

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

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RMCP Committee Meeting Notice

Resource Management and Climate Protection Committee (RMCP)

Meeting Location:

155 Bovet Rd. - Ground Floor Conference Room
San Mateo CA, 94402

Date: Wednesday, May 17, 2023 **Time:** 3:00 p.m.

*****HYBRID MEETING - IN-PERSON AND BY VIDEOCONFERENCE*****

This meeting of the Resource Management and Climate Protection Committee will be held in person and by teleconference pursuant to Government Code Section 54953(e). Members of the public will be able to participate in the meeting remotely via the Zoom platform or in person at the location above. For information regarding how to participate in the meeting, either in person or remotely, please refer to the instructions at the end of the agenda.

Join by Zoom:

<https://us02web.zoom.us/j/81592976513?pwd=cExkVkl6d3N4ZzIBTjViZlJTdzJlZz09>

Meeting ID: **815 9297 6513**

Password: **510953**

Join by Phone:

Call in Number: **(669) 900-6833**

Meeting ID: **815 9297 6513**

Find your local number: <https://us02web.zoom.us/j/81592976513?pwd=cExkVkl6d3N4ZzIBTjViZlJTdzJlZz09>

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 written comments to kspringer@smcgov.org. Spoken public comments will also be accepted during the meeting through Zoom. Please see instructions for written and spoken public comments at the end of this agenda.

AGENDA

1. Roll Call and Introductions
2. Public Comments on items not on the agenda.
3. Approval of minutes of the February 15, 2023 and March 15, 2023 RMCP Committee meetings.
(Kim Springer, Committee Staff) Action
4. Update on Committee roster and recruitment.
(Kim Springer, Committee Staff) Information/Discussion
5. Information only: BAWSCA Water Supply report. No presentation
6. Presentation on Net Energy Metering and the impact on cost and payback of NEM2 verses NEM3.
(Scott D'Ambrosio, Energy Toolbase) Information/Discussion
7. Presentation on the role of the California Independent System Operator and challenges to the grid in the electrification transition.
(Juan Buitrago, CAISO) Information/Discussion
8. Presentation on California's electric grid reliability planning and Bay Area Air Quality Management District Zero NOx rules and electric grid infrastructure impacts.
(Ari Gold-Parker, E3) Information/Discussion
9. Committee Member Updates
10. Next Scheduled Meeting Date: June 21, 2023

PUBLIC NOTICING: All notices of C/CAG regular Board meetings, standing committee meetings, and special meetings will be posted at the San Mateo County Court Yard, 555 County Center, Redwood City, 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>. Please note that C/CAG's office is temporarily closed to the public; please contact Mima Crume at (650) 599-1406 to arrange for inspection of public records.

ADA REQUESTS: Persons with disabilities who require auxiliary aids or services to

participate in this meeting should contact Mima Crume at (650) 599-1406 or mcrume@smcgov.org by 10:00 a.m. prior to the meeting date.

PUBLIC PARTICIPATION DURING HYBRID MEETINGS: During hybrid meetings of the C/CAG Board, members of the public may address the Board as follows:

Written comments should be emailed in advance of the meeting. Please read the following instructions carefully:

1. Your written comment should be emailed to kspringer@smcgov.org with the Subject line "RMCP Meeting Comment".
2. Your email should include the specific agenda item on which you are commenting or note that your comment concerns an item that is not on the agenda.
3. Members of the public are limited to one comment per agenda item.
4. If your emailed comment is received at least 2 hours prior to the meeting, it will be provided to the RMCP Committee members, made publicly available on the C/CAG website along with the agenda. Emails received less than 2 hours before the meeting will be provided to the C/CAG Board members and included in the administrative record of the meeting as soon as practicable.

Spoken comments will be accepted during the meeting in person and through Zoom. Public comments will be taken first by speakers in person followed by via Zoom. Please read the following instructions carefully:

***In-person participation:**

1. If you wish to speak to the Board, please fill out a speaker's slip located on the 2nd floor auditorium side table against the wall. If you have anything that you wish distributed to the Board and included in the official record, please hand it to the C/CAG Clerk who will distribute the information to the Board members and staff.

***Remote participation:**

1. The C/CAG Board meeting may be accessed through Zoom at the online location indicated at the top of this agenda.
2. You may download the Zoom client or connect to the meeting using an internet browser. If using your browser, make sure you are using a current, up-to-date browser: Chrome 30+, Firefox 27+, Microsoft Edge 12+, Safari 7+. Certain functionality may be disabled in older browsers including Internet Explorer.
3. You will be asked to enter an email address and name. We request that you identify yourself by your name as this will be visible online and will be used to notify you that it is your turn to speak.
4. When the C/CAG Clerk or Chair call for the item on which you wish to speak, click on "raise hand." The Clerk will activate and unmute speakers in turn. Speakers will be notified shortly before they are called on to speak. If calling in via phone, press *9 to raise your hand and when called upon press *6 to unmute.
5. When called, please limit your remarks to the time allotted.

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

Executive Director: Sean Charpentier scharpentier@smcgov.org

RMCP Committee Staff: Kim Springer kspringer@smcgov.org

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Draft Meeting Minutes

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, February 15, 2023

Committee Members in Attendance:

Donna Colson – Burlingame (Chair)
Tom Francis – BAWSCA (Vice Chair)
Adam Loraine – San Mateo
Gina Papan – Millbrae
Dave Pine – County of San Mateo
Deborah Ruddock – Half Moon Bay
Sue Beckmeyer – Pacifica
Rick DeGolia - Atherton
Jeff Smith – Sares Regis Group
Alex Fernandez – Filoli
Christine Kohl-Zaugg – Sustainable San Mateo County

Committee Members not in Attendance

Ortensia Lopez - El Concilio
Bill Chiang - PG&E

Additional Attendees

Kim Springer – C/CAG
Sean Charpentier – C/CAG
Amy Dao – BAAQMD
Susan Wright – County OOS
Nicole Sandkula - BAWSCA
Michael Barber – Supervisor Pine Staff
Peter Dreckmeier – Tuolumne River Trust
Charles Schwab – Pacifica Public
Carol Steinfeld – Sierra Club
Drew – Public

Note: All presentations for this meeting have been posted on the C/CAG RMCP Committee website:
<https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/>

Meeting called to order at 3:04 P.M.

1. Brief Overview of Teleconference Meeting Procedures

Committee staff provided a brief overview of teleconference meeting procedures.

2. Roll Call and Introductions

Committee staff completed Roll Call and a quorum of nine Committee members was achieved, allowing voting on agenda action items. Two members joined later in the meeting, after the vote to adopt the January meeting minutes, for a total of eleven Members present.

3. Public Comments on items not on the agenda

There were no public comments.

4. Approval of the minutes of the January 18, 2023 RMCP Committee Meeting

The Committee reviewed the minutes of the January 18, 2023 RMCP Committee meeting for approval by the Committee. No comments were received. A motion was made by member Smith, seconded by member Francis. A roll call vote was taken, (9,0,0). Motion passed.

5. Information on AB 2449 and Hybrid C/CAG Meetings

C/CAG Executive Director, Sean Charpentier, provided a short verbal presentation on the terms of AB 2449 and the requirement to move back to in person meetings beginning in March. The presentation was followed by comments and discussion.

6. Discussion of future meeting topics for the RMCP Committee.

Committee staff opened the discussion by sharing that a list of past and potential topics for meetings in 2023-24 were included in the staff report for discussion. The Committee shared their comments on the meeting topics on the list. Member Papan mentioned Seamless and grade separations. Member Zaugg share interest in nature-based solutions and carbon sequestration. Member Francis mentioned a future report from the Water Reliability Roundtable that would be a good topic for the RMCP as would the scope of work for BAWSCAs Water Supply Reliability 2045 update. Member Ruddock shared her interest in learning more about zoning changes for more nature-based opportunities for resiliency and offshore wind development. Member Pine suggested we continue the discussion on drought. Member Smith mentioned a need for reports from PG&E on their readiness for the electrification transition and the NEM3 transition. Member Fernandez mentioned forest management. Public member Carol Steinfeld shared that Sierra Club has a model water ordinance to present, more emphasis on reducing demand on water supply, and that C/CAG should consider a separate Water Committee. Public member Drew requested a solution to a BAWSCA water update every meeting. Chair Colson and staff suggested some possible options for accomplishing that. Member Loraine mentioned that, for him, decarbonization is top of mind and also commercial building benchmarking.

Staff will record this feedback for planning future meeting topics.

7. Presentation on Bay Area Air Quality Management District's proposed amendments to Building Appliance Rules for residential and small commercial space and water heating.

Amy Dao, Senior Environmental Planner at the Bay Area Air Quality Management District provided a presentation on proposed amendments to current rules aimed at reducing emissions of nitrous oxides (NOx) resulting from the local combustion of natural gas at residential and small

Item 3

commercial sites. The emissions regionally, account for more NO_x than passenger vehicles, and cause disproportionate health issues for BIPOC communities due to population densities. The updated rules, if adopted, would phase in starting in 2024 through 2031 and the BAAQMD Board hearing for adoption in on March 15, 2023. Requirement would be replace on burnout via a point of sale (at the retail level).

There has been a lot of stakeholder input, many concerns and timing and cost of urgent upgrades, as required by potential new rules. BAAQMD plans to hold stakeholder meetings to help resolve issues. Many incentives are available to help offset costs.

Committee members had two main suggestions for the BAAQMD; a strong public information campaign, especially for residential customers to be proactive in terms of planning and making it clear that the rules apply to retailers, such that they can no longer sell gas heating equipment in affected counties. There was a lot of concern that concern will fall on local elected officials. In addition, home warranters need to be informed.

8. Update on residential electrification Case Studies and Real Estate Professionals Listening Session

Susan Wright, Resource Conservation Programs Manager at the County Office of Sustainability, delivered a presentation on early outreach activities related to the Residential Case Studies Project.

Two presentations made to two different stakeholder groups, Real Estate professional, funded by PCE, and to the general public, funded by BayREN. The Committee requested that the materials and the webinar from the meetings be provided to the Committee.

Wright shared the take aways from stakeholders for each of the two meetings and next steps being considered. Committee members and the public provided additional discussion and input.

9. Next Scheduled Meeting Date: March 15, 2023

Meeting adjourned at 5:00 P.M.

Note: All presentations are posted on the C/CAG RMCP Website at:

<https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/>

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Draft Meeting Minutes

Resource Management and Climate Protection Committee (RMCP)

155 Bovet Rd. - Ground Floor Conference Room

San Mateo CA, 94402

Date: Wednesday, March 15, 2023 Time: 3:00 p.m.

*****HYBRID MEETING - IN-PERSON AND BY VIDEOCONFERENCE*****

Committee Members in Attendance:

Donna Colson – Burlingame (Chair)
Tom Francis – BAWSCA (Vice Chair)
Adam Loraine – San Mateo
Gina Papan – Millbrae
Rick DeGolia - Atherton
Jeff Smith – Sares Regis Group

Committee Members not in Attendance

Alex Fernandez – Filoli
Christine Kohl-Zaugg – Sustainable San Mateo County
Dave Pine – County of San Mateo
Deborah Ruddock – Half Moon Bay
Sue Beckmeyer – Pacifica
Ortensia Lopez - El Concilio
Bill Chiang - PG&E

Additional Attendees

Kim Springer – C/CAG
Sean Charpentier – C/CAG
Amy Dao – BAAQMD
Susan Wright – County OOS
Nicole Sandkula - BAWSCA
Michael Barber – Supervisor Pine Staff
Peter Dreckmeier – Tuolumne River Trust
Charles Schwab – Pacifica Public
Carol Steinfeld – Sierra Club
Drew – Public

Note: All presentations for this meeting have been posted on the C/CAG RMCP Committee website:
<https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/>

Meeting was called to order at 3:07 P.M.

1. Roll Call and Introductions

Committee member and staff introduced themselves.

Committee staff completed Roll Call and, with only five members present, a quorum of Committee members was not achieved.

2. Public Comments on items not on the agenda

There were no public comments.

3. Approval of minutes of the February 15, 2023 RMCP Committee meeting.

Without a quorum, the Committee chair moved on to the next item on the agenda. Member Papan noted that neither she nor Member Loraine were listed as present for the February Committee meeting per the minutes. Staff will update.

4. Presentation on California Energy Commission Activities Supporting the Evaluation of Energy Storage and Long Duration Energy Storage to Support California's Zero Carbon Future.

Mike Gravely, Energy Storage Technical led, and the California Energy Commission (CEC), provided a presentation on activities at the Commission supporting the evaluation of energy storage and long-term energy storage to support California's Zero Carbon Future.

The CEC is one of three main agencies involved in California's energy systems and planning for future needs. The CEC has multiple programs related policy and standards, developing innovation in areas such as storage and renewable generation, energy infrastructure, and collaboration with other government actors. The CEC is helping reach the 100% carbon neutral goal in 2045. Renewables alone will not allow the State to achieve that goal 24/7; storage is key.

The CEC runs the state's Energy Program Investment Charge program, funded by the CPUC through 2030 at this time. The CPUC invests approximately \$130M per year from Public Good Charges for this program, run by the CEC. This is a significant source of innovation funding for the State. Energy storage, particularly long-term storage, which the State defines as 8 hours or longer) is a considerable focus. It is estimated that 40-50 gigawatts of storage will be needed by 2045. Currently, there are 5 GWs installed, and the goal is 15 GW by 2032, 1 GW of that being long-term storage. Renewables will also need to multiply by 2045: Solar and Wind need to triple, and Battery Storage needs to grow by eight times. Lithium Ion is currently 99% of the existing storage, it is not long-term storage, and there are many other storage technologies, both chemical, thermal, and mechanical. A challenge of achieving State long-term storage goals is quickly establishing viability, cost effectiveness, financial conditions that entice investment, and reliability.

The Committee asked questions related to expansion of renewables and storage and phasing out of non-renewable generation, other sources of energy, progress on residential battery storage, how to support progress on long-term storage, residential storage, and grid-level storage and how to balance, effect of NEM3, battery fire safety, recycling or repurposing of batteries, vehicle to grid, and the viability of hydrogen storage. Public attendees had questions about time of release of water from dams and how to balance that with needs for river recreation and generation.

5. Presentation by the Hydrogen Fuel Cell Partnership on developments in Hydrogen infrastructure in California and beyond.

Keith Malone with the Hydrogen Fuel Cell Partnership (H2FCP) provided a presentation on developments in the deployment of Hydrogen and Hydrogen vehicles. Keith shared the broad membership of the HFCP, drivers of renewable Hydrogen production, the federal infrastructure reinvestment, Inflation Reduction Act, and other factors influencing development of Hydrogen Hubs in the US, targets for reducing cost of renewable Hydrogen, Hydrogen projects in CA, and developments in vehicles and trucks.

The Committee asked questions related to reliability of water supply for Hydrogen, use of Hydrogen for rail, the H2FCP's take on use of Hydrogen for energy storage, waste conversion technologies, space requirements for H2 fuel tanks and how H2, and cost of infrastructure.

The public commented on work in Palo Alto for waste conversion and Chair Colson mentioned the idea that a lot of the members of H2FCP are, in fact, also oil producers and that if they are helping driving the shift to Hydrogen with their investments, this is something to keep in mind.

6. Bay Area Water Supply and Conservation Agency update on winter storms and water supply and drought conditions in San Mateo County.

Tom Francis, Senior Water Manager at BAWSCA and member of the RMCP Committee, provided a presentation on the storms and supply condition in San Mateo County.

The governor still has not lifted the drought declaration. Large and continuous winter storms and large amounts of snowfall have put the current water year in the record books. Reservoir levels are in pretty good shape and snowpack is at an all-time record for this time of the year. Precipitation forecasts continue into the coming weeks.

In addition, probably due to the rain, water use is considerably down from previous years. Due to operation costs, it's possible water rates could increase.

Committee member asked questions related to how water rate information and education is delivered to customers, and how the storms will recharge the aquifers (groundwater banking).

Public members shared updates from SFPUC meetings and their projection for what these storms mean to water flows in the rivers and wildlife, the need for agencies to all provide hybrid meetings post COVID as C/CAG does, how to raise one's hand by phone, and clarification on the potential need for a rate increase.

Staff asked if a rapid snowpack melt would affect the long-term outlook on water supply. Staff added that California DWR has a groundwater level tracking system, which can show how water levels might change from these storms.

7. Committee Member Updates

There were no Committee member updates.

Next Scheduled Meeting Date: April 19, 2023

Meeting adjourned at 5:13 P.M.

Note: All presentations are posted on the C/CAG RMCP Website at:

<https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/>

C/CAG AGENDA REPORT

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Update on Committee roster and recruitment.
(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

That the RMCP Committee receive an update on Committee roster and recruitment

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

Since the March meeting of the RMCP Committee, two elected official seats have been vacated.

C/CAG is in the process of recruiting committee members for a few of its committees and RMCP Committee members are encouraged to support recruitment of elected officials to the RMCP and other C/CAG Committees. Those interested should submit a letter of interest to C/CAG Executive Director, Sean Charpentier.

An updated roster and the April 17, 2023 recruitment letter are attached to this staff report. Note that the letter only suggests that the RMCP Committee is looking for one elected official. Staff was not aware of the second vacating until after the letter was emailed and posted. It will be updated, emailed to all elected officials countywide, and re-posted.

ATTACHMENTS

1. Update RMCP Committee Roster – April 2023
2. C/CAG Recruitment Letter – April 17, 2023

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Resource Management and Climate Protection Committee (April 2023)	
Elected Officials (7)	
Donna Colson – <u>Committee Chair</u> Councilmember City of Burlingame dcolson@burlingame.org	Sue Beckmeyer Councilmember City of Pacifica sbeckmeyer@pacificagov.org
Rick DeGolia Council Member Town of Atherton rdegolia@ci.atherton.ca.us	Gina Papan Councilmember City of Millbrae gpapan@ci.millbrae.ca.us
Dave Pine County Supervisor District 1 dpine@smcgov.org	Vacant
Vacant	
<u>Stakeholder Representatives (6)</u>	
<u>Energy</u>	Ortensia Lopez Executive Director El Concilio of San Mateo County or10sia@el-concilio.com
<u>Water</u>	Tom Francis – <u>Committee Vice Chair</u> Water Resources Manager Bay Area Water Supply and Conservation Agency tfrancis@bawsca.org

Resource Management and Climate Protection Committee (April 2023)	
<u>Utility</u>	Bill Chiang Government Relations Pacific Gas and Electric Company william.chiang@pge.com
<u>Nonprofit</u>	Alex Fernandez Chief Operating Officer Filoli Center afernandez@filoli.org
<u>Business/Chamber of Commerce</u>	Jeff Smith Director, Residential Development Sares Regis Group, LLC JSmith@srgnc.com
<u>Environmental</u>	Christine Zaugg Executive Director Sustainable San Mateo County christine@sustainablesanmateo.org

<u>RMCP Committee Staff</u>	
<u>C/CAG</u>	Sean Charpentier Executive Director scharpentier@smcgov.org (650) 599-1409
<u>C/CAG</u>	Kim Springer Transportation Systems Coordinator Energy, Water, and Climate kspringer@smcgov.org

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Date: April 17, 2023

To: All Councilmembers of San Mateo County Cities and Members of the Board of Supervisors; All City/County Managers; All City Clerks; All Interested Parties

From: Davina Hurt, C/CAG Chair

Subject: **C/CAG Committee Vacancies**

The City/County Association of Governments of San Mateo County (C/CAG) currently has vacancies on three of its standing Committees:

3 Seats – Congestion Management and Environmental Quality Committee (CMEQ)

- Two (2) seats for Elected Officials of City Councils and/or the San Mateo County Board of Supervisors.
- One (1) seat for Environmental Community Member

1 Seat – Resource Management and Climate Protection Committee (RMCP)

- One (1) seat for Elected Officials of City Councils.

2 Seats – Bicycle and Pedestrian Advisory Committee (BPAC)

- Two (2) seats – one for Elected Official or City Councils and/or the Board of Supervisors, and one for a Member of the Public.

Please see Attachment A for more information on the Committees. Individuals wishing to be considered for appointment to the Committee should email a letter of interest to:

Sean Charpentier, C/CAG Executive Director
City/County Association of Governments of San Mateo County
555 County Center, 5th Floor
Redwood City, CA 94063
scharpentier@smcgov.org

Individuals must send a letter of interest by 5:00 pm on **May 3, 2023** in order for the C/CAG Board to consider the appointments at its May 11, 2023 meeting. If there are fewer letters of interest received by April 30, 2023 than seats vacant on the Committees, the recruitment will remain open until filled. If you have any questions about the Committees or this appointment process, please contact the C/CAG staff member noted in Attachment A: Committee Descriptions and Staff Contacts.

Sincerely,



Davina Hurt
Chair, C/CAG Board

Enclosure: Attachment A: Committee Descriptions and Staff Contacts
Attachment A

The Congestion Management and Environmental Quality Committee (CMEQ) provides advice and recommendations to the full C/CAG Board on all matters relating to transportation planning, congestion management, travel demand management, coordination of land use and transportation planning, mobile source air quality programs, energy resources and conservation, and other environmental issues facing the local jurisdictions in San Mateo County. The role of the CMEQ Committee also includes making recommendations to the C/CAG Board on the allocation of funding for specific projects and activities addressing these programmatic areas. The Committee meets on the last Monday of each month from 3:00 p.m. to 5:00 p.m. at the San Mateo City Hall (330 W 20th Ave, San Mateo CA 94403).

For more information about the Committee and Meeting agendas, contact Jeff Lacap at jlacap@smcgov.org; and/or see: <https://ccag.ca.gov/committees/congestion-management-and-environmental-quality-committee/>

The Resource Management and Climate Protection Committee (RMCP) seats seven elected officials and public representative seats for each of the following six specialties: energy, water, utility, nonprofit, business/chamber of commerce, and environmental organization, for a total of 13 seats. Originally called the Utilities Sustainability Task Force (USTF), it developed a San Mateo County Energy Strategy for the county, which was adopted by every city in San Mateo County in 2009. The RMCP Committee provides information and recommendations to CMEQ and the C/CAG Board on items related to resource conservation and climate action. The Committee also tracks the progress of two main C/CAG programs, the San Mateo County Energy Watch (SMCEW) and the Regionally Integrated Climate Action Planning Suite (RICAPS). The Committee also seeks to integrate equity into resource conservation and climate actions, including workforce development, access by constituents, and inclusion of input by community-based organizations. Most recently, in coordination with BAWSCA, the Committee is exploring actions to reduce demand on potable water supplies, such as One Water programs, and electrification and resilience of homes and communities. The RMCP Committee meets on the third Wednesday of the month (as needed) throughout the year at 3:00 p.m.

For more information about the RMCP Committee and Meeting Agendas, contact Kim Springer at kspringer@smcgov.org; and/or see: <https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/>

The Bicycle and Pedestrian Advisory Committee (BPAC) provides advice and recommendations to the full C/CAG Board of Directors on matters relating to bicycle and pedestrian improvement projects. The BPAC advises the C/CAG Board on priority projects for funding through the Transportation Development Act Article 3 grant program and the One Bay Area Grant program. In the upcoming year alone, the Committee will participate in the selection of up to \$30 Million of active transportation projects in the County.

Meetings are held bi-monthly on the fourth Thursday of the month at 7:00 p.m. Prior to the COVID-19 Crisis, the meetings were held in the San Mateo City Hall. During the COVID-19 Crisis, the meetings have been held over Zoom. The BPAC has approximately six meetings per year. No more than two BPAC members can reside in the same jurisdiction.

For more information about the Committee and Meeting agendas, contact Kaki Cheung at kcheung1@smcgov.org; and/or see <https://ccag.ca.gov/committees/bicycle-and-pedestrian-advisory-committee/>.

C/CAG AGENDA REPORT

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Information only: BAWSCA Water Supply update.
(For further information contact Kim Springer at kspringer@smcgov.org)

BACKGROUND/DISCUSSION

At the February 15, 2023 meeting of the Resource Management and Climate Protection Committee (RMCP), Committee Member Francis was asked to prepare a written water supply update for distribution to the Committee, for months when no formal presentation on water supply conditions is agendized.

The attached report is for information only. There will be no presentation on this item.

ATTACHMENTS

1. BAWSCA Water Supply Update written report – May 2023.

WATER SUPPLY UPDATE

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Tom Francis, BAWSCA, RMCP Committee Member
Subject: Information only: BAWSCA Water Supply report.
(For further information contact Tom Francis of BAWSCA
(tfrancis@bawasca.org)

BACKGROUND

At the February 15, 2023 meeting of the Resource Management and Climate Protection Committee (RMCP), Committee Member Francis was asked to prepare a written water supply update for distribution to the Committee, for months when no formal presentation on water supply conditions is agendized. Information presented in the memos produced would focus on conditions associated with the San Francisco Regional Water System (SF RWS), which serves as the water source for much of San Mateo County. Mr. Francis, and moreover BAWSCA, agreed to producing this update. Graphs included are produced by the San Francisco Public Utilities Commission (SFPUC) and are made available to BAWSCA.

DISCUSSION

The 2022-23 has been exceedingly robust from a rainfall and snowpack perspective, reaching near historic levels. The following graphs presented in this memo document the point that water supply conditions are excellent. Further, rainfall that has taken place throughout the State of California has proved to eliminate drought conditions in much of California.

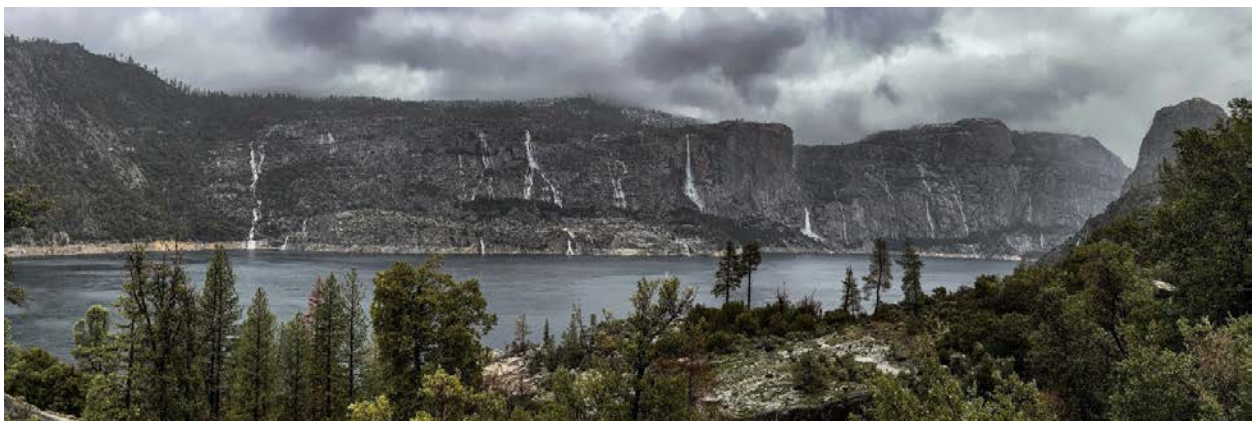


Photo – Hetch Hetchy Reservoir – March 2023 – Note the numerous waterfalls present

SF RWS - Reservoir Storage

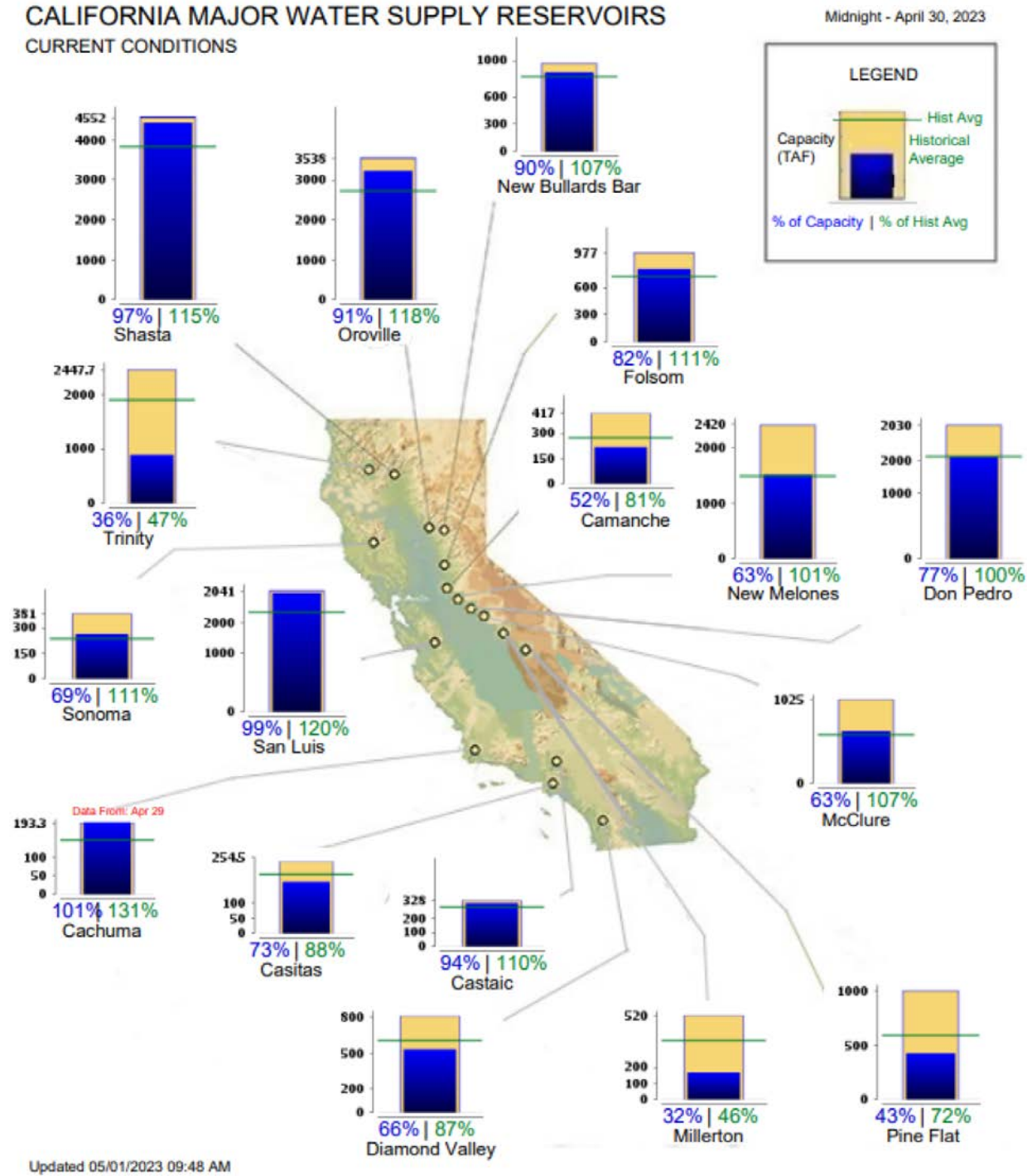
Storage upcountry has been reduced in anticipation of spring snowmelt. Local reservoir storage is ample, yet their respective elevations were established lower than full pool due to flooding concerns downstream. The overall system storage is robust at 83.8%

Reservoir	Current Storage ^{1,2,3} (AF)	Maximum Storage ⁴ (AF)	Available Capacity (AF)	Percent of Maximum Storage	Normal Percent of Maximum Storage ⁵
<u>Tuolumne System</u>					
Hetch Hetchy	241,200	360,360	119,160	66.9%	68.2%
Cherry	176,100	273,345	97,245	64.4%	-
Eleanor	24,910	27,100	2,190	91.9%	-
Water Bank	570,000	570,000	0	100.0%	96.0%
Total Tuolumne Storage	1,012,210	1,230,805	218,595	82.2%	-
<u>Local System</u>					
Calaveras	94,481	96,670	2,189	97.7%	-
San Antonio	53,249	53,266	17	100.0%	-
Crystal Springs	53,829	68,953	15,124	78.1%	-
San Andreas	16,682	18,572	1,890	89.8%	-
Pilarcitos	2,589	3,125	536	82.8%	-
Total Local Storage	220,830	240,586	19,756	91.8%	-
Total System Storage	1,233,040	1,471,391	238,351	83.8%	81.3%
Total without water bank	663,040	901,391	238,351	73.6%	-

SFPUC estimates that the primary upcountry reservoir, Hetch Hetchy, will be at full storage as spring snowmelt will serve to contribute significant flow into the reservoir.

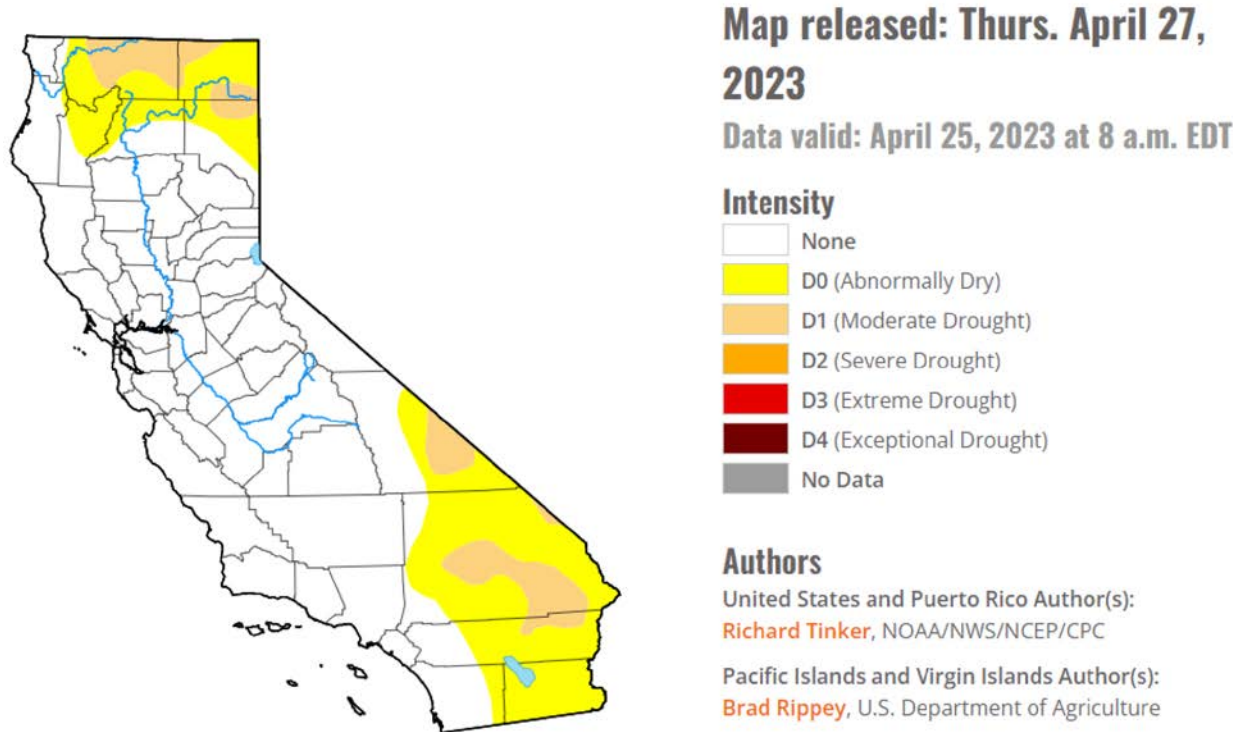
State of California – Major Reservoir Storage

Storage in California’s major water supply reservoirs is robust, with the majority having benefited by this winters exceptional rainfall. As a reminder, while these reservoirs do not serve San Mateo County, they do serve as a water source for much of the State of California. Some of these reservoirs are part of the State of California’s “State Water Project”, while others are part of the U.S. Bureau of Reclamations “Central Valley Project”.



California Drought Conditions Monitor

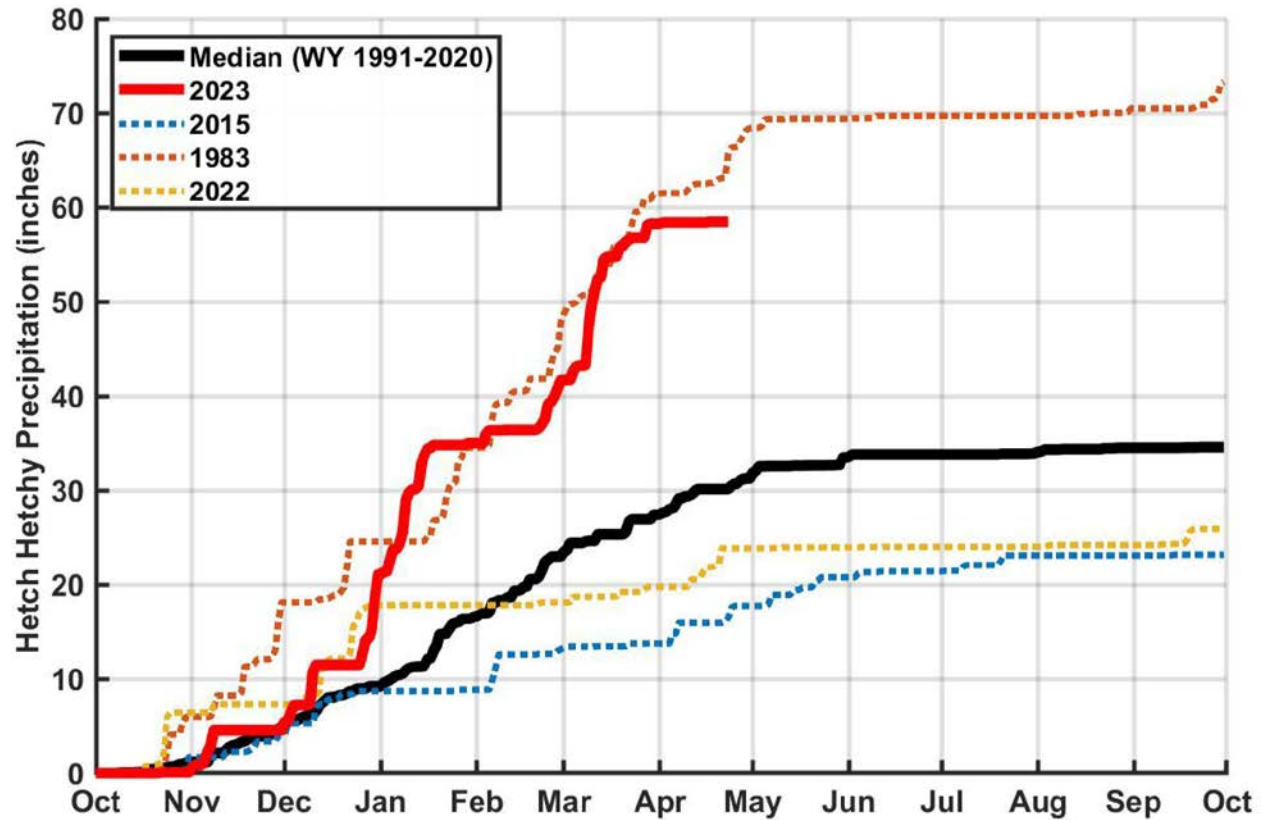
As noted on the graphic below, much of the State of California is no longer shown as being in Drought. Prior to this winter's rainy season (e.g., in early fall of 2022), much of the State was shown as being in either severe or extreme drought. Note that all of the bay area, including San Mateo County, is shown as not experiencing drought conditions.



There remain portions of California that continue to be shown as experiencing drought conditions. Those factor are considered by the State as part of any decisions they choose to make relative to ending the current drought emergency.

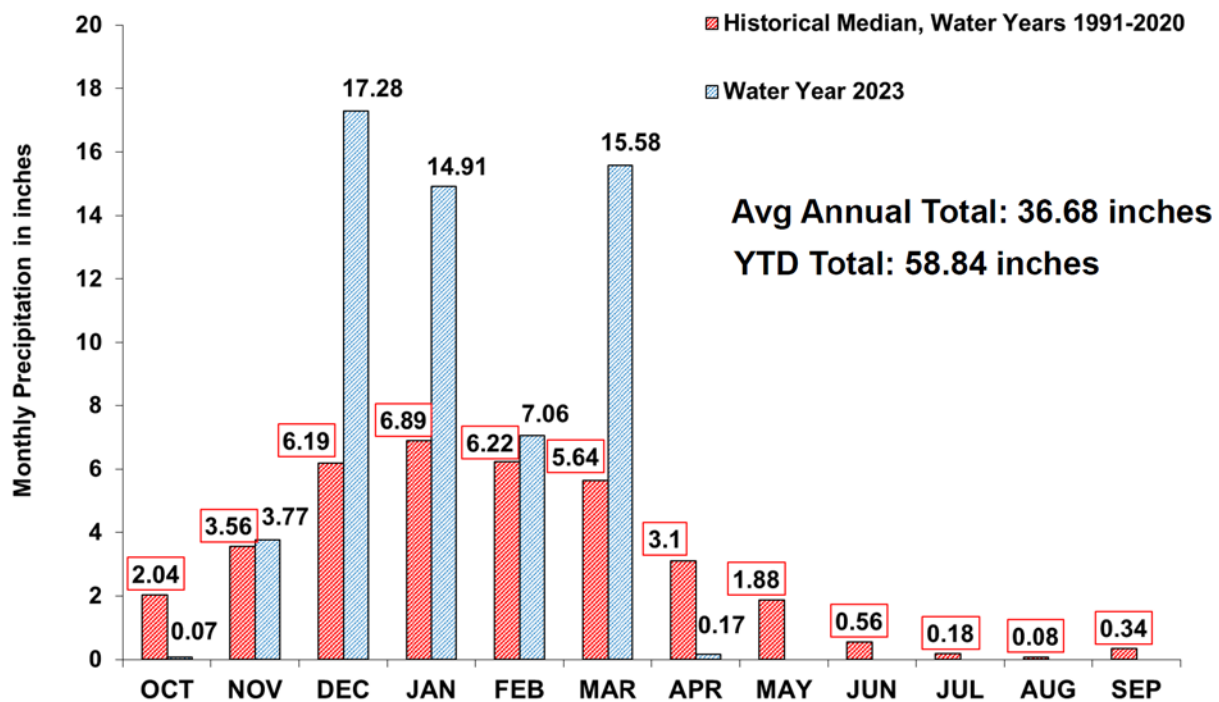
Hetch Hetchy (Upcountry) Precipitation

The precipitation to date is tracking that recorded for water year 1983, the highest observed.



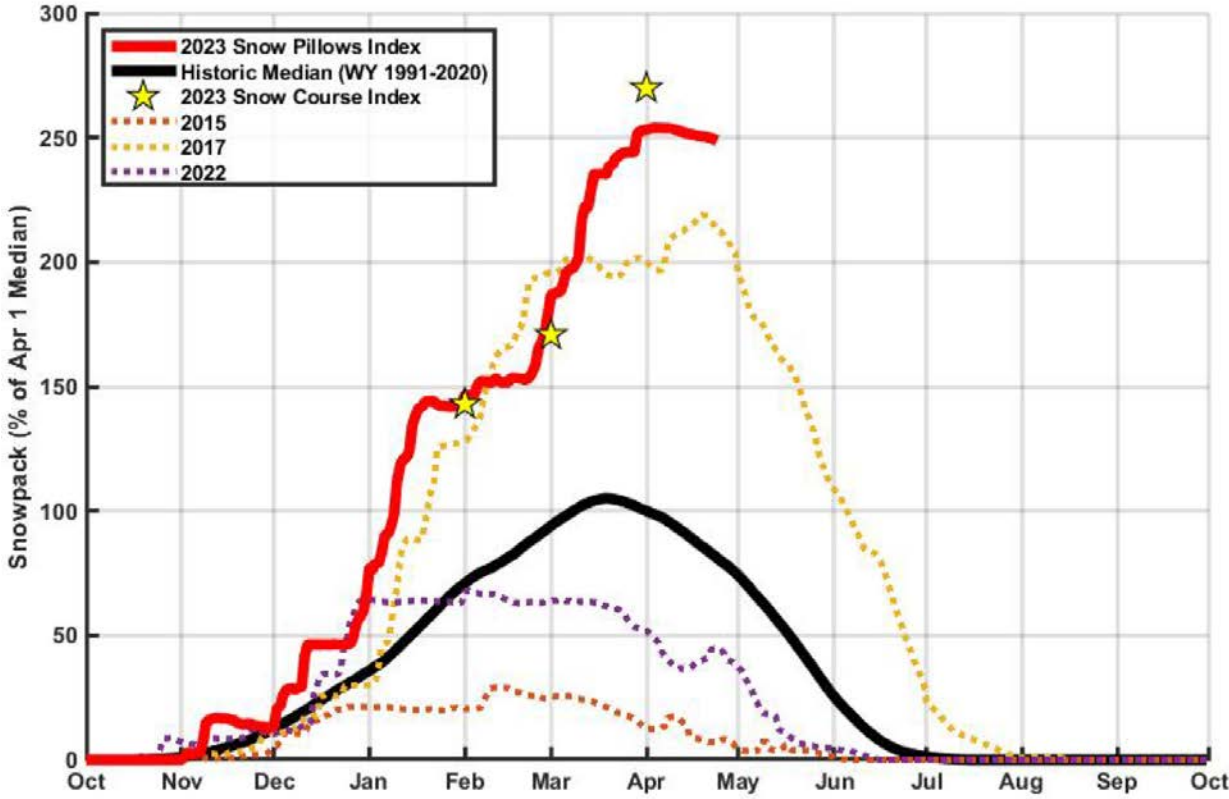
Upcountry Precipitation Totals by Month

On average, the upcountry receives 36.68 inches of precipitation. To date, as of the end of April, 58.71 inches has been recorded.



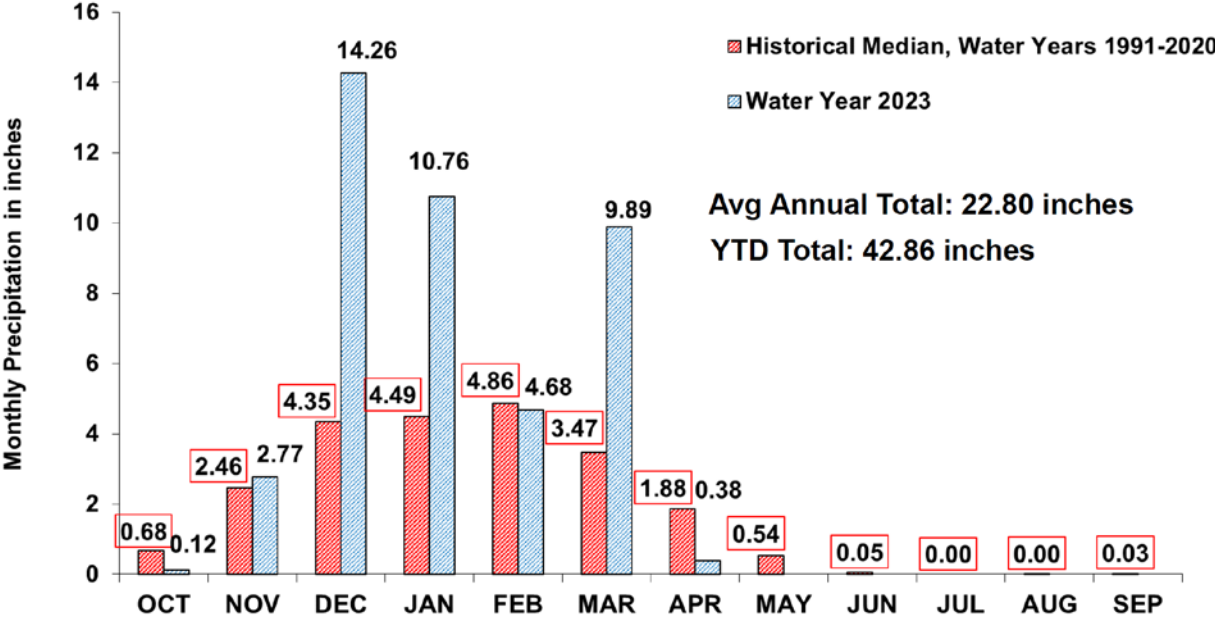
Upcountry Snowpack

Similar to upcountry precipitation, the upcountry snowpack is nearing historic levels.



Local Rainfall – by Month

Local (Bay Area) rainfall has also been robust this winter. On average, the region receives 22.80 inches of rain. This year, as of the end of April, 42.86 inches has been recorded to date.

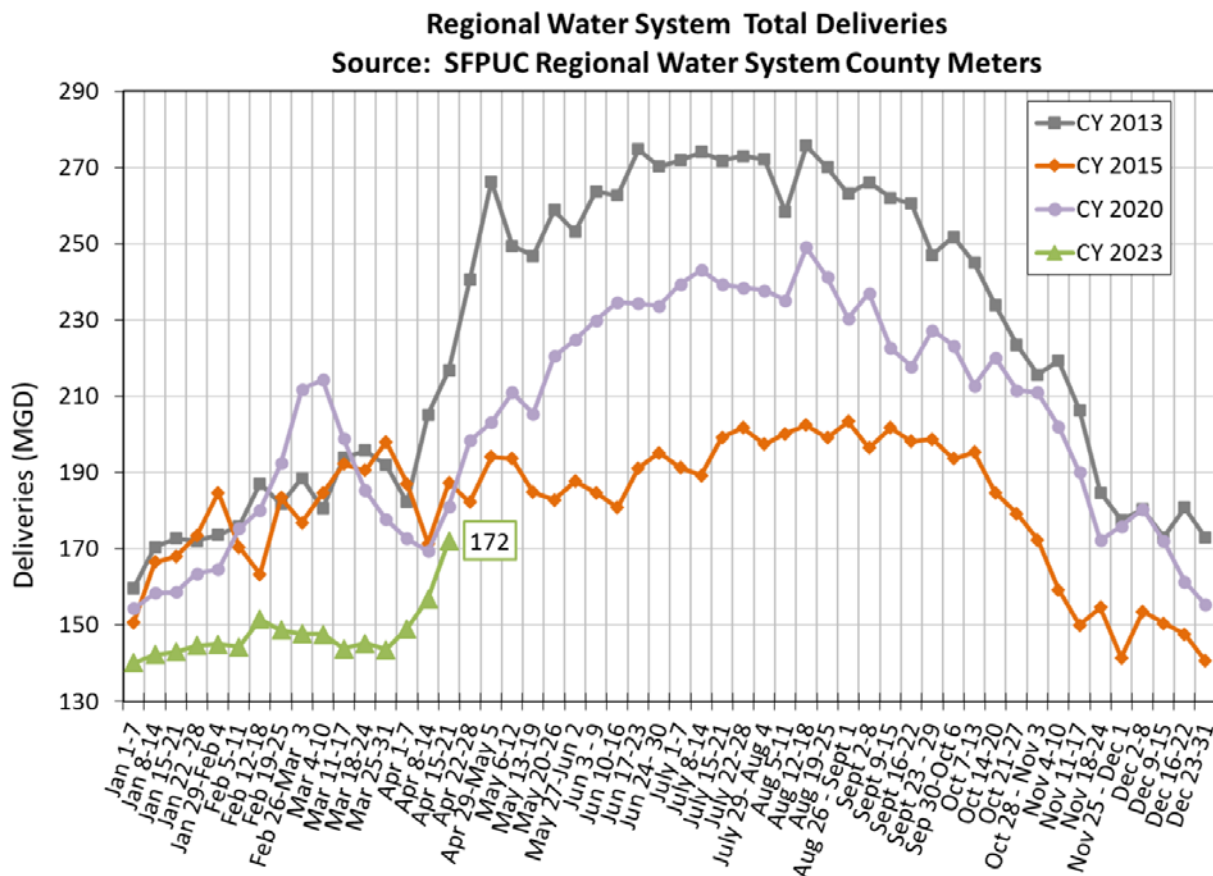


Water Demand – SF RWS

This winter has been blessed with frequent wet weather coupled with cool temperatures. Those conditions help to moderate outdoor water use which in turn significantly reduces water demand. Moreover, the region is under a call for 11% voluntary water use reductions. To help achieve that call, BAWSCA agencies, including those in San Mateo County, have asked their customers to use water wisely, and have implemented a number of conservation programs and measures to assist their customers in doing so.

Records in 2023 to date indicate that water use in the SF RWS is significantly lower than the use recorded in 2015, which coincided with the last time the region was facing a drought. It should be noted that COVID-19 has impacted the water use in the City of San Francisco, which has had a major effect on lowering water demand within that portion of the SF RWS.

Water use beginning in March has ramped up, as it expected since outdoor watering typically commences at that time.



Statewide Calls for Water Use Reduction

Beginning in 2021, Governor Newsom began issuing executive orders in response to the growing impacts of a drought that began the prior year. In 2023, as drought conditions began to moderate, instead of ending his executive order, he amended them to remove certain order requirements. Most recently, on March 24, 2023, Governor Newsom issued Executive Order N-5-23 in light of continuing condition improvement. Most importantly, the Governor's order enables water agencies to no longer call for "Stage 2" of their water shortage contingency plans (typically those plans call for a number of actions, such as limits on how water should be used and requirements that residents cut their water use). However, what remains in place include 33 provisions. The Governor will need to take further action in order to fully end his drought call.

SFPUC's Declaration of Drought Emergency

The SFPUC's commission held a public hearing on April 11, 2023 at which time they rescinded the declaration of a local water shortage emergency (note that that emergency was declared and adopted by SFPUC on November 23, 2021).

While the SFPUC Commission's April 2023 action continue to call for 11% voluntary water use reduction, as part of the Commission's action, they also approved the ability to rescind the voluntary system-wide water use reduction of 11% when the State Water Board modifies or ends its drought emergency regulations. The regulations are set to expire on June 10, 2023.

C/CAG AGENDA REPORT

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Presentation on Net Energy Metering and the impact on cost and payback of NEM2 verses NEM3.

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

RECOMMENDATION

That the RMCP Committee receive a presentation on Net Energy Metering and the impact on cost and payback of NEM2 verses NEM3.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

Net energy metering is an opportunity for owners of renewable energy installations to derive financial or energy benefit of excess generation from their installations. The structure of this opportunity is designed, in collaboration with stakeholders, by, and approved by, the California Public Utilities Commission (CPUC).

At the March RMCP Committee meeting, Committee Member Smith mentioned concern about how the transition of net energy metering (NEM) from the (then current) NEM2 program to a new NEM3 program would greatly affect the viability of behind-the-meter solar installations by private owners. This topic has come up, and the Committee has expressed interest in a presentation in past meetings as well.

There are multiple cost factors that go into determining the financial viability through modeling under the NEM programs. These include taxes, how and when energy is used at the installation site, whether battery storage is included, the rate schedule (or tariff) for both how much is paid back for excess energy generation and the rate schedule the installation site is subscribed to, and others.

Solar installers and property owners often use an outside consultant to evaluate the site's specific circumstances. Staff has identified a company that has developed a tool to model behind-the-meter installations: Energy Toolbase. Scott D'Ambrosio, Vice President of Sales at Energy Toolbase, will provide a presentation on net energy metering and demonstrate their modeling software to explain the difference between NEM2 and NEM3, and how the return on investment and payback will likely differ between the two CPUC programs.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Presentation on the role of the California Independent System Operator and challenges to the grid in the electrification transition.

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

RECOMMENDATION

That the RMCP Committee receive a presentation on the role of the California Independent System Operator and challenges to the grid in the electrification transition.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

In a continued discussion from the March RMCP committee meeting, when the committee received a presentation related to grid reliability and resilience from the California Energy Commission (CEC) on long term energy storage, this month the Committee will receive a presentation from the California Independent System Operator (CAISO) on their efforts to both green and increase the reliability of the California electric grid.

CAISO, in coordination with other California energy agencies, plays a key role in meeting the States renewable portfolio and carbon neutrality goal legislation. However, CAISO is also energy source agnostic. They work closely with the CEC and California Public Utilities Commission to support the legislation. The California independent system operator is responsible for reliability and operation of California's wholesale energy market, 24/7, to meet the needs of consumers, while increasing use of renewable energy on the California grid. The California electricity grid is a complex mix of generation facilities, storage facilities, power lines, and other infrastructure, and is one of the "most modern power grids in the world."

Juan Buitrago, Account Manager for Stakeholder Engagement at CAISO, will provide a presentation explaining the roles of the CPUC, CEC, and CAISO, challenges CAISO faces, including with electrification, how CAISO plans ahead for electricity demands and infrastructure needs to provide a reliable grid.

A link to the CAISO website is provided as an attachment to this staff report.

ATTACHMENTS

1. Link to California Independent System Operator (CAISO) website:
<https://www.caiso.com/Pages/default.aspx>

C/CAG AGENDA REPORT

Date: May 17, 2023
To: Resource Management and Climate Protection Committee
From: Kim Springer, Committee Staff
Subject: Presentation on California's electric grid reliability planning and Bay Area Air Quality Management District Zero NOx rules and electric grid infrastructure impacts.

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

RECOMMENDATION

That the RMCP Committee receive a presentation on California's electric grid reliability planning and Bay Area Air Quality Management District Zero NOx rules and electric grid infrastructure impacts.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

In a continued discussion about grid reliability and resilience from the March RMCP Committee meeting, when the Committee received a presentation from the California Energy Commission (CEC) on long term energy storage, staff has been looking for presenters to help the Committee better understand long-term planning related to grid capacity as more consumers electrify their homes and businesses, and their vehicles.

This month, staff has invited Ari Gold-Parker, Associate Director at Energy Environmental Economics (E3). Ari's work at E3 helps energy agencies, such as the CPUC understand how electricity and natural gas will transform given carbon neutrality goals, and to inform their policy and decision making at the State level. Ari will share two separate presentations, one on E3's work completed for the CPUC on grid planning, and one on the Bay Area Air Quality Management District for the update to their NOx emission rules, recently adopted.

In collaboration with County Office of Sustainability, for the RICAPS program, and Peninsula Clean Energy for its efforts, staff has been working to identify presenters familiar with regional and local grid capacity planning. Staff is working with PG&E to identify someone within PG&E to present local utility-level planning efforts at a future Committee meeting.

ATTACHMENTS

None