

# 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, March 18, 2015

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

**Location:** 155 Bovet Rd. – Ground Floor Conference Room  
San Mateo, CA

1. Introductions
2. Public Comment
3. Approval of Minutes from January 21, 2015 meeting  
(Susan Wright – Committee Staff) Action
4. Presentation on PG&E's new Green Option  
(Sapna Dixit – PG&E Staff) Information, Discussion
5. Presentation on growth of Customer-side Solar in San Mateo County from 1998 to 2014  
(Sapna Dixit – PG&E Staff) Information, Discussion
6. Presentation on Solar Thermal implementation and incentives in California  
(Brian Bishop – PG&E Staff) Information, Discussion
7. Update on Water Supply and Conservation Efforts in San Mateo County  
(BAWSCA staff) Information, Discussion
8. Committee Member Updates
9. Next Regular Meeting Date: April 15, 2015

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**RESOURCE MANAGEMENT AND CLIMATE PROTECTION TASK FORCE**  
**Minutes from the 1-21-2015 Meeting**

**In attendance:**

Michael Barber, Supervisor Pine's office  
Beth Bhatnagar, Sustainable San Mateo County  
Rick DeGolia, Town of Atherton\*  
Maryann Moise Derwin, Committee Vice Chair, Portola Valley Town Council\*  
Adrienne Carr, BAWSCA  
Pradeep Gupta, South San Francisco City Council\*  
Ashley Henderson, Lifecycle Associates  
Deborah Hirst, Supervisor Horsley's office  
John Hoang, C/CAG  
Miles Hoffman, True Market Solutions  
Joe La Mariana, County of San Mateo RecycleWorks  
Kathy Lavezzo, PG&E  
Barbara Pierce, Redwood City City Council\*  
Kim Springer, County of San Mateo RecycleWorks (staff)  
Sandy Wong, C/CAG  
Susan Wright, County of San Mateo RecycleWorks (staff)  
Gauri Vilash, Foothill Community College student

**Not in attendance:**

Bob Cormia, Foothill De Anza Community College  
Deborah Gordon, Committee Chair, Woodside Town Council\*  
Jorge Jaramillo, San Mateo County Hispanic Chamber of Commerce  
Don Horsley, San Mateo County Board of Supervisors\*  
Debbie Kranefuss, Ecology Action  
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**

Pradeep Gupta noted that the December 17, 2014 minutes indicated that 9 homes in South San Francisco were flooded during the December storms, but the number was actually 39 homes. With

PUBLIC NOTICING: All notices of C/CAG Board and Committee meetings are posted at:  
San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA.

this adjustment noted, the minutes passed.

**4) Presentation on California Energy Commission-funded Alternative Fuel Readiness Plan for San Mateo County (John Hoang, Ashley Henderson - Lifecycle Associates)**

The Alternative Fuel Readiness Plan project was funded with a \$275,000 grant from the California Energy Commission. It includes a task force of cities plus industry. The grant includes EVs (plug in, hybrids) as well as hydrogen, CNG, biodiesel, and other types. The study will be done by the end of the year or early next year. Comments and questions followed the presentation by Ashley Henderson:

Question: Are you talking to the vehicle manufacturers themselves? Distribution might be different than manufacturing.

Ashley: Mostly focusing on infrastructure side. The manufacturing side is out of the scope of what San Mateo County can influence. There are a lot of interest groups that are present in the conversations. The goal for 2025 is 15% alternative fuel vehicles sold in California.

Question: Will the recent low fuel prices change projections?

Ashley: Yes, in the short term, but it seems it will even out.

Question: Will the study look at whether or not there are enough EV charging stations?

John: C/CAG has looked in to it twice now. Within last couple of years, it has changed.

Ashley: There's a lot of debate around this. There's a need for fueling stations in multiple unit dwellings, but it's harder to get those approved. Bay Area Climate Collaborative (BACC) is working on that.

John: We will document the number and categorization of EV charging stations in the report.

Question: Are there any fuel cell recharging stations in the area?

Ashley: In Emeryville. Part of the ZEV initiative was \$20 million to build hydrogen stations. By end of 2015, there will be 48 total. Four locations have been chosen in San Mateo County.

Concern: It's a problem when EVs are parked at charging stations after they're fully charged.

Ashley: We will look at policy on that.

Question: Is there any research on hydrogen fuel cell economics? Fuel costs are down. It's a concern if government funding is used, but in 10 years this fuel doesn't make sense economically. Might there be risks/unintended consequences?

Ashley: Generally, costs will go down over time, but it still is an expensive technology.

Comment: The end product is work plus steam. This has tremendous potential re: climate. But the cost of getting hydrogen is unknown.

Ashley: There have been breakthroughs in hydrogen fuel cell cars. They don't have to use platinum anymore. If you create fuels using renewables, that's good.

Comment: You can get hydrogen through natural gas. Sunlight is used to create hydrogen (like photosynthesis).

Policy question: Are you looking at total lifecycle impacts, not just at the point of use? Are you considering production and development of fuels? How much does that amount to?

Question: Is there a report from the CEC to look at a whole series of alternative fuels? We need an analysis of the benefit of each technology so we can assess where we want to invest. This will enable us to look at it from policy perspective, evaluate tax credits. The analysis would be different for California than Ohio or Colorado because of weather and topography.

John: Statewide, the CEC is looking at different types of alternative fuels to see what happens.

Ashley: Some of these fuels have different advantages: range, availability.

Comment: This effort is driven by the low-carbon fuel standard. The State had to come up with a way to introduce low carbon fuels into the market in California. It was driven by AB32 and manufacturers investing in these vehicles.

Comment: The state has chosen to set a target – 2 strategies.

1. Feasibility.
2. Incentives – trying to make fledgling technologies come forward until they can stand on their own.

Are we investing in the right thing?

#### **5) Presentation on PG&E-funded and Participant-funded Sustainability Circles program in San Mateo County (Miles Hoffman)**

Sustainability Circles are being piloted in San Mateo County, partially funded by PG&E. The founder of True Market Solutions is Elliott Hoffman, the CEO/founder of Just Desserts (business model included caring about employees).

Sustainability Circles highlight the financial benefits of being a sustainable business. Target business size is 50 to 3,000 employees. Each circle includes 8 to 10 businesses/organizations. They can be schools, local governments in addition to businesses. The goal is to change the mindset of employees and stakeholders by looking at the business case for sustainable actions.

The total program cost per business is \$7,500. PG&E subsidizes half. Utilities in other regions subsidize 75%. Last year there were five circles in California, this year there will be 50.

Question: How do you get the circles started?

Miles: There will be “circle preview” meetings in February, which include a presentation and time to talk with each other. We’re working with Sustainable San Mateo County to get the word out. The preview dates aren’t set yet. True Market Solutions follows up with one-on-one meetings.

Question: Are you working with local governments?

Miles: We’ve presented to two cities in San Mateo County. We have a semi-commitment from South San Francisco. Redwood City is doing a different pilot (residential focus).

Question: Could Sustainability Circles synchronize with LEAN process improvement training (used by the County)?

Miles: That would make a lot of sense.

Comment: For municipalities, having two staff members attend one day a month is difficult. Having staff away is a barrier.

Miles: The Circles meet at the locations of the participants. (They provide lunch.)

Comment: The employee participating needs to be a high enough level to see the perspective of the organization. You need support from the City Manager and City Council. The selling point for the attendee: You will take one week/month (not just one day), but you will get improved operations overall. It's painful upfront, but big payoff.

Miles: Who attends: CFO, facilities director.

**6) Review of Outcomes of 2013-2014 San Mateo County Energy Watch Program Cycle and Update on 2015 (Susan Wright)**

Susan Wright's presentation showed how SMCEW met its kWh energy savings goals, explained that streetlights projects dominated non-direct install energy savings and, therefore, made the kW goal hard to reach, and how the program has a full "pipeline" of future projects. She described additional initiatives underway including support for cities participating in the Beacon Award and giving a CAP update to Council, Builder Operator Certification for school facilities personnel, outreach campaigns to small businesses (two marketing videos were shown), SMCEW website update, Zero Net Energy workshop (May 18 & 19), and water conservation projects.

Comment: The videos could go on local access tv.

**7) Update on Water Supply and Conservation Efforts in San Mateo County (Adrienne Carr)**

After Adrienne Carr's presentation, the following comments/questions were discussed:

Comment: With all the December rains and flooding, it all ran off. It didn't create snowpack. It might be even harder to get people to save.

Adrienne: SF and BAWSCA are working on revising marketing materials. SF regional water system is tracking savings. The water year starts October 1.

Comment: We're in a better situation because of where we get our water. People have made some changes permanently, so there may be lower demands per capita.

Adrienne: Conversation about direct potable reuse is happening now. Major players have been talking about that. Projects may be fast-tracked. April is when SF evaluates the water storage situation. Then they issue a letter to wholesale customers.

Comment: When will the cost of water go over the cost of fuel?

**8) Committee Member Updates**

Pradeep Gupta has been appointed to the regional policy committee (JPC). That's a policy committee looking at expenditures, revenues, resources. At the last meeting, the committee decided to put 80% priority on climate protection efforts, 20% to other issues. There will be lots of support for new applications. County should be looking at how cap & trade funds will be allocated. Need to look at that for our fair share. Grant deadlines coming in April.

**9) Next Regular Meeting Date: February 18, 2015**

Location still at BAWSCA.

**Attachments:**

None.

# C/CAG AGENDA REPORT

**Date:** March 18, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Kim Springer, County staff to RMCP Committee  
**Subject:** Presentation on PG&E's new Green Option  
  
(For further information contact Kim Springer at 650-599-1412)

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## **RECOMMENDATION**

Receive a presentation on PG&E's new Green Option for discussion.

## **FISCAL IMPACT**

None.

## **BACKGROUND/DISCUSSION**

On September 28, 2013, the Governor passed SB 43 (Wolk), establishing the Green Tariff Shared Renewables Program. The bill offered interested utilities with over 100,000 customers to file an application with the California Public Utilities Commission (CPUC) and for the CPUC to review and issue a decision on those applications by July 1, 2014. PG&E filed their application on February 21, 2014. On January 29, 2015 PG&E received approval of their application and began announcing their program called the "Green Option".

Statewide, the Program establishes 600 Megawatts of renewables generation, to be sold through three utilities, for purchase by customers who wish to purchase 100% renewables. SB 43 was conceived to provide access to renewable energy for customers whose sites don't lend themselves to renewable generation. PG&E's program is being called the Green Option.

Sapna Dixit, Community Energy Manager with PG&E, will present this new program. A link to PG&E's website for the Green Option has been provided as an attachment to this staff report.

## **ATTACHMENT**

<http://www.pge.com/en/about/environment/pge/greenoption/index.page>

# C/CAG AGENDA REPORT

**Date:** March 18, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Kim Springer, County staff to RMCP Committee  
**Subject:** Presentation on growth of Customer-side Solar in San Mateo County from 1998 to 2014

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

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## **RECOMMENDATION**

Receive a presentation on growth of customer-side solar in San Mateo County from 1998 to 2014 for discussion.

## **FISCAL IMPACT**

None.

## **BACKGROUND/DISCUSSION**

PG&E has provided a single-sheet report of residential and non-residential solar interconnection growth in San Mateo County from April 1998 through December 2014.

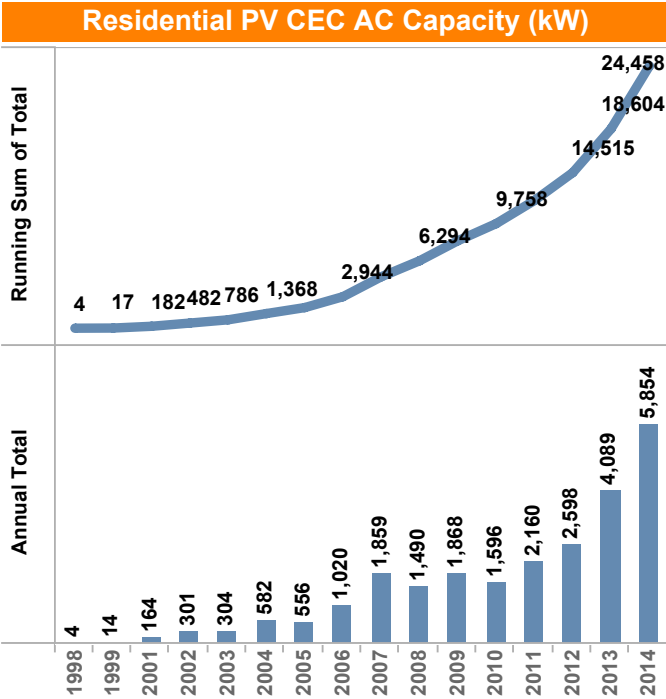
Sapna Dixit, Community Energy Manager with PG&E, will provide an overview of the data and the report for discussion. A copy of the single sheet report has been provided as an attachment to this staff report.

## **ATTACHMENT**

PG&E Generation and Interconnection Services Progress Report for San Mateo County

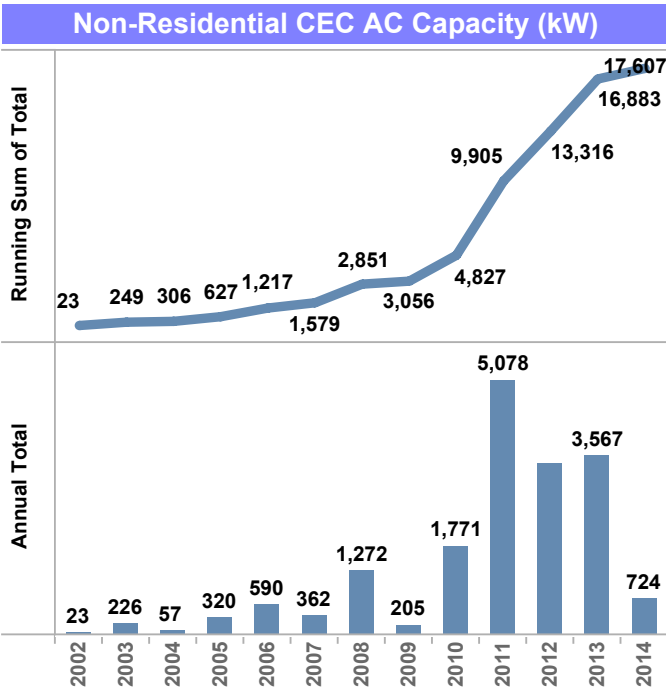
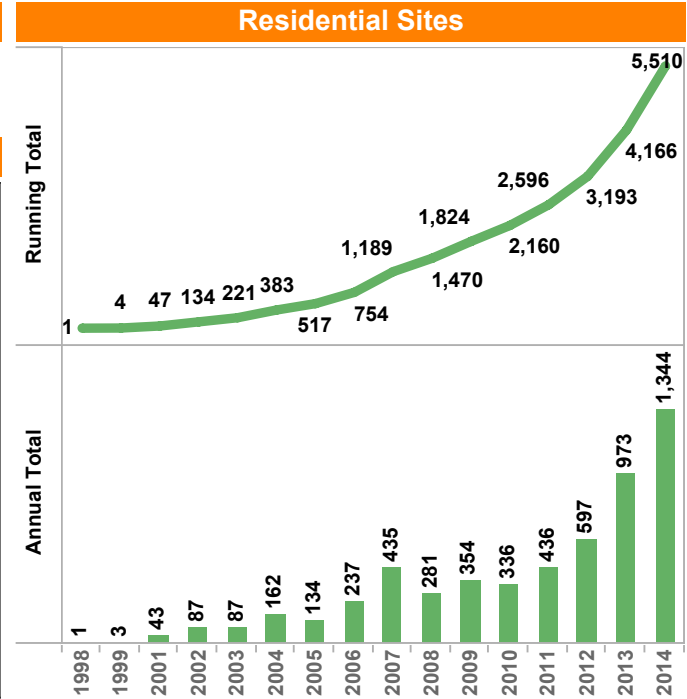
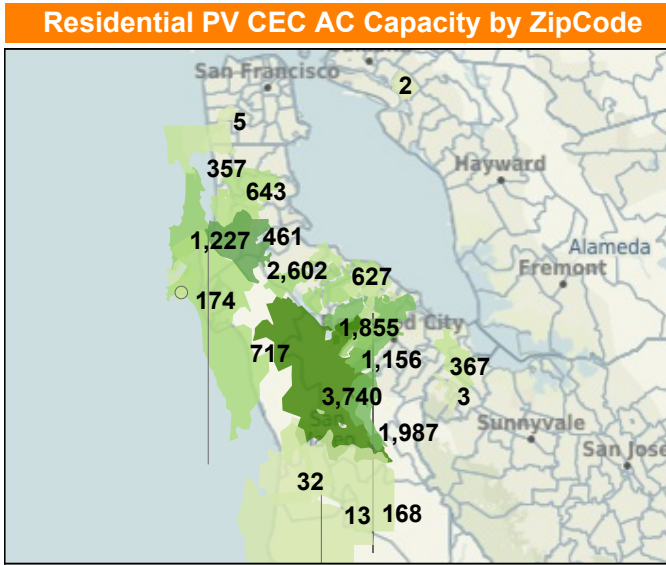
# PG&E Generation Interconnection Services Progress Report for San Mateo County

## Photovoltaic Generation Sites Authorized to Parallel under Rule 21 Programs 04/1998 through 12/2014



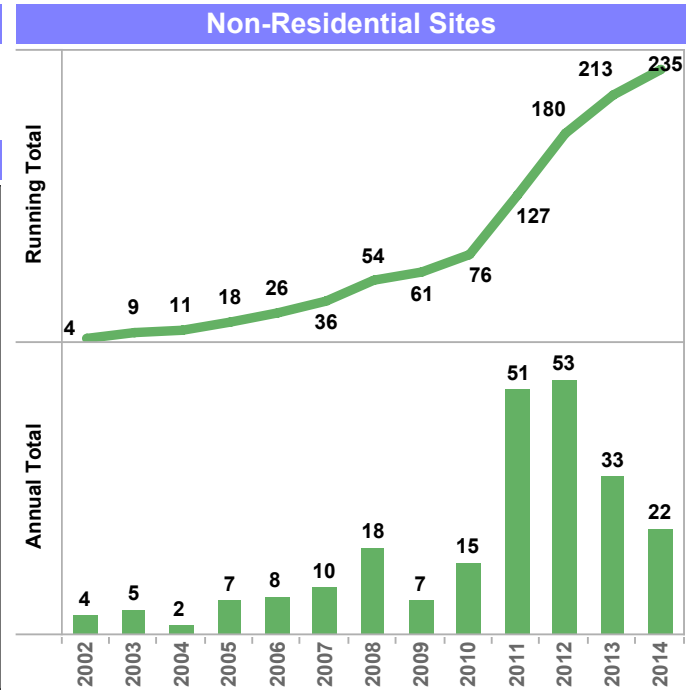
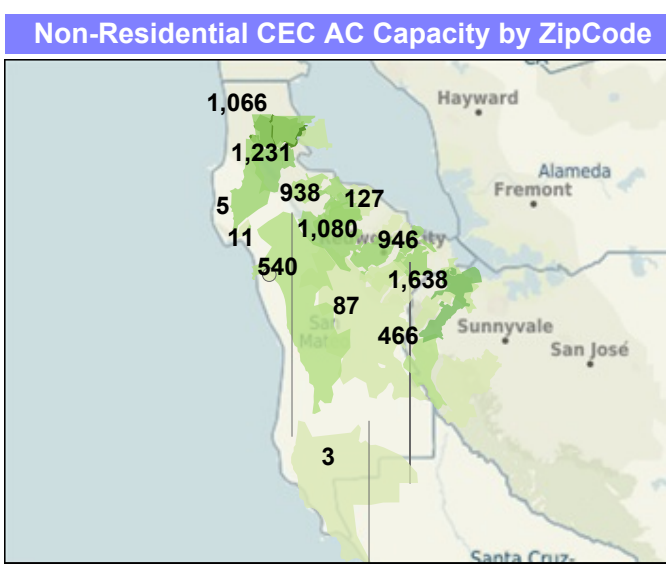
### Residential PV 04/1998 through 12/2014

Capacity (kW)	CEC AC (kW)	PV Sites
<b>27,071</b>	<b>24,458</b>	<b>5,507</b>



### Non-Residential PV 04/2002 through 12/2014

Capacity (kW)	CEC AC (kW)	PV Sites
<b>19,589</b>	<b>17,607</b>	<b>235</b>



**Capacity** = AC Nameplate Rating of System Inverters in kW  
**CEC AC** = PV Module Quantity times CEC PTC Rating times Inverter Efficiency Rating (per CEC site). If Module info unavailable then CEC AC is estimated at 86% of Inverter Nameplate.

This information and data is provided 'as is' and subject to no representation or warranty of any kind, including but not limited to accuracy, methodology, and calculation.



# C/CAG AGENDA REPORT

**Date:** March 18, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Kim Springer, County staff to RMCP Committee  
**Subject:** Presentation on Solar Thermal implementation and incentives in California  
(For further information contact Kim Springer at 650-599-1412)

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## **RECOMMENDATION**

Receive a presentation on Solar Thermal implementation and incentives in California for discussion.

## **FISCAL IMPACT**

None.

## **BACKGROUND/DISCUSSION**

On January 12, 2006, the California Public Utilities Commission (CPUC) launched the California Solar Initiative (CSI), a 10-year, \$2.9 billion program designed to help California move renewable sources of energy for the future and to help bring the costs of solar electricity down for California consumers. The program's goal of the program was to increase the amount of installed solar capacity on rooftops in the state by 3,000 MW by 2017 and the rules for participation in the program were written into a document called the California Solar Initiative Program Handbook.

On December 20, 2007, the CPUC introduces eligibility for non-photovoltaic (PV) technologies to participate in the California Solar Initiative incentive program, and approved revisions to the California Solar Initiative Program Handbook that establish eligibility, estimation, measurement, and metering requirements for non-PV solar projects.

This new program of the CSI is widely known as Solar Thermal and mainly consists of solar water heating for domestic water use, or using the heated water for space heating.

On Oct. 11, 2010, the CPUC announced that cash rebates of up to \$500,000 are available for the installation of solar water heating systems on multi-family residences, businesses, and industrial facilities, adding a commercial element to Solar Thermal in California. Information and data of the program and outcomes of the California Solar Initiative can be found at the following website: <http://www.gosolarcalifornia.ca.gov/>. To date, the CSI has funded approximately

246,000 project, equaling 2,365 Megawatts installed. Over the CSI timeline, the cost per kiloWatt-hour has dropped from about \$10 to \$5. Statistics for the program can be found at the following website: <http://californiasolarstatistics.ca.gov/>.

Brian Bishop, Senior Program Manager with PG&E will make a presentation on implementing Solar Thermal, the kinds of sites and uses that are good candidates for the technology, and incentives through December 2017.

### **ATTACHMENT**

None.

# C/CAG AGENDA REPORT

**Date:** March 18, 2015  
**To:** Resource Management and Climate Protection Committee  
**From:** Andree Johnson, BAWSCA, Committee Staff  
**Subject:** Update on Water Supply and Conservation Efforts in San Mateo County

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

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## **RECOMMENDATION**

Receive an update on current water supply and water conservation efforts in San Mateo County for discussion.

## **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 conditions, monthly, to the RCMP Committee. The most recent update was at the January 2014 meeting. BAWSCA staff will provide an update again at this meeting on the current water supply outlook, conservation outreach, and other topics, especially in light of the recent lack of rain so far this year.

## **ATTACHMENTS**

None