



Sustainability Action Plan 4

City Council

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Presentation Outline

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Recommendations

1. Adopt the Sustainability Action Plan 4 (SAP-4) for Fiscal Years 2019-20 through 2021-22 (Attachment 1 to the Council report).
2. Approve a three-year spending plan for the \$7.5 million Sustainability Fund appropriated by Council in June 2019 (Attachment 2 to the Council report).



Background

- History of commitment and action
- Environmental Sustainability Task Force 2 (ESTF-2) recommendations (2018)
- Council direction from Sustainability Strategic Plan (4/2019)
 - Strive to achieve an “Advanced” or higher level of response to the climate crisis
 - Prioritize strategies by cost-effective GHG reduction potential
 - Return to Council with specific actions as part of SAP-4
 - Create a 3-year Sustainability Fund of \$7.5 million
- Broader sustainability scope to include social equity
- Council Sustainability Committee meeting (9/2019)





How SAP-4 Was Developed

- Based on ESTF-2 recommendations and Sustainability Strategic Plan
 - Intensive internal and external stakeholder feedback process
- Proposed *new* actions refined through staff engagement (Attachment 1)
- Full range of sustainability efforts: *new* and *already-approved* actions (Attachment 3)
- Organized into 27 broad goals most likely to achieve GHG reduction and other sustainability objectives



How SAP-4 Was Developed

Overall benefits used as criteria to prioritize actions:

- 1. Action results in direct GHG emissions reduction*
- 2. Action enables measures that create long-term GHG reduction*
- 3. Action results in improved internal sustainability/GHG management*
- 4. Action improves outreach and community engagement efforts to support adoption of sustainable practices*
- 5. Action yields cost savings to the City*
- 6. Action reduces consumption-based emissions*
- 7. Action supports other sustainability goals and “co-benefits”*



SAP-4 Goals

- 27 goals across 7 sectors:
 - Transportation
 - Buildings and Energy
 - Land Use
 - Zero Waste
 - Water
 - Parks and Ecosystems
 - Core Sustainability Programs and Governance
- 81 proposed new actions, 79 already-approved actions

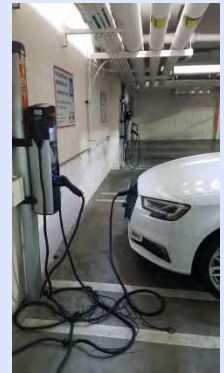




SAP-4 Goals

Transportation *(Actions: 28 new, 37 existing)*

- T1. Develop comprehensive, multi-modal transportation plans and strategies to decarbonize the sector.
- T2. Complete a low-stress network of active transportation infrastructure.
- T3. Develop policies and programs that support active transportation in MV.
- T4. Improve transit access and connections through regional collaboration.
- T5. Improve road safety for all users.
- T6. Expand Transportation Demand Management efforts in Mountain View.
- T7. Accelerate the electrification of vehicles.
- T8. Reduce GHG emissions from City-owned fleet vehicles and equipment.
- T9. Reduce GHG emissions associated with City employee commutes.





SAP-4 Goals

Buildings and Energy (*Actions: 19 new, 5 existing*)

- B1. Reduce GHG emissions from energy use in new buildings.
- B2. Reduce GHG emissions from energy use in existing buildings.
- B3. Decarbonize the energy supply.
- B4. Decarbonize and improve the efficiency of City facilities.



Land Use (*Actions: 0 new, 9 existing*)

- L1. Develop land use strategies and policies that support VMT reduction.
- L2. Incorporate broad sustainability measures into land use planning.



SAP-4 Goals

Zero Waste (*Actions: 0 new, 15 existing*)

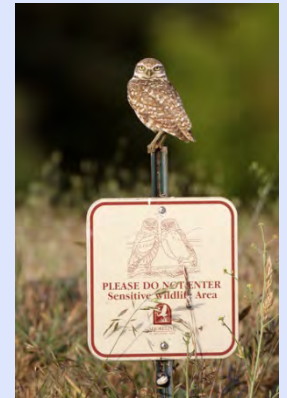
- Z1. Achieve the City's Zero Waste goals.

Water (*Actions: 1 new, 4 existing*)

- W1. Reduce potable water use through efficiency and conservation measures.
- W2. Increase the use of alternative water sources for non-potable uses.

Parks and Ecosystems (*Actions: 5 new, 2 existing*)

- P1. Manage open space to protect wildlife habitat, provide ecosystem services, and support sustainability goals.
- P2. Increase the City's tree canopy to provide environmental benefits, including carbon sequestration.
- P3. Reduce emissions from landscaping equipment.





SAP-4 Goals

Core Sustainability Programs and Governance

(Actions: 28 new, 7 existing)

- S1. Integrate sustainability across City government.
- S2. Improve GHG management and accounting.
- S3. Provide accessible, engaging information about City sustainability initiatives and provide opportunities for community input.
- S4. Facilitate programs, tools, and events to educate residents about actions they can take to reduce their impact.
- S5. Engage businesses to educate, share best practices, and pilot new sustainability initiatives.
- S6. Create and implement outreach programs to encourage City employees to adopt sustainable practices.





GHG Emissions Levels

Community GHG Inventory	Total GHG Emissions (MT CO ₂ e)	% Change from 2005 Baseline	% Above 2017 Target
Draft Final 2017	663,327	-5.8%	7.1%

- Estimated GHG reductions (Attachment 1)
 - “*Annual GHG Reduced*”: the average annual reduction once fully implemented
 - “*Cost Effectiveness*”: the dollars per total GHG reduced through 2030
 - Often a trade-off between total GHG reductions and cost-effectiveness
- **GHG reductions and cost-effectiveness are high-level estimates**
 - Based on results of similar programs in other cities, scaled to Mountain View
 - Defining program specifics will enable more precise calculations



GHG Reduction Strategy

- Focus on **Transportation** and **Natural Gas** emissions
- Prioritize *immediate* GHG reductions and actions that enable *future* reductions
- Transportation is largest share of community emissions (~63% in 2017)
 - Actions that reduce vehicle miles traveled
 - Actions to promote EVs and EV infrastructure
- Some actions not expected to generate immediate reductions, but are recommended because they support *future* reduction strategies



KEY TAKE-AWAYS

- SAP-4 is a **suite** of actions that, **collectively**, represent our best path to reduce emissions as quickly as possible.
- It is a 3-year plan, not a 2030 roadmap. The latter will happen in action S2.9.



Key Actions

Transportation

- Accelerate implementation of bicycle infrastructure projects for the next 3 years with the new, limited-period Active Transportation CIP team. (T2.17)
- Develop and implement a citywide Bicycle Monitoring Program and Pilot Bicycle Facilities Project. (T2.16)
- Install additional EV chargers in downtown parking garages and evaluate opportunities to add EV chargers to other city facilities. (T7.3 and T7.5)
- Explore the feasibility of a downtown Transportation Demand Management program to support small businesses and employees. (T6.5)





Key Actions

Buildings and Energy

- Develop a Reach Code to incentivize or require electrification measures in newly constructed buildings. (B1.1)
- Explore development of a second Energy Upgrade Mountain View-type program, leveraging all available third-party incentives and a City-funded pilot program for fuel-switching rebates to address gaps in existing programs. (B2.4 and B2.5)
- Develop a Building Energy Benchmarking Ordinance to address commercial energy use, possibly including mandatory audit or retro-commissioning measures. (B2.6)





Proposed New Staff

FTE	Position Description	Dept.	Term
3	Active Transportation CIP Team	PWD	LP (3 years)
1	Transportation Planner	PWD	On-going
1	Facilities Sustainability Project Manager	PWD	LP (2 years)
1	Facilities Sustainability Maintenance Worker I/II	PWD	LP (2 years)
1	Deputy Building Official	CDD	On-going
1	TDM and Parking Demand Management Analyst	CDD	On-going
1	Chief Sustainability and Resilience Officer	CMO	On-going
1	Program Manager for Building and Vehicle Electrification	CMO	LP (2 years)
10	TOTAL FTE		



Fiscal Impact

Proposed new actions estimated to cost \$10.6M for the 3 years

- \$7.2M from Sustainability Fund
- \$3.4M from Capital Improvement Program (CIP) Funds



	FY 19-20	FY 20-21	FY 21-22	TOTAL
Total from Sustainability Fund	\$1,795,900	\$3,521,800	\$1,862,500	\$7,180,200
Total Cost (including CIP Funds)	\$2,937,900	\$4,663,800	\$3,004,500	\$10,606,200

Total Program and Staff Costs (Community):	\$9,617,000
Total Program and Staff Costs (Municipal):	\$989,200
Total Costs:	\$10,606,200

Total Program Costs:	\$5,300,000
Total Staffing Costs:	\$5,306,200
Total Costs:	\$10,606,200

New staff would result in \$889,200 in annual on-going costs, beginning FY 2022-23



Alternatives

1. Modify the proposed SAP-4 by adding, removing, or changing the timeline of the proposed actions.
2. Do not adopt SAP-4.
3. Provide other direction.



Next Steps

- **November 12:** Building and EV “Reach Code” (2nd Reading)
- **December 3:** Present to Council:
 - Final 2017 Community GHG inventory
 - Final 2017 Government Operations GHG inventory
 - Preliminary 2018 Community GHG inventory
 - Analysis of recommended changes to GHG targets and accounting