated discussion with key representatives from the California Public Utilities Commission, the California Energy Commission, and the Governor’s Office of Planning and Research. The purpose of this plenary is to provide local governments from across the state an opportunity to hear from key state agencies about the state’s energy and climate change policies and the important role local governments play in helping the state meet its new and ambitious climate and energy goals.

CM | 1.00

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Commissioner Carla Peterman, *California Public Utilities Commission*
- Commissioner Andrew McAllister, *California Energy Commission*
- Director Ken Alex, *Governor’s Office of Planning and Research*

10:00 AM Q&A

10:25 AM Lightning Round: Overview of Morning Breakout Session Topics

10:35 AM Networking Coffee Break

11:05 AM Concurrent Morning Breakout Sessions

Breakout Session #1: Your Roadmap to Success: Climate and Energy Strategic Planning at the Local Level

With new policies and opportunities emerging around every corner, local government service and program implementers can often overlook the value of climate and energy strategic planning. How can local governments keep up with the ever-shifting political environment and changes in funding while developing a long-term plan that remains purposeful? At this session, we will get participants started in the strategic planning process then provide the tools and resources to support further implementation and execution.

CM | 1.00

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Liz Yager, *Energy and Sustainability Program Manager, County of Sonoma*



Breakout Session #2: A Clear Path to Climate Action Planning: No-Cost Tools for Local Governments

Learn about the latest trends in Climate Action Planning and the tools and resources available to support local governments throughout the process. This session will dive into the challenges that local governments and regional agencies face, and the tools and best practices for overcoming these obstacles. Participants will learn about SEEC ClearPath California and additional no-cost tools and resources available to inform and track energy and climate action plans.

CM | 1.00

- **Moderator** – Angie Fyfe, *Director of Resource Efficiency & Renewable Energy Program, ICLEI – Local Governments for Sustainability USA*
- Geoffrey Danker, *Senior Policy and Planning Advisor, Southern California Gas Company*
- J.R. Killigrew, *National Membership Coordinator & Senior Climate Program Officer, ICLEI – Local Governments for Sustainability USA*
- Paul Ahrns, *Project Manager, Sierra Business Council*
- Tiffany Wise-West, *Senior Environmental Engineer & Project Manager, EcoShift Consulting*

Breakout Session #3: Reaching the “Hard-to-Reach”: Engaging Underserved Communities

Working in California’s most vulnerable and underserved communities is a priority for the state and for local governments. How can we ensure that our programs are bringing real benefits to these communities when reaching them in the first place has proven challenging? This session will present on case studies of successful programs, and share lessons learned and best practices. Participants will walk away with a stronger understanding of currently available programs and resources to implement and coordinate programs to engage underserved communities.

CM | 1.00

- **Moderator** – Dave Christensen, *Senior Program Manager, Government and Community Partnerships, Pacific Gas and Electric Company*
- Supervisor Pete Vander Poel, *County of Tulare*
- Robert Castaneda, *CEO & Principal, Castaneda Communications*
- Samantha Doderio, *Program Administrator, San Joaquin Valley Clean Energy Organization*

Breakout Session #4: New Strategies for Old Buildings: Working in Existing Municipal Buildings

How can local governments achieve the goals of the AB 758 Plan and where do they start? Learn how to sell your project to the decision makers – with and without using hard metrics – and how to finance it. At this session, participants will be equipped with best practices and resources to successfully implement energy efficiency projects in existing municipal buildings and how to measure the results.

CM | 1.00

- **Moderator** – Laurel Rothschild, *Assistant Director, The Energy Coalition*
- Charles Hebertson, *Director of Public Works & City Engineer, City of Culver*
- Courtney Kalashian, *Executive Director, San Joaquin Valley Clean Energy Organization*
- Howard Brewen, *Superintendent, City of San Luis Obispo*

12:20 PM

Networking Lunch and Table Discussions

Take the Forum further: Gather with colleagues for semi-structured topical conversations at hosted discussion tables during the networking lunch. Before lunch, check out the display near the registration table to learn more, to sign up for one of the existing table topics, or to propose your own topic.



1:20 PM

Lightning Round: Overview of Afternoon Working Session Topics

1:30 PM

Concurrent Afternoon Working Sessions

Working Session #1: A Race to the Bottom: Advancing Zero Net Energy

Zero Net Energy (ZNE) buildings have the unprecedented potential to create sustainable and healthy living, learning, and work environments in California – and they're being created both at new and existing properties. During this hands-on session, participants will learn about market trends and California's goals, how to carry ZNE strategic planning into action, and creative financing and planning strategies through interactive activities.

CM | 2.50

- **Moderator** – Ralph DiNola, *Executive Director, New Buildings Institute*
- Cathy Fogel, *Senior Analyst, California Public Utilities Commission*
- Kevin Bates, *President, SHARP Development Company*
- Roy Haperman, *Energy Manger, County of Santa Barbara*

Working Session #2: Making Your Messages Resonate: Communicating on Climate and Energy

Talking about climate change and energy can be a difficult task that results in dissonance and disagreement. How can we craft our message to resonate with our audience most effectively? This active session will guide participants through the key elements of communicating on climate and energy, and participants will learn how to improve their messaging through practice.

CM | 2.50

- **Moderator** – Dan Barry, *Communities Director, EcoAmerica*
- Catherine Hurley, *Sustainability Manager, City of Evanston*
- Stephanie Gray, *Marketing Manager, West Region, Conservation Services Group*

Working Session #3: Do It, Track It, Share It: Tools for Implementation, Monitoring, and Reporting

Once you develop your local climate action plan, you're ready to implement the policies and measures outlined in your plan – but where to start? This working session will provide participants with a walkthrough of the available tools for implementation, as well as for monitoring and reporting. Participants will learn about a suite of tools, available to local governments at no cost, as well as about different tools that have been developed and deployed by local and regional entities across California.

CM | 2.50

- **Moderator** – Karalee Browne, *Program Manager, Institute for Local Government*
- Christine O'Rourke, *Sustainability Coordinator, Marin Climate & Energy Partnership*
- Cory Downs, *Conservation Specialist, City of Chula Vista*
- J.R. Killigrew, *National Membership Coordinator & Senior Climate Program Officer, ICLEI – Local Governments for Sustainability USA*

4:00 PM

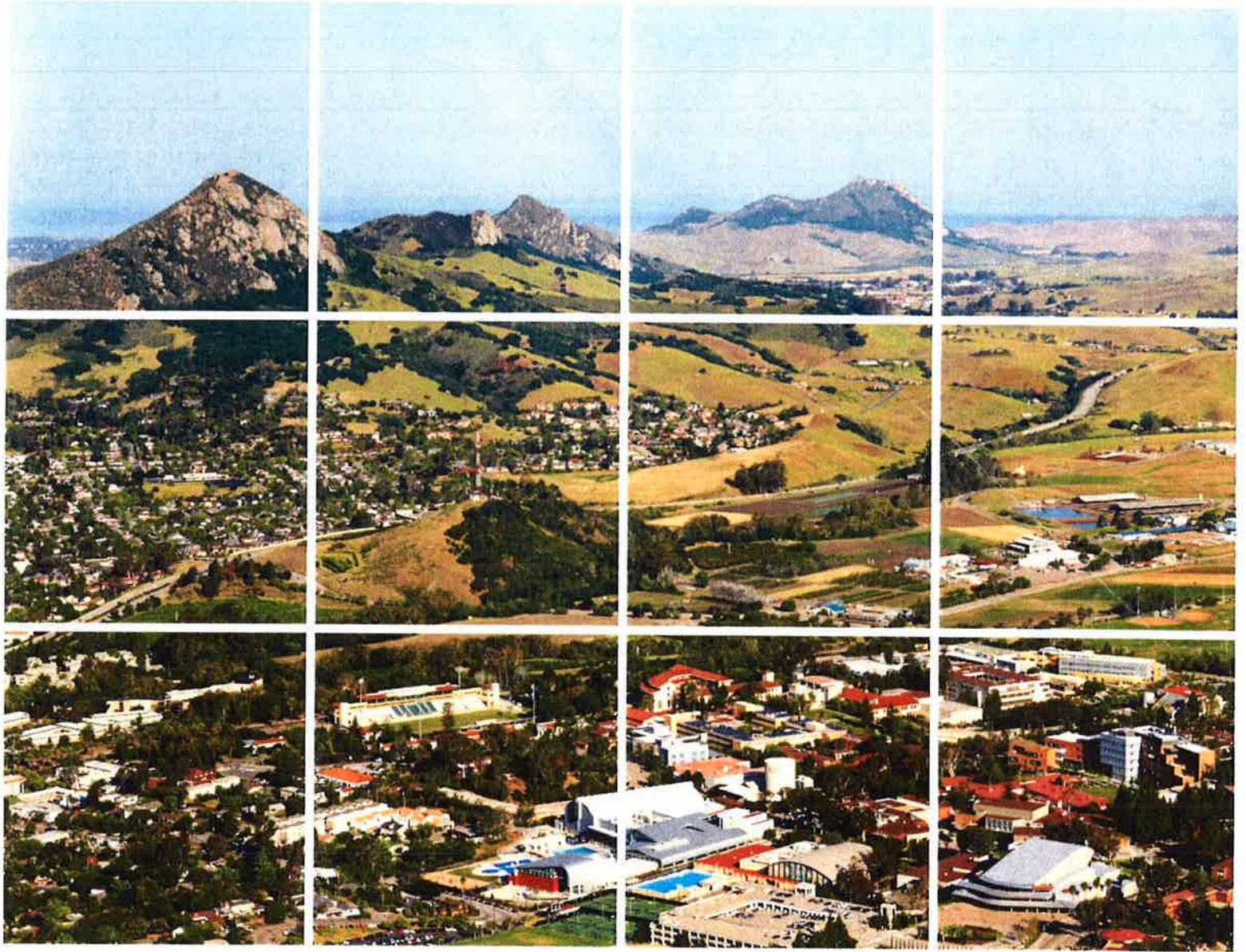
Afternoon Plenary - Rethinking Energy: Innovations to Lead Us into the Future

This plenary session will feature a facilitated discussion on innovative approaches, ideas, and initiatives that are transforming how we think about energy efficiency and climate programs and policies.

- **Moderator** – Joseph Oldham, *Statewide Energy Efficiency Best Practices Coordinator, LGC*
- Bob Raymer, *Technical Director, California Building Industry Association*
- Dian Grueneich, *Senior Research Scholar, Stanford University*
- Shannon Casey, *Communications Director, Cleantech San Diego*

5:00 PM

Adjourn



California Climate Action Planning Conference 2015

**California Polytechnic State University
San Luis Obispo
August 13 - 14, 2015**

THURSDAY, AUG.13

TIME	SESSION	LOCATION
8:00 - 9:00am	Registration / Check-In Opens (Available all day)	Spanos Theater Patio
9:00 - 10:15	Opening Keynote Address	PAC Pavilion
10:15 - 10:30	BREAK (15 minutes)	Spanos Theater Patio
10:30 - 12:00pm	Plenary Panel: California 2050: Tomorrow's Future Starts Today	PAC Pavilion
12:00 - 1:30	LUNCH (Networking)	19 Metro station
1:30 - 3:00	CAP 2.0: Learning from the First Round of CAP Updates	PAC Pavilion
	Innovative Approaches in Outreach & Education	Phillips Hall
3:00 - 3:15	BREAK (15 minutes)	Spanos Theater Patio
3:15 - 4:45	The Effect of State Policy & Court Rulings on Local Climate Action Planning	PAC Pavilion
	Linking Public Health & Climate Change	Phillips Hall
4:45 - 6:00	Wine & Cheese Social	Sage - Vista Grande
6:00 - 7:00	Special Student Session on Careers in Climate Action Planning	Phillips Hall
6:00 - 9:00pm	SLO Farmers' Market (on-your-own)	Downtown San Luis Obispo

Speaker Biographies Available on the Conference Website - <http://planning.calpoly.edu/CCAPC>

TIME	SESSION	LOCATION
8:00 - 8:30am	Coffee Social	Spanos Theater Patio
8:30 - 10:00	Local GHG Emissions Reduction Planning Beyond 2020	PAC Pavilion
	Adapting to Climate Change	Phillips Hall
10:00 - 10:15	BREAK (15 minutes)	Spanos Theater Patio
10:15 - 11:30	Successful Renewable Energy Actions	PAC Pavilion
	The Right Tool for the Right Job: The Past, Present, and Future of GHG Management Tools	Phillips Hall
11:30 - 1:00	LUNCH (Networking)	19 Metro station
1:00 - 2:15	Successful Energy & Water Efficiency Actions	PAC Pavilion
	Regional Collaboratives for Climate Action & Sustainability *	Phillips Hall
2:15 - 2:30	BREAK (15 minutes)	Spanos Theater Patio
2:30 - 3:45	Achieving Broader Community Goals Through Climate Action Planning	PAC Pavilion
	Understanding the Role for Agriculture & Land Conservation in Climate Action Planning	Phillips Hall
3:45 - 5:00pm	The Future of Climate Action Planning (Closing Plenary Session)	PAC Pavilion

* Following this session will be a Special Session on exploring the potential for a Central Coast regional collaborative will be held Fri, Aug. 14 from 2:30-3:45pm in the University Union (UU), Room 216.

CALIFORNIA CLIMATE CHANGE SYMPOSIUM 2015

USING CLIMATE SCIENCE TO PLAN FOR A RESILIENT FUTURE
AUGUST 24-25, 2015
SACRAMENTO CONVENTION CENTER



#CCCS15

MONDAY, AUGUST 24

8:00 Registration Opens

9:00 - 9:50 BALLROOM

Opening Plenary Session: The Role of Science in Shaping Climate Adaptation Policy

Welcome: JR DeLaRosa (California Natural Resources Agency)

Moderator: Chairman Robert Weisenmiller (California Energy Commission)

Panellists: Cliff Rechtschaffen (Governor's Office), Ana Conde Álvarez (IPCC/Mexico), Veerabhadran Ramanathan (University of California, San Diego)

9:50 - 10:00 Break

CONCURRENT SESSION A - CLASSROOM

10:00 - 11:55

Comprehensive Climate Change Projections to Support Multisectoral Analyses

Moderated by Elissa Lynn (Department of Water Resources)

10:00 - 10:20 Regional Climate Change Projections for California: State of the Science, Guido Franco (California Energy Commission)

10:20 - 10:40 Using Dynamic Regional Climate Models for California's 4th Climate Change Assessment, Alex Hall (UC Los Angeles)

10:40 - 11:00 High-Resolution Climate Change and Hydrological Projections, Alan Flint (USGS)

11:00 - 11:20 Probabilistic Estimates for California Climate Changes Using Downscaled CMIP5 Climate Projections, Dan Cayan (Scripps Institution of Oceanography)

11:20-11:40 Cal-Adapt as a Tool for Visualizing Climate Scenarios and Supporting Decision-Making, Nancy Thomas (Geospatial Innovations Facility, UC Berkeley)

11:40-11:55 Moderated Q&A

12:00 - 1:10 BALLROOM

Lunch and Keynote Presentation

Anthony Barnosky (UC Berkeley) and Elizabeth Hadly (Stanford), lead authors of Maintaining Humanity's Life Support Systems, produced at Governor Brown's request

1:15 - 2:15

Future Climate Impacts and Adaptation Options for Natural and Managed Ecosystems

Moderated by Whitney Albright (California Department of Fish and Wildlife)

1:15 - 1:35 Climate Impacts and Adaptation Options for Natural and Managed Ecosystems in California: State of the Science, David Ackerly (UC Berkeley)

1:35 - 1:55 Interactive Effects of Climate Change and Fuels Management Scenarios on Wildfire Activity and Emissions in Sierra Nevada Forests, LeRoy Westerling (UC Merced)

1:55 - 2:15 Conserving Nature's Stage: Geospatial Resilience Mapping to Identify Priorities for Land Protection, Dick Cameron (The Nature Conservancy)

2:15 - 2:35 Climate Considerations, Adaptation, and Prioritizing State-Funded Levee Investments in the Delta, Nidhi Kalra (RAND with David Groves (RAND) & Cindy Messer (Delta Stewardship Council)

2:35 - 2:50 Moderated Q&A

2:50 - 3:05 Break

3:05 - 5:00

Future Climate Impacts and Adaptation Options for Human Systems

Moderated by Kristin Ralff Douglas (California Public Utilities Commission)

3:05 - 3:25 Climate Impacts and Adaptation Options for Human Infrastructure in California: State of the Science, Michael Hanemann (Arizona State University)

3:25 - 3:45 Sea Level Rise, Storm Surge, and Flooding in the San Francisco Bay and Delta: Risks to Critical Infrastructure, John Radke (UC Berkeley)

3:45 - 4:05 California's Surface Transportation System: Vulnerabilities, Resilience Options, and Research Needs, Deb Niemeier (UC Davis)

4:05 - 4:25 Potential Impacts of Prolonged Droughts for California's Agricultural Sector, Richard Howitt (UC Davis)

4:25 - 4:45 Microgrids for Energy Resilience, Neal Bartek (San Diego Gas & Electric)

4:25 - 4:45 Moderated Q&A

5:00 - 6:30 Poster Session and Networking Reception (no-host bar)

Welcome: Jonathan Parfrey (Climate Resolve)

CONCURRENT SESSION B - BALLROOM

10:00 - 11:55

Greenhouse Gas Inventory Methods for California

Moderated by Amrith Gunasekara (California Department of Food and Agriculture)

10:00 - 10:20 California's Greenhouse Gas Inventory: State of the Science, Richard Bode (California Air Resources Board)

10:20 - 10:40 California Ecosystem Carbon Changes, Wildfire, and Climate Change, Patrick Gonzalez (National Park Service)

10:40 - 11:00 Quantification of California Greenhouse Gas Emissions at State, Regional, and Facility Scales, Marc Fischer (LBNL)

11:00 - 11:20 Agricultural Practices and N₂O Emissions: Modeling and Observations in California, William Salas (Applied Geosolutions)

11:20-11:40 The Megacities Carbon Project: Monitoring Urban-Scale Carbon Emissions, Riley Duren (NASA)

11:40-11:55 Moderated Q&A

1:15 - 2:15

Water Resources in California: Drought, Extreme Events, and Management Options

Moderated by Sonya Ziaja (California Energy Commission)

1:15 - 1:35 What Does Climate Change Mean for Atmospheric Rivers and Water Resources in California?, Michael Dettinger (USGS)

1:35 - 1:55 Climate Change and California's Current Drought, Noah Diffenbaugh (Stanford)

1:55 - 2:15 Climate Change and Extreme Hydrologic Events: Links to the California Drought, Peter Gleick (Pacific Institute)

2:15 - 2:35 Managing Water Resources in a Changing Climate, Ellen Hanak (Public Policy Institute of California)

2:35 - 2:50 Moderated Q&A

3:05 - 5:00

Future Climate Impacts and Adaptation Options for Coastal Resources

Moderated by Abe Doherty (Ocean Protection Council)

3:05 - 3:25 Impacts and Adaptation Options for California's Coastal Resources: State of the Science, Gary Griggs (UC Santa Cruz)

3:25 - 3:45 Using the Coastal Storm Modeling System (CoSMoS) to Support Decision-Makers in the Bay Area (and So. Cal?), Patrick Barnard (USGS)

3:45 - 4:05 Lessons from Incorporating Climate into the Bay Area Baylands Ecosystem Habitat Goals Project, Letitia Grenier (San Francisco Estuary Institute)

4:05 - 4:25 Coastal Resilience California: Applying State-of-the-Art Science to Coastal Conservation and Adaptation, Walter Heady (The Nature Conservancy)

4:25 - 4:45 Changing Ocean Conditions: Science to Policy, Case Study Ocean Acidification and Hypoxia, Catherine Kuhlman, Executive Director, Ocean Protection Council

4:25 - 4:45 Moderated Q&A

CLIMATE SCIENCE TO PLAN FOR A RESILIENT FUTURE

TUESDAY, AUGUST 25

8:00 Registration Opens

CONCURRENT SESSION A - CLASSROOM

8:30 - 10:05

Public Health, Environmental Justice, and Climate Change

Moderated by Paul English (California Department of Public Health)

8:30 - 8:50 Climate Change and Human Health: State of the Science, Linda Rudolph (Public Health Institute)

8:50 - 9:10 Climate change: Environmental Justice and Community Impacts in California, Manuel Pastor (University of Southern California)

9:10 - 9:30 Heat-Related Morbidity and Mortality in California, Rupa Basu (Office of Environmental Health Hazard Assessment)

9:30 - 9:50 Investing in Disadvantaged Communities, SB 535, and CalEnviroScreen, Shankar Prasad (Office of Environmental Health Hazard Assessment)

9:50 - 10:05 Moderated Q&A

10:05 - 10:20 Break

10:20 - 12:00

Federal Support for Climate Change Science in California

Moderated by Kit Batten (UC Davis Policy Institute)

10:20 - 10:36 California Collaborations with Federal Entities on Climate Change Science: Overview, Fred Lipschultz (US Global Change Research Program)

10:36 - 10:52 The Southwest Climate Science Center, Glen MacDonald (UCLA)

10:52 - 11:08 The California Landscape Conservation Cooperative, Rebecca Fris (California Landscape Conservation Cooperative)

11:08 - 11:24 USDA Regional Climate Change Hubs: Southwest Sub-Hub, Kerri Steenwerth or Amber Kerr (USDA/UC Davis)

11:24 - 11:40 Estimating the Benefits to the U.S. of Global Climate Action: Advancements in Science and Economics, Jeremy Martinich (USEPA)

11:24 - 11:40 Moderated Q&A

12:00 - 1:05 BALLROOM

Lunch and Keynote Presentation

Susanne Moser (Susanne Moser Research and Consulting; Stanford University, Woods Institute for the Environment) on Translating Climate Change Science into Effective Action

1:10 - 2:45 BALLROOM

Plenary Session: Forging and Facilitating Adaptation Policy in California

Welcome: JR DeLaRosa (California Natural Resources Agency)

Moderator: Secretary John Laird (California Natural Resources Agency)

Panellists: Senator Bob Wieckowski (SD10), Assemblymember Rich Gordon (AD24), Assemblymember Eduardo Garcia (AD56), Anne Simpson (Director of Corporate Governance, CalPERS)

2:45 - 3:00 Break

3:00 - 4:15 BALLROOM

Closing Plenary Session: Conversation about International Adaptation Activities and Potential Opportunities for Coordination and Collaboration

Welcome: Karen Edson (California ISO)

Moderator: Secretary Matt Rodriguez (CalEPA)

Panellists: Ana Conde Álvarez (IPCC/Mexico), Hugo G. von Meijenföldt (Netherlands), Susanne Moser (Susanne Moser Research and Consulting; Stanford University, Woods Institute for the Environment), Jaime Cabrera invited (Peru)

CONCURRENT SESSION B - BALLROOM

8:30 - 10:05

Integration of Greenhouse Gas Emissions Reductions and Climate Resilience in California

Moderated by Louis Blumberg (The Nature Conservancy)

8:30 - 8:50 Integration of Mitigation and Adaptation in California: State of the Science, Louise Bedsworth (Governor's Office of Planning and Research)

8:50 - 9:10 Managing Forests for both Mitigation and Adaptation, Emily Moran (UC Merced)

9:10 - 9:30 Managing California's Rangelands for Carbon Sequestration and Adaptation, Whendee Silver (UC Berkeley)

9:30 - 9:50 Desert Renewable Energy Conservation Plan (DRECP) and DataBasin: Integrating Habitat Protection with Renewable Energy Strategies, Scott Flint (California Energy Commission) with Jim Stritholt (Conservation Biology Institute)

9:50 - 10:05 Moderated Q&A

10:20 - 12:00

Local and Regional Climate Resilience Activities in California

Moderator: Jonathan Parfrey (Climate Resolve)

1:15 - 1:35 Planning and Implementing Climate-Related Strategies at the Regional Level in California, Kate Meis (Alliance of Regional Collaboratives for Climate Adaptation)

1:35 - 1:55 Local and Regional Resilience Efforts: Developing Data Driven Strategies, Stephanie Pincetl (Los Angeles Regional Collaborative)

1:55 - 2:15 "Building Bay Area Resilience: Scientists + Practitioners, Bruce Riordan (Elmwood Consulting)

2:15 - 2:35 Rural Investment as an Urban Adaptation Strategy, Kerri Timmer (Sierra Business Council)

2:35 - 2:50 Planning for Rising Seas in Marin County, Bridgit Van Belleghem (Marin County)

2:35 - 2:50 Moderated Q&A

FOR SPEAKER INFORMATION VISIT CALIFORNIASCIENCE.ORG

C/CAG AGENDA REPORT

Date: September 16, 2015
To: Resource Management and Climate Protection Committee
From: Adrienne Carr, BAWSCA, RMCP Committee Member
Subject: Update on Current Water Supply and Drought Conditions
(For further information contact Kim Springer at 650-599-1412)

RECOMMENDATION

Receive an update on current water supply and drought conditions.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

With ongoing dry conditions throughout California, the Bay Area Water Supply and Conservation Agency (BAWSCA), which represents the 26 wholesale customers of the Hetch Hetchy Regional Water System, is working with its member agencies to track water use, ongoing drought conditions, and progress towards mandatory water use reduction goals.

BAWSCA staff has been providing short updates of water supply conditions, monthly, to the RMCP Committee. The most recent update was at the July 2015 meeting. BAWSCA staff will provide an update again at this meeting on the current water supply outlook, conservation outreach, the historic nature of the current drought, the potential for El Niño to bring drought relief, and other topics.

Adrienne Carr, Senior Water Resources Specialist, will provide an update on current water supply and drought conditions.

ATTACHMENTS

None