

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

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Agenda

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, March 17, 2021

Time: 3:00 p.m.

Location: Remote meeting via Zoom link below

On March 17, 2020, the Governor issued Executive Order N-29-20 suspending certain provisions of the Ralph M. Brown Act in order to allow for local legislative bodies to conduct their meetings telephonically or by other electronic means. Pursuant to the Shelter-in-Place Order issued by the San Mateo County Health Officer on March 16, 2020, the statewide Shelter-in-Place Order issued by the Governor in Executive Order N-33-20 on March 19, 2020, and the CDC's social distancing guidelines, which discourage large public gatherings, C/CAG meetings will be conducted via remote conferencing. Members of the public may observe or participate in the meeting remotely via one of the options below.

Join Zoom Meeting

<https://smcgov.zoom.us/j/93876937608?pwd=MXEwbXg0bXZvM3NNa1pMOCtsWm9Kdz09>

Meeting ID: 938 7693 7608

Passcode: 052082

Find your local number: <https://smcgov.zoom.us/u/adcWb5bktB>

Persons who wish to address the RMCP Committee on an item to be considered at this meeting, or on items not on this agenda, are asked to submit comments in writing to kspringer@smcgov.org by 5:00 PM on Tuesday, March 16, 2021, per the guidelines below.

Emailed public comments should have a subject line of: "RMCP Meeting Comment" and note the specific agenda item on which you are commenting, note that your comment concerns an item that is *not* on the agenda, or note that it is *specific to* an agenda item. Members of the public are limited to one comment per agenda item. The length of the emailed comment should be commensurate with the two minutes customarily allowed for verbal comments, which is approximately 250-300 words. Staff will read the public comments addressing matters on this agenda received before the deadline of 5:00 PM on March 16, 2021 at the time the matter is called. Staff will read the public comments addressing items *not* on this agenda received before the deadline of 5:00 PM on March 16, 2021 during agenda item 2 "Public comments." Comments received after the deadline but before the end of the meeting will be provided to the RMCP Committee after the meeting.

Meeting Agenda

1. Roll Call - Introductions
2. Public Comment
3. Approval of Minutes from February 17, 2021 RMCP Committee meeting.
(Kim Springer – Committee Staff) Action
4. Bay Area Water Supply and Conservation Agency update on current water supply conditions and weather projections for the coming winter season.
(Tom Francis – Committee Member) Information/ Discussion
5. Presentation on the Orange Memorial Park stormwater treatment and reuse project in South San Francisco.
(Rob Dusenbury, Lotus Water) Information/ Discussion
6. Presentation on C/CAG's efforts to advance countywide collaboration on regional-scale stormwater management projects to help address climate resilience, water quality, and water supply.
(Matt Fabry, C/CAG) Information/ Discussion
7. Update on BayREN single-family residential electrification case study project.
(Susan Wright, County OOS) Information/Discussion
8. Committee Member Updates
9. Next Scheduled Meeting Date: April 21, 2021

PUBLIC NOTICING: Due to the impact of the Coronavirus (COVID–19), All notices of C/CAG regular Board meetings, standing committee meetings, and special meetings will be posted at C/CAG’s website at: <http://www.ccag.ca.gov>.

All notices of C/CAG regular Board meetings, standing committee meetings, and special meetings will be posted at the San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA, and on C/CAG’s website at: <http://www.ccag.ca.gov>.

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

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Meeting Minutes

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, February 17, 2021

Time: 3:00 p.m.

In Attendance:

Maryann Moise Derwin, Town of Portola Valley, Committee Chair*

Doug Silverstein, Thrive Alliance, Co-Chair*

Donna Colson, City of Burlingame*

Debbie Ruddock, City of Redwood City*

Tom Francis, BAWSCA*

Christine Kohl-Zaugg, Sustainable San Mateo County*

Diane Papan, City of San Mateo*

Rick DeGolia, Town of Atherton*

Ortensia Lopez, El Concilio*

Sandy Wong, C/CAG

Kim Springer, County OOS

John Allan, County OOS

Susan Wright, County OOS

Alexandria Gallizioli, County OOS

Rafael Reyes, Peninsula Clean Energy

Vicki Sherman, Redwood City Public Works

Veronika Vostinak, City of Half Moon Bay

Tom Kabat, Menlo Park Environmental Quality Commission

Josie Gaillard, Menlo Park Environmental Quality Commission

Carol Steinfeld, Sierra Club Loma Prieta Chapter

Misti Bruceri, Misti Bruceri and Associates

Renaldo Voseliza (sp?)

Not in Attendance:

Bill Chiang, PG&E*

Don Horsley, San Mateo County Supervisor*

Drew Combs, City of Menlo Park*

1. Roll Call - Introductions

2. Public Comment

Public comment from Carol Steinfeld – Propose that the committee discusses water supply diversification and management in response to ongoing drought conditions. We have less water demand management compared to other counties and we're missing out on opportunities. Carol

proposes that this committee focuses on these issues or a new C/CAG committee is formed to address this issue specifically.

3. Action: Approval of Minutes from January 20, 2021 RMCP Committee Meeting (Kim Springer – Committee Staff)

Motion to approve - Donna Colson.
Second by - Debbie Ruddock.
Roll call – All present approve
Motion passes

4. Information: Recruitment of Large Business/Chamber of Commerce Committee Vacancy (Kim Springer – Committee Staff)

Kim Springer announced that recruitment is open for this vacancy and would appreciate if committee members share this opportunity with their contacts. The opportunity is posted on the C/CAG committee and can be found at:

The recruitment is through March 2nd and will continue if not candidate submits a letter of interest in time for the March C/CAG Board meeting.

Colson - What are the targeted business types that we would like to sit on this position?
Springer – seat is business/ chamber of commerce, and larger businesses would fit well

Papan - The biotech sector may be a good opportunity.

Moise Derwin – Where does the announcement letter get distributed?
Springer– Chambers of commerce, PCE, and other city partners.

Ruddock – Does SSMC have members that may be interested?
Kohl-Zaugg – We may have a contact at Facebook.

Colson – We may want to consider the hospitality industry due to their water use. Alternatively, large construction companies based in San Mateo County such as Summerhill may have helpful perspectives on issues that come before this committee.

5. Information: Presentation on the affordability of electrification, including rooftop solar, onsite batteries, and financing (Tom Kabat, Josie Gaillard – Public)

Josie Gaillard, Menlo Park Environmental Quality Commission, provided a presentation on the affordability and challenges of existing building electrification. Vehicles and natural gas combustion make up a significant portion of community GHG emissions and electrification of homes and vehicles can drastically reduce these emissions. Gaillard described key questions guiding affordability such as:

- What does it cost to fully electrify a single-family home?
- Can we make the transition costs affordable enough to pass city ordinances?
- What levers do policy makers and utilities have to achieve affordability?
- What pieces of the puzzle need to be put in place?

The presentation included an overview of the key appliances and systems that can be electrified in a single-family home. Other considerations are rooftop solar and battery backup systems.

Overall, electrifying a home without solar or battery backup can be more expensive for the homeowner than their current electric and gas systems. However, adding just solar can reduce costs significantly below the baseline and adding battery back-up results in additional savings.

Tom Kabat provided a detailed explanation of equipment and cost assumptions for their electrification cost scenarios.

Key findings are that electrification can be cost neutral if financed, paired with solar, is bid competitively and a panel upgrade is avoided. Essentially, solar is so inexpensive that it floats the economics of electrification and adding a battery helps avoid using electricity during the expensive duck curve times.

Looking to the solar boom, we can expect that installation costs will come down, installer training will improve overtime. Streamlining permits can reduce costs, stepping down subsidies by volume creates prompt demand and injects urgency. Finally, financing will make electrification projects more affordable and accessible to lower income customers.

Francis: Can the same contractor do all of this work or is it more likely to be multiple contractors?
Kabat: Likely to be multiple but a general contractor may have subcontractors ready.

Lopez: We should consider how to bring these types of projects to low income residents and communities. Additional variables like roof condition, substandard housing and credit ratings can affect the affordability equation.

Springer: We may want to consider exploring opportunities for renters such as green lease options for those that don't necessarily own their home.

Rafael Reyes: PCE is developing a set of design guidelines for electrification projects which may tie into these efforts well.

6. Information: Presentation on addressing housing, considering trends in reach codes and electrification (Rafael Reyes, Peninsula Clean Energy)

Kim Springer introduced Rafael Reyes, Director of Energy Programs at Peninsula Clean Energy. Rafael began by acknowledging the work of Josie and Tom from the previous presentation and commended Menlo Park for their pioneering efforts on reach codes.

Rafael's presentation started with an overview of PCE and their mission to reduce GHG emissions and provide sustainable energy. Rafael also provided an overview of reach codes, their purpose and the adoption process.

A summary of benefits includes safer and healthier homes, advancing climate goals, enabling greater EV adoption and financial savings for residents.

Multi-family is a new area of focus that has been challenging. PCE has engaged with affordable housing providers to discuss challenges, offer guidance and technical support and participate in workshops. Key issues include contract familiarity, EV charging costs, central hot water, and site conditions.

Rafael described these issues in detail and also provided an overview an innovative new technology: Sewage Heat Capture. This new technology recovers energy from non-potable heated water that flows into the sewer. For example, the residual heat in water from a shower drain or

washing machine can be recovered and offset the energy needed to heat new potable water.

Moise Derwin: What sort of electrification changes are being incorporated into multi-family buildings already?

Reyes: Stoves and space heating are already being incorporated but there is still opportunity around other appliances and electric vehicles.

Colson: Would like to work on equity more and will be working with Ortensia to address these issues.

Francis: Is there concern at all from a grid perspective that we'll be able to support all of this new electric equipment?

Reyes: It's important to recognize that we have issues with all of our distribution grids, both electric and natural gas. Grid improvements need to be made to prevent fire concerns, but all-electric construction and electric vehicles will only increase the overall electric load by a few percentage points.

Carol Steinfeld: Do these electrification opportunities intersect with microgrid potential?

Rafael: Certainly, these can help with microgrids and resilience.

Carol Steinfeld: If a microgrid is established, all of the demand management technologies may help electrification efforts as well.

7. Committee Member Updates

Kohl-Zaugg – SSMC Virtual Happy Hour is on 2/24 and focusing on Racial Justice – White Privilege and Allyship.

Francis – This is still a dry year despite recent rains in January. It's not as bad as before since SFPUC has estimated that they could reach 100% capacity at Hetch Hetchy. SFPUC has not yet decided as to whether they'll be calling for voluntary rationing. Bay Area water agencies are getting together to review the need for a unified message on drought conservation.

Silverstein - Thrive Alliance is featuring Tom Francis on a Thursday Feb 25th panel. The Story of Water in San Mateo County: Challenges to Equity and Sustainability. Also featuring Silicon Valley Clean Water and Sustainable Pescadero

<https://www.thrivealliance.org/events/the-story-of-water-in-san-mateo-county-challenges-to-equity-and-sustainability>

8. Next Scheduled Meeting Date: **March 17, 2021**

C/CAG AGENDA REPORT

Date: March 17, 2021
To: Resource Management and Climate Protection Committee
From: Tom Francis, BAWSCA, RMCP Committee Member
Subject: Bay Area Water Supply and Conservation Agency update on current water supply conditions and weather projections for the coming winter season
(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive an update from Bay Area Water Supply and Conservation Agency update on current water supply conditions and weather projections for the winter season.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The Bay Area Water Supply and Conservation Agency (BAWSCA), which represents the 26 wholesale customers of the San Francisco Regional Water System, has been provided an update by the SFPUC regarding their current supply conditions as well as weather projections for the forthcoming month. BAWSCA will be sharing that information with the RMCP Committee.

BAWSCA staff who've served on the RCMP provide regular updates regarding their work and current efforts. Tom Francis last presented to the RMCP Committee on January 20, 2021, on Urban Water Management Plans and alternative water supply projects currently in planning with the SFPUC This update on supply conditions and weather projects will also be provided by Tom Francis.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: March 17, 2021
To: Resource Management and Climate Protection Committee
From: Robert Dusenbury, Principal – Lotus Water
Subject: Presentation on the Orange Memorial Park stormwater treatment and reuse project in South San Francisco.

(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive a presentation on the Orange Memorial Park stormwater treatment and reuse project in South San Francisco.

FISCAL IMPACT

None.

BACKGROUND/DISCUSSION

RMCP Committee members and other meeting attendees have suggested that the Committee include information and discussion opportunities related to alternative sources of water and water conservation in San Mateo County.

C/CAG and County staff have coordinated on regional stormwater capture projects in San Mateo County. Stormwater capture projects, depending on site conditions and project design, can be a source of treated water supply for parks or even infiltration into the groundwater table. One such project is the Orange Memorial Park Water Capture Project.

Colma Creek, which runs through Orange Memorial Park drains over 6,500 acres of land from six different municipalities, including the City of South San Francisco. This regional stormwater capture project in Orange Memorial Park, the first of its kind in Northern California, diverts all dry-weather flow and the “first flush” of urban stormwater runoff from Colma Creek into an underground system within the park. Overall, 200 million gallons of water, or 15 percent of the annual flow in Colma Creek, passes through the system for treatment and beneficial use. Once water is diverted into the park, the system treats the water to remove trash, debris, sediment, and other pollutants.

The primary objectives of the project are to reduce discharges of PCBs, mercury, and trash to San Francisco Bay. Additional goals are to utilize captured and treated water for beneficial uses such as irrigation and infiltration, and to alleviate localized flooding in the lower reaches of Colma Creek.

Robert Dusenbury, Principal at Lotus Water, who has been working with the City of South San Francisco since the start of the project, providing design and additional management and outreach services to help engage different stakeholders and move this project forward, will provide a presentation to the RMCP committee on this project. A link to the Lotus Water website for this project is provided as an attachment to this staff report.

ATTACHMENTS

Link to Lotus Water – Orange Memorial Park Website: <https://www.lotuswater.com/orange-memorial-park-water-capture>

C/CAG AGENDA REPORT

Date: March 17, 2021
To: Resource Management and Climate Protection Committee
From: Matt Fabry, C/CAG Stormwater Program Manager
Subject: Presentation on C/CAG's efforts to advance countywide collaboration on regional-scale stormwater management projects to help address climate resilience, water quality, and water supply.

(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive a presentation on C/CAG's efforts to advance countywide collaboration on regional-scale stormwater management projects to help address climate resilience, water quality, and water supply.

FISCAL IMPACT

None.

BACKGROUND/DISCUSSION

In 2020, thanks to the support of Assembly Member Mullin and his staff, C/CAG received a State budget allocation to advance multi-benefit regional stormwater capture opportunities in San Mateo County. The budget allocation (\$2.94 million after deducting State grant administration costs) is administered by the California Natural Resources Agency (CNRA).

Upon recommendation by the C/CAG Stormwater Committee, the bulk of the funds (\$2.74 million) were allocated to three new regional-scale stormwater capture projects for design and environmental review. The three projects are at Twin Pines Park in Belmont, Red Morton Park in Redwood City, and the I-280/I-380 interchange in San Bruno.

The remainder of the funds (\$200k) are being used by C/CAG in collaboration with the County of San Mateo to develop a “business case” and framework for countywide collaboration on regional-scale stormwater management as well as to develop the next generation of prioritized project opportunity locations and five new regional-scale project concepts. As presented in the previous agenda item, these projects can help provide resilience to flooding (existing and potential future with climate change), improve water quality, and augment water supplies.

Matt Fabry, Manager, San Mateo Countywide Water Pollution Prevention Program, will provide a presentation describing these regional stormwater efforts and the business case for multi-jurisdictional, multi-benefit, regional stormwater pollution prevention and management.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: March 17, 2021
To: Resource Management and Climate Protection Committee
From: Susan Wright, County Office of Sustainability
Subject: Update on BayREN single-family residential electrification case study project.

(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive an update on BayREN single-family residential electrification case study project.

FISCAL IMPACT

None. Funding has been provided by ABAG for this project, to the County Office of Sustainability.

BACKGROUND/DISCUSSION

The Bay Area Regional Energy Network (BayREN) is a collaboration of the nine counties in the San Francisco Bay Area. The program is led by the Association of Bay Area Governments (ABAG) and provides regional-scale energy efficiency programs, services, and resources. BayREN is funded by utility ratepayer funds through the California Public Utilities Commission, as well as other sources.

The County Office of Sustainability contracts with ABAG for BayREN programs in San Mateo County. The Program is contracted through the current program cycle, calendar years 2020 - 2022. The BayREN program has many sub-programs being delivered in San Mateo County, including: single family, residential green labeling, multifamily, water/energy nexus, commercial, and codes and standards.

At the January 20, 2021 RMCP Committee meeting, staff reported on a project to develop single-family home electrification case studies. The case studies evaluate the challenges, opportunities, and costs of individual electrification elements (heat pump water heater, electric dryer, etc.) as well as those for adding solar, battery storage, and electric vehicle charging. At the January Committee meeting, committee members provided input on the selection criteria to be used for selecting up to 10 homes for the case studies.

Since the January meeting, staff has developed a structure for the project, and an RFQ for identifying a lead consultant and contractors to provide the assistance to the selected homeowners and cost quotes and other information for the case studies.

Susan Wright, County Office of Sustainability, will update the committee on the structure of the contracting and the RFQ for this project.

ATTACHMENTS

None.