



City of Sunnyvale

Notice and Agenda - Final Sustainability Commission

Monday, August 21, 2017

7:00 PM

West Conference Room, City Hall, 456 W.
Olive Ave., Sunnyvale, CA 94086

CALL TO ORDER

SALUTE TO THE FLAG

ROLL CALL

PRESENTATION

- 1 [17-0801](#) PRESENTATION - Commissioner Presentation: Adaptation and Sea Level Rise

ORAL COMMUNICATIONS

This category provides an opportunity for members of the public to address the commission on items not listed on the agenda and is limited to 15 minutes (may be extended or continued after the public hearings/general business section of the agenda at the discretion of the Chair) with a maximum of up to three minutes per speaker. Please note the Brown Act (Open Meeting Law) does not allow commissioners to take action on an item not listed on the agenda. If you wish to address the commission, please complete a speaker card and give it to the Recording Secretary. Individuals are limited to one appearance during this section.

CONSENT CALENDAR

- 2 [17-0805](#) Approve the Sustainability Commission Meeting Minutes of July 17, 2017

Recommendation: Approve the Sustainability Commission Minutes of July 17, 2017 as submitted.

PUBLIC HEARINGS/GENERAL BUSINESS

- 3 [17-0817](#) Nomination of two Sustainability Commission Representatives to the Climate Action Plan (CAP 2.0) Advisory Committee (CAC)

Recommendation: Nominate two Sustainability Commission representatives to serve on the CAC.

STANDING ITEM: CONSIDERATION OF POTENTIAL STUDY ISSUES

- 4 [17-0741](#) Draft Study Issue: Encouraging Heat Pump Water and Space Heating
- 5 [17-0804](#) Potential Study Issue: Evaluating Vulnerability to Sea Level Rise

NON-AGENDA ITEMS & COMMENTS

-Commissioner Comments

-Staff Comments

ADJOURNMENT

Notice to the Public:

Any agenda related writings or documents distributed to members of this meeting body regarding any item on this agenda will be made available for public inspection in the Environmental Services Department located at 1444 Borregas Avenue, Sunnyvale or can be accessed through the Office of the City Clerk located at 603 All America Way, Sunnyvale during normal business hours and in the meeting location on the evening of the Sustainability Commission meeting, pursuant to Government Code §54957.5.

Agenda information is available by contacting Nupur Hiremath at (408) 730-7743. Agendas and associated reports are also available on the City's website at sunnyvale.ca.gov or at the Sunnyvale Public Library, 665 W. Olive Ave., Sunnyvale, 72 hours before the meeting.

Pursuant to the Americans with Disabilities Act, if you need special assistance in this meeting, please contact Nupur Hiremath at (408) 730-7743. Notification of 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. (28 CFR 35.160 (b) (1))



City of Sunnyvale

Agenda Item

17-0801

Agenda Date: 8/21/2017

PRESENTATION - Commissioner Presentation: Adaptation and Sea Level Rise



City of Sunnyvale

Agenda Item

17-0805

Agenda Date: 8/21/2017

SUBJECT

Approve the Sustainability Commission Meeting Minutes of July 17, 2017

RECOMMENDATION

Approve the Sustainability Commission Minutes of July 17, 2017 as submitted.



City of Sunnyvale

Meeting Minutes - Draft

Sustainability Commission

Monday, July 17, 2017

7:00 PM

West Conference Room, City Hall, 456 W.
Olive Ave., Sunnyvale, CA 94086

CALL TO ORDER

Chair Paton called the meeting to order at 7:02 p.m. in the West Conference Room.

SALUTE TO THE FLAG

Chair Paton led the salute to the flag.

ROLL CALL

Present: 6 - Chair Bruce Paton
Vice Chair Amit Srivastava
Commissioner Dan Hafeman
Commissioner Stephen Joesten
Commissioner Kristel Wickham
Commissioner Steven Zornetzer
Absent: 1 - Commissioner Petya Kisyova

Council Liaison – Jim Griffith (present)

PRESENTATION

1 [17-0738](#) Tour of Intelligent Transportation System 7 p.m. to 7:45 p.m.

Carmen Talavera, Senior Traffic Engineer, Department of Public Works, led a tour of the City's state-of-the-art Intelligent Transportation System, which uses real-time data to monitor traffic flows and minimize congestion in select parts of the City.

3 [17-0740](#) Commissioner Presentation - Best Practices on Funding CAP Implementation

Commissioner Wickham presented information on best practices on funding climate action plans (CAPs) taken from leading cities, drawing from the Urban Sustainability Directors' Network's (USDN's) Financing Sustainable Cities Scan and Toolkit. She presented an overview of funding sources, metrics considered when evaluating financing options, and future CAP funding options for the City.

Chair Paton opened the public comments.

Tim Oey, Sunnyvale resident and Commissioner on the Bicycle and Pedestrian Advisory Commission (BPAC), noted that much of the information in the presentation overlapped with BPAC's purview and that there should be opportunities for collaboration between BPAC and the Sustainability Commission, particularly for proposing Study Issues on related topics.

Elaine Marshall, Environmental Programs Manager, clarified that Commissions typically propose individual Study Issues following which staff may determine whether they should be combined. Chair Paton asked for additional clarification regarding whether Commissioners from BPAC and SC could collaborate if they each restricted themselves to less than four members.

Chair Paton closed the public comments.

ORAL COMMUNICATIONS

None.

CONSENT CALENDAR

2 [17-0744](#) Approve the Sustainability Commission Meeting Minutes of June 19, 2017

Vice Chair Srivastava moved, and Commissioner Zornetzer seconded, a motion to approve the consent calendar. The motion carried by the following vote:

Yes: 5 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Kisyova

Abstain: 1 - Commissioner Joesten

Commissioner Joesten abstained as he was not present at the June meeting (as his term did not commence until July 1, 2017).

PUBLIC HEARINGS/GENERAL BUSINESS

- 4 [17-0745](#) Nominate a representative to the El Camino Real Plan Advisory Committee (ECRPAC)

Chair Paton announced that Commissioner Kisyova had resigned from the Sustainability Commission effective July 26, 2017 due to a change in her primary residence to San Jose, which deems her ineligible to serve on the Commission. Given her role as the Sustainability Commission's nominated representative to the ECRPAC, the Commission would now need to nominate a new representative.

Nupur Hiremath, Sustainability Coordinator, clarified that there would be no restriction for the same nominated representative to serve on both the ECRPAC and the CAP 2.0 Advisory Committee unless otherwise determined by the Commission.

Commissioner Hafeman expressed his willingness to serve as the Commission representative if it did not preclude him from consideration for also serving as one of the representatives to the CAP 2.0 Advisory Committee.

Vice Chair Srivastava moved, and Commissioner Zornetzer seconded the motion, to nominate Commissioner Hafeman as a representative to the ECRPAC. The motion carried by the following vote:

Yes: 7 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Joesten
 Commissioner Kisyova
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

5 [17-0739](#) Election of Officers

Chair Paton opened nominations for the office of the Chair. Commissioner Zornetzer nominated Chair Paton to serve another term as Chair. Chair Paton accepted the nomination. Chair Paton closed nominations for the office of the Chair. The Commission voted as follows:

Yes: 6 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Joesten
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Kisyova

Chair Paton opened nominations for the office of the Vice Chair. Commissioner Hafeman nominated Vice Chair Srivastava to serve another term as Vice Chair. Vice Chair Srivastava accepted the nomination. Chair Paton closed nominations for the office of the Vice Chair. The Commission voted as follows:

Yes: 6 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Joesten
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Kisyova

STANDING ITEM: CONSIDERATION OF POTENTIAL STUDY ISSUES**6** [17-0743](#) Draft Study Issue: How to improve Traffic Flow through the City of Sunnyvale?

Commissioners Joesten and Hafeman noted that a study of traffic flows cannot be conducted without accounting for flow between Sunnyvale and its neighboring cities. Commissioner Zornetzer observed that the potential SI as proposed is already being addressed by the City's Intelligent Transportation System (ITS) that (toured earlier during this meeting) within the staffing and budget available. For these reasons, the Commission decided to drop this potential Study Issue.

7 [17-0741](#) Draft Study Issue: Encouraging Heat Pump Water and Space Heating

Commissioner Wickham outlined that the proposed Study Issue on heat pump technology would examine its costs, savings, incentives needed, and impacts on community and the environment. The Commission discussed how such a Study Issue could inform the development of incentives (e.g., streamlined permitting process, reduced permitting fees) to promote more widespread adoption of heat pump technologies.

Elaine Marshall shared that Silicon Valley Clean Energy (SVCE) is considering developing incentive programs, a pilot study, or model ordinance related to heat pump technology; staff will provide further information on SVCE's plan, when it becomes available in early August, to the Commission. Commissioner Wickham requested early staff feedback on the Study Issue.

Commissioner Hafeman moved, and Commissioner Joesten seconded, to sponsor the proposed Study Issues, pending further information on its overlap with SVCE's proposed programs or pilot studies. The motion carried by the following vote:

Yes: 6 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Joesten
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Kisyova

8 [17-0742](#) Potential Study Issue: Restricting speed limit to 30 mph or lower on all Sunnyvale Streets

Commissioner Hafeman explained that the motivation for this potential Study Issue was that Sunnyvale is the only City where the speed limit on El Camino Real is 40 mph. The proposed Study Issue would examine the impact of lowering the speed limit to 30 mph on all Sunnyvale streets and arterials to make the streets safer for bicyclists and pedestrians.

Commissioner Wickham inquired whether the ECR Corridor Plan considered modifications to speed limits.

Chair Paton opened the public comments.

Tim Oey, Sunnyvale resident, noted that in addition to the streets previously noted by Commissioner Hafeman, Fremont Ave and Mathilda Ave south of El Camino also have speed limits of 40 mph.

Chair Paton closed the public comments.

Commissioner Hafeman asked for preliminary staff feedback on this potential Study Issue and requested that the potential Study Issue be added to the August meeting agenda for further discussion.

New Potential Study Issue Topics

Chair Paton moved, and Commissioner Wickham seconded, a motion to add a discussion of a potential Study Issue to examine sea level rise impacts on Sunnyvale to the August meeting agenda. The motion carried by the following vote:

Yes: 6 - Chair Paton
 Vice Chair Srivastava
 Commissioner Hafeman
 Commissioner Joesten
 Commissioner Wickham
 Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Kisyova

Chair Paton also volunteered to give a Commissioner Presentation on Sea Level Rise at the August meeting.

NON-AGENDA ITEMS & COMMENTS**-Commissioner Comments**

Commissioner Zornetzer announced that the second Sustainability Speaker Series event, a talk on electrification of transportation systems by Rod Diridon, Sr., would be held on August 2, 2017 at 7:00 p.m. in Council Chambers.

Commissioner Hafeman commented that the new Google Headquarters construction along Stevens Creek trail appeared to be built below the level of anticipated sea level rise. Commissioner Zornetzer noted that Google's strategy is to mitigate sea level rise itself and is planning to add nearly 11 feet of fill dirt.

Commissioner Wickham reported that she went to an informative talk by Paul Hawken, author of Drawdown, on the top 100 solutions to climate change; she shared that it was her intention to review and rank the 100 solutions as they apply to Sunnyvale. She also shared that she attended the Silicon Valley Energy Summit at which alternate models for investing in energy and transportation were discussed.

Vice Chair Srivastava reported that the City's State of the City event on July 29, 2017 would have a Meet-and-Greet event for Commissioners.

-Staff Comments

Councilmember Griffith announced that the Chief Executive Officer (CEO) of SVCE was leaving September 1, 2017. The SVCE Board is identifying an Interim CEO and will be recruiting for a permanent replacement.

Nupur Hiremath provided feedback that while the Sustainability Commission may not be able to play a formal role in guiding the 2017 Study Issue on Housing Strategy (CDD 17-09), staff would share the results of the Study Issue with the Commission when available.

Ms. Hiremath also reported that the City had begun soliciting applications for the CAP 2.0 Advisory Committee and that Sustainability Commission would need to nominate two representatives to this Advisory Committee in August. Commissioners who were not nominated as Commission representatives may apply in another category; however, the Council Subcommittee tasked with appointing members will be looking for individuals with diverse backgrounds to serve on the Advisory Committee.

Ms. Hiremath announced that the State of the City event would be held on July 29, 2017. The City also recently rolled out the new website, logo, and a Customer Relationship Management (CRM) system. Ms. Marshall shared that the new brand and logo is designed to convey a spirit of “bold sustainable innovation” thereby incorporating sustainability as part of the City’s core.

ADJOURNMENT

The meeting was adjourned at 9:40 p.m.



City of Sunnyvale

Agenda Item

17-0817

Agenda Date: 8/21/2017

REPORT TO SUSTAINABILITY COMMISSION

SUBJECT

Nomination of two Sustainability Commission Representatives to the Climate Action Plan (CAP 2.0) Advisory Committee (CAC)

BACKGROUND

The City's current Climate Action Plan (CAP), adopted in May 2014, outlines more than 130 actions for addressing community greenhouse gas (GHG) emissions. Based on the first biennial CAP Progress Report completed in 2016, the City is on path to meeting the State's 2020 GHG reduction target (15 percent below baseline emissions, which is equivalent to 1990 levels). However, the adopted CAP was not designed to meet the new State targets of a 40 percent GHG reduction below 1990 levels by 2030 and 80 percent reduction by 2050. Moreover, new approaches and technologies continue to emerge, which offer additional opportunities to modernize Sunnyvale's approach to climate action.

As a part of Council's 2017 Policy Priority, Accelerating Climate Action, the City has embarked on an initiative to update the CAP - the CAP 2.0 Initiative. The main goal of this Initiative is the development of a revised and more aggressive CAP that will contain guiding principles and key strategies designed to achieve or exceed the State's long-term greenhouse gas reduction targets.

To support the CAP 2.0 Initiative, the City Council approved the formation of a CAP 2.0 Advisory Committee (CAC) in June 2017. The CAC will play a key role in providing input and variety of perspectives during the development of CAP 2.0. The CAC will be responsible for reviewing information, providing feedback on key policy topics, recommending priorities, and representing the various interests of the community. The Council has approved the following composition of the committee (RTC 17-0592):

Type	Organization/Interest Group	No. of Members*
Residents	Residents	2
	Volunteer Community Group	2
Businesses	Large business	1
	Small business	1
	Real estate development or brokerage firm	1
Boards/ Commissions	Sustainability Commission	2
	Planning Commission	1
	Bicycle and Pedestrian Advisory Commission	1
Total		11

* Three alternate members will also be appointed to serve if selected primary members cannot participate.

EXISTING POLICY**COUNCIL POLICY MANUAL**

Policy 7.2.1: Community Engagement-Goals and Policies

Policy 7.4.13: Council Subcommittees and Council or Mayor-Created Advisory Task Forces

ENVIRONMENTAL REVIEW

The creation of the Community Advisory Committee does not constitute a “project” within the meaning of the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines section 15378 (b)(5) as it a government organizational or administrative activity that will not result in direct or indirect changes to the physical environment.

DISCUSSION

The CAC is intended to represent a broad cross-section of the community and provide a balance of perspectives. For this reason, the CAC includes representation from City Boards/Commissions in addition to residents and representatives of local businesses, volunteer groups, and real estate development or brokerage firms that operate in Sunnyvale. Recruitment is underway for the remaining categories and applications are due August 23, 2017.

The Sustainability Commission is requested to nominate two representatives to serve on the CAC during its August 2017 meeting. A Council Ad Hoc Subcommittee will review the nomination and make final member appointments in September 2017. Nominated representatives are expected to submit a CAC application form (Attachment 1) by September 1, 2017, to provide their background and experience for the Council Ad Hoc Subcommittee’s information.

The City anticipates the CAP 2.0 process to kick off in September 2017 and the first CAC meeting to be held in the last week of September 2017 or thereafter. The CAC will hold six to eight core meetings (and supplemental meetings, as needed) between September 2017 and December 2018. Members will need to allow two to three hours for the first meeting and then two hours for each regular meeting. A detailed schedule will be determined in September.

FISCAL IMPACT

Funding for the CAP 2.0 Initiative is included in Budget Supplement No. 6, Accelerating Climate Action, in the City Manager’s Recommended FY 2017-18 Budget. This funding will cover consultant costs for research, analysis and development of CAP 2.0 including supporting a robust community engagement effort, which includes costs for planning and facilitating CAC meetings.

PUBLIC CONTACT

Public contact was made through posting of the Sustainability Commission agenda on the City’s official-notice bulletin board, on the City’s website, and the availability of the agenda and report in the Office of the City Clerk.

RECOMMENDATION

Nominate two Sustainability Commission representatives to serve on the CAC.

Prepared by: Melody Tovar, Regulatory Programs Division Manager

Approved by: Kent Steffens, Assistant City Manager and Interim Director, Environmental Services

ATTACHMENTS

1. CAP 2.0 Advisory Committee Application Packet

Climate Action Plan (CAP 2.0) Advisory Committee

The City is inviting applications from Sunnyvale residents and representatives from local businesses, volunteer groups, and real estate development or brokerage firms that operate in Sunnyvale to serve on a community advisory committee for preparing an updated Climate Action Plan (CAP 2.0). Engaging the enthusiasm of our local community and the innovation of local technology companies along with the creative, can-do Silicon Valley spirit is integral to developing a plan that is aspirational, achievable, and adaptable. **Our vision for CAP 2.0 is a framework that includes bold, breakthrough ideas for our community generated by our community.** We encourage your contributions to this plan by applying to serve on the CAP 2.0 Advisory Committee.

MEMBERS

The Advisory Committee will play a key role in providing input and a variety of perspectives during the development of CAP 2.0. Members will be appointed by a Council Subcommittee and will represent a broad cross-section of interests in our community. Three alternate members will also be appointed to serve if selected primary members cannot participate.

Group	No. of Members
Residents	Residents
	2
	Volunteer Community Group
	2
Businesses	Large business
	1
	Small business
	1
	Real estate development or brokerage firm
	1
Boards/ Commissions	Sustainability Commission
	2
	Planning Commission
	1
	Bicycle and Pedestrian Advisory Commission
	1
Total	11

SUNNYVALE'S CLIMATE ACTION EFFORTS

The City of Sunnyvale's Climate Action Plan (CAP), adopted in 2014, includes nearly 130 actions for reducing greenhouse gas (GHG) emissions. Although the CAP has set us on track to meet or exceed the State's 2020 GHG emissions reduction target, it was not designed to identify how more ambitious, longer term targets for 2030 and 2050 can be achieved through significant changes in lifestyle and emerging technologies. A new approach – CAP 2.0 – is needed to achieve bold greenhouse gas reductions for climate action in our community.



Sunnyvale

MEETINGS

The Advisory Committee will hold 6-8 core meetings (and supplemental meetings, as needed) between **September 2017 and December 2018**. A detailed schedule will be determined in September. Regular meetings will be approximately 2 hours long and members are expected to attend all meetings. Please note that members will not receive any financial compensation for their service.

HOW TO APPLY

We encourage interested individuals to apply!

Applications due by 5 p.m. on Wednesday, August 23, 2017.

Apply online at Sunnyvale.ca.gov, *News & Stories*, or pick up a paper application at the Sunnyvale Public Library, Community Center, or City Hall.

Return completed application in hard copy or electronic format to:

Nupur Hiremath, Sustainability Coordinator
505 W. Olive Ave., Suite 130
Sunnyvale, CA 94086
green@sunnyvale.ca.gov
408-730-7717

Thank you for your interest in participating on the Sunnyvale CAP 2.0 Advisory Committee!

CAP 2.0 PRIORITIES

Approximately 90 percent of Sunnyvale's emissions come from **energy** use and **transportation**. Harnessing emerging technology solutions and identifying innovative programs and policies to motivate behavior changes in these two sectors will be the key focus of the CAP 2.0 framework, while continuing to address emissions from all other sources.



Sunnyvale

Office Use Only

Date Received: _____

Received By: _____



Sunnyvale

CITY OF SUNNYVALE APPLICATION FOR CLIMATE ACTION PLAN 2.0 ADVISORY COMMITTEE (CAC)

Applications Deadline: Wednesday, August 23, 2017 by 5 p.m. PST.

Please complete this form and submit a signed copy (electronic signature accepted) to the City by the above deadline. Required fields are marked with *.

Electronic applications:

E-mail application form to: green@sunnyvale.ca.gov

Hard copy applications:

Deliver or mail application form to:

Nupur Hiremath
Sustainability Coordinator
505 W. Olive Ave., Suite 130,
Sunnyvale, CA 94086

Questions? Contact green@sunnyvale.ca.gov or (408) 730-7717.

****General eligibility requirements:*** Applicants must be ages 18 years or older. At least one of the eligibility criteria below must be true for all applicants. Please check all that apply:

- ☐ I live in Sunnyvale
- ☐ I own or represent a business in Sunnyvale
- ☐ I work for a real estate development or brokerage firm with business interests in Sunnyvale
- ☐ I am an active member of a non-profit or volunteer group that substantially focuses on Sunnyvale

Please print or type your responses to the following questions. If you need more space, you may attach an additional sheet.

1. *Name: _____
Last First

2. *Residence Address:

Street City ZIP

Applicant Name _____

3. *Mailing Address (if different from Residence):

_____	_____	_____
Street	City	ZIP

4. *E-mail address: _____

5. *Telephone Number: _____

6. How long have you lived and/or worked in Sunnyvale? _____

7. If you wish to be considered as a representative for a non-profit or volunteer group in Sunnyvale, please provide: the name and a brief description of the group you are affiliated with, specifying its stake in Sunnyvale. If not applicable, please respond with "N/A."

8. If you wish to be considered as a business representative, please provide: (a) the name and a brief description of the business you work for, specifying your business interests in Sunnyvale; and (b) number of employees in your business. If not applicable, please respond with "N/A."

Applicant Name _____

9. If you wish to be considered as a representative of a real estate development or brokerage firm in Sunnyvale, please provide: the name and a brief description of the firm you are affiliated with. If not applicable, please respond with "N/A."

10. *What relevant expertise, skills and experience would you bring to the CAP 2.0 Advisory Committee (CAC)? Examples: professional or personal expertise or knowledge of building energy use, transportation, land use planning, urban design or experience serving on a city or inter-city committee, board, or volunteer group such as a neighborhood association, Parent Teacher Association, etc.

Applicant Name _____

11. *Why are you interested in serving on the CAC?

12. *Regular attendance at CAC meetings is expected. The CAC will meet about 6-8 times between September 2017 and December 2018. Members need to allow 2-3 hours for the first meeting and then 2 hours for each regular meeting.

Meetings are tentatively scheduled to be held from 6:30 p.m. to 8:30 p.m. on the first and/or fourth Thursday of selected months. (Frequency may vary, with monthly or bi-monthly meetings through March 2018, and less frequent meetings thereafter).

Are you available on the first and fourth Thursday of each month at 6:30 p.m. to attend CAC meetings?

☐ Yes

☐ No

☐ Available only for first or fourth; please specify _____.

Applicant Name _____

If meetings need to be rescheduled, the City will accommodate Committee member availability to the extent possible. Please indicate your meeting schedule availability by checking all that apply:

Evening Days Available: ☐ Mon ☐ Tue ☐ Wed ☐ Thu

Meeting Start Times Available: ☐ 6 p.m. ☐ 6:30 p.m. ☐ 7 p.m. ☐ 7:30 p.m. ☐ 8 p.m.

Days/Times **NOT** available: _____

Your application is not complete until the section below has been completed and signed.

IMPORTANT NOTICE

Please note that all information provided on this form becomes public record after it is officially filed. Please do not include any information on this form that you do not want posted on the City's Website and the City's Official Roster.

I, _____ (please print), am interested in serving on the Sunnyvale Climate Action Plan 2.0 (CAP 2.0) Advisory Committee (CAC). I understand that the CAC will represent a variety of stakeholders in the City of Sunnyvale, and will act in an advisory capacity to City staff and consultants throughout the planning process. I also understand that the committee will not have approval authority over CAP 2.0.

I acknowledge that if selected, I will assume the responsibilities of this appointment and will not delegate my position to anyone else.

I have read and answered the questions on this application to the best of my ability.

Thank you for your consideration,

Signature

Date

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OPTIONAL SUPPLEMENTAL BACKGROUND INFORMATION

IMPORTANT NOTICE

Section 1233 of the California Government Code gives each applicant the opportunity to voluntarily indicate his/her identification on an application. The following information will be used by the City of Sunnyvale in conducting research and compiling statistical reports regarding the composition of advisory committee applicants. It is illegal to use this information to discriminate against, or give preference to, a person for appointment. This page is optional and will not be made a part of the application review process.

Pursuant to the Americans with Disabilities Act, the City of Sunnyvale will make reasonable efforts to accommodate persons with qualified disabilities. Do you request any special accommodations if selected to serve on the CAC?

Age:

- ☐ 18-24 years old
- ☐ 25-44 years old
- ☐ 45-64 years old
- ☐ 65 years old and over

Gender: _____

Name of employer, if any _____

What is your racial/ethnic background? (Check all that apply)

- ☐ **Asian or Pacific Islander:** All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands.
- ☐ **Black (not of Hispanic Origins):** All persons having origins in any of the Black racial groups of Africa.
- ☐ **Hispanic:** All persons of Mexican, Puerto Rican, Cuban, Central/South American, or other Spanish cultures, regardless of race.
- ☐ **Native American or Alaskan Native:** All persons having origins in any of the original peoples of North American, or who maintain cultural identification through tribal affiliation.
- ☐ **White (not of Hispanic Origin):** All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

Applicant Name _____

How did you hear of this opening? Check all that apply. This information will help us serve you better.

- | | |
|---|--|
| <input type="checkbox"/> City Website | <input type="checkbox"/> Neighborhood Association (specify name):
_____ |
| <input type="checkbox"/> City Public Hearing | <input type="checkbox"/> NextDoor |
| <input type="checkbox"/> Sustainable Sunnyvale e-newsletter | <input type="checkbox"/> Facebook |
| <input type="checkbox"/> City Manager Biweekly Report | <input type="checkbox"/> Email (specify source):
_____ |
| <input type="checkbox"/> Flyer posted at City facilities | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Sunnyvale Sun Newspaper | |
| <input type="checkbox"/> Word of Mouth | |

Thank you for completing this portion of your application. Please return it with your application.

17-0741

Agenda Date: 8/21/2017

2018 COUNCIL STUDY ISSUE

Draft Study Issue: Encouraging Heat Pump Water and Space Heating

BACKGROUND

Lead Department: Environmental Services Department

Support Department(s): Community Development Department

Sponsor(s):

Councilmembers: N/A

City Manager: N/A

Board/Commission: Sustainability Commission

History:

1 year ago: [Dropped/Deferred/N/A]

2 years ago: [Dropped/Deferred/N/A]

SCOPE OF THE STUDY

What are the key elements of the study?

- Identify costs and savings to city, developers, residents and businesses of purchasing and installing Heat Pump water heaters and HVAC space heating systems in a) New construction (Residential and Commercial), b) retrofit/replacement.
 - o Consider savings in permitting and construction for all-electric developments without gas connections.
 - o Consider both initial costs (which may be higher than gas options until adoption rates and volume increase) and expected savings over time especially if paired with rooftop solar PV.
- Identify benefits to community and environment. Significant reduction in building greenhouse gas emissions is expected as new and existing buildings move to electric heat pumps for water and space heating. If new developments go a step further and install 'all electric' appliances and systems, there is additional benefit of improved safety (no gas leaks or fumes or explosion risk), lower costs without a gas pipeline connection, and even more reduction in greenhouse gas emissions from not burning fossil fuels. There may be some downside for those who do not prefer to switch to electric/induction cooktops.
- Identify cost of a pilot study (perhaps in partnership with Silicon Valley Clean Energy) to offer rebates and/or reduced permitting fees to residents and businesses that choose heat pump technology for retrofits or small-scale new construction.
- Study cost of implementing a public outreach program (again in possible partnership with SVCE) to encourage planning ahead for water and space heating replacements and consider the benefits of heat pump technology.
- Benchmark and monitor progress of other cities in the region that have undertaken similar actions. Palo Alto, for example offers \$1500 rebate in its [Heat Pump Water Heater Pilot program](#)

<http://www.cityofpaloalto>.

Potential outcomes of this study:

- Decision to add a related action to the Climate Action Work Plan.
- Decision to run a pilot program for residential and commercial rebates or fee reductions for heat pump space and/or water heaters.
- Decision to update or create a City ordinance or policy (Green Building Code for example) that would incentivize or require developers to choose heat pump water heaters and/or space heating for new developments.

What precipitated this study?

Accelerating the Climate Action Plan is a Council Priority for 2017. The current Climate Action Plan does not address fuel switching in buildings. Considering that 100% greenhouse gas free electricity is now available through Silicon Valley Clean Energy, the burning of methane gas will now be the largest contributor to greenhouse gas emissions from the built environment. Fuel switching to electricity for the largest uses of energy in most buildings - space and water heating - will lead to a significant reduction. Tools such as an update to the Climate Action Plan and city ordinances could be used to encourage the switch to electricity in buildings. Heat pumps for water heating and space heating are highly efficient and increasingly cost effective as discussed by Pierre DelForge of the Natural Resources Defense Council in the first Sustainability Speaker Series event held May 31, 2017. The California Energy Commission is developing a Solar Photovoltaic Model Ordinance to help California cities interested in clean energy and climate leadership. This will encourage cities to adopt a local "reach" building energy code, helping pave the way toward zero-net energy (ZNE) homes. A listing of other cities that have already adopted ordinances that go beyond Title 24 requirements can be found here: <http://www.energy.ca.gov/title24/2016standards/ordinances/>.

Reference Attachments:

- CEC Model PV Ordinance Proposal 04-2017
- Letter to CEC from NRDC et. al. Comments on CEC Proposed Model Solar PV Ordinance and Proposal for a "Renewable Water Heating" Model Ordinance

Planned Completion Year: [2017/2018/2019]

FISCAL IMPACT**Cost to Conduct Study**

Level of staff effort required (opportunity cost): [Major/Moderate/Minor]

Amount of funding above current budget required: \$ [or enter \$0 if total expected funding is \$0]

Funding Source: [(select one) Will seek budget supplement or Will seek grant funding]

Explanation of Cost:

[Briefly explain the cost of study; including impact or workload and how any additional dollars will be used. Describe the level of complexity that will be required in order to complete a thorough, professional examination of the study issue and any effect this examination may have on existing workload and service level responsibilities.]

Cost to Implement Study Results

[(Select one) "No cost to implement.", "Unknown. Study would include assessment of potential costs.", "Some cost to implement."]

Explanation of Cost: [If there is some cost to implement, briefly explain potential costs of implementing study results. Note estimated capital and operating costs, as well as revenue/savings, include dollar amounts. If there is no cost to implement, delete this section.]

EXPECTED PARTICIPATION IN THE PROCESS

Council-approved work plan: [Yes/No]

Council Study Session: [Yes/No]

Reviewed by Boards/Commissions: [identify the B/Cs, full name, no acronyms]

STAFF RECOMMENDATION

Position: [Support/Drop/Defer/None]

Explanation: [Explain the staff recommendation position.]

[If additional departments support this paper, include those who need to review below and add to Legistar ATS sequence.]

Prepared By: [Name], [Title]

Reviewed By: [Name], Director, [Department]

Reviewed By: Walter C. Rossmann, Assistant City Manager [or] Walter C. Rossmann, Assistant City Manager

Approved By: Deanna J. Santana, City Manager



City of Sunnyvale

Agenda Item

17-0804

Agenda Date: 8/21/2017

Potential Study Issue: Evaluating Vulnerability to Sea Level Rise