



DATE: September 13, 2016

CATEGORY: Unfinished Business

DEPT.: Community Development

TITLE: **Environmental Sustainability Action Plan 3**

RECOMMENDATION

Adopt the Environmental Sustainability Action Plan 3 (ESAP-3) as a continuing road map for the City's sustainability initiatives for Fiscal Years 2016-17 through 2018-19, as shown in Attachment 1 to the Council report, and appropriate and transfer \$100,000 from the General Fund Reserve to the General Fund. (Five votes required)

BACKGROUND

The City Council adopted an original Environmental Sustainability Action Plan (ESAP) in March 2009 for Fiscal Years 2008-09 through 2010-11, to serve as a road map for achieving the City's short- and long-term sustainability goals. Subsequently, the Council adopted Environmental Sustainability Action Plan 2 (ESAP-2) in April 2012 for Fiscal Years 2011-12 through 2013-14. After ESAP-2, the Council adopted a communitywide Climate Protection Road Map (CPR) and Municipal Operations Climate Action Plan (MOCAP) as road maps for achieving the City's greenhouse gas reduction targets through 2050.

The Council Environmental Sustainability Committee (CESC) met on May 10, 2016 to provide feedback to staff on a Draft ESAP-3. The CESC identified their highest-priority actions, which were presented in a report to the City Council during a Study Session on June 14, 2016, as shown in Attachment 2.

For more information on how the ESAP-3 was developed, see Attachment 2.

ANALYSIS

While the overall focus of the City's sustainability program is to achieve Mountain View's short- and long-term greenhouse gas (GHG) reduction targets, the proposed ESAP-3 actions encompass the broader environmental sustainability spectrum.

The ESAP-3 actions are delineated as either “New” or “Existing.” The “Existing” actions are included to provide visibility into the broad array of sustainability-related initiatives already funded or under way. The ESAP-3 actions are further broken down over the three fiscal years by “Community” and “Municipal Operations,” and encompass a number of areas: climate change, energy, outreach, purchasing, transportation, waste, and water. Fiscal Years 2017-18 and 2018-19 contain fewer actions than Fiscal Year 2016-17 due to the uncertainty of future funding decisions.

Greenhouse Gas Emissions

At its July 13, 2016 meeting, the Silicon Valley Clean Energy Authority (SVCEA) Board of Directors voted to have the program’s “default” electricity product be 100 percent carbon-free. Based on this decision and new analysis, staff estimates that all of the “New” actions in ESAP-3, plus the estimated reductions from the City’s participation in the SVCE, could reduce emissions by approximately 191,000 MT CO₂e per year in 2050, or approximately 25 percent of the reductions needed to reach the City’s 2050 communitywide reduction target. Since the majority of the “Existing” actions are transportation-related, these could collectively result in somewhat significant emissions reductions beyond the 25 percent reductions produced by the “New” actions.

City Council Study Session Feedback

The City Council provided comments on the Draft ESAP-3. Staff evaluated the impact of the Council’s feedback and responded as summarized in the table below. Based on CESC and Council feedback, staff has shaded the actions in ESAP-3 (Attachment 1) deemed high-priority (“A list”). Staff anticipates being able to complete the A list actions, as well as Action 18, which need to be implemented to support other future actions. The remaining “New” actions (“B list”) will be completed if time and resources allow.

Council Comments	Staff Response
A. Develop City requirements for solar photovoltaic (PV) and electric vehicle (EV) installations in residential and nonresidential new construction and remodels.	Staff added No. 5.
B. As soon as it is available and ongoing, purchase 100 percent renewable energy for City operations through the SVCE Community Choice Energy (CCE) program.	Staff added No. 15, changed the wording of No. 29, and added No. 36.
C. Conduct a community GHG inventory in Fiscal Years 2016-17 and 2018-19.	Staff added No. 31.

FISCAL IMPACT

Most of the ESAP-3 actions are already funded in the Fiscal Year 2016-17 budget, or their cost can be absorbed within the budget. Staff is requesting funding for the following two actions as part of adopting ESAP-3, *noting that staff may not use the total requested amounts:*

- No. 6: Develop a plan and implement SVCEA and overall sustainability outreach and engagement programs targeting residents, businesses, and employees (\$65,000).
- No. 12: Explore the feasibility of installing solar PV systems at additional City facilities (\$35,000).

Other items may require additional funding during the year at the time action is taken on them.

ALTERNATIVES

1. Modify the proposed ESAP-3 by adding, removing, or changing the order of the actions, or do not adopt ESAP-3.
2. Do not provide funding as noted above and do not implement those actions.
3. Provide other direction.

PUBLIC NOTICING

Agenda posting and e-mails sent to community members interested in environmental sustainability.

Prepared by:

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Approved by:

Randal Tsuda
Community Development Director

Daniel H. Rich
City Manager

SA-TB/7/CAM
810-09-13-16CR-E

Attachments: 1. Environmental Sustainability Action Plan 3
2. [June 14, 2016 City Council Study Session Memo](#)

cc: ACDD/PM, APWD – Solomon, CBO, PP, ZA, TBM, FFM, SWPM, PSSM, PCE –
Au, CTE, STE – Lopez, STA, POSM, AP – Hagan

Environmental Sustainability Action Plan 3 - 2016-2019

FY 2016-2017 - NEW Actions¹: *Community*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
1	Streamline permitting for heat pumps for space heating and hot water.	Energy	Low	Absorb in existing staff and budget resources			✓	High	16,667
2	Explore the feasibility of installing additional EV chargers on city property.	Transport.	Med.	Absorb in existing staff and budget resources				High	20,000
3	Complete 2015 community greenhouse gas inventory.	Climate Change	Med.	Y	Gen. Fund	\$15,000		Supporting	N/A
4	Exempt Zero Net Energy (ZNE) building retrofits/remodels from planning permits and reduce building plan check fees.	Energy	Low	Absorb in existing staff and budget resources			✓	Unknown	Unknown
5	Develop City requirements for solar PV and EV installations in residential and non-residential new construction and remodels.	Energy	Med.	Absorb in existing staff and budget resources				Unknown	Unknown
6	Develop a plan and implement SVCE and overall sustainability outreach and engagement programs targeting residents, businesses, and employees.	Outreach	Med.-High	N	Gen. Fund Reserve	\$55,000-\$65,000		Unknown	N/A

FY 2016-2017 - NEW Actions: *Municipal Operations*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
7	Explore installing sub-meters at City facilities for better energy tracking.	Energy	Med.	N	C/C Tax	\$30,000-\$40,000	✓	Med.	137
8	Develop a building management policy that requires City buildings to be retro-commissioned at minimum five-year intervals to ensure optimal facility operations.	Energy	Med.	Absorb in existing staff and budget resources			✓	Med.	137
9	Investigate whether an alternative fuel is an effective greenhouse gas reduction strategy for a few heavy-duty fleet vehicles.	Transport.	Med.	Absorb in existing staff and budget resources				Med.	270
10	Implement telematics system in City fleet vehicles to optimize driving efficiency.	Transport.	Med.	Y	Fleet Services	\$20,000	✓	Low	90
11	Identify and adopt waste reduction and diversion goals for City operations.	Waste	Med.	Y	Solid Waste	Staff time		Low	100
12	Explore the feasibility of installing solar PV systems at additional City facilities.	Energy	Med.	N	Gen. Fund Reserve	\$25,000-\$35,000	✓	Low	TBD
13	Perform remaining lighting upgrades at City parking lots. (CIP Project 12-31)	Energy	Med.	Y	C/C Tax	\$30,000	✓	Low	TBD
14	Explore placing green waste bins at parks to support the organics collection program.	Waste	Med.	Absorb in existing staff and budget resources				Low	Unknown
15	Purchase 100% renewable energy for City operations through the Silicon Valley Clean Energy CCE program.	Energy	Low-Med.	N	Gen. Fund Reserve	\$25,000-\$30,000 ³		Supporting (High)	TBD
16	Adopt LEED Gold as the minimum standard for new city facilities and city building renovations over 10,000 square feet.	Energy	Low-Med.	Absorb in existing staff and budget resources			✓	Supporting	Unknown
17	Create a process for allocating some of the savings and rebates from sustainability projects toward new sustainability projects.	Energy	Med.	Absorb in existing staff and budget resources			✓	Supporting	Unknown
18	Complete 2015 municipal operations greenhouse gas inventory.	Climate Change	Med.-High	Y	Gen. Fund	\$20,000		Supporting	N/A
19	Work with PG&E to upgrade 400-500 of their streetlights.	Energy	Med.	N/A	PG&E	N/A	✓	TBD	TBD
20	Create Transportation Demand Management (TDM) application requirements, thresholds for which development projects require TDMs, and standardized compliance requirements.	Transport.	Low-Med.	Absorb in existing staff and budget resources				Unknown	Unknown

FY 2017-2018 - NEW Actions: Community

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
21	Explore requiring energy audits for residential and non-residential new construction (at point of sale), tenant improvements, and remodels.	Energy	Med.	Absorb in existing staff and budget resources				Low-Med.	2,000
22	Explore new recycling, composting, and garbage processing technologies for the SMaRT Station.	Waste	High	N ⁴	Solid Waste	TBD		Low	Unknown
23	Continue implementing an overall sustainability outreach and engagement program targeting residents, businesses, and employees.	Outreach	Med.-High	N	Gen. Fund	Variable		Unknown	Unknown

FY 2017-2018 - NEW Actions: Municipal Operations

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
24	Explore setting organization-wide or department-level paper reduction targets.	Waste	Low	Absorb in existing staff and budget resources			✓	Low	43
25	Explore opportunities to install solar hot water heaters on City properties.	Energy	Med.	N	TBD	TBD	✓	Low	70
26	Upgrade lighting at City-owned parking garages.	Energy	Med.	N	TBD	\$90,000	✓	Low	TBD
27	Upgrade lighting at Cuesta Park tennis courts.	Energy	Med.	N	TBD	\$117,120	✓	Low	TBD
28	Upgrade lighting at Rengstorff Park tennis courts.	Energy	Med.	N	TBD	\$58,560	✓	Low	TBD
29	Purchase 100% renewable energy for City operations through the Silicon Valley Clean Energy CCE program.	Energy	Low	N	TBD	\$100,000-\$125,000		Supporting (High)	TBD
30	Amend the zoning ordinance to exempt specific environmental-related building improvements from requiring a planning permit.	Energy	Low-Med.	Absorb in existing staff and budget resources				N/A	Unknown

FY 2018-2019 - NEW Actions: Community

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
31	Complete 2017 community greenhouse gas inventory.	Climate Change	Med.	Y	Gen. Fund	\$15,000		Supporting	N/A
32	Evaluate updating the Mountain View Green Building Code.	Energy	Med.-High	N	TBD	\$0-\$10,000		Unknown	Unknown
33	Continue implementing an overall sustainability outreach and engagement program targeting residents, businesses, and employees.	Outreach	Med.-High	N	Gen. Fund	Variable		Unknown	Unknown

FY 2018-2019 - NEW Actions: Municipal Operations

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
34	Update the Environmentally Preferable Purchasing Policy.	Purchasing	Low-Med.	Absorb in existing staff and budget resources				Low	Unknown
35	Replace paper-based work order management system with mobile devices for Fleet and Parks staff. (CIP Project 15-18)	Waste	High	Y	Multiple ⁵	\$350,000	✓	Low	Unknown
36	Purchase 100% renewable energy for City operations through the Silicon Valley Clean Energy CCE program.	Energy	Low	N	TBD	\$100,000-\$125,000		Supporting (High)	TBD
37	Update Building Division software to track historic sustainability-related project permits.	Energy	High	N	TBD	\$35,000		N/A	N/A

FY 2016-2017 - EXISTING Actions⁶: Community

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
38	Continue supporting the Silicon Valley Clean Energy CCE program through launch.	Energy	Med.-High	Y	Gen. Fund	\$350,000		Very High	TBD
39	Implement a residential organics collection program, if directed by Council.	Waste	High	Y	Solid Waste	\$80,000-\$620,000		Supporting	TBD
40	Continue engaging with North County and West Valley cities to advocate for our interests with VTA.	Transport.	Low-Med.	Absorb in existing staff and budget resources				Unknown	Unknown
41	Implement the 10 priority projects in the 2015 Bicycle Transportation Plan Update.	Transport.	Low-High	Partially	Google Funding, C/C Tax, Merlone Geier	\$6.9-\$7.3 M		Unknown	Unknown
42	Complete the Transit Center Master Plan (CIP Project 16-41).	Transport.	Med.	Y	C/C Tax, Shoreline Community	\$1 M		Unknown	Unknown
43	Conduct a feasibility study of an automated transit network between the downtown transit center and the North Bayshore.	Transport.	Med.	Partially	TBD	\$300,000		Unknown	Unknown
44	Construct crosswalk improvements (pedestrian activated flashers) at W. Middlefield/Independence-Thaddeus (CIP Project 15-23).	Transport.	Med.	Y	C/C Tax, Grants, & Transportation Development Act	\$283,000		Unknown	Unknown
45	Construct crosswalk improvements (pedestrian activated flashers) at W. Middlefield/Rock .	Transport.	Med.	Developer project; City reviewed				Unknown	Unknown
46	Construct crosswalk improvements (pedestrian activated flashers) at Rengstorff/Rock.	Transport.	Med.	Developer project; City reviewed				Unknown	Unknown
47	Construct Calderon Avenue bike lane (between Evelyn and Mercy Street).	Transport.	Med.	Y	Google & C/C Tax	\$325,000		Unknown	Unknown
48	Study adding bike lanes to Latham Street (between Showers and Calderon).	Transport.	Med.	Y	Google	\$130,000		Unknown	Unknown
49	Construct green bike lane pilot project.	Transport.	Med.	Y	Google & C/C Tax	\$230,000		Unknown	Unknown
50	Construct Neighborhood Traffic Management Program (NTMP) various projects throughout the City.	Transport.	Med.	Y	C/C Tax	Variable		Unknown	Unknown
51	Construct crosswalk improvements (pedestrian-activated flashers) at El Monte/Marich (Proposed CIP FY 2016-2017).	Transport.	Med.	Y	C/C Tax	\$250,000		Unknown	Unknown
52	Complete the Shoreline Boulevard Adaptive Signal Project.	Transport.	High	Y	C/C Tax, Shoreline Community, Grant	\$1.6 M		Unknown	Unknown
53	Implement Castro Street road diet (between Miramonte and El Camino), including a protected bike lane near Graham Middle School.	Transport.	High	Y	C/C Tax & Grant	\$950,000		Unknown	Unknown
54	Construct traffic signal modification (includes safety improvements for bikes & pedestrians) at Rengstorff/Montecito.	Transport.	High	Developer project; City reviewed				Unknown	Unknown
55	Construct Permanente Creek Trail extension (between Rock and Middlefield) and complete bike & pedestrian improvements at Middlefield/Farley traffic signal.	Transport.	High	Y	Shoreline Community and Parkland	\$1.375 M		Unknown	Unknown
56	Offer rebate programs for installation of water-efficient technologies and/or landscaping.	Water	Low	Absorb in existing staff and budget resources				N/A	Unknown
57	Provide water use reports and water audits for residents and/or large landscape customers.	Water	Low-Med.	Absorb in existing staff and budget resources				N/A	Unknown
58	Continue education and outreach, including school visits, landscape classes, event staffing, and utility bill messaging.	Water	High	Absorb in existing staff and budget resources				N/A	Unknown
59	Implement advanced water metering pilot project(s) (CIP 15-54).	Water	High	Y	Water Fund & SCVWD Grant	\$165,000		N/A	Unknown

FY 2016-2017 - EXISTING Actions: *Municipal Operations*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
60	Produce a green purchasing handbook.	Purchasing	Med.	Absorb in Existing Staff and Budget Resources				Supporting (Low)	Unknown

FY 2017-2018 - EXISTING Actions: *Community*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
61	Continue participating in the Silicon Valley Clean Energy CCE program.	Energy	Med.	Absorb in existing staff and budget resources			✓	Very High	151,000
62	Implement residential waste reduction program.	Waste	High	N	Solid Waste	TBD		Low	Unknown
63	Construct Shoreline Boulevard reversible bus lane, bike lanes, and pedestrian improvements (between Middlefield Rd. and Space Park Way).	Transport.	High	Y	Shoreline Community, Water, Wastewater	\$12.54 M		Unknown	Unknown
64	Re-construct Shoreline Boulevard bike/pedestrian pathway (between Villa and Wright Ave.).	Transport.	High	N	TBD	\$2.26 M		Unknown	Unknown
65	Construct traffic signal modification (includes safety improvements for pedestrians) @ Grant/Phyllis-Martens.	Transport.	High	Y	Google & C/C Tax	\$900,000		Unknown	Unknown
66	Construct traffic signal modification (includes safety improvements for pedestrians) @ Shoreline/Villa.	Transport.	High	Y	C/C Tax	Unknown		Unknown	Unknown
67	Complete evaluation of advanced water metering pilot project(s) (CIP 15-54).	Water	High	Y	Water Fund & SCVWD Grant	\$10,000		N/A	N/A

FY 2017-2018 - EXISTING Actions: *Municipal Operations*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
68	Identify funding and install EV chargers for Fleet use.	Energy	Med.	N	TBD	\$30,000	✓	Supporting (Med.-High)	TBD
69	Review all in-house copiers and printers for energy efficiency and incorporate EPEAT standards into equipment evaluation.	Energy	Low	Y	Dept. Budgets / Gen. Fund	< \$1,000	✓	Supporting (Low)	Unknown
70	Conduct waste audits and surveys at City facilities to engage employees in waste reduction efforts and improve diversion rates. Pursue green business certification for City facilities.	Waste	Med.	Y	Solid Waste	Staff time only		Supporting (Low)	Unknown
71	Replace 450 desktop computers with virtual desktop infrastructure (VDI) devices.	Energy	High	Y	Gen. Fund, Equipment Replacement	Cost-saving	✓	Supporting (Low)	Unknown

FY 2018-2019 - EXISTING Actions: *Community*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
72	Continue participating in the Silicon Valley Clean Energy CCE program.	Energy	Med.	Absorb in existing staff and budget resources			✓	Very High	See #61

FY 2018-2019 - EXISTING Actions: *Municipal Operations*

#	Action	Focus Area	Level of Effort	Funding Approved	Funding Source	Est. Cost	Fin. Savings?	GHG Red. ²	GHG Red. Per Year in 2050
73	Develop a supplier/vendor Code of Conduct for incorporation into bid documents.	Purchasing	Low	Absorb in existing staff and budget resources				TBD	Unknown
								MT CO₂e:	190,513

¹ An action is “New” if it was not funded prior to the beginning of FY 2016-17.

² An estimate of the GHG reduction potential of implementing the actions stated or being investigated. For most actions, emissions reduction potential was taken from the originating documents (e.g. CPR, MOCAP). For actions not in these documents an estimation was made, since more accurate reduction amounts cannot be determined until the actions are more fully developed and scoped.

³ Estimated cost for remainder of FY 16-17. Full annual cost estimated at \$100,000-\$125,000 above current energy costs.

⁴ To be requested as multi-year CIP to prepare for expiration of all solid waste contracts in 2021.

⁵ Multiple funding sources: Development Services, C/C Tax, Community, Water, Wastewater, Solid Waste Management, Equipment Maintenance. These funds support several Information Technology projects and funding sources are not available on a per-project basis.

⁶ An action is “Existing” if it was funded prior to the beginning of FY 2016-17, or if it is planned but funding has not yet been approved.


CIP = Capital Improvement Project


CPR = Climate Protection Roadmap (2015)

ESTF = Environmental Sustainability Task Force (2008)

MOCAP = Municipal Operations Climate Action Plan (2015)

MT CO₂e = Metric tons of carbon dioxide equivalent

 = Deemed high priority by the City Council

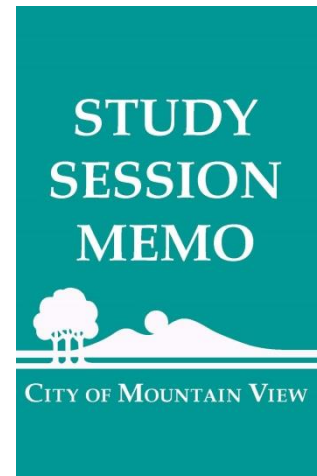
 = Funding being requested as part of Environmental Sustainability Action Plan 3 adoption

DATE: June 14, 2016

TO: Honorable Mayor and City Council

FROM: Steve Attinger, Environmental Sustainability Coordinator
Terry Blount, Assistant Community Development Director/Planning Manager
Randal Tsuda, Community Development Director

VIA: Daniel H. Rich, City Manager



TITLE: **Environmental Sustainability Action Plan 3**

PURPOSE

This memorandum presents staff and Council Environmental Sustainability Committee (CESC) recommendations for actions to be included in a new Environmental Sustainability Action Plan 3 (ESAP-3), shown in Attachment 1. Staff seeks Council input on the proposed actions prior to final adoption of the Plan in the fall.

BACKGROUND

The City Council adopted an original Environmental Sustainability Action Plan (ESAP) in March 2009 for Fiscal Years 2008-09 through 2010-11, to serve as a road map for achieving the City's short- and long-term sustainability goals. Subsequently, the Council adopted Environmental Sustainability Action Plan 2 (ESAP-2) in April 2012 for Fiscal Years 2011-12 through 2013-14. All of the actions in the original ESAP and ESAP-2 are completed, under way, or on hold, as shown in Attachment 2. Subsequent to ESAP-2, the Council adopted a communitywide Climate Protection Road Map (CPR) and Municipal Operations Climate Action Plan (MOCAP).

The CESC met on May 10, 2016 to provide feedback to staff on a Draft ESAP-3 for Fiscal Years 2016-17 through 2018-19. The staff memo is Attachment 3. The CESC identified the highest-priority actions which are put forward in staff's recommendation.

DISCUSSION

While the overall focus of the City's sustainability program is to achieve Mountain View's short- and long-term greenhouse gas (GHG) reduction targets, the proposed ESAP-3 actions encompass the broader environmental sustainability spectrum.

The ESAP-3 actions are delineated as either “New” or “Existing.” The “Existing” actions are included to provide visibility into the broad array of sustainability-related initiatives already funded or under way. The ESAP-3 actions are further broken down over the three fiscal years by “Community” and “Municipal Operations,” and encompass a number of areas: climate change, energy, outreach, purchasing, transportation, waste, and water. Fiscal Years 2017-18 and 2018-19 contain fewer actions than Fiscal Year 2016-17 due to the uncertainty of future funding decisions.

For more information on how the ESAP-3 was developed, see Page 2 of the CESC memo in Attachment 3. For information on mandatory solar photovoltaic (PV) installation requirements and electric vehicle (EV) charging standards, see Page 5 of Attachment 3.

Greenhouse Gas Emissions

Between 2005 and 2012, Mountain View’s communitywide GHG emissions increased 6.9 percent to 786,954 metric tons of carbon dioxide equivalent (MT CO_{2e}) annually. Given that the City’s 2012 community reduction target is 5 percent below 2005 levels, the City is approximately 12 percent short of its 2012 goal. The City increased its community reduction target from 5 percent in 2012 to 10 percent in 2015. Assuming no increase in emissions between 2012 and 2015, for which the City does not currently have emissions data, Mountain View could be 17 percent, rather than 12 percent, behind its 2015 reduction goal.

Excluding most of the “Existing” actions (for which the City has relatively few GHG reduction figures), staff estimates that all of the “New” actions in the proposed ESAP-3 plus the City’s Community Choice Energy (CCE) efforts could reduce emissions by approximately 70,000 MT CO_{2e} per year in 2050, or approximately 9 percent of the reductions needed to reach the City’s 2050 communitywide reduction target. Since the majority of the “Existing” actions are transportation-related, these could collectively result in somewhat significant emissions reductions beyond the 9 percent reductions produced by the “New” actions.

Emissions Reduction Strategy

The above-noted level of emission reductions is achieved primarily due to the City’s participation in the Silicon Valley Clean Energy (SVCE) CCE program, which results in the largest emissions reduction of any single action by far. In fact, SVCE provides the foundation for the City’s long-term GHG reduction strategy, which involves “decarbonizing” (or greening) the electricity grid through increased use of renewable

and carbon-free energy, and then transitioning building energy and transportation/vehicle fuel to electricity.

Given that the largest portion of communitywide emissions are from transportation (61 percent), it would be beneficial for the City to focus as much effort as possible toward improving transportation infrastructure and encouraging use of both public transit and alternative fuel vehicles.

CESC Comments

Collectively, the CESC provided the following comments on the Draft ESAP-3, and staff evaluated the impact of the Committee's feedback and responded as summarized in the table below. Based on this feedback, staff has shaded the actions in the attached Draft ESAP-3 to identify an "A list" of the recommended high-priority actions. Staff anticipates being able to complete the A list actions, as well as Actions 5 and 16, which need to be implemented to support other future actions. The remaining "New" actions ("B list") will be completed if time and resources allow.

CESC Comments	Staff Response
A. The highest-priority "New" actions are: 1, 2, 3, 4, 6, 7, 9, 11, 13, 17, 18, 19, 20, 21, 27, 28, 29, 30, 32, and 33.	These "A list" recommended actions are shaded in grey in Attachment 1.
B. Formally recommend pursuing No. 27 ("Explore purchasing 100 percent renewable energy for City operations through the Silicon Valley Clean Energy CCE program.").	None. For Council consideration. Cost estimated at \$100,000 to \$125,000 per year, but net benefit not yet known.
C. Move No. 13 from FY 2017-18 to FY 2016-17.	No. 13 was moved.
D. Move No. 20 from FY 2018-19 to FY 2017-18.	No. 20 was moved.
E. Add "By policy, explore putting in bike lanes on major streets where new development is planned."	None. For Council consideration.
F. Track the installation of residential solar PV systems and the purchase or lease of EVs, and possibly set communitywide goals for increased adoption rates.	Staff plans to update the City's computer system to track solar PV installations (No. 33), but this would not include the purchase or lease of EVs.
G. Add in the City's major water conservation initiatives.	These items were added (Nos. 52, 53, 54, 55, 63).

Public Comments

Comments from the public included the following:

- Strong support for No. 27 (“Explore purchasing 100 percent renewable energy for City operations through the Silicon Valley Clean Energy CCE program.”).
- Strong support for completing community GHG inventories every year, as opposed to every three years, as currently shown in the Draft ESAP-3 (No. 3).
- Other public comments included:

Transportation

- (a) In collaboration with Joint Venture Silicon Valley, explore “Mobility as a Service” as a means of improving options besides driving alone and making it easier to get around without owning a car.
- (b) Focus on reducing Vehicle Miles Traveled (VMT) through as many avenues as possible.

Energy

- (c) Require solar PV for residential and nonresidential new construction. (As indicated on Page 5 of Attachment 3, this will likely become part of the California Building Code in January 2017.)
- (d) Require energy audits for residential and nonresidential new construction more frequently than just at point of sale, during tenant improvements, and during remodels (as shown in No. 19).
- (e) Track the number of solar PV installations in town, and help renters take advantage of solar power via pass-through costs and benefits.
- (f) Educate the public and developers about the benefits of heat pumps (No. 21).
- (g) Through a power purchase agreement, allow solar developers to install solar carports on City parking lots if the City does not have the funds to do so.

Green Buildings

- (h) Move the Green Building Code evaluation (No. 29) from 2018-19 to 2017-18.
- (i) Require new buildings to be all-electric in support of phasing out the use of natural gas.

Fiscal Impact

There is no fiscal impact to adopting ESAP-3 as it does not commit the Council to funding the actions not already included in the Fiscal Year 2016-17 budget. The following action may require funding outside of the Fiscal Year 2016-17 budget, for which a work plan will be forwarded to the Council for a midyear or end-of-year funding request:

- No. 11: Explore the feasibility of installing solar PV systems at additional City facilities.

RECOMMENDATION

Approve the CESC's recommended priority actions for the proposed ESAP-3 for Fiscal Years 2016-17 through 2018-19.

ALTERNATIVES

Modify the CESC-recommended ESAP-3 by adding, removing, or changing the order of the actions.

NEXT STEPS

Based on input received from the City Council, staff will further research/refine the proposed actions, as needed, and produce a Final ESAP-3, which will be presented for adoption in the fall.

PUBLIC NOTICING

Agenda posting and e-mails sent to community members interested in environmental sustainability.

SA-TB-RT/7/CAM
816-06-14-16SS-E

Attachments: 1. Draft Environmental Sustainability Action Plan 3
2. Status of ESAP and ESAP-2 Actions
3. [May 10, 2016 Council Environmental Sustainability Committee Memo](#)

cc: ACDD/PM, APWD – Solomon, CBO, PP, ZA, TBM, FFM, SWPM, PSSM, PCE – Au, CTE, STE – Lopez, STA, POSM, AP – Hagan