# C/CAG

### CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

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### **Agenda**

Resource Management and Climate Protection Committee (RMCP)

Date: Wednesday, July 18, 2018
Time: 2:00 p.m. to 4:00 p.m.
Location: 455 County Center, 4<sup>th</sup> Floor, Room 402
Redwood City, CA 94063

- 1. Introductions
- 2. Public Comment
- 3. Approval of Minutes from June 27, 2018 Committee meeting (Kim Springer Committee Staff)

Action

4. Update on Governor's Global Climate Action Summit and Affiliate Event

(Kim Springer – Committee Staff) Discussion

5. Presentation on Addressing the Split Incentive with Integrated Approaches to Deep Energy Retrofits and Green Leases

(Derek Hansen, Mynt Systems) Presentation, Discussion

6. Update on San Mateo County Energy and Water Strategy 2025

(Kim Springer – Committee Staff) Discussion

7. Report on Office of Ratepayer Advocates Application for Rehearing of CPUC Decision and C/CAG's possible response

(Kim Springer – Committee Staff) Discussion

- 8. Committee Member Updates
- 9. Next Meeting Date: August 15, 2018

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### Resource Management and Climate Protection Committee (RMCP)

### Minutes of June 27, 2018 Meeting

### In Attendance:

Maryann Moise Derwin, Committee Vice Chair, Mayor Portola Valley\*
Diane Papan, Councilmember, San Mateo\*
Pradeep Gupta, South San Francisco City Council\*
Rick DeGolia, Town of Atherton\*
Bill Chiang, PG&E\*
Dave Pine, County Supervisor\*
Terry Nagel, SSMC Board Member\*
Robert Cormia, Professor Foothill-DeAnza\*
Adrianne Carr, BAWSCA\*
Sandy Wong, C/CAG
Kim Springer, County Office of Sustainability
John Allan, County Office of Sustainability
Malini Kannan, Clean Coalition
Justine Burt, Clean Coalition

### Not in attendance:

Deborah Gordon, Committee Chair, Woodside Town Council\* Don Horsley, County Supervisor\* Ortensia Lopez, El Concilio of San Mateo County\*

- 1. Introductions
- 2. Public Comment No public comments
- 3. Approval of Minutes from February 21, 2018, March 21, 2018, and April 18, 2018 Committee meetings.
  - o February 21, 2018 Minutes
    - Motion to approve Gupta/ Second DeGolia
    - No objections/abstentions
  - o March 21st, 2018 Minutes

PUBLIC NOTICING: All notices of C/CAG Board and Committee meetings are posted at: San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA.

<sup>\*</sup> Committee Member (voting)

- Motion to approve Carr/ Second Papan
- Bill abstains
- o April 18<sup>th</sup>, 2018 Minutes
  - Motion to approve Gupta/ Second Carr
  - Bill Abstains

# 4. Presentation - Peninsula Advanced Energy Community Phase 1 delivered and proposed Phase 2.

Clean Coalition presented on Peninsula Advanced Energy Community CEC Grant (PAEC), Clean Coalition just completed final report which included the following:

- Looking at how to deploy 25mW of energy in southern SMC
- Findings from CEC for 21-month project
- How to accelerate deployment and development
- Co-benefits of energy efficiency, renewables, EV charging infrastructure, ZNE, energy storage, cost savings, minimizing new infrastructure, and integration with grid.
- Look at existing building stock, not just new construction

Southern SMC has 65MW of solar potential despite being a highly-developed area with dense tree canopy, include parking lots, schools, and parking structures. All sites identified have 100kw potential or more. In terms of emergency microgrids, key sites are hospitals, EMS, ICUs, etc.

Some key challenges are: life cycle cost assessments, which should be NPV positive, capital vs. operating costs, split incentives, falling renewables prices not falling quickly enough, need for economies of scale, limited financing programs, a "swiss cheese landscape" that doesn't serve everyone

There are also policy challenges, which include inconsistent permitting and cumbersome interconnection approval processes.

### PAEC key findings:

- potential projects are being ignored for better payback
- modeling of project bundling found significant IRR (~18-22%)
- model ordinances, vetting with NPV positive, could be shared with municipalities to make the process easier
- On Bill Financing is great to public and commercial buildings, but what about residential?
- Policy is needed to help streamline interconnection/permitting. Clean Coalition is working with PGE to streamline the process.
- Energy Storage is a newer technology but prices are coming down quickly.

**Gupta** – Are the results based on today's prices or anticipated costs?

**Burt** – This is a 21-month project so prices may have fluctuated but I'm sure the numbers are up to date. However, verify data on clean-coalition website

**Cormia**— What's the possibility of getting GIS students more involved? Burt - It would be great to see other students getting involved.

Springer – In packet, you will find link to CC website, dozens of reports to go through, each with great new insight.

Malini Kannan, Clean Coalition Program Engineer, continued the presentation with a PAEC Master Community Design, which was the final task in the grant. The Design is intended to put together findings of the first 9 tasks and identifies several project sites in Redwood City and is called the Redwood City Community Microgrid, which includes a diverse set of use cases:

The Designed core sites are proposed to include: solar emergency grid, community microgrids, or largescale EV charging deployment, with the project aiming to bring resilience to the community and municipal sectors.

The key findings we that it makes sense to:

- bundling project for lower cost and bankability
- solar + storage is feasible
- involves looking at facility and right sizing power for critical loads.
- design microgrids for building that already have EE projects
- integrating batteries with EV charging is cost effective which helps reduce demand charges.

Cormia - Analysis at Foothill shows for every 14 cars at demand charge is \$1000. Cost comes to \$10/charging day

Kannan - Was energy storage required or considered? Often, daytime EV charging profile shows a peak at 9, but then trickles down. A campus scenario is probably different.

Sites where solar, storage and EVCI will be installed in redwood city includes community microgrids, combining multiple meters into one. It's easier to do these projects behind the meter. When more than one meters are combined, there is more red tape. CPUC code makes this difficult.

The proposed approach is that sites are only connected during grid outages, and the Clean Coalition is working with PGE to develop pilot project.

Gupta – A microgrid is defined as a group of loads that can be separate. Usually just one connection. Has this design been done on paper or has it been approved on PGE? Where is it? Kannan - Partially, let's skip ahead and look at the Phase 2 projects.

The Phase 2 projects include:

- deploying 1.2 mw of solar interconnected using PGE tariff NEM2
- behind the meter
- potential for 2.1mw in addition.
- additionally, 2.8 mw hours of battery storage.

Please see PAEC Project website for further details on individual projects: <a href="http://www.clean-coalition.org/our-work/peninsula-advanced-energy-community/">http://www.clean-coalition.org/our-work/peninsula-advanced-energy-community/</a>

# 5. Bay Area Water Supply and Conservation Agency update on current water supply and conservation.

Adrianne Carr presented on the current water supply conditions and groundwater basin reprioritization in San Mateo County.

At this time, the System is full, with the only reservoir that isn't full being calaveras which is under construction. Hetch Hetchy precipitation is just below a median year and the snowpack got up to 75% of median but is fully melted at this point. Up-country – precipitation: March was huge which brought it up to just under the average, and the same is true with bay area stations.

SFPUC water deliveries we're still under 2017 deliveries and conservation continues. BAWSCA total water use is still 26% less than 2013 and conserving water.

In terms of new conservation legislation, is requiring that water suppliers calculate and report use, conduct annual assessments, comparing target to actual use. First reporting will be in 2023, and the target includes indoor/outdoor residential, efficient outdoor water use, water loss, and a potable reuse credit. Most agencies (especially in Bay Area) are far below target of 55 gallons/person daily.

**Derwin** - What about communities like bear gulch which use a lot of water? **Carr** - There are estimates related to the amount of irrigable land which will be considered. The DWR is responsible for giving each agency a number and there will likely be an opportunity to respond

In terms of enforcement, the actions will be in the form of:

- 2023, information orders,
- 2024, written notice,
- 2025, conservation orders.

In terms of implementation deadlines:

- 2020, DWR to recommend standards and provide irrigable water data
- 2021, outdoor residential to SWRCB
- 2022, state board adopts standards
- 2023, first reporting.

BAWSCA is currently revising conservation strategic plan. The workplan includes a consultant contracts for water loss management program, an indoor-outdoor water use study for some agencies that need more help, and a starting pilot program for commercial and Industrial audits.

Recently, DWR reprioritized groundwater basins, based on new data in CASGEM. Older data was used for original rankings back in 2014, and they used a more standardized way to evaluate basins, (water quality, pumping). In San Mateo County, the new method proposed Medium and High priority for San Mateo Plain and Westside Basin, and Half Moon Bay Terrace, respectively.

Kannan – What is efficient water loss?

Carr - each agency must report loss; the state will make a ruling on what is considered efficient. This includes leaks on utility/agency side.

# 6. Update and discussion on San Mateo County Energy Strategy 2025 content, DNV GL scope of work, stakeholder assignment effort, and project schedule

Kim Springer gave an update on continuing progress of launching the update of the San Mateo County Energy and Water Strategy 2025. The original Strategy was written by the USTF task force in 2006 to 2008. This time around, the RMCP Committee will receive updates and review the text of the document, but the stakeholder work will be completed outside of the Committee. Staff will insure additional levels of stakeholder review.

Springer presented updates to the stakeholder lists for both Energy and Water and presented the proposed launch date for the first joint stakeholder meeting to be on July 26.

Springer suggested that Goals, Actions, and then Strategies was the form of the original document and asked the Committee if this should be the same approach for the 2025 update.

**Gupta - t**he framework is fine, topics are necessary to help our understanding but given PCE community programs, Clean Coalition and CEC grants, intercity/ community projects, there should be an action plan or suggested action plan.

**Springer -** This report is a transition. We should look back to where we were and look to where we're going. In this report, buildings are a larger player. (plus, the CCA). We also focused little on transportation in the last report. An action plan is a good idea.

The DNV GL Scope of Work to the support this project was approved. The scope proposed a framework for High level activities. (Please see presentation)

In terms of outreach already completed: there was a presentation to RICAPS a few months ago, then a presentation to the C/CAG board, and presentation to RICAPS at PCE again last month. The RICAPS presentation was structured so PCE outlined strategy to meet goals such as demand response or electrification, and PCE could outline objectives important to PCE and what their timeline looks like.

This project is an opportunity to bring that all together but we've got a long way to go.

Nagel - will this include WWTP and SLR, as well as portable water and energy generation?

Springer – Energy water nexus is to be included, but Adaptation is very broad. In terms of SPR and flooding, etc., there's another CCAG committee working on that. But we could and probably should include threats to infrastructure and possible energy implications, such as relocating WWTPs.

Kannan – Has energy resilience come up?

Springer – Microgrids are included.

Derwin – So when is the launch meeting, the first of eight?

Springer – Tentatively July 26<sup>th</sup>

Maryanne – First meeting will be the both stakeholder groups, following meetings will be separate. Gupta – It may not be related but I see some related issues with SLR, namely given water quality control plants, which focus on gravity control. I see potential to focus on how flow will be maintained. Longer team project but hugely important given land requirements and technical complexity.

Carr – There's a "living levy" project which protects WWTP from SLR and provides storm and flood protection.

### 7. Report on State Energy Efficiency Collaborative Forum

Kim Springer reported that the State Energy Efficiency Collaborative Forum was the previous week (SEEC), that therefore the Committee meeting is always pushed to the fourth week in June. This year there was great concern over the recent CPUC decision, which will affect SMC Energy Watch program, but that staff is still unsure how much in 2019.

An opening meeting was with PGE to be brought up to speed on potential changes, mainly caused by the CPUC's adopted higher cost effectiveness requirement, the TRC. The TRC is the equation that the CPUC used to determine cost effectiveness of EE programs. The adopted, higher, TRC will have effect on types of customers served by programs. PGE has portfolio of different programs (DI, LGP, Industrial, residential) which must meet TRC requirement.

CY 2019 will be a transition year and there are many unknowns in terms of programs, post CY 2019. PG&E offered three possible scenarios that LGPs could consider: resource focused, non-resource focused, or hybrid, the latter being the current form of the SMCEW program.

It is expected that the LGPs will start working more closely to address challenges caused by the CPUC decision.

Springer provided a sampling of SEEC conference sessions: Regulations and Legislation Impacting Local Government Energy Programs, Partnering with Chambers of Commerce to Reach the Business Community, EE Incentive Programs: Evolving Policy Requirements and Challenges, and Youth Engagement for Climate Action Implementation:

### 8. Committee Member Updates

Cormia - Foothill De Anza college district is preparing new facilities master plan. Huge insight on emissions. Emissions in 2017 were same as 1990 levels. 80% of residual energy was going to cogens. FDCCD can reach 80% below 1990 levels by swapping out boilers. They want to commit to becoming carbon free by 2030. Not going out for bond this November, but still on that path. Urges us to think about at what point as a region do we want to make those big commitments and be a

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demonstration project for the region

9. Next Meeting Date: July 18, 2018

Meeting was adjourned.

**Date:** July 18, 2018

**To:** Resource Management and Climate Protection Committee

From: Kim Springer, RMCP Committee Staff

**Subject:** Update on Governor's Global Climate Action Summit and Affiliate Event

(For further information contact Kim Springer at 650-599-1412)

### **RECOMMENDATION**

Receive an update on Governor's Global Climate Action Summit (GCAS) and affiliate event being hosted by Joint Venture Silicon Valley and C/CAG.

### **FISCAL IMPACT**

Staff time is paid for by funding for RMCP from Congestion Relief funds.

### **BACKGROUND/DISCUSSION**

At the February 21, 2018 RMCP Committee meeting, the Committee suggested that staff move forward with sending a letter from the C/CAG Executive Director to the cities, the County, and SAMCEDA, to collect information to use to build a case for C/CAG and San Mateo County to have a role in the Governor's Global Climate Action Summit 2018.

C/CAG sent a letter to SMC cities asking that they provide actions taken by cities toward climate action, and green tech leading companies in each city be provided to C/CAG. Staff received only a few letters.

The event is invitation only, however, the Summit developers have provided an opportunity for "Affiliate" events. Though the County and C/CAG did not propose to host and Affiliate Event, Joint Venture did, and is work with staff to develop an event.

Staff will provide an update and additional information on the Summit.

### **ATTACHMENTS**

Climate Mayors GCAS Slides



# Global Climate Action Summit Update

- Global Climate Action Summit taking place September 12<sup>th</sup> -14<sup>th</sup> in San Francisco, CA
- C40-hosted GCAS webinar: Wednesday, July 11<sup>th</sup> @ 10:00 AM PST
- Resources
  - globalclimateactionsummit.org
  - www.thehumsum.org
  - @gcas2018 #StepUp2018
- Questions? Contact Laura Jay at <u>ljay@c40.org</u> or gcas@c40.org

Commitment	What cities are committing to?	How cities can join?	Questions?
Paris-compatible Climate Action Plan Commitment	Developing by end of 2020 a Paris-compatible inclusive climate mitigation and adaptation plan. Austin, Boston, LA, NYC, Philadelphia, Portland, San Francisco, & Washington DC already committed	Sign commitment letter or register own plan on One Planet Charter webpage	
Green and Healthy Streets	Procuring only zero-emission buses from 2025, and ensuring a major area of their city is zero emission by 2030. LA & Seattle already committed	Sign declaration or register own commitment on One Planet Charter webpage	Email Laura Jay at ljay@c40.org or gcas@c40.org
Net Zero Carbon Buildings Commitment	Enacting regulations or planning policy to ensure new buildings are net zero carbon by 2030 (all buildings by 2050). Signatories encouraged to report on emissions beyond carbon	Sign commitment or register own commitment on the One Planet Charter webpage	

Commitment	What cities are committing to?	How cities can join?	Questions?	
Advancing Towards Zero Waste Declaration	Reducing municipal solid waste per capita by 15% by 2030 compared to 2015; municipal solid waste landfilled or incineration by 50% by 2030; increasing diversion rate to least 70% by 2030	Sign declaration or register own commitment on the One Planet Charter webpage		
Achieving an Equitable Low- carbon Transformation	Increasing action on community-led development, inclusive climate action & infrastructure projects that benefit low-income and vulnerable communities	Mayors invited to publicly express their pledge to deliver inclusive climate action before or during GCAS	Email Laura Jay at ljay@c40.org or gcas@c40.org	
Towards 100% Renewable Energy	Moving towards 100% renewable electricity (city-wide) by 2035, and 100% renewable energy by 2050	Join Go Renewable global campaign or Sierra Club Ready for 100 initiative or register own commitment on the One Planet Charter webpage		

	Tuesday 11			
	September	Wednesday 12 September	Thursday 13 September	Friday 14 September
			MAIN SUMMIT DAY	MAIN SUMMIT DAY
	C4o Mayoral Media and Social media interviews - all day	C40 Mayoral Media and Social media interviews - all day	C40 Mayoral Media and Social media interviews - all day	C40 Mayoral Media and Social media interviews - all day
			C40 Press Conference Time: Morning Location: Moscone Center	<b>C40 Press Conference</b> Time: Morning Location: Moscone Center
			Affiliate Events all day	Affiliate Events all day
			C4o and Climate Mayors Breakfast Reception Time Approx: 7:30-8:45	HIGH LEVEL PARALLEL SESSIONS Time: Approx. 9:00am – 10:30am Location: Moscone Center
Overview of GCAS		Affiliate Events all day	GCAS OPENING PLENARY Time: Approx. 9:00 am — 12:00pm	There will be 5 sessions on key cross-cutting themes which will run in parallel.
program	Affiliate Events all day	Allimate Events all day	Location: Moscone Center	GCAS CLOSING PLENARY Inc. Call to Action to National Governments Time: Approx. 10:30am — 1:00pm Location: Moscone Center
			<b>LUNCHEON</b> Time: Approx. 12:00pm — 1:30pm Location: Moscone Center	LUNCHEON Time: Approx. 1:00pm – 2:30pm Location: Moscone Center
GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY		Cities4Climate: The Future is Us! C40 and GCoM Time: 12:45pm — 4:00pm Location: San Francisco City Hall	HIGH LEVEL PARALLEL SESSIONS  Time: Approx. 1.3opm – 5pm Location: Moscone Center  The afternoon sessions are dedicated to the five Challenge Areas: Healthy Energy Systems, Inclusive Economic Growth, Sustainable Communities, Land & Ocean Stewardship,	END OF MAIN SUMMIT
CITIES CLIMATE LEADERSHIP GROUP		Opening Reception hosted by Bloomberg Philanthropies Time: TBC – Evening Location: Museum of Modern Art	Transformative Climate Investments	12



# Global Climate Action Summit Update

# <u>Potential</u> high-level topics to be covered in parallel sessions

- Mobility - Inclusive climate action

Energy - Food system

- Buildings - Financing/investment

- Waste - Resilience Natural Resources

- Just transition

C40-hosted GCAS webinar: Wednesday, July 11th @
 10:00 AM PST

**Date:** July 18, 2018

**To:** Resource Management and Climate Protection Committee

From: Kim Springer, RMCP Committee Staff

**Subject:** Presentation on Addressing the Split Incentive with Integrated Approaches to

Deep Energy Retrofits and Green Leases

(For further information contact Kim Springer at 650-599-1412)

### **RECOMMENDATION**

Receive a presentation on addressing the split incentive with integrated approaches to deep energy retrofits and green leases, for discussion.

### **FISCAL IMPACT**

Staff time is paid for by funding for RMCP from Congestion Relief funds.

### **BACKGROUND/DISCUSSION**

County staff recently participated in development of green lease language and best practices, under a CEC grant with Clean Coalition; the Peninsula Advanced Energy Community grant, the results of which were presented at the June Committee meeting.

In the development of the lease language, staff leveraged the experience of a company called Mynt Systems, which has had success selling and implementing retrofitting of large commercial buildings towards zero net energy. Mynt integrates lease negotiation with financial analysis and retrofit guidance and construction.

Derek Hansen, co-founder and CEO of Mynt Systems, will present his perspective on how to leverage this model approach to transition the as-built environment.

### **ATTACHMENTS**

None

**Date:** June 27, 2018

**To:** Resource Management and Climate Protection Committee

From: Kim Springer, RMCP Committee Staff

**Subject:** Update on San Mateo County Energy and Water Strategy 2025

(For further information contact Kim Springer at 650-599-1412)

### **RECOMMENDATION**

Receive an update on San Mateo County Energy and Water Strategy 2025, for discussion.

### FISCAL IMPACT

Staff time is paid for by funding under the C/CAG – PG&E Local Government Partnership (LGP) agreement and from Congestion Relief Funds for staffing of the RMCP Committee.

### BACKGROUND/DISCUSSION

At the February 21, 2018 RMCP Committee meeting, the Committee decided to move forward with an update to the San Mateo County Energy Strategy 2012 document, and there was discussion that the cycle of this and future updates may need to be more frequent (than 10 years).

At the March 21, 2018 RMCP Committee meeting, staff presented a draft workplan and time line for the San Mateo County Energy Strategy 2025 update project.

At the April 18, 2018 RCMP Committee meeting, staff presented two documents for review and discussion, a list of Guiding Principles for the project, and a comparison of the topics covered in the original energy strategy to what's proposed for the 2025 version. That document also included a list of proposed stakeholders. Both documents have been update, based on feedback received at the meeting and are provided as attachments to this staff report.

At the June 27, 2018 Committee meeting, staff provided the scope of work of DNV GL, who will support the stakeholder meetings and writing of the Energy Strategy. In addition, staff discussed proposed Energy Strategy content and update the Committee on the stakeholder list.

Staff will provide another update on progress on the project.

### **ATTACHMENTS**

None.

**Date:** July 18, 2018

**To:** Resource Management and Climate Protection Committee

From: Kim Springer, RMCP Committee Staff

**Subject:** Report on Office of Ratepayer Advocates Application for Rehearing of CPUC

Decision and C/CAG's possible response

(For further information contact Kim Springer at 650-599-1412)

### **RECOMMENDATION**

Receive a report on Office of Ratepayer Advocates (ORAs) application for rehearing of CPUC decision and C/CAG's possible response.

### FISCAL IMPACT

Staff time is paid for by funding under the C/CAG – PG&E Local Government Partnership (LGP) agreement and from Congestion Relief Funds for staffing of the RMCP Committee.

### **BACKGROUND/DISCUSSION**

The CPUC adopted Decision D.18-05-041 at the end of May 2018. This is the decision that defined the program administrators (PAs) for the rolling portfolio ratepayer programs, which starts in CY 2019. The San Mateo County Energy Watch local government partnership is one of these programs. It also established guidelines for administration of the ratepayer energy efficiency programs.

Among many other changes in the adopted Decision, is a change to the requirements for cost effectiveness, or the Total Resource Cost (TRC) of the PAs portfolios of programs and contracts providing energy efficiency services for the territories they serve. The TRC was raised from 1.0 to 1.25, however, before the proposed Decision was adopted, the CPUC relaxed this requirement, allowing it to be phased in over a few years.

Recently, the Office of Ratepayer Advocates filed an Application for Rehearing of the adopted Decision. ORA desires to have the higher TRC reinstated.

Staff will review the adopted decision, ORA's request for rehearing, and C/CAG's possible response to the Application for Rehearing.

### **ATTACHMENTS**

None