

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside

Agenda

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, April 21, 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://us02web.zoom.us/j/88375705418?pwd=NzVQcS9wdXpkOE93NGs5TEIUS3REdz09>

Meeting ID: 883 7570 5418

Passcode: 645875

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

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, April 20, 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 April 20, 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 April 20, 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 March 21, 2021 RMCP Committee meeting.
(Kim Springer – Committee Staff) Action
4. Update on water supply availability estimates and request for voluntary rationing.
(Tom Francis, BAWSCA Committee Member) Information/ Discussion
5. Presentation on the basics of One Water, existing projects, and staff thoughts on further integration in San Mateo County.
(Kim Springer – Committee Staff) Information/ Discussion
6. Presentation on development of State and regional Hydrogen infrastructure, and opportunities for use in heavy-duty vehicle applications.
(Nico Bouwkamp, Frontier Energy) Information/ Discussion
7. Presentation on RICAPS countywide greenhouse gas emissions inventories, data sources and challenges.
(John Allan, County OOS Staff) Information/ Discussion
8. Committee Member Updates
9. Next Scheduled Meeting Date: May 19, 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, March 17, 2021

Time: 3:00 p.m.

Location: Remote meeting via Zoom

1. Roll Call - Introductions

In Attendance

Maryann Moise Derwin - Portola Valley*

Diane Papan – San Mateo*

Francis – BAWSCA*

Donna Colson – Burlingame*

Christine Kohl-Zaugg – Sustainable San Mateo County*

Jeff Smith – Sares Regis Group*

Doug Silverstein – Thrive Alliance*

Debbie Ruddock – Half Moon Bay*

Ortensia Lopez – El Concilio*

Rick DeGolia, Atherton*

Bianca Liu – South San Francisco

Matt Ruble - South San Francisco

Robert Dusenbury – Lotus Water

Matt Fabry – SMCWPPP

Sandy Wong – C/CAG

Carol Steinfeld – Sierra Club, Loma Prieta Chapter

Robert Cormia – Foothill College

Kim Springer – Office of Sustainability

Susan Wright – Office of Sustainability

John Allan – Office of Sustainability

Alexandria Gallizioli – Office of Sustainability

Not in Attendance

Don Horsley, San Mateo County Supervisor*

Drew Combs, Menlo Park*

Bill Chiang, PG&E*

2. PUBLIC COMMENT:

Carol Steinfeld shared that the SMC Harbor District passed a resolution supporting the Bay Delta Plan.

3. ACTION: Approval of Minutes from February 17, 2021 RMCP Committee meeting.

Motion to approve Debbie Ruddock, Second by Tom Francis
As new member to RMCP, Jeff Smith abstained
Action passed

4. INFORMATION: Bay Area Water Supply and Conservation Agency update on current water supply conditions and weather projections for the coming winter season.

Committee member Tom Francis provided an update on current water supply and storage. Francis started with an overview of the Hetch Hetchy System and statewide drought/storage conditions. As of March 1st, Hetch Hetchy is 56% capacity which is a little below the normal 65% capacity at this time of the year. Systemwide, we're at 77.4% of maximum storage which is just below the normal average of 80.3%.

In terms of precipitation, San Mateo County is having a dry year. Total precipitation is about half of the historical average through the end of February. Recent rain events in March have added to this total. We're currently on track to match rainfall levels in 2020 which was a dry year. Snowpack conditions are below average but we're still doing better than last year.

Looking to the future, NOAA is predicting a near-normal precipitation forecast in the short term but drier than average over the next three months.

Water usage remains lower than peak consumption in 2013. To date San Mateo County residents have been keeping consistent with the 5-year average. Bay Area Water Agencies are coordinating on possible Drought Messaging as we move into another dry year.

Zaugg – That's the data up to March 1, correct? There has been some more rain between March 1st and today, but how much difference (if any) will this make?

Francis – Every drop counts but the rains we're seeing right now won't be making a significant impact. We'd need some very large storms to catch up at this point.

Zaugg - After how many successive dry years does the lack of rain become a bigger issue?

Francis – Each successive year it becomes a bigger issue. Compared to last year, we're more concerned, and if we have similar conditions next year, we'll be more concerned and possibly may see voluntary rationing.

Smith- How are the local water agencies faring beyond just their water supply?

Francis – Generally they are doing well but COVID has created some financial challenges. Some infrastructure upgrades have been put off due to declining revenues, unpaid accounts and being unable to increase rates while so many are struggling.

5. INFORMATION: Presentation on the Orange Memorial Park stormwater treatment and reuse project in South San Francisco.

Rob Dusenbury of Lotus Water provided a presentation on a regional stormwater capture project that will divert water from Colma Creek into Orange Memorial Park where the water will be treated through settling and infiltration and reused for irrigation onsite. The project is currently under construction and is anticipated to be completed in 2022. Dusenbury presented a detailed site plan of the project and described the individual components that work together to divert, treat and reuse stormwater.

About 16% of the annual flows from Colma Creek will be diverted. 9% of annual flows will be treated and re-enter the channel (and Bay), 6% will infiltrate and 1% will be reused as irrigation. This amounts to 640 acre-fee of water diverted and 15 million gallons of potable water offset (a savings of \$140,000 annually).

Multiple alternatives were considered when designing and siting this project and public input was essential to designing a successful project. Operations and maintenance of this project has also been an important consideration. Different parts of the project require specialized maintenance at different intervals and these details had to be approved by the Regional Water Board.

DeGolia – Atherton looked at an identical project and we visited two of these projects in operation in southern Cal. Very beneficial to both the local community and cleaning the water that goes into the Bay.

Ruddock – At what scale do projects like this become cost-effective?

Dusenbury– Generally speaking, these larger regional projects are always more cost effective than smaller parcel-based or street-based projects. Usually 10x more cost effective in terms of dollars spent for volume of water treated.

Francis – This could be considered a pilot project that can be shown to other jurisdictions considering similar projects. Regarding groundwater, other areas of San Mateo County may not be as well-situated to augment groundwater supplies with similar projects.

Carol Steinfeld – Question about why IAPMO was used here if it's subsurface distribution. Also, Santa Clara County is pursuing a One Water Program

Dusenbury– All of this happens largely underground but the water distribution for park irrigation isn't entirely underground and there are opportunities for public exposure. More stringent disinfection requirements were pursued to meet potential new state legislative requirements around projects such as this.

6. INFORMATION: 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 with the San Mateo Countywide Water Pollution Prevention Program (SMCWPPP) delivered a presentation on C/CAG's efforts to promote regional-scale stormwater projects such as the one currently being installed in South San Francisco at Orange Memorial Park. Fabry gave an overview of stormwater regulatory requirements issued by the Regional Water Quality Control Board.

C/CAG has evaluated many scenarios on how jurisdictions in San Mateo County can meet implementation requirements for green infrastructure on behalf of all permittees in San Mateo

County. They've determined that collaborative regional projects are the most cost-effective approach to meeting Water Board requirements for green infrastructure and they're now exploring key area of collaboration. C/CAG is in the process of identifying drivers and objectives for regional collaboration. These include: Limited resources, infrastructure deficiencies, water quality regulations, climate resiliency, stormwater reuse, and equity.

7. INFORMATION: Update on BayREN single-family residential electrification case study project.

Susan Wright with the County Office of Sustainability and BayREN, provided a status update to the previously-discussed residential electrification case study project. Wright provided an overview of the process, which includes multiple steps. Step 1 - the consultant will meet with the customer to discuss goals, specify equipment, etc. Step 2 – collect price estimates from contractors by multiple bids and figure out the costs for the projects. Step 3 - consultant writes up the case studies based on the data collected and analyzed from the contractor teams. Up to 10 case studies will be rolled up into a final report. Next step is releasing an RFQ to identify interested consultants and contractors, solicit submissions for interested homeowners with the project beginning in early May and wrapping everything up in September.

Robert Cormia – Living in a more rural community, we're more concerned about resiliency and Public Safety Power Shutoffs. Is this something that BayREN would be interested in?

Wright– We've talked about resiliency in past committee meetings and this is definitely something we can follow up on.

8. Committee Member Updates

Silverstein - THRIVE Alliance is hosting another workshop on Thursday, March 25th - Water Access Gaps in San Mateo County: South Coast Challenges and Equitable Solutions

Zaugg - SSMC March Happy Hour: "Spring into Action: Local Governments & Residents nurturing Sustainability": <http://bit.ly/SSMCMarchHappyHour>

Awards Ceremony on Friday, May 14, 5:30-6:30PM and auction will also culminate then (starts April 30) – more info on our website: <https://sustainablesanmateo.org/2021celebration>

Francis – Water providers are having public meetings over the next month or two for their Urban Water Management Plans. Highly encourage the public to attend.

9. Next Scheduled Meeting Date: April 21, 2021

C/CAG AGENDA REPORT

Date: April 21, 2021
To: Resource Management and Climate Protection Committee
From: Tom Francis, BAWSCA, RMCP Committee Member
Subject: Update on water supply availability estimates and request for voluntary rationing.

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

RECOMMENDATION

Receive and update on water supply availability estimates and request for voluntary rationing.

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 current water supply availability conditions. 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 March 17, 2021, on water supply and projected weather conditions. This update on supply availability will also be provided by Tom Francis.

A letter from Steve Ritchie, Assistant General Manager for Water at the SFPUC, to wholesale customers is provided as an attachment to this report.

ATTACHMENTS

SFPUC Letter



San Francisco Water Power Sewer

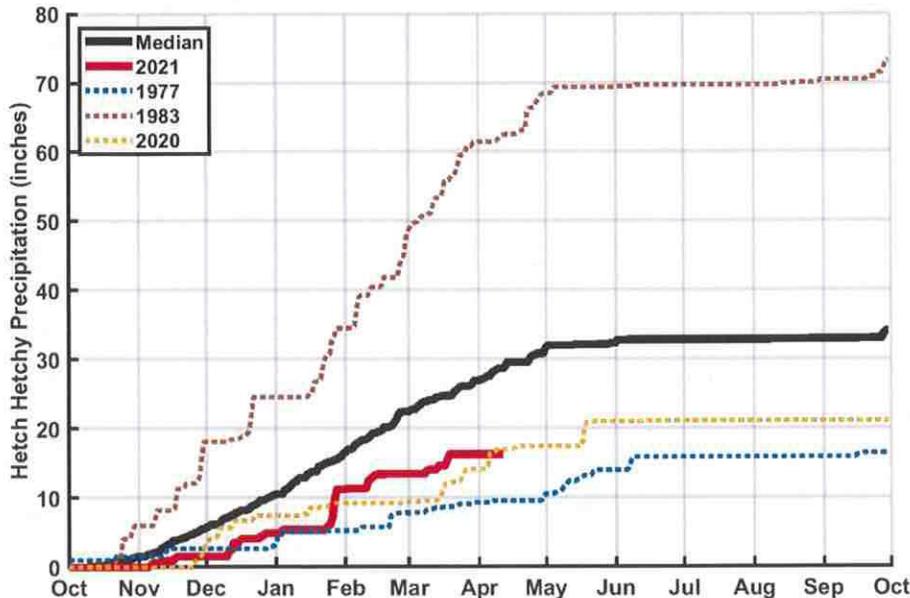
Services of the San Francisco Public Utilities Commission

525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102
T 415.554.3155
F 415.554.3161
TTY 415.554.3488

TO: SFPUC Wholesale Customers 
FROM: Steven R. Ritchie, Assistant General Manager, Water
DATE: April 15, 2021
RE: Water Supply Availability Estimate

This memo provides the water supply availability estimate for this year and the current hydrologic conditions.

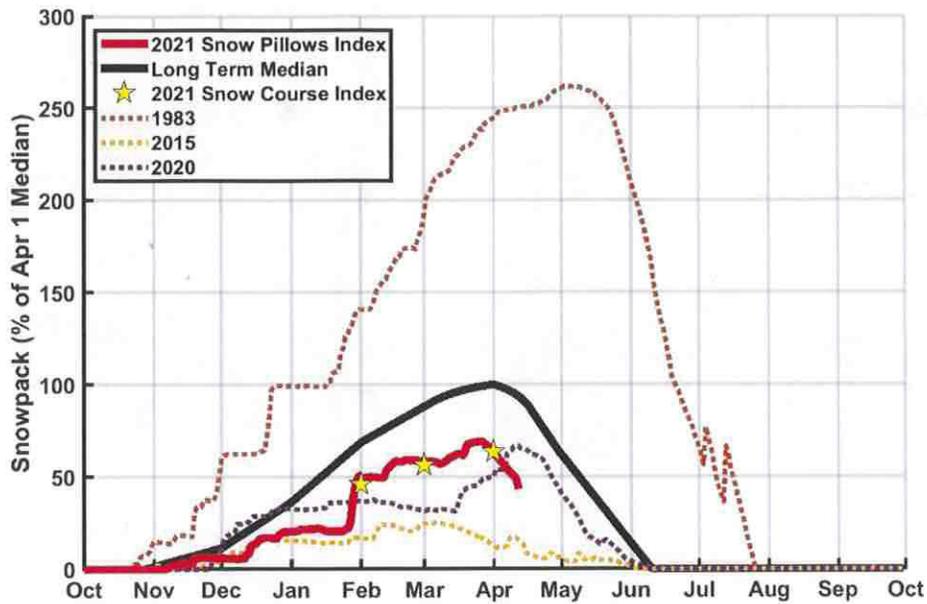
The plots below provide precipitation at Hetch Hetchy and snowpack in the watershed through April 13, 2021. As the plots show, the Hetch Hetchy watershed has experienced quite dry conditions to date, similar in precipitation to last year. The April 1 snow course index is about 60% of median April 1st snowpack, surprisingly this is 10% higher than last year's percent of median April 1st snowpack. However, the snowmelt has already begun in contrast to this time last year where a late season storm boosted snowpack before the snowmelt began.



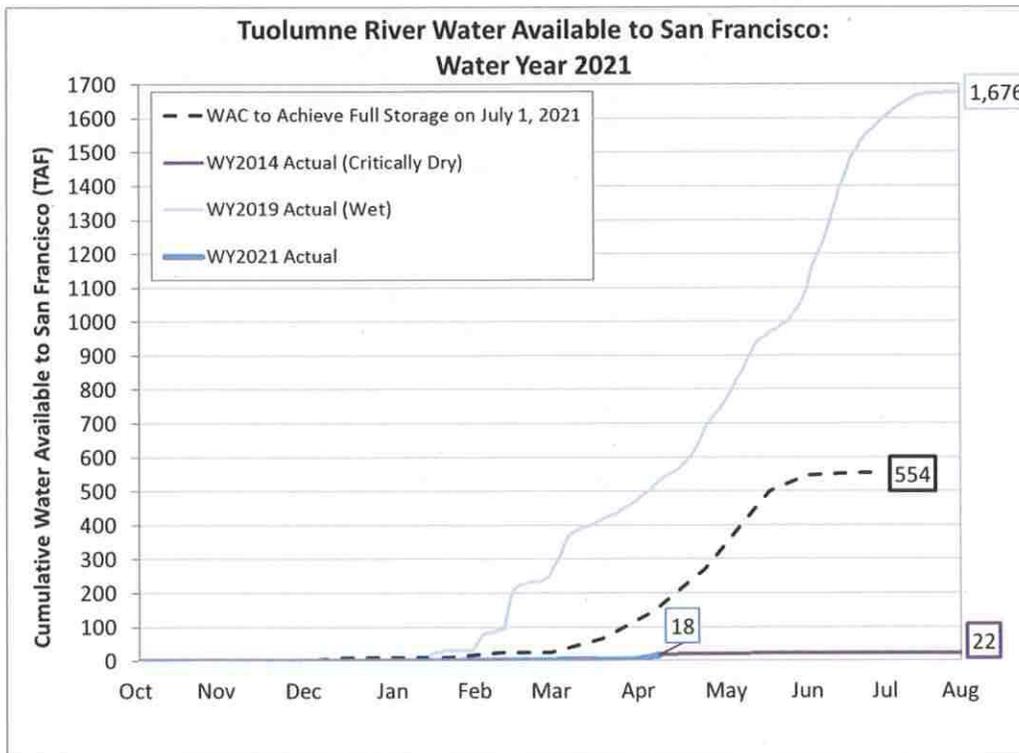
- London N. Breed**
Mayor
- Sophie Maxwell**
President
- Anson Moran**
Vice President
- Tim Paulson**
Commissioner
- Ed Harrington**
Commissioner
- Newsha Ajami**
Commissioner
- Michael Carlin**
Acting
General Manager

OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.





Water available to San Francisco under the Raker Act has produced about 18,000 acre-feet so far. San Francisco needs about 554,000 acre-feet to fill the entire water system by July 1, 2021 as depicted in the chart below. Despite lower than normal snowpack for this time of year, the SFPUC snowmelt forecasts indicate Hetch Hetchy reservoir will fill this year. Water Bank is not expected to fill, however, which will put the system at risk for filling our Upcountry system next year.



With the shelter-at-home orders lifting and businesses, schools, offices and other establishments in the SFPUC service area beginning to reopen, water demands have begun to increase above the lower demands experienced during shelter-in-place. While San Francisco does not want to cause any limitations to economic recovery and the reopening of Bay Area businesses and activities, we ask that customers remain vigilant, particularly around outdoor irrigation. Our goal is to maintain summertime water use at no more than 2019, pre-Pandemic levels. To accomplish this, we will be asking our retail customers to voluntarily reduce irrigation use by 10 percent. Ways to accomplish this include routinely cutting irrigation time by 10% or reducing the frequency of irrigation days, and fixing leaks and irrigation problems like overspray . We ask our Wholesale Customers to implement similar approaches to control summertime peak use.

Our customers' commitments to water conservation ensure our ability to carryover water in our reservoirs from one year to the next. This commitment results in improved water supply reliability and reduces the risk of water shortages in the event that next year is also dry. All of the users of our water system benefit from the continuation of wise water use.

cc.: Nicole Sandkulla, CEO/General Manager, BAWSCA

C/CAG AGENDA REPORT

Date: April 21, 2021
To: Resource Management and Climate Protection Committee
From: Kim Springer, C/CAG RMCP Committee Staff
Subject: Presentation on the basics of One Water, existing projects, and staff thoughts on further integration in San Mateo County.

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

RECOMMENDATION

Receive a presentation on the basics of One Water, existing projects, and staff thoughts on further integration in San Mateo County.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The term “One Water” describes a comprehensive approach to communitywide water management. One Water considers the various supplies and use of water (flows) as one integrated system. One Water recognizes multiple water supplies as resources, including: surface water, groundwater, stormwater, and wastewater.

Some of the opportunities and considerations include: recycled water (both grey and black), stormwater management, wastewater management, water conservation, flood prevention, ecosystems and habitat protection, and sea level rise resilience. By extension (and thinking more broadly), there are implications related to land-use planning, housing, reducing urban heat island, coordination across multiple agencies and special districts, distributed wastewater treatment, business development, and even the potential to combine billing of multiple utility services.

At the March 17, 2021 RMCP meeting, it was suggested to the Committee by public attendee, Carol Steinfeld, that C/CAG consider leadership on a One Water approach in San Mateo County. Staff has been discussing possible approaches to exploring One Water in San Mateo County with BAWSCA staff and will provide both a short presentation on One Water and an update on discussions.

ATTACHMENTS

None

C/CAG AGENDA REPORT

Date: April 21, 2021
To: Resource Management and Climate Protection Committee
From: Nico Bouwkamp, Frontier Energy
Subject: Presentation on development of State and regional Hydrogen infrastructure, and opportunities for use in heavy-duty vehicle applications.

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

RECOMMENDATION

Receive a presentation on development of State and regional Hydrogen infrastructure, and opportunities for use in heavy-duty vehicle applications.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

Hydrogen fuel cells convert Hydrogen to electricity and have multiple applications: vehicles, generators, and energy storage to name a few. As a technology, Hydrogen holds significant opportunity in the effort to reduce greenhouse gas emission. The RMCP Committee received its last presentation on development of Hydrogen in California, both fueling infrastructure and vehicle developments, March 21, 2018.

For vehicles, a growing number of manufacturers are entering the Hydrogen market and investing research and development capital, though cautiously. In the meantime, the State of California continues to leverage fuel standards and incentives to drive the market, including spending significant dollars to deploy fueling infrastructure. In terms of legislation, Assembly Bill 8 (Perea 2013) requires the establishment of at least 100 hydrogen fueling stations to launch the FCEV market in the state. More recently, Executive Order B-48-18 (EO B-48-18) tasked these same agencies with working towards a network of 200 stations by 2025. In general, the market for Hydrogen vehicles is about seven years behind that for electric vehicles, and the adoption curve for Hydrogen vehicles is similar to what was noted in the early years of electric vehicles.

The market for heavier duty or off-road vehicles, electric verses Hydrogen, is mixed, given a multiple considerations, including as examples: life cycle costs, infrastructure costs, ability of vehicles to handle terrain, fleet parking site constraints and charging limitations for electric vehicles, and training of maintenance workforce.

Nico Bouwkamp, Technical Program Manager at California Fuel Cell Partnership, will provide an update on development of Hydrogen infrastructure and applications in heavy-duty and off-road vehicles, with a perspective on how pros and cons influence consumer choice.

A link to the California Air Resources Board report titled 2020 Annual Evaluation of Fuel Cell Electric Vehicle Deployment & Hydrogen Fuel Station Network Development, pursuant to AB 8, is provided as a link to this staff report.

ATTACHMENTS

Link to 2020 report pursuant to AB 8:

https://ww2.arb.ca.gov/sites/default/files/2020-09/ab8_report_2020.pdf

C/CAG AGENDA REPORT

Date: April 21, 2021
To: Resource Management and Climate Protection Committee
From: John Allan, County OOS Staff
Subject: Presentation on RICAPS countywide greenhouse gas emissions inventories, data sources and challenges.

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

RECOMMENDATION

Receive a presentation on RICAPS countywide greenhouse gas emissions inventories, data sources and challenges, for discussion.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The County and C/CAG coordinated to launch the Regionally Integrated Climate Action Planning Suite (RICAPS) Program in 2009. The Program provides template documents, tools in the form of spreadsheets, and access to consultant-based climate action planning technical assistance for cities and the County. The program greatly reduces the cost and staff time for agencies to develop a climate action plan, while also improving the RICAPS tools and resource, keeping them to current best practices. The program also provides a monthly working group meeting for city and County staff to share updates, best practices; opportunities for collaboration. In addition to these resources, the Program provides a community-scale greenhouse gas emission inventory for every city and the County, annually.

The community-scale emission inventories include emissions generated from transportation, energy, solid waste, water and wastewater, and other point sources of emissions. The first emission inventory was completed in 2005, the second in 2010, and they have been provided annually from 2011 through 2018. Currently, staff at the County Office of Sustainability are working on completing the 2019 emission inventory, and have started entering the available data for 2020.

Data necessary to complete the emission inventories is requested or collected from multiple sources. Some of the data is easily available, while other data take months to receive once requested. Finally, and specifically, the energy data is received in a timely manner, but is incomplete because of current data privacy rules and the interpretation of those rules.

John Allen, Resource Conservation Specialist, from the County Office of Sustainability, will provide a presentation on the emissions sources included in the annual inventories, the sources of the data, and challenges collecting the necessary data for a comprehensive inventory.

ATTACHMENTS

None