

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, June 17, 2020

Time: 2:00 p.m. to 4:00 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://us02web.zoom.us/j/81530781148?pwd=VVM5dW1ZQmNCcy8ycWlXVFZ2Sm5wUT09>

Meeting ID: 815 3078 1148

Password: 358593

Find your local number: <https://us02web.zoom.us/u/kcnqCBGsMC>

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 4:00 PM on Tuesday, June 16, 2020, per the guidelines below.

Emailed public comments should 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 4:00 PM on June 16, 2020 at the time the matter is called. Staff will read the public comments addressing items not on this agenda received before the deadline of 4:00 PM on June 16, 2020 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.

Agenda Items

1. Roll Call - Introductions
2. Public Comment
3. Approval of Minutes from May 20, 2020 RMCP Committee meeting
(Kim Springer – Committee Staff) Action
4. Approval to shift RMCP Committee meeting time from 2:00-4:00 to 3:00-5:00 on same week and day of the month
(Kim Springer – Committee Staff) Action
5. Presentation on results of BAWSCA Annual Survey
(Tom Francis - BAWSCA) Information/ Discussion
6. Presentation on emissions from natural gas use not accounted for on typical emission inventories
(Blake Herrschaft – DNV GL) Information/ Discussion
7. Presentation on community resiliency needs and solutions with increased heat during shelter in place
(Belen Seara – County Health Staff) Information/ Discussion
8. Committee Member Updates
9. Next Scheduled Meeting Date: July 15, 2020

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

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, May 20, 2020

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

Location: Remote meeting via Zoom

In attendance:

Maryann Moise Derwin, Councilmember, Portola Valley* - Chair

Janet Borgens, Councilmember, Redwood City*

Kristin Jensen, Community Bank of the Bay*

Doug Silverstein, Green County San Mateo* - Vice Chair

Tom Francis, BAWSCA*

Diane Papan, Councilmember, San Mateo*

Christine Zaugg, Sustainable San Mateo County*

Donna Colson, Mayor, Burlingame*

Rick DeGolia, Councilmember, Atherton*

Kim Springer, County OOS

Sandy Wong, Executive Director, C/CAG

John Allan, County OOS

Hannah Doress, County OOS

Michael Barber, Supervisor Pine's Office

Jim Eggemeyer, Director, County OOS

John Galloway, SFO

Susan Wright, County OOS

Not in attendance:

Bill Chiang, PG&E*

Ortensia Lopez, El Concilio*

Don Horsley, Supervisor, County of San Mateo*

Drew Combs, Councilmember, Menlo Park*

1. Introductions

Introductions of members and new committee member, Kristin Jensen

2. Public Comment

None emailed prior to meeting or made remotely

3. Approval of Minutes from February 19, 2020 RMCP Committee meeting

(Kim Springer – Committee Staff) Action

Motion to approve: Diane Papan

Second: Donna Colson

Roll Call: All approve*

*RickDeGolia not present at time of vote

4. Election of RMCP Committee Co-Chair

(Kim Springer – Committee Staff) Action

Doug Silverstein nominates self

Second: Donna Colson

Roll call: All approve

5. Update from Bay Area Water Supply and Conservation Agency

(Tom Francis - BAWSCA) Information/ Discussion

Tom provided an update on water supply conditions based on information made available by SFPUC and also provided info on BAWSCA and SFPUC operation in response to COVID-19.

To date, reservoir capacity in Tuolumne System is around 90% full. Local reservoirs are around 80% full. This puts San Mateo County in a good position to deal with future dry conditions. This situation is similar statewide. Precipitation for WY20 is low so far and not predicted to increase but water from prior years remains in reservoirs so we are not in drought condition. Snowpack is also much lower than average.

Water deliveries are unaffected by SIP orders. Field crews and staff continue to work and are practicing social distancing. Treatment plants remain isolated and are only allowing staff inside. Office staff are working remotely. BAWSCA continues to be fully operational and is working remotely. Some programs including school programs and contractor trainings have been adjusted for remote learning options. Board Meetings and committees have moved to a zoom format.

- **Doug Silverstein** – What is the split between residential and commercial water use? What are the biggest uses?
 - Tom Francis – Residential is the largest use in San Mateo County. Most large commercial users are fairly innovative with conservation, but I can follow up with additional data
- **Silverstein** – Is data on water conservation projects available?
 - Francis – We look at water use on a broader scale, but you may want to work with local cities for this data

6. Presentation on Equity Tools and Resources for Climate-related Programs

(Kim Springer – Committee Staff) Information/ Discussion

Susan Wright provided an overview of how equity is defined and placed it in the context of sustainability programs. Susan highlighted some of the challenges facing equity programs such as income verification or geographic selection to identify customers with need. A number of existing tools such as CalEnviroScreen, the California Energy Commission's Energy Equity Indicators or Department of Water Resources DAC Mapping Tool.

Hannah Doress introduced the San Mateo County Community Vulnerability Index (CVI), an initiative of the County Manager's Office that uses seven indicators of vulnerability mapped at the census tract level and provides a much clearer picture of need compared to statewide tools. Other local tools include the SF Bay Restoration Authority income map and the ABAG Community Vulnerability Indicators.

Climate Ready San Mateo County is putting together a viewer (currently in beta version) which will display CVI and ABAG data alongside climate risks and related data. Hannah walked through a demo of the viewer and showed its utility in identifying community need.

Additional resources in San Mateo County include the Youth Need Index and the SMC All Together Portal.

Discussion:

- **Springer** - Which tools and resources are directly relevant to the RMCP committee?
- **Donna Colson** - Provided an overview of Burlingame Cares which is offering support to low-income families. They leveraged PCE and School District programs to identify customers
- **Christine Zaugg** - Working with community groups such as churches should also be a way to identify individuals in need.

- **Silverstein** - Transportation costs are another challenge. EV prices are going down significantly and our programs around these should include consideration of trip length
- **Francis** - From a water perspective, a big challenge is who represents specific community areas (East Palo Alto makes this easy but other neighborhoods aren't as organized). With COVID-19, there's another issue of access to and knowledge of video conferencing technology. Income-basis is also tough with the high cost of living here in the bay area.
- **Janet Borgens** - Internet accessibility is also an equity issue that should be addressed.

7. Presentation on Convergence of Regional Efforts on Existing Building Electrification

(Susan Wright – County OOS Staff) Information/ Discussion

Susan Wright provided an overview of electrification efforts around the County and how Office of Sustainability efforts are converging with state and regional efforts. Currently the focus is on individual appliances but we need to look towards whole-home retrofits to get to zero net carbon. Harvest Thermal is an example of an innovative company that is looking at electrifying multiple appliances at once. In addition, there needs to be a stronger workforce around electrification which will include support from vendors and real estate agents to promote the benefits of electrification.

There are already a number of resources available such as the Fossil Free Buildings Campaign, City of Palo Alto Home Electrification Readiness Assessment and HomeIntel. Data will be important in order to identify the ideal customers for electrification upgrades. Moving beyond individual homes, there are programs and pilots that are looking at transforming entire blocks at once. The scale of impact can be larger but also requires significant coordination and buy-in.

Funding is ramping up around electrification. Grants opportunities are widely available, BayREN and BAAQMD are providing \$1,000 incentives for heat pump hot water heaters and Peninsula Clean Energy is actively working on new programs to incentivize electrification

- **Silverstein** - Stoves shouldn't be a focus, we need to focus on the highest use of gas in homes such as water and air heating. Harvest Thermal seems like a good solution since they package the equipment nicely.
- **Colson** - We need to focus on informing the building community. Stoves and fireplaces are things that people don't want to give up but that shouldn't hold up progress on other appliances.
- **Francis** - There's an innovative company called Span that is focused on smart panel upgrades which is very sleek.
- **Colson** - The workforce problem is huge and unions have been largely resistant. Non-unionized tradespeople from the central valley are being trained on these technologies and we need to work with them to promote these technologies.

8. Committee Member Updates

No updates

Chat Log:

From Doug Silverstein to Everyone: 02:36 PM

Tom - Do you know 2019 water use (or typical year) in SMC by % residential v % commercial. and what are top uses in commercial (i.e. mfg vs landscape vs indoor operations)

From Doug Silverstein to Everyone: 02:42 PM

thanks tom

From Christine Kohl-Zaugg to Everyone: 02:42 PM

Great presentation, thanks!

From Donna Colson to Everyone: 03:15 PM

Libraries are another great way to do the block by block or individual identification.

From Doug Silverstein to Everyone: 03:47 PM

Susan - please provide more info on harvest thermal as you get it. their website is bare

I want to see the Tesla or Nissan Leaf of home space & water heat/cooling. smart, connected, elegant. if this is well marketed, I think it will succeed in higher end markets.

From Tom Francis to Everyone: 03:47 PM

Just in case you were not aware, there is a new company that was started by a former Tesla employee called "Span", that is focused on the development and production of a new "smart panel" to replace the technology for electric panels in homes ... this may be a technology breakthrough that homeowners in the future are interested in

From Donna Colson to Everyone: 03:48 PM

Agree Janet about the gas lines taken up. That is a very difficult conversation. I do love this idea of neighborhood conversion - it is really a sensible and collaborative concept.

From Doug Silverstein to Everyone: 03:52 PM

Span looks great too.

From Kristin Jensen to Everyone: 03:53 PM

Would restaurants also electrify? How would chefs deal with this? If chefs were on board it might help homeowners adjust.

From Christine Kohl-Zaugg to Everyone: 03:56 PM

An issue is that here we don't really have a concept of apprenticeship, that's an issue, also with ensuring quality work, etc. - is there even a chance this concept might be discussed?

From Donna Colson to Everyone: 03:59 PM

Love that - I am trying to figure out a way to do a prototype on a full electric house here in Burlingame. We will see!

C/CAG AGENDA REPORT

Date: June 17, 2020
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Approval to shift RMCP Committee meeting time from 2:00-4:00 to 3:00-5:00 on same week and day of the month

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

RECOMMENDATION

Approve shift of RMCP Committee meeting time from 2:00-4:00 to 3:00-5:00 on same week and day of the month

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The Resource Management and Climate Protection Committee meeting has been held on the third Wednesday of the month from 2:00 p.m. to 4:00 p.m. for many years.

Staff responsible for RMCP Committee meeting have a conflict between the RMCP meeting hours and another department standing monthly meeting. In addition, staff wonders if it would benefit some committee members to shift the meeting an hour later, from 3:00 p.m. to 4:00 p.m.

Staff will propose the meeting time shift to the Committee for consideration and a vote.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: June 17, 2020
To: Resource Management and Climate Protection Committee
From: Tom Francis, BAWSCA
Subject: Presentation on results of BAWSCA Annual Survey

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

RECOMMENDATION

Receive a presentation on results of BAWSCA Annual Survey.

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, continues to work with its member agencies to use water wisely and plan for future water supply reliability.

BAWSCA conducts an annual survey of its member agencies in order to update key BAWSCA service area information, including projections of wholesale customer water demands and population.

This eventual document from the survey includes the following information:

- Current water supply from each source
- Current and projected water purchases from San Francisco Regional Water System
- Projected water supplies and demands
- Consumption by customer class
- Current and projected population
- Per capita water use
- Single family water bills and rate structures

Tom Francis, Water Resources Manager, will provide an update on the recently-completed water survey.

The following is a link to the BAWSCA website: <https://bawasca.org/> and a link to the Survey is provided under Attachments, below.

ATTACHMENTS

Link to Fiscal Year 2018-19 Water Survey:

http://bawasca.org/uploads/userfiles/files/Annual%20Survey%2018-19_FINAL.pdf

ANNUAL SURVEY



March
2020

Fiscal Year 2018-19

BAWASCA
Bay Area Water Supply & Conservation Agency

C/CAG AGENDA REPORT

Date: May 20, 2020
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Belen Seara, County Health Policy staff
Subject: Presentation on emissions from natural gas use not accounted for on typical emission inventories

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

RECOMMENDATION

Receive a presentation on emissions from natural gas use not accounted for on typical emission inventories.

FISCAL IMPACT

None

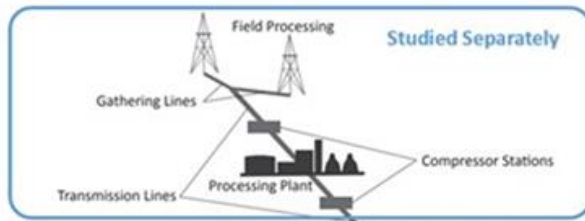
BACKGROUND/DISCUSSION

Major efforts to reduce greenhouse gas (GHG) emissions from transportation and building energy use sources is generally focused on fuel switching. In the transportation sector, transition away from fossil fuels to renewable electric and hydrogen, and deployment of charging a fueling infrastructure for vehicles is underway. Reducing GHG emissions from building energy use is also focused on fuel switching, namely from use of fossil fuels to generate electricity, and electrification of residential and commercial buildings. Tracking GHG emissions through annual community-scale(city) emission inventories is based on a protocol that was developed about a decade ago. The protocol does include emissions from energy use from outside a city for electricity generation, such as burning of natural gas at a power plant. For natural gas used (burned) within a city, only the emissions from the fuel burned in the city are counted. However, there are significant emissions generated along the way, from the source of the natural gas to the build site that are not currently counted in emission inventories.

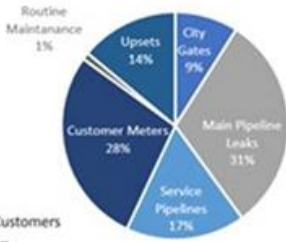
Blake Herrschaft, Building Decarbonization Lead, with DNV GL, will provide a presentation on additional sources of emissions from use of natural gas, and a potential study to quantify those emissions.

ATTACHMENTS

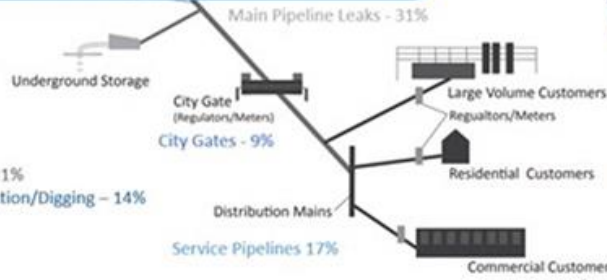
USGHI Distribution Line Illustration



Sources of Distribution Line Leaks per USGHI



- Routine Maintenance - 1%
- Upsets due to Construction/Digging – 14%



Customer Meters – 28%

Source: EPA

Table 3: Sources of Distribution Line Leaks per USGHI

Distribution Segment	Description	Percentage
Metering & Regulating Stations	Custody transfer stations and pressure regulator stations (City Gates)	9%
Main Pipeline Leaks	Distribution pipelines usually 2" to 24" diameter that transport gas from long-distance transmission lines to local service lines	31%
Service Pipeline Leaks	Distribution pipelines usually under 2" diameter that transport gas from mains to end user	17%
Customer Meters	Connection point from service lines to natural gas end use	28%
Routine Maintenance	Maintenance procedures such as venting and pressure releases	1%
Upsets	Leaks due to digging/construction impacts	14%

C/CAG AGENDA REPORT

Date: May 20, 2020
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Belen Seara, County Health Policy staff
Subject: Presentation on community resiliency needs and solutions with increased heat during shelter in place

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

RECOMMENDATION

Receive a presentation on community resiliency needs and solutions with increased heat during shelter in place.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

After just a few hot days in May, during the shelter in place order in San Mateo County, County Health and Office of Sustainability staff began discussing concerns about how these two events may exacerbate community heat-related illness in San Mateo County.

The County's Climate Ready San Mateo County program, Extreme Heat task Force, with participants that include multiple community-based organizations and stakeholders from business, schools, and government, has been working on heat issues since June 2019. Of particular concern are disadvantaged communities with residents that have poorly-insulated homes, no air conditioning, and especially those with existing medical conditions.

Belen Seara, from County Health Policy and Planning, will provide a presentation about the work of the Extreme Heat Task Force, health impacts, and some of the possible approaches to addressing this issue.

ATTACHMENTS

None