

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*

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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 CO ₂ e:	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