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

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, November 20, 2024 Time: 3:00 p.m.

HYBRID MEETING - IN-PERSON AND BY VIDEOCONFERENCE

This meeting of the RMCP 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. The Committee welcomes comments, including criticism, about the policies, procedures, programs, or services of the agency, or of the acts or omissions of the Board and committees. Speakers shall not disrupt, disturb, or otherwise impede the orderly conduct of a Board meeting. 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/84237646736?pwd=eUxkdkduTVpjWCtTVU4yMm9iWXInZz09 Webinar ID: 842 3764 6736 Passcode: 923252

Join by Phone:

Call in Number: 669 900 6833 US (San Jose) Webinar ID: 842 3764 6736 Passcode: 923252

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, limited to 2 minutes, will also be accepted during the meeting through Zoom or in person. Please see instructions for written and spoken public comments at the end of this agenda.

AGENDA

- Public Comments on items not on the agenda.
 Approval of draft minutes of the September 18, 2024 and October 16, 2024 RMCP Committee meetings. (Kim Springer, Committee Staff) Action
 Approval of RMCP Committee meeting dates for January 2025 through January 2026. (Kim Springer, Committee Staff) Action
 Presentation on the Diablo Canyon Nuclear Power Plant and its role in supporting the California energy transition. Bill Chiang, PG&E) Information/Discussion
 Presentation on Peninsula Clean Energy's load and energy supply mix. (Mehdi Shahriari, PCE) Information/Discussion
- 7. Presentation on The Alliance for Renewable Clean Hydrogen Energy Systems, a California initiative to accelerate renewable hydrogen projects.

(Lewis Fulton, UC Davis)

Information/Discussion

8. Committee Member Updates

1. Roll Call and introductions.

9. Next Scheduled Meeting Date: TBD

PUBLIC NOTICING: All notices of C/CAG regular Board meetings, standing committee meetings, and special meetings will be posted at the San Mateo County Courtyard, 555 County Center, Redwood City, CA, and on C/CAG's website at: <u>http://www.ccag.ca.gov</u>.

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: 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.

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 RMCP Committee members and included in the administrative record of the meeting as soon as practicable.

SPOKEN COMMENTS: Members of the public who wish to speak on matters not on the agenda will be given an opportunity to address the Committee during the agenda item titled "Public Comment on Items Not on the Agenda." Members of the public who wish to speak on a matter on the agenda will have two minutes each to address the Committee on that agenda item unless a different time limit is established by the Chair. No speaker who has already spoken on an item will be entitled to speak to that item again. At the call of the Chair, public comments will be taken in-person and remote. Public comments will be taken first by speakers in person followed by via Zoom. If you have documents you wish to distribute to the Committee and include in the official record, please hand it to the C/CAG Staff who will distribute the information to the Committee members and staff. *Those participating remotely will:

1. Access the meeting through Zoom at the online location or via phone as indicated at the top of this agenda.

2. 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. 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. Click on "raise hand" when the C/CAG Clerk or Chair calls for the item on which you wish to speak. 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 (650) 599-1409

Clerk of the Board: Mima Crume (650) 599-1406

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

Draft Meeting Minutes

of the

Resource Management and Climate Protection Committee (RMCP)

455 County Center, Rm. 101, Redwood City, CA 94063 Date: Wednesday, September 18, 2024 Time: 3:00 p.m.

Committee Members in Attendance:

Tom Francis – BAWSCA (Vice Chair) Mary Hufty – Town of Portola Valley Sue Beckmeyer – Pacifica Kaia Aiken – City of Redwood City Gina Papan – Millbrae Betsy Nash – Menlo Park Ortensia Lopez – El Concilio Jeff Smith – Sares Regis Group Bill Chiang - PG&E Sarah Hubbard – Sustainable San Mateo County

Committee Members not in Attendance

Donna Colson – Burlingame (Chair) Alex Fernandez – Filoli Dave Pine – County of San Mateo

Additional Attendees and Speakers

Sean Charpentier – C/CAG Kim Springer – C/CAG Susan Wright – County Sustainability Department Avana Andrade – County Sustainability Department Alhad Dighe – County Sustainability Department Laura Wong - County Sustainability Department Chris Jones – UC Berkeley Miya Kitahara – Alameda County StopWaste

Ryan Gardner – Rincon Consulting Anna Yip – Rincon Consulting Negin Ashoori - BAWSCA Marc Hershman – Peninsula Clean Energy Reid Bogert – C/CAG Note: All presentations for this meeting have been posted on the C/CAG RMCP Committee website: <u>https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/</u>

Meeting was called to order at 3:06 P.M.

1. Roll Call and Introductions, including welcoming members recently appointed by the C/CAG Board to the RMCP Committee.

Committee staff completed Roll Call and a quorum of 10 members was eventually achieved. The Committee welcomed new member Betsy Nash, Menlo Park City Council Member.

2. Public Comments on items not on the agenda.

There were no public comments.

3. Approval of minutes of the May 15, 2024 and August 21 2024 RMCP Committee meetings.

The Committee approved the minutes of the May 15, 2024 meeting, with a motion by Member Papan, seconded by Member Lopez. A vote was taken and passed (6,2,0) with two members, Nash and Chiang, abstaining. The Committee approved the minutes of the August 21, 2024 meeting, with a motion from Member Papan, seconded by Member Hubbard. A vote was taken and passed (6,2,0) with two members, Nash and Chiang, abstaining. Members Hubbard. A vote was taken and passed (6,2,0) with two members, Nash and Chiang, abstaining. Members Hubbard. A vote was taken and passed (6,2,0) with two members, Nash and Chiang, abstaining. Members Hubbard Beckmeyer were not present for the voting.

4. Presentation on Regionally Integrated Climate Action Planning Support emissions inventory history, process, and trends.

Ryan Gardner, Rincon Consultants, provided a presentation on the RICAPS climate action planning emissions inventory program. Gardner's presentation included each of the source categories of emissions and the sources. Gardner continued by providing emissions reduction trends for San Mateo County since 2005 through 2022. Challenges with changing methodologies and data sources was also discussed. The Committee commented or asked questions on the following: how residential, commercial, and industrial data is broken down, the future of merging gas station with EV charging, the importance of EV charger maintenance, PG&E's focus on full electrification, challenges with timing for energization, why electricity emissions is not closer to zero and what PCE's energy mix is, the drop in organic waste into landfills, potential expansion of hydroelectric, and the applicability of Proposition 4 to these efforts to reduce emissions.

5. Presentation on regional input for city- and county-level GHG emission inventories in development of statewide inventories by UC Berkeley Energy and Resources Group. Chris Jones, UC Berkeley Energy and Resources Group and Miya Kitahara from StopWaste Alameda County provided a presentation on the development of inventories by city on a statewide basis. The point was made that success in reducing greenhouse emissions depends on both state, regional, and local action. Completing emissions inventories is a very costly process for each city to undertake, but more economical at economies of scale. The RICAP program has been completing inventories for cities in San Mateo County, but most counites do not have such a vehicle. The UC Berkeley effort, with input from multiple stakeholders, seeks to establish a system for generating emission inventories for all cities in the State, both resource- and consumption-

based. The Committee commented or asked questions on the following topics: How to, potentially, improve upon MTC's data, gratitude that this is a "no cost" process at this point, and how helpful it will be to have more data on full deployment needs of EV charging infrastructure.

6. Presentation on BAWSCA Regional Water Demand and Conservation Projections Study.

Item 3

Negin Ashoori, Senior Water Resources Engineer at BAWSCA, provided a presentation on the BAWSCA Regional Water Demand and Conservation Projections Study that is carried out by BAWSCA for its water agencies approximately every five years. Despite growing population (34%), the demand has decreased (-32%). The demand and conservation study has two objectives, demand projections and a sensitivity analysis. The Study will also be simulating the impact of future drought. The Committee and public provide comments or asked questions on the following topics: how it is that population could be unbundled from water use, how will the Study treat the Bay Delta Plan and are there any new sources of water being considered, how will the most recent regional Housing Needs Assessment be factored in, and will the plan be affected by ground water pressure and rise due to sea level rise.

7. Committee Member Updates

8. Next Scheduled Meeting Date: October 16, 2024

Meeting adjourned at approximately 5:04 P.M.

Note: All presentations are posted on the C/CAG RMCP Website at: <u>https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/</u>

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

Draft Meeting Minutes

of the

Resource Management and Climate Protection Committee (RMCP)

155 Bovet Rd. – Ground Floor Conference Room, San Mateo Date: Wednesday, October 16, 2024 Time: 3:00 p.m.

Committee Members in Attendance:

Donna Colson – Burlingame (Chair) Tom Francis – BAWSCA (Vice Chair) Gina Papan – Millbrae Betsy Nash – Menlo Park Sarah Hubbard – Sustainable San Mateo County

Committee Members not in Attendance

Mary Hufty – Town of Portola Valley Dave Pine – County of San Mateo Sue Beckmeyer – Pacifica Kaia Aiken – City of Redwood City Ortensia Lopez – El Concilio Jeff Smith – Sares Regis Group Bill Chiang - PG&E Alex Fernandez – Filoli

Additional Attendees and Speakers

Sean Charpentier – C/CAG Kim Springer – C/CAG Ashley Rich – EV.PRO Christopher Moore – CPUC Richard Chien – BAAQMD Michael Barber – Supervisor Pine's Office Susan Wright – County Sustainability Department Rachel Londer – City of Menlo Park Brian Schmidt – Menlo Spark 1. Roll Call and Introductions, including welcoming members recently appointed by the C/CAG Board to the RMCP Committee.

Committee staff completed Roll Call and five members were in attendance.

- **2.** Public Comments on items not on the agenda. There were no public comments.
- **3.** Approval of draft minutes of the September 18, 2024 RMCP Committee meeting. Due to lack of quorum, this item was postponed to the next Committee meeting.
- 4. Presentation on Proposition 4 and expected funding allocations in alignment with climate programs.

C/CAG and Committee staff, Kim Springer, gave a brief presentation on the proposed funding under Proposition 4. The committee discussed and provided comments related to the potential for stormwater funding and for dam repair, funds for water conservation, and whether there was any polling on the proposition.

5. Presentation on EV.PRO electric vehicle as a service model for city or commercial fleets.

Ashley Rich, Chief Customer Officer with EV.PRO, provided a presentation on the EV as a service model being marketed by EV.PRO, including the pros and cons of ownership vs. EV as a service, the approximate cost, the process for setting up a program, and what happens at the end of the 5-year lease.

The Committee discussed and commented on the presentation, including the following topics: the location of EV.PRO as a company and its territory, if the Service would work for hotels, where the cost savings for customers comes from, would union fleet managers be concerned about their reduced role, public agencies fit due to medium duty vehicles, and police and parking compliance vehicles.

6. Presentation on new energization rules adopted by the California Public Utilities

Chris Moore, Local Government and Community Outreach at the CPUC, provided a presentation on new regulations related to evaluation and interconnection (energization) request turnaround times for electric utilities. The Committee discussed and provided comments on the following topics: current IOU response rate trends, acceptability of new timelines, what the start day of the "counter" for the new regulations, How local government can help drive shorter timelines, can IOUs be fined for failing to meeting the new timelines, what the constraint is on the utility side for reducing timelines, how to educate the public in advance of appliance failure, the importance of developing technologies and approaches of reducing the need for panel upgrades, and other challenges with electrification of transportation.

Public attendees provided the following comments: having a specific contact at PG&E would be helpful, and there are possibilities for electrification without panel upgrades.

7. Presentation on Bay Area Air Quality Management District update on amending Regulation 9, Rules 4 and 6 to reduce emissions of nitrogen oxides from residential and commercial furnaces and water heaters, and California Air Resources Board's outreach effort for Zero-Emission Space and Water Heater Standards.

Item 3

Richard Chien, Advanced Projects Advisor at BAAQMD, provided a presentation on new Air District rules designed to reduce nitrous oxide pollutants and the Air Resources Board's outreach efforts in development of zero-emission appliance standards. The presentation included Air District authority and rule amendments, emissions and health benefits, the implementation working group efforts, and next steps.

The Committee discussed and commented on the information in the presentation, including the need for a focus on displacement of seniors who are living on the edge of affordability, addressing low income and costal residential resilience, training related to permitting, the need for retail outlets and contractors to help lead the transition before 2027, and outreach to renters so they know their rights.

Public comment included how the new Air District rules will help support the reach code effort, some of which have been rescinded, and an example of a successfully retrofitted multi-family unit in the San Mateo County.

8. Committee Member Updates

Member Sarah Hubbard provided some updated and event announcement for Sustainable San Mateo County.

Sean Charpentier, C/CAG ED, reminded the Committee of the \$60M MTC grant currently open and encouraged application. Charpentier also reminded the Committee that a recruitments letter for open seats on C/CAG committees will be going out shortly.

9. Next Scheduled Meeting Date: November 20, 2024

Meeting adjourned at approximately 5:07 P.M.

Note: All presentations are posted on the C/CAG RMCP Website at: <u>https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/</u>

Date:	November 20, 2024
To:	Resource Management and Climate Protection Committee
From:	Kim Springer, Committee Staff
Subject:	Approval of RMCP Committee meeting dates for January 2025 through January 2026.
	(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Review and approve RMCP Committee meeting dates for January 2025 through January 2026.

FISCAL IMPACT

None

SOURCE OF FUNDS

Funding for the RMCP Committee comes from C/CAG Congestion Relief Funds.

BACKGROUND/DISCUSSION

At the change of each calendar year, the Committee reviews and approves the meeting dates for the following calendar year. The RMCP Committee will continue to meet on third Wednesdays at 3:00, provided staff has enough business to conduct at the meeting.

Staff may cancel a meeting or shift a meeting date with notice to the committee and the public. Meetings will continue to be held in person for Committee members and the public who wish to attend, and hybrid for those who wish to attend or present remotely. It is anticipated that the Committee will continue to meet in person at the 155 Bovet Rd., ground floor conference room in San Mateo or, as an alternate, at a County Center conference room in Redwood City. Committee members and the public should review the agenda for the meeting location.

The following dates are those recommended for the RMCP Committee in calendar year 2025, and the date for January 2026. Once approved, staff will update the C/CAG RMCP website and provide Committee members calendar appointment holds. The document, to be posted on the C/CAG RMCP Committee website, is provided as an attachment to this staff report.

Proposed Meeting Dates January 15, 2025 February 19, 2025 March 19, 2025 April 16, 2025 May 21, 2025

Item 4

June 18, 2025 July 16, 2025 August 20, 2025 September 17, 2025 October 15, 2025 November 19, 2025 December – no meeting January 21, 2026

ATTACHMENTS

1. 2025 RMCP Committee Meeting Dates - for website posting

2025 RMCP Committee Meeting Dates:

January 15, 2025	July 16, 2025
February 19, 2025	August 20, 2025
March 19, 2025	September 17, 2025
April 16, 2025	October 15, 2025
May 21, 2025	November 19, 2025
June 18,2025	December – no meeting
	January 21, 2026

For meeting locations, please refer to the posted agenda for the above meeting at: https://ccag.ca.gov/committees/resource-management-and-climate-protection-committee/

Date:	November 20, 2024
To:	Resource Management and Climate Protection Committee
From:	Bill Chiang, Committee Member, PG&E
Subject:	Presentation on the Diablo Canyon Nuclear Power Plant and its role in supporting the California energy transition.
	(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive a presentation on the Diablo Canyon Nuclear Power Plant and its role in supporting the California energy transition.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The clean energy transition means shifting energy production away from sources that release a lot of greenhouse gases, such as fossil fuels, to those that release little to no greenhouse gases. Nuclear power, hydro, wind and solar are some of these clean sources.

As of mid-2012, California had one operating nuclear power plant, the Diablo Canyon Nuclear Power Plant near San Luis Obispo. PG&E owns the Diablo Canyon Nuclear Power Plant, which consists of two units: a 1,073-megawatt reactor, which began commercial operation in May 1985, and a 1,087-megawatt reactor, which began commercial operation in March 1986. This power plant near Avila Beach in San Luis Obispo continues to operate after a plan to decommission both reactors in 2024 and 2025 respectively, based on SB 846, which provided for an extension of the operation of the facility.

The facility provides a steady source of electricity, 8-10% of the needs of the State of California. California also purchases nuclear power form other states such as Arizona and Nevada. The following is a look at California's energy supply on a typical fall day:

Current supply

Current renewables Renewables
 67.2% (17,067 MW) Natural Gas
 14.7% (3,738 MW) Solar 86.3% (14,735 MW) Wind 6.0% (1,023 MW) Imports 5.0% (1,265 MW) Batteries (charging)
 0.0% (-4,611 MW) Biogas 0.9% (160 MW) Nuclear 8.9% (2,263 MW) imall hydro 0.8% (139 MW) Coal
 0.0% (0 MW) Other 0.0% (0 MW)

Dylan George, PG&E Government Affairs Representative for Diablo Canyon Powerplant, will provide a presentation on the facility, its current operation, and how it's electricity production supports the clean energy transition in California.

A link to the California Independent System Operator website, which provides regularly updated information on electrical supply, sources, and demand, as well as a link to the PG&E website for the Diablo Canyon facility, are provided as attachments to this staff report.

ATTACHMENTS

- 1. Link to CAISO Electricity Supply Outlook: <u>https://www.caiso.com/todays-outlook/supply</u>
- 2. Link to PG&E website on Diablo Canyon Nuclear Power Plant: https://www.pge.com/en/about/pge-systems/nuclear-power.html

Date:	November 20, 2024
То:	Resource Management and Climate Protection Committee
From:	Kim Springer, Committee Staff
Subject:	Presentation on Peninsula Clean Energy's load and energy supply mix.
	(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive a presentation on Peninsula Clean Energy's load and energy supply mix.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

Peninsula Clean Energy (PCE) is a joint powers agency formed as a Community Choice Aggregation (CCA) program by San Mateo County and all 20 of its cities and towns in 2016. PCE, as the community-led electricity provider for San Mateo County and for the City of Los Banos, is focused on providing clean electricity at lower prices than PG&E and investing proceeds back into the community. PCE has the flexibility and local control to use innovative options in purchasing and generating electricity for residents and businesses, and a Power Resources Team with a goal of continuing to provide energy that is 100% clean and that will be 100% renewable by 2030. The following chart shows PCE's 2023 energy mix:

2023 Energy mix

Energy resources	2023 ECOplus	2023 ECO100 100%	2022 CA power mix 35.8%
Eligible renewable ¹	51.7%		
-Biomass & biowaste	0.0%	0.0%	2.1%
-Geothermal	14.4%	0.0%	4.7%
-Eligible hydroelectric	1.0%	0.0%	1.1%
-Solar	17.1%	50%	17.0%
-Wind	19.3%	50%	10.8%
Coal	0.0%	0.0%	2.1%
Large hydroelectric	48.3%	0.0%	9.2%
Natural gas	0.0%	0.0%	36.4%
Nuclear	0.0%	0.0%	9.2%
Other	0.0%	0.0%	0.1%
Unspecified power ²	0.0%	0.0%	7.1%
Total	100%	100%	100%
Percentage of retail sales covered by retired unbundled RECs ³	0%	0%	

¹ The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.

² Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
³ Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.

15

Mehdi Shahriari, Planning and Analytics Manager at PCE, will provide a presentation on PCE and its effort to source and procure energy resources for PCE's approximately 97% of electricity customers in San Mateo County.

Links to PCE's power mix and power sources pages are provided as attachments to this staff report.

ATTACHMENTS

- 1. Link to PCE's power mix webpage: <u>PCE Power Mix page</u>
- 2. Link to PCE's power sources webpage: <u>PCE Power Sources page</u>

Date:	November 20, 2024
То:	Resource Management and Climate Protection Committee
From:	Lewis Fulton, UC Davis
Subject:	Presentation on The Alliance for Renewable Clean Hydrogen Energy Systems, a California's initiative to accelerate renewable hydrogen projects.
	(For further information contact Kim Springer at kspringer@smcgov.org)

RECOMMENDATION

Receive a presentation on the (ARCHES), a California's initiative to accelerate renewable hydrogen projects.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

The Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) Hydrogen Hub, also known as the California Hydrogen Hub, is a statewide initiative aimed at developing a network of clean, renewable hydrogen production sites across California, with the primary goal of decarbonizing heavy-duty transportation sectors like trucking, public transit, and port operations by utilizing hydrogen as a fuel source, significantly reducing carbon emissions across the State. Funded by the federal government via the U.S. Department of Energy (DOE), ARCHES announced the official signing of a \$12.6 billion agreement to build a clean, renewable Hydrogen Hub in California, including the up to \$1.2 billion in federal funding that was announced last year when California was selected as a national hub. ARCHES was the first of seven Hydrogen Hubs throughout the country to officially sign their agreement with the DOE.

ARCHES will serve three large ports with over 200 pieces of cargo-handling equipment, fund some 5,000 fuel-cell-electric trucks, 1000 fuel-cell-electric busses, a marine vessel, stationary generation, and both fueling stations and pipelines.

Besides reducing GHG emissions, the effort is expected to create 200,000 new jobs, savings from better health and health cost savings, and 40% of the funding will flow to disadvantaged communities through investments, workforce development, and jobs.

Lew Fulton, Director of Energy Futures Program at UC Davis and Chair of the ARCHES Transportation Working Group, will provide a presentation on the ARCHES project. A link to the ARCHES website is provided as an attachment to this staff report.

ATTACHMENTS

1. Link to ARCHES website: <u>https://archesh2.org/</u>