

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

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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, August 21, 2019

Time: 2:00 p.m. 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 May 15, 2019 RMCP Committee meeting
(Kim Springer – Committee Staff) Action
4. Update on San Mateo County Energy and Water Strategy 2025 project
(John Allan – Committee Staff) Information/ Discussion
5. Presentation on HomeIntel residential energy efficiency program
(Lisa Schmidt – President – Home Energy Analytics)
Information/ Discussion
6. Presentation on OhmConnect community demand response program
(Lillian Mirviss Government Affairs Manager - OhmConnect)
Information/ Discussion
7. Update on countywide Reach Code adoption effort
(Kim Springer – Committee Staff) Information
8. Presentation on San Mateo Plain Groundwater Basin water elevation monitoring project
(Kim Springer – Committee Staff) Information/ Discussion
9. Committee Member Updates
10. Next Meeting Date: September 18, 2019

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PUBLIC RECORDS: Public records that relate to any item on the open session agenda for a regular Board meeting, standing committee meeting, or special meeting are available for public inspection. Those public records that are distributed less than 72 hours prior to a regular Board meeting are available for public inspection at the same time they are distributed to all members, or a majority of the members, of the Board. The Board has designated the City/County Association of Governments of San Mateo County (C/CAG), located at 555 County Center, 5th Floor, Redwood City, CA 94063, for the purpose of making public records available for inspection. Such public records are also available on C/CAG's website at: <http://www.ccag.ca.gov>.

PUBLIC PARTICIPATION: Public comment is limited to two minutes per speaker. Persons with disabilities who require auxiliary aids or services in attending and participating in this meeting should contact Mima Guilles at (650) 599-1406, five working days prior to the meeting date.

If you have any questions about this agenda, please contact C/CAG staff:

Executive Director: Sandy Wong (650) 599-1409

RMCP Committee Staff: Kim Springer (650) 599-1412

C/CAG Resource Management and Climate Protection Committee
5/15/19
Meeting Minutes

In Attendance:

Bill Chiang, PG&E *
Maryann Moise Derwin, Committee Chair, Mayor Portola Valley*
Rick DeGolia, Town of Atherton*
Donna Colson, Mayor, City of Burlingame*
Drew Combs, Councilmember, Menlo Park*
Janet Borgens, Councilmember, Redwood City*
Adrienne Carr, BAWSCA*
Diane Papan, Councilmember, San Mateo*
Carol Steinfeld, San Mateo Resident
Drew, Mid-Peninsula Resident
Doug Silverstein, Burlingame Resident
Kim Springer, County Office of Sustainability
John Allan, County Office of Sustainability

Not in Attendance:

Don Horsley, County Supervisor*
Ortensia Lopez, El Concilio*

1. Introductions
2. Public Comment
 - a. Doug Silverstein– Thanked the committee for their work, offered observation of notable news related to climate crisis including the Climate Strike in February, an Extinction Rebellion and the Green New Deal. Silverstein suggested that Elected officials can be bolder, and the public can push harder on climate issues. Silverstein further noted that he is starting a cross sectional group to bring governments, public and nonprofits together.
 - b. Carol Steinfeld– Noted that she has 3 books on wastewater source separation and attends water coordination meetings. Steinfeld told the committee that the County needs a democratic body looking at best practices for water security and supply. This will help everyone and will bring more people together.
3. Approval of Minutes
 - a. Minutes of multiple meetings in the agenda packet were considered together
 - Adrienne Carr motioned for approval
 - Second by Rick DeGolia
 - None opposed – minutes approved.
4. Election of Chair and/or Co-Chair
 - a. Chair Nominations
 - Maryanne Moise Derwin nominated by Diane Papan, Second by Janet Borgens
 - No other nominations
 - Approved

b. Vice Chair Nominations

- Adrienne Carr nominated by Rick DeGolia, Second by Bill Chiang
- No other nominations
- Approved

5. Review and Approval of RMCP Committee meeting dates

Discussion: August meeting and school start dates and July. Dates will be reviewed and changed at a later meeting

a. Vote to approve meeting dates

Committee noted error on December date. Staff will change to December 18th.

- Motion to approve by Bill Chiang, Second by Janet Borgens
- Approved

6. Recruitment for RMCP Committee seats

Update from Kim Springer on 3 vacant seats to be filled by a non-profit seat, an environmental seat, and a large business seat. Springer referenced a recruitment letter that was sent out by C/CAG and urged committee members to share the letter.

Discussion of large business seat concluded that the seat can be occupied by a chamber of commerce as well.

7. Discussion on equity and opportunity in San Mateo County

This item is a result of committee feedback on Energy and Water Strategy 2025 Update. The feedback focused on equity considerations in San Mateo County as related to energy and water. Committee member Ortensia Lopez was unable to attend but Springer facilitated the conversation in her place. Springer put together a list of topics related to equity that can be points of discussion for the committee. These topics are currently being integrated into the Energy and Water Strategy

Does the committee have interest in reviewing any of these topics further?

- Papan– PCE is currently working on equity issues as well.
- Donna Colson – Burlingame is partnering with PCE and Peninsula Family Services to offer used EV loans to low-income families
- DeGolia– PCE has been slow to rollout programs while building up reserve to ensure financial stability. With \$125M in bank by end of quarter, there will be a renewed focus on
- Transportation is a strong focus initially – 110 EVs sold through pilot programs
- Infrastructure – 3,600 charging stations at \$14 million
- Chiang – PG&E has CARE program but also has program for non-profit organizations (residential focus and provide meals)
- Borgens – Are there opportunities to train people
- Donna – PCE is working with IBEW and electrical union on a 1,400-acre solar project in Los Banos which includes a labor agreement

- Chiang - We have programs that don't require college degrees. Power Pathways programs exists in San Mateo County. Problem is we lose labor force due to higher cost of living locally. They can make the same wage in an area with a lower cost of living. There just aren't enough people
- Springer – Office of sustainability does resource conservation training in jails. Focused on water conservation, smart meters, drip systems.
 - Most programs are benefitting low-income families
 - There are many programs going on, there may be more opportunities, is there something we should focus on?
- Papan – Standard of living, demand response programs and load shaving
- Kim this has a crossover on energy efficiency and cost savings
- Rick will connect Kim Springer with OhmConnect

8. Update on countywide building energy reach code adoption effort

Springer provided an update on the countywide reach code adoption effort led by PCE, SVCE, OOS and consultants. The model language will be released soon, and stakeholder involvement is ongoing. Springer provided an overview of reach code process from a regulatory perspective, described the benefits of reach codes and described the level of support provided by PCE and OOS

Colson – Would like to encourage all committee members to talk to their staff to make sure they're applying

- Silverstein - What is the 10k used for?
- Colson - Can be used for anything but is generally covering staff time spent on reach code efforts
- Drew – Reach codes can apply to remodels?
- Springer – Yes, cities can define this but I'm not sure this applies to the cost effectiveness study
- Silverstein - what are the barriers to adoption of a reach code?
- Springer – Cost concerns for developers, this is not important to building officials who are focused on health and safety, developers might go to other places.
- DeGolia – Real savings come from no gas line piped to the curb.
- Borgens – How does solar fit in?
- Springer – Solar requirements will already be in the 2020 code. San Mateo and Brisbane both may have solar reach codes already.
- Silverstein – Reach codes should target natural gas rather than solar because we already have clean electricity through PCE. Gas needs to be phased out in order to achieve 2040 and 2050 GHG reduction targets.
- Colson – New community center to be ZNE but the technology needs to be updated to meet new demands
- DeGolia – Woodside is debating whether to build new solar installation or just buy from PCE
- Chiang – Industry perspective is that they need to have gas for resilience during outages and from a cost perspective

Springer provided an overview of the timeline for reach code adoption and a description of specific reach code pathways.

- Chiang – Need to consider if supply can meet demand with all the new electric buildings coming online
- Colson – When there are no incentives to upgrade existing building stock, people tend to get stuck in their current situation. Some state regulations are rolling back zoning regulations that moved the needle forward
- DeGolia – PCE has focused on transportation and buildings are the second largest. If people can't charge at home, they're far less likely to own an EV. More cities should push back on unintended consequences of state legislation
- Chang – PG&E installed 7600 statewide, there needs to be a consideration of upgrading transformers on poles. This takes time so please work with PG&E

9. Committee member updates

Snowpack is still more than 100% above average. Recent storms will push it up even further. There is a measurable uptick in water consumption. Calaveras dam officially online.

No other committee updates.

10. Next scheduled meeting is June 19th

C/CAG AGENDA REPORT

Date: August 21, 2019
To: Resource Management and Climate Protection Committee
From: Kim Springer, RMCP Committee Staff
Subject: Update on San Mateo County Energy and Water Strategy 2025 project
(For further information contact Kim Springer at 650-599-1412)

RECOMMENDATION

Receive an update and discuss the San Mateo County Energy and Water Strategy 2025 project.

FISCAL IMPACT

Staff time is paid for by funding under the C/CAG – PG&E Local Government Partnership (LGP) agreement and from Congestion Relief Funds for staffing of the RMCP Committee.

BACKGROUND/DISCUSSION

At the February 21, 2018 RMCP Committee meeting, the Committee decided to move forward with an update to the San Mateo County Energy Strategy 2012 document. At the March 21, 2018 RMCP Committee meeting, staff presented a draft workplan and time line for a San Mateo County Energy and Water Strategy 2025 update project. At the April 18, 2018 RMCP Committee meeting, staff presented two documents for review and discussion, a list of Guiding Principles for the project, a comparison of the topics covered in the original Strategy and those proposed for the 2025 version, and a proposed list of participating stakeholders. At the June 27, 2017 RMCP Committee meeting, staff presented the scope of work proposed for consultant DNV GL, who completed a preliminary draft of the San Mateo County Energy and Water 2025 Strategy (Strategy) at the end of CY 2018.

In CY 2019, staff has updated the Strategy with additional language on equity and began circulating the document for comments. Comments have been received and additional comments are expected.

Staff will update the Committee on the draft Strategy, comments received, and next steps towards eventual adoption by Peninsula Clean Energy, the C/CAG Board, the County Board of Supervisors, and government agencies in San Mateo County.

ATTACHMENTS

Link: San Mateo County Energy and Water Strategy 2025 Document: [SMCE&WS 2025 Draft](#)

C/CAG AGENDA REPORT

Date: August 21, 2019
To: Resource Management and Climate Protection Committee
From: Kim Springer, Staff to RMCP Committee
Subject: Presentation on HomeIntel residential energy efficiency program
(For further information contact Kim Springer at 650-599-1412)

RECOMMENDATION

Receive a presentation on HomeIntel residential energy efficiency program.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The RMCP Committee received a presentation in 2015 on a web-based customer engagement software that can be used to evaluate energy smart meter data for homeowners. The software, developed locally by a small company called Home Energy Analytics (HEA), will reveal seasonal and hourly energy use trends, suggest energy efficiency actions, and provide resources to the homeowner.

In August of 2017, HEA launch a new program called HomeIntel. This new program, based on the HEA software, helps residents save energy and money through no- and low-cost actions. HomeIntel is a CPUC-funded 3rd party program and is the first residential “pay-for-performance” energy efficiency program in California.

HomeIntel is free to all residential PG&E, Southern California Edison, and SoCalGas customers. The eligibility requirements are: 12 months of PG&E bills at the same residence and no solar PV installed. Owners and/or renters of residences can participate, and the Smart Audit tool is used to learn about your home's energy profile. Next, the user is provided with Smart Audit recommendations or they may contact an energy coach.

To date, approximately 2,000 homes are participating, with an average of 10% savings in electricity and 12% in gas.

Lisa Schmidt, President of Home Energy Analytics, will provide a presentation to the Committee.

ATTACHMENTS

Link to HomeIntel Program: <https://corp.hea.com/hintel>

C/CAG AGENDA REPORT

Date: August 21, 2019
To: Resource Management and Climate Protection Committee
From: Kim Springer, Staff to RMCP Committee
Subject: Presentation on OhmConnect community demand response program

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

RECOMMENDATION

Receive a presentation on OhmConnect community demand response program.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

At the May 15, 2019 RMCP meeting, the Committee began discussions related to energy, water and equity issues.

Committee member, Rick Degolia suggested that staff learn about a program called OhmConnect, which seeks to curtail energy use at peak periods and pays participants for doing so.

Participants sign up on the OhmConnect website. The program sends alerts to users at grid peak periods and entices them to switch off or unplug unnecessary loads. These alerts occur one to two times per week and reward programs are defined as different types of, what are called, ohm hours. Some programs provided prizes, other provide cash payments. In effect, the program gamifies demand response such that a participant not only saves on energy they are not using at peak periods, but also gets paid for not using energy at peak periods.

Lillian Mirviss, Government Affairs Manager at OhmConnect, will provide a presentation to the Committee.

ATTACHMENTS

Link to OhmConnect Program: <https://www.ohmconnect.com/how-it-works>

C/CAG AGENDA REPORT

Date: August 21, 2019
To: Resource Management and Climate Protection Committee
From: Kim Springer, Staff to RMCP Committee
Subject: Update on countywide Reach Code adoption effort

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

RECOMMENDATION

Receive an update on countywide Reach Code adoption effort.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The RMCP Committee received a presentation at the March 20, 2019 meeting on the countywide effort to support adoption of energy reach codes as part of the regular three-year building code adoption cycle. At the May 15, 2019 meeting, staff provided an update. Jan Pepper, Chief Executive Officer of Peninsula Clean Energy, presented resources provided to cities to the C/CAG Board on June 13, 2019.

New building codes take effect on January 1, 2020, so it's important for cities to adopt the suggested reach codes by the end of September, to allow time for approval by the CEC.

Peninsula Clean Energy, Silicon Valley Clean Energy and the County Office of Sustainability have been working with consultants to provide resources to cities to facilitate adoption of reach codes by cities. The reach code resources include draft code language, no-cost consulting, and an incentive from PCE to adopt reach codes. The reach codes fall under two categories, building electrification and electric vehicle infrastructure.

Staff will provide an update on progress made since the May meeting.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: August 21, 2019
To: Resource Management and Climate Protection Committee
From: Kim Springer, Staff to RMCP Committee
Subject: Presentation on San Mateo Plain Groundwater Basin water elevation monitoring project
(For further information contact Kim Springer at 650-599-1412)

RECOMMENDATION

Receive a presentation on San Mateo Plain Groundwater Basin water elevation monitoring project.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The County of San Mateo completed an assessment of the San Mateo Plain Groundwater Sub basin in July 2018 and is working to establish ongoing water elevation monitoring for the same Basin. The following is a link to the assessment report:

https://www.smcustainability.org/download/energy-water/groundwater/SMP-Groundwater-Basin-Assessment_July-2018.pdf

The County completed a procurement process for establishing monitoring and has contracted with EKI Environment and Water, Inc., the same consultant that completed the Assessment. The consultant work to establish ongoing monitoring includes developing and submitting a California Statewide Groundwater Elevation Monitoring (CASGEM)-compliant plan to the Department of Water Resources (DWR), assessing and identifying wells, setting up the required DWR data portal, and submitting the first two rounds of water level data.

The start date and term for the proposed services is August 1, 2019 through June 30, 2020.

ATTACHMENTS

EKI Environment and Water, Inc. Groundwater Monitoring – Scope of Services

Task 1 – Development of a Draft and Final Groundwater Monitoring Plan

CASGEM monitoring requirements are spelled out in Part 2.11 (commencing with Section 10920) of the California Water Code (CWC) and are summarized in the document entitled *California Statewide Groundwater Elevation Monitoring (CASGEM Program, Procedures for Monitoring Entity Reporting*, dated December 2010, referred to herein as “CASGEM Guidance”.

Initial Notification

EKI will provide the required notification to DWR that the County intends to become a designated CASGEM Monitoring Entity for the Basin. Per the CASGEM Guidance, the notification will include the following:

- County name, County contact name, address, telephone number, email address, and
- other relevant contact information;
- Authority (as listed in Section 10927);
- Name and number of basin to be monitored;
- Map and shapefile of area to be monitored;
- Statement that the entity will comply with the requirements of Water Code Part 2.11;
- Statement describing the ability or qualification of the Monitoring Entity to conduct the
- groundwater monitoring functions required; and
- Additional information deemed necessary by DWR to identify the monitoring area or
- qualifications of the Monitoring Entity.

Per the CASGEM Guidance, if a basin operates under a Groundwater Management Plan (GWMP), the GWMP should be included in the initial notification; it is not, however, a requirement for the basin to operate under a GWMP in order for an entity such as the County to elect to become a CASGEM Monitoring Entity. EKI understands that there is no existing GWMP for the Basin. The City of East Palo Alto does have a GWMP and conducts routine sampling, but its plan and efforts only cover the City’s service area. EKI will communicate with DWR to determine if the recent San Mateo Plain Groundwater Basin Assessment Report (Report) prepared by EKI in 2018 can or should be included in the CASGEM Monitoring Entity notification.

Monitoring Plan Development

Upon submittal of the initial notification to DWR of the County's intent to become the Designated CASGEM Monitoring Entity for the Basin, EKI will prepare the required Monitoring Plan (Plan). Per the CASGEM Guidance, the Plan shall include the required sections on Monitoring Sites and Timing, Field Methods, and Data Reporting. In addition, per the RFQ, the Plan will incorporate information related to: Plan objectives, Basin overview, relationship to other basins, and the key hydrogeologic aspects of the Basin. Much of the information in this portion of the Plan will be taken directly from the Report prepared by EKI in 2018.

As part of this task (and informed by concurrent efforts under Task 2), EKI will identify the wells that could potentially serve as CASGEM monitoring wells and will compile well construction data and other information as required by CASGEM, to the extent available. If construction or other key information is not available, that will be listed as a data gap in the Plan and/or the wells will be included as "voluntary wells". EKI will also work with the County and the various well owners to secure a commitment from the well owners for access and participation in CASGEM. The access agreements that EKI has been part of developing to support SGMA monitoring may be useful as a template should the County choose to enter into formal access agreements with various entities in the Basin.

The Plan will also include the specifics of monitoring plan, including the monitoring cycle and sampling procedures. Again, EKI will leverage prior work we have done with respect to CASGEM compliance and SGMA to develop appropriate monitoring procedures and protocols. This will allow some Basin entities to potentially provide the monitoring data to the County, rather than obligating the County to independently collect that data. For example, this may be the preferred approach for monitoring within the City of East Palo Alto.

The Plan will also identify potential data gaps with respect to the adequacy of the monitoring well network to characterize basin conditions. Given our understanding of the existing well infrastructure in the Basin, it is anticipated that spatial data gaps in the networks will be identified, especially in the northern portion of the Basin.

Facilitate Meetings with County and Well Owners

As part of Plan development, EKI will participate in a set of meetings with well owners and the County to explain the CASGEM program, the County's goals in becoming the designated Monitoring Entity for the Basin, and how the owners' wells would be used as part of the program. For budgeting purposes, we have assumed a total of three (3) such meetings will be held within the Basin, and that the County will be responsible for coordinating, hosting and organizing the meetings.

Plan Finalization

The Draft Plan will be submitted to the County and potentially other Basin stakeholders to review. Comments will be incorporated, and the revised Plan will be submitted to DWR. If DWR provides any comments, EKI will revise the Plan accordingly for final submission.

Task 2 – Assessment of Wells Identified for Monitoring in the Plan

In conjunction with Task 1 work efforts, EKI shall assess the wells identified for potential monitoring in the Plan. Assessment shall include the following:

- Compilation of available well information (e.g., date of construction, well type, well construction information, well owner, etc.);
- A site visit and preliminary well inspection;
- Development of a short description of any modifications to the wells required prior to

monitoring; and

- A description of dedicated well-monitoring equipment potentially necessary or optional for ongoing monitoring, and an estimated cost for modification and equipment.

Once the well network has been finalized, EKI will obtain elevation and locational coordinates in conformance with CASGEM requirements³. As above, in Task 1, missing well information will be noted as a data gap, or the well will be included in the network as a “voluntary well”.

Task 3 – DWR Portal Access, Data Collection and Upload

Consultant shall work with DWR and the County to set up the data upload portal, collect water levels as requested by the well owners for up to two sampling rounds⁴, compile all the data collected by EKI, the County, and/or others, and upload the first two sets of groundwater monitoring data to the CASGEM Portal. Given the timing of this project, it is assumed that monitoring will be conducted in October 2019 and March 2020 and that the data will be uploaded well in advance of the July 2020 CASGEM upload deadline.

Task 4 – Project Management

EKI understands that County staff will serve as EKI’s point of contact and will coordinate all communications and meetings with the other Basin stakeholders, as appropriate. Task 4 includes ongoing coordination and communication with the County. EKI proposes to participate in up to four (4) teleconference meetings with the County and/or the larger CASGEM group, as appropriate. These meetings are anticipated to include: (1) kick-off meeting, (2) one meeting to discuss the draft Plan review; (4) one meeting associated with the first sample event, and (5) one meeting associated with the

second sample event. This task also covers routine communications and administrative project management tasks related to invoicing, schedule updates, etc.

Project Schedule

EKI will initiate performance of the scope of services described above upon receipt of authorization to proceed. Our estimated implementation timeline is shown below. The total duration of the effort is expected to be approximately eight (8) months to one (1) year, with the opportunity to extend.

Project Schedule

TASK	2019					2020		
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Task 1 - Development of a Draft and Final Groundwater Monitoring Plan								
Initial Notification	◆							
Conduct Outreach Meetings	■	■						
Develop Draft Plan	■	■						
Finalize Plan and Submit to DWR			■	■	■			
Task 2 - Assessment of Wells Identified in the Plan								
Assessment (office)	■	■						
Assessment (field)		■	■					
Task 3 - DWR Portal Access, Data Collection and Upload								
DWR Portal Access Setup		■	■					
Data Collection and Upload			■	■				■
Task 4 - Project Management								
Teleconference Meetings	◆	◆	◆				◆	
Administrative Project Management	■	■	■	■	■	■	■	■