



Sustainability Action Plan 4

Council Environmental Sustainability Committee

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Presentation Outline

- Recommendations
- Background
- SAP-4 Goals
- How SAP-4 Was Developed
- GHG Emissions Reduction Strategy
- Key Actions
- Proposed New Staffing
- Fiscal Impact
- Topics for Committee Input
- Next Steps





Recommendations

1. Provide input on the proposed Draft Sustainability Action Plan 4 (SAP-4) for Fiscal Years 2019-20 through 2021-22.
2. Forward the proposed SAP-4 to the City Council for review and consideration in the context of Citywide and department priorities.
3. Recommend to the Mayor to change the name of this committee to Council Sustainability Committee.



Background

- History of commitment and action
- Progress toward GHG emissions reduction targets
- Environmental Sustainability Task Force 2 (ESTF-2) recommendations (2018)
- Council direction from Program Assessment and Strategic Plan
 - 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 initiatives as part of SAP-4
 - Create a 3-year Sustainability Fund of \$7.5 million
- Broader sustainability scope including social equity





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 active staff engagement (Attachment 2)
- Full range of sustainability efforts: **new** and **already-approved** actions (Attachment 3)
- Organized into broad goals most likely to achieve GHG reduction and other sustainability objectives
- Seven 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

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

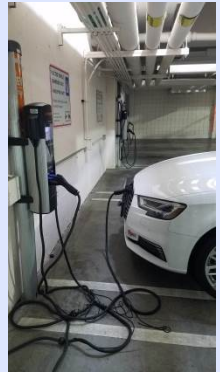




SAP-4 Goals

Transportation

- 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

- 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

- L1. Develop land use strategies and policies that support VMT reduction.
- L2. Incorporate broad sustainability measures into land use planning.
- L3. Ensure that housing in Mountain View is affordable to a diverse range of households.



SAP-4 Goals

Zero Waste

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

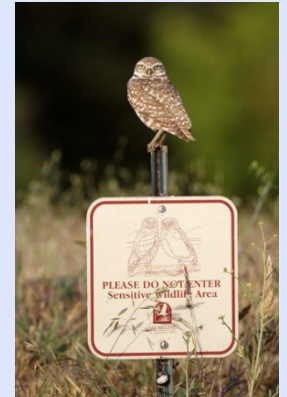
Water

- 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

- 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

- 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)	% Above/Below 2005 Baseline	% Above 2017 Target
Preliminary 2017	716,535	2.9% above	15.6%
Draft Final 2017	650,000 - 660,000	7-8% below	5-7%

- Attachment 2 includes estimated GHG reductions for actions
 - “*Annual GHG Reduced*” is based on average annual reduction once action is fully implemented (not necessarily first-year reductions)
 - “*Cost Effectiveness*” is based on dollars per total GHG reduced through 2030, rather than annual reductions (same methodology as ESTF-2)
 - Often a tradeoff between total GHG reductions and cost-effectiveness



GHG Reduction Strategy

- Focus on **Transportation** and **Natural Gas** emissions
- Prioritize direct GHG reductions and actions critical to supporting or enabling future GHG reduction
- Transportation is largest share of community-wide GHG emissions (~63%)
 - Actions focus on reducing vehicle miles traveled by encouraging walking, biking, and transit use
 - Additional actions to electrify remaining vehicles
- Some actions not expected to result in direct, immediate GHG reductions, but are recommended because they support future reduction strategies





Key Actions

Transportation

- Accelerate implementation of bicycle infrastructure projects for the next 3 years with the new, Limited-Period Active Transportation CIP team. (T2.2)
- Develop and implement a citywide Bicycle Monitoring Program and Pilot Bicycle Facilities Project. (T2.1)
- 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 Staffing

FTE	Position Description	Dept.	Term
3	Active Transportation CIP Team	PWD	LP – 3 years
1	Transportation Planner	PWD	ongoing
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	ongoing
1	TDM and Parking Demand Management Analyst	CDD	ongoing
1	Chief Sustainability and Resilience Officer	CMO	ongoing
1	Program Manager for Building and Vehicle Electrification	CMO	LP – 2 years
10	TOTAL FTE		

PWD = Public Works Dept. / CDD = Community Development Dept. / CMO = City Manager's Office



Fiscal Impact

Proposed new actions estimated to cost \$10.5M for the 3 years:

- \$7.1M from Sustainability Fund
- \$3.4M from Capital Improvement Program Funds



	FY 19-20	FY 20-21	FY 21-22	TOTAL
Total Cost (including CIP Funds)	\$2,935,000	\$4,619,800	\$2,950,500	\$10,506,200
Total from Sustainability Fund	\$1,793,900	\$3,477,800	\$1,808,500	\$7,080,200

Total Program and Staff Costs (Community):	\$9,517,000
Total Program and Staff Costs (Municipal):	\$989,200
Total Costs:	\$10,506,200

Total Program Costs:	\$5,200,000
Total Staffing Costs:	\$5,306,200
Total Costs:	\$10,506,200

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



Committee Input Requested

Staff seeks Committee input on the following:

1. Should any of the “Proposed New Actions” be removed or delayed to a future year?
2. Does the CESC recommend any additional high priority actions?
3. Does the CESC support the proposed three-year spending plan for the Sustainability Fund to implement the SAP-4?
4. Does the CESC support renaming this committee?



Next Steps

- **October 22:** SAP-4 to Council
- **October 22:** Reach Codes to Council (first reading)
- **November 12:** Reach Codes to Council (second 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