

DATE: May 30, 2023

TO: Council Sustainability Committee

FROM: Danielle Lee, Chief Sustainability and Resiliency Officer

VIA: Audrey Seymour Ramberg, Assistant City Manager

SUBJECT: Sustainability Action Plan 4 Progress Update and Recommended Modifications

PURPOSE

This memorandum presents a progress update on Sustainability Action Plan 4 (SAP-4) and seeks Council Sustainability Committee (CSC) input on recommended modifications to the remaining SAP-4 actions and budget.

RECOMMENDATION

Provide input to staff on the recommended modifications to the remaining SAP-4 actions and budget.

BACKGROUND

The City Council adopted an original Environmental Sustainability Action Plan (ESAP) on March 24, 2009 for Fiscal Years 2008-09 through 2010-11 as a plan for achieving the City's short- and long-term sustainability goals. On April 10, 2012, Council adopted Environmental Sustainability Action Plan 2 (ESAP-2) for Fiscal Years 2011-12 through 2013-14. In 2015, Council adopted a communitywide Climate Protection Roadmap and Municipal Greenhouse Gas (GHG) reduction targets through 2050. On September 13, 2016, the Council adopted Environmental Sustainability Action Plan 3 (ESAP-3) for Fiscal Years 2016-17 through 2018-19.

On October 22, 2019, the City Council adopted Sustainability Action Plan 4 (SAP-4) as the City's continued plan for investment in sustainability for Fiscal Years 2019-20 through 2021-22. Implementation of SAP-4 has continued into Fiscal Year 2022-23. Among its 81 new actions and 79 already-approved actions, SAP-4 contains smaller projects that provide near-term GHG reductions and larger, longer-term infrastructure projects that will yield significant GHG reductions over time. The SAP-4 actions are organized around 27 high-level goals in the transportation, energy, land use, zero-waste, water, parks and ecosystems, and core sustainability sectors. On May 11, 2021, staff updated the City Council on the status of SAP-4

implementation. During this update, Council approved the removal of five actions (because they were no longer needed or could be combined with other actions) and allocated the available balance within the Sustainability Fund, which was created when the City Council adopted SAP-4, to support the achievement of various projects and the City's sustainability goals. Another update on SAP-4 implementation was provided to the CSC on December 1, 2021.

On April 12, 2020, the City Council passed a resolution for Mountain View to become a carbon-neutral city by 2045. This means that in addition to achieving the adopted 2045 GHG-reduction target of 75% below 2005 levels, Mountain View would need to balance any remaining GHG emissions with carbon sequestration projects (such as planting trees or restoring wetlands) or carbon offsets. At CSC meetings on April 19, 2022 and June 22, 2022, staff presented the implications for accelerating Mountain View's adopted carbon-neutrality target year. The CSC approved the proposed hybrid approach, which would entail completing targeted analysis to develop a road map for carbon neutrality by 2035, exploring opportunities to build partnerships and to leverage private financing, and developing an approach to address residual emissions that remain after the carbon-neutrality target year. As part of the discussion, staff recommended that the City focus on the decarbonization of buildings and transportation by 2035 as the primary strategy toward achieving carbon neutrality.

ANALYSIS

Overview of SAP-4 Progress

As shown in Table 1, staff has made progress implementing many of the SAP-4 actions. Seventy-five percent (75%) of actions are completed, ongoing, or in progress. Staff recommends removing or consolidating 19 actions as they are either no longer needed or can be combined with other actions in order to more effectively focus on the highest impact strategies to achieve carbon neutrality.

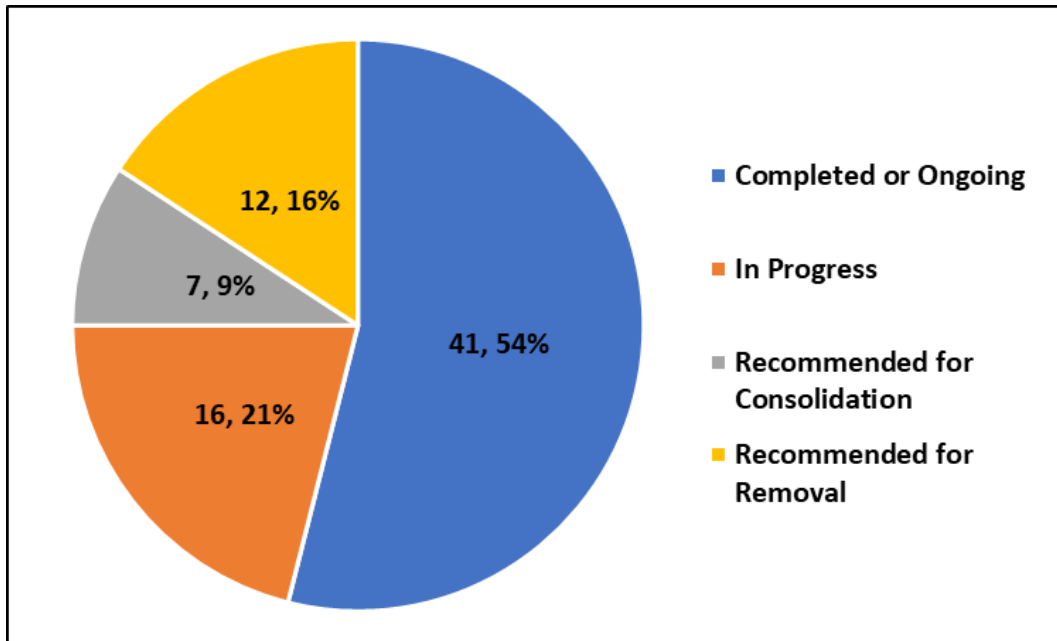


Figure 1: Progress of New SAP-4 Actions

Attachment 1 includes a summary of the status and anticipated completion date for the 76 new SAP-4 actions as well as denotes projects that have been identified for possible inclusion in the Council Fiscal Year 2023-25 Work Plan, which will go before the Council for approval on June 13, 2023. The following sections provide more detailed updates on some key SAP-4 projects as well as recommended modifications to program budgets, project scopes, and departmental oversight.

Updates on Key Actions

The following section provides updates on several key SAP-4 actions that have progressed since the last update to the CSC on December 1, 2021. The tables at the end of each subsection provide summaries of the modifications recommended for each sector. More detail can be found in Attachments 1 and 2.

Transportation

Develop, Adopt, and Implement Vision Zero Policy and Action Plan (T5.1)

The City Council adopted a Vision Zero Policy in December 2019, and the development of a joint Vision Zero Action Plan and Local Road Safety Plan is under way. SAP-4 is providing City matching funds to leverage a \$62,000 Caltrans grant for this work. Staff presented updates and obtained feedback from the Bicycle and Pedestrian Advisory Committee on analysis, proposed countermeasures, and priority corridors and developed a Request for Proposals for Vision Zero and Active Transportation Outreach. Since this action includes comprehensive outreach

activities, staff is recommending combining SAP-4 action (T3.1): “Create dedicated funding for active transportation outreach,” under T5.1.

Support Expansion of Transportation Management Association Programs to Serve New Businesses (T6.1)

In spring 2022, the Transportation Management Association (TMA) implemented a new mobility program designed to reimburse transit/carpool users for expenses related to midday trips. The TMA will reimburse up to \$15 for Uber or Lyft expenses. The TMA is also marketing the Community Shuttle Service and MVgo.

EV Charger Installations (T7.3, T7.5, T7.6, T7.10)

Projects to install EV chargers in downtown garages are completed or under way. In spring 2022, the following installations were completed:

- **135 Bryant Street Parking Structure:** 10 Level 2 EV charging ports as well as make-ready infrastructure to support future installation of 15 more Level 2 chargers.
- **850 California Street Parking Structure:** 10 defunct Chargepoint Level 2 charging ports were replaced with PowerFlex chargers.
- **Civic Center Parking Structure:** Eight defunct Chargepoint Level 2 charging ports were replaced with PowerFlex chargers, and an additional six chargers were added.

The following installations are planned or under way:

- **850 California Street Parking Structure:** A building permit was issued in March 2023 to install 22 Level 2 chargers and one Level 3 fast charger. Installation will begin in late spring 2023.
- **Rengstorff Park Aquatics Center:** The Rengstorff Park Aquatics Center Replacement Project will include four EV chargers as well as make-ready infrastructure for future installation of additional chargers.

Transportation Demand Management (T6.1, T6.6)

In March 2023, staff and the project consultant team at Steer held a kickoff meeting to begin developing the transportation demand management (TDM) ordinance that will support standardizing TDM requirements Citywide. Two key tasks will be completed by July 2023, including a background assessment and comprehensive review of TDM project conditions. To support this effort, staff has been compiling an inventory of TDM conditions of approval and

developing monitoring procedures for existing TDM requirements. For the North Bayshore Master Plan, transportation staff is finalizing the Development Agreement and TDM Conditions of Approval for future projects in the Master Plan area.

Develop a Fleet Electrification Plan (T8.3)

The City has hired a consultant to assist with preparation of the Fleet Electrification Plan. The scope of work includes identifying EV replacement candidates for various classes of vehicles and preparation of a phased conceptual plan and cost estimate for installation of charging infrastructure at three sites. Staff anticipates that the plan will be completed by late 2023. Staff recommends combining action (T8.1), “Develop a Clean Fleets Policy,” with this action since the Fleet Electrification Plan will guide vehicle replacement purchases.

Table 1 provides a summary of the recommended modifications to SAP-4 actions in the transportation sector.

Table 1: Summary of Recommended Modifications to Transportation Actions

Task	Action	Recommended Modification	Recommended Budget*
T3.1	Create dedicated funding for active transportation outreach.	Move \$97,304 to T5.1.	-0-
T3.5	Develop a bike rack request program.	Remove action.	N/A
T3.6	Develop or expand existing rebate programs for e-bikes and other mobility devices. (Develop rebate program for e-bikes and other mobility devices.)	Update action description.	\$110,000
T3.7	Update the Bicycle Parking Ordinance.	Consolidate efforts under T6.6 and move from CDD to Public Works Department (PWD).	N/A
T5.1	Develop, adopt, and implement Vision Zero Policy and Action Plan. (Adopt Vision Zero Policy and develop and implement Action Plan.)	Update action description and consolidate with T3.1 (\$97,304).	\$634,211

Task	Action	Recommended Modification	Recommended Budget*
T6.6	Develop and explore residential and downtown TDM programs. (Explore development of downtown TDM pilot program.)	Update action description, move from CDD to PWD, and consolidate with the following actions and funding balances: T6.7 (\$150,000), T3.7 (no funding).	\$630,000
T6.7	Implement residential TDM program to reduce drive-alone travel.	Move from City Manager's Office (CMO) to PWD; move \$150,000 to T6.6.	-0-
T7.7	Facilitate an EV and EV charger group buy or discount program.	Consolidate efforts and move \$30,000 to B2.4.	-0-
T7.11	Review EV zoning recommendations from Countywide study.	Remove action.	N/A
T8.1	Develop a Clean Fleets Policy	Consolidate with T8.3.	N/A
T8.3	Develop a Fleet Electrification Plan	Consolidate the following actions and funding balances: T8.1 (no funding), T8.3 (\$10,150).	\$10,150

*N/A indicates that no funding was allocated to that action.

Energy

Develop Building Electrification Reach Codes for 2022 Code Cycle (B1.3)

On December 13, 2022, the City Council readopted and expanded the 2019 Reach Codes to require all-electric construction for new residential and commercial buildings. The 2022 Reach Code removed an exception for fire pits and fireplaces for all building types and increased EV charging requirements for certain building types. On April 18, 2023, the CSC also directed staff to assess the feasibility of additional policies to reduce natural gas emissions, including an appliance replacement policy and expanding the definition of what constitutes a major renovation in the City's Reach Code.

Implement Energy Efficiency and Electrification Projects (B2.4)

Staff is exploring a building decarbonization pilot program and other residential and small business-facing decarbonization initiatives. To better reflect the City's sustainability priorities,

staff has renamed this action from “Explore a second Energy Upgrade Mountain View type of program” and recommends consolidating related actions (B2.5, T7.7, S5.2) under B2.4. Staff also proposes allocating remaining funding from a completed action, P3.2, to maximize this effort.

Table 2 provides a summary of the recommended modifications to SAP-4 actions in the energy sector.

Table 2: Summary of Recommended Modifications to Energy Actions

Task	Action	Recommended Modification	Recommended Budget*
B2.4	Implement energy efficiency and electrification projects. (Explore a second Energy Upgrade Mountain View type of program.)	Update action description and consolidate the following actions and funding balances: B2.5 (\$160,000), P3.2 (\$79,006), S5.2 (\$30,000), and T7.7 (\$30,000). Allocate \$54,800 of unallocated funding.	\$613,806
B2.5	Develop a City-funded fuel-switching rebate program for homes.	Move \$160,000 to B2.4.	-0-
B2.6	Develop a Building Benchmarking and Disclosure Ordinance	Remove action and move \$250,000 to S1.8.	-0-
B3.3	Develop a Clean Energy Pledge for businesses.	Remove action.	N/A
B3.4	Research options to require energy source/carbon disclosure.	Remove action.	N/A
B4.7	Develop revolving loan program and provide seed funding.**	Remove action.	N/A
B4.9	Conduct deep energy/electrification retrofit analysis of City facilities.	Consolidate efforts and move \$50,000 to S1.8.	-0-
B4.10	Address energy use from plug loads at City facilities.	Remove action.	N/A
B4.11	Implement an energy conservation campaign for City staff.	Remove action.	N/A

* N/A indicates that no funding was allocated to that action.

** Council approved appropriation of funds for Project 22-34, which will electrify the water heating and kitchen appliances at the Mountain View Senior Center.

Off-Road Equipment, Tree Canopy, and Water*Develop a New Urban Forest Plan as Part of the City's Biodiversity Strategy (P2.2)*

In April 2022, staff presented the status of the Community Tree Master Plan (CTMP) update to the Parks and Recreation Commission (PRC) at which the PRC and public expressed a desire for a more robust update to the plan to include a comprehensive review of objectives related to the urban forest. In response, the City is currently developing a new Urban Forest Plan (to replace the existing Community Tree Master Plan) to be included in the Citywide Biodiversity Strategy, which will be completed by spring 2024.

Table 3 provides a summary of the recommended modifications to SAP-4 actions in the off-road, tree canopy, and water sectors.

Table 3: Summary of Recommended Modifications to Off-Road, Tree Canopy, and Water Actions

Task	Action	Recommended Modification	Recommended Budget
P2.2	Develop a new Urban Forest Plan as part of the City's Biodiversity Strategy. (Update the Community Tree Master Plan.)	Update action description.	-0-
P2.3	Partner with Canopy to expand tree planting and outreach.	Action is complete; move \$10,120 to P3.1.	-0-
P3.1	Expand use of electric landscaping equipment and test new models.	Allocate funding balance of \$10,120 from P2.3.	\$39,712

Core Sustainability and Outreach*Allocate Funds for Community/Municipal Pilot Projects and Training (S1.3)*

On May 23, 2023, the City Council approved appropriating funds for Project 22-34, which will electrify the water heaters and kitchen appliances at the Mountain View Senior Center. The City also has received \$497,000 in grant funds from Silicon Valley Clean Energy through the Community Decarbonization Demonstration Grant program. The purpose of this grant program is to provide funding to support the electrification of public/community buildings and existing affordable housing complexes. In late 2022, staff evaluated the City's facilities and identified the

electrification conversion of the Senior Center's domestic hot water system and kitchen appliances as a top-priority project for this funding.

Run ElectrifyMV Program to Educate About Home Upgrades (S4.6)

The Electrify Mountain View Site launched in spring 2022. As of spring 2023, 311 Mountain View residents have registered with the site and explored ways to electrify their home, showing the most interest in solar, battery storage, and electric vehicle technologies. Outreach campaigns for summer and fall 2023 are currently being planned to increase registration and engagement with Electrify Mountain View.

Develop a Resolution and Outreach in Support of a Plant-Based Diet (S4.7)

The City Council adopted a resolution in support of a plant-based diet on May 10, 2022. Outreach to residents, employees, and businesses to raise awareness and encourage plant-based eating is ongoing, including in-person and virtual events, a feature in the Sustainability newsletter and social media content. Analysis is in progress for a program supporting plant-based options in restaurants.

Develop a Sustainability Dashboard for the City's Website (S3.3)

The [Sustainability Dashboard](#) was published on the City's website in 2022 and annual data updates are scheduled. The dashboard displays metrics related to climate, recycling and zero waste, transportation, building electrification, and housing. Staff recommends reallocating this action's balance of \$30,000 to SAP-4 Action S1.7 and developing a climate vulnerability and resilience plan.

Implement Neighborhood Based Community Engagement on Decarbonization and Resiliency (S4.5)

This action was renamed from "Run the Cool Block Program in Mountain View neighborhoods" to expand the scope from focusing on the Cool Block program to more general engagement on decarbonization and resiliency. Forty-five (45) residents participated in the second cohort of the Cool Block program, which was completed in 2022. Staff is also exploring an opportunity to further integrate electrification/natural gas pruning into Cool Block engagement. (Natural gas pruning involves converting all customers served by a portion of the natural gas distribution system to fully electric buildings at once so a natural gas line can be capped off.) Staff also recommends consolidating funding from S4.3 due to overlap in scope.

Table 4 provides a summary of the recommended modifications to SAP-4 actions in the core sustainability and outreach sectors.

Table 4: Summary of Recommended Modifications to Core Sustainability and Outreach Actions

Task	Action	Recommended Modification	Recommended Budget*
S1.7	Develop a climate vulnerability and resilience plan. (Develop a City resilience and adaptation plan.)	Update action description and allocate \$30,000 from completed action S3.3.	\$180,000
S1.8	Develop Decarbonization Strategy and Municipal and Community Implementation Plans. (Develop Sustainability Action Plan 5.)	Update action description and consolidate the following actions and funding balances: B2.6 (\$250,000), B4.9 (\$50,000).	\$300,000
S4.3	Develop Community Climate Solutions platform and conduct outreach.	Remove action and move \$35,000 to S4.5.	-0-
S4.5	Implement neighborhood-based community engagement on decarbonization and resiliency. (Run the Cool Block Program in Mountain View neighborhoods.)	Update action description and allocate funding balance of \$35,000 from S4.3.	\$43,887
S4.6	Run Electrify MV program to educate about home upgrades. (Run Yellowtin program to educate about home upgrades.)	Update action description.	-0-
S5.2	Create a program for peer learning support for small businesses.	Remove action and move \$30,000 to B2.4.	-0-
S5.3	Hold sustainability roundtables for large businesses.	Remove action.	N/A
S2.12	Complete 2022 Local Government Operations GHG Inventory. (Complete 2020 Local Government Operations GHG Inventory.)	Update action description.	N/A
S6.2	Reestablish the Green Team of City employees.	Remove action.	N/A

*N/A indicates that no funding was allocated to that action.

Updates on SAP-4 Funded Staffing

The City Council approved seven new positions as part of adopting SAP-4. All positions have been filled except the Deputy Building Official position. The City has contracted with a consultant to recruit this position after three recruitments were not successful.

Table 5 provides updates on each position.

Table 5: Updates on New Staffing

Position	Count/Type	Dept.	Status
Sustainability Facilities Project Manager/Senior Civil Engineer	2 FTE, Limited Period—two years	PWD	Filled since March 2020
Transportation Planner	1 FTE, Ongoing	PWD	Filled since June 2022
Sustainability Facilities Maintenance Worker I/II	2 FTE, Limited Period—two years	PWD	Filled since February 2022
Building and Vehicle Electrification Analyst	1 FTE, Limited-Period—two years	CMO	Filled since September 2022
Chief Sustainability and Resilience Officer	1 FTE, ongoing	CMO	Filled since March 2022
TDM and Parking Demand Management Analyst	1 FTE, ongoing	PWD	Filled since January 2020
Deputy Building Official	1 FTE, ongoing	CDD	Recruitment under way

SAP-4 Budget Update

The City Council approved the creation of a Capital Improvement Program (CIP) (Project 20-99) for Sustainability Projects (the “Sustainability Fund”) on June 11, 2019, with an allocation of \$7.5 million from the General Non-Operating Fund. Council has since approved the allocation of \$3,380,200 to fund the staff positions described previously and \$4,119,800 for projects within SAP-4. Staff has spent or committed \$2,530,395, leaving a balance of \$4,969,695 for SAP-4 projects and personnel.

Figure 2 shows what percentage of the \$7.5 million Sustainability Fund has been spent to date.

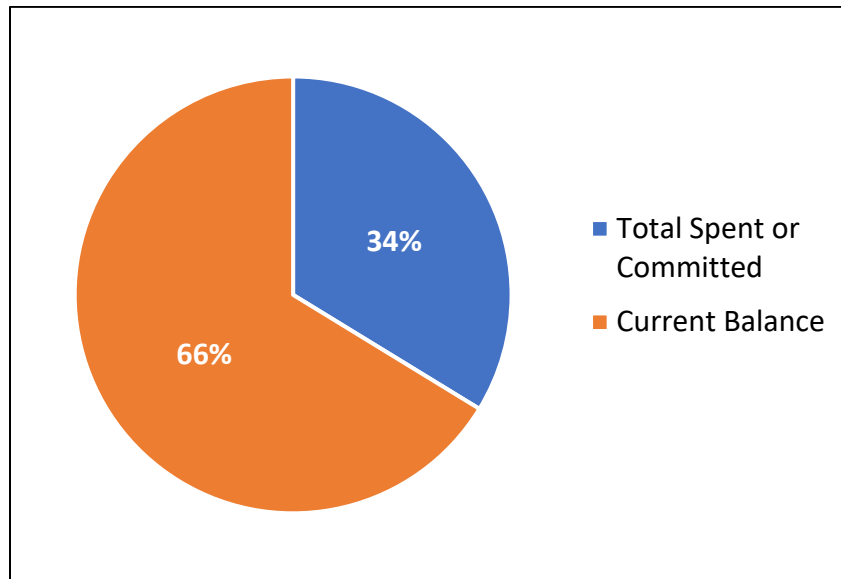


Figure 2: Sustainability Fund Budget and Spending Summary

This level of spending is lower than anticipated due to the impacts of COVID-19 across the community and organization, staff vacancies, and capacity constraints on hiring positions approved in SAP-4. Staff is now implementing many of the delayed or deferred actions and departments have completed the hiring of all but one of the approved positions.

On several occasions, the City has successfully leveraged SAP-4 funding to secure additional sources of funding or provide financing until reimbursements are received. Table 6 provides examples of how SAP-4 budgets were leveraged:

Table 6: SAP-4 Funds Leveraged to Secure Grants

SAP-4 Task	SAP-4/ City Investment	Return or Result	Notes
Conduct assessment to apply for Measure B grant funds (T2.1)	\$15,000 for consultant support for grant materials	\$26.8 million in Measure B grants to advance key bicycle/pedestrian infrastructure projects.	\$4 million for El Camino Real Pedestrian/Bike Improvements, Construction (under way); \$4.8 million for Stevens Creek Trail Extension, Design (to be allocated in coming year); and \$18 million for Bernardo Avenue Undercrossing (\$2.25 million allocated for design, awarded \$750,000 for design plus \$15 million for construction).
Create dedicated funding for active transportation outreach (T3.1)	\$15,000 for Transportation Fund for Clean Air (TFCA) matching funds	\$70,710 TFCA grant award to purchase and install 141 bike racks Citywide	Reimbursement (i.e., \$85,710 spent, \$70,710 reimbursed).
Create dedicated funding for active transportation outreach (T3.1)	\$6,264 City match and supplementary funding	\$12,300 Santa Clara County Healthy Cities grant for bike fix-it stations Citywide	Reimbursement (i.e., \$18,564.66 spent, \$12,300 reimbursed).
Create dedicated funding for active transportation outreach (T3.1)	\$39,960.68 advance for elements associated with Castro Street	\$39,960.68 American Rescue Plan Act (ARPA) grant for pandemic recovery items	City leveraged SAP-4 in order to accelerate implementation of Castro Street Plaza, which is a key walkability effort for the City.
Adopt Vision Zero Policy and develop and implement Action Plan (T5.1)	\$99,988 contract to complete Vision Zero Action Plan (VZAP)/Local Road Safety Plan (LRSP)	\$62,000 Caltrans grant for Local Road Safety Plan	Consultant contract for VZAP/LRSP as Council priority project—\$62,000 reimbursement to account for grant.

SAP-4 Task	SAP-4/ City Investment	Return or Result	Notes
Run the Cool Block Program in Mountain View neighborhoods (\$4.5)	\$125,000 City match	\$125,000 Santa Clara County grant for Cool Block implementation in Mountain View	Supports Cool Block program expansion.
Allocate funds for community/ municipal pilot projects & training (\$1.3).	\$200,000 from Construction/ Conveyance Tax Fund and \$360,000 from Sustainability Projects as matching funds	\$497,000 Silicon Valley Clean Energy Community Decarbonization Demonstration Grant funds	Funding will be used to convert the Mountain View Senior Center's water heating and kitchen from gas to electric.

Recommended Modifications

Staff recommends modification to selected remaining SAP-4 actions to align actions and prioritize high-impact opportunities focused on decarbonization, resilience, and community engagement. The recommended modifications would remove and consolidate some actions and reduce funding for completed actions to reallocate remaining balances. In total, staff is requesting approval to reallocate \$1,118,926 into several existing SAP-4 projects.

Recommended modifications of note include:

- Decarbonization Strategy:** In response to CSC direction to identify strategies to achieve carbon neutrality by 2035, staff recommends development of a Decarbonization Strategy and Implementation Plan as a successor to SAP-4 in lieu of developing SAP-5. Multiple actions related to electrification studies and remaining balances have been reallocated to this proposed action.
- Energy Efficiency and Electrification:** Several actions related to fuel switching, energy efficiency, and electrification have been consolidated into this single action to allow support of larger-scale energy efficiency and electrification initiatives. Potential initiatives include neighborhood-scale electrification, multi-family electrification pilot program, and supplemental electrification incentives.
- Transportation Demand Management:** Several actions related to various aspects of TDM have been consolidated into a single action with Public Works as the lead department.

- **Climate Vulnerability Assessment and Resiliency Plan:** Funding has been increased with funds reallocated from other projects.
- **Community Engagement:** Actions related to outreach and community engagement, including implementation of the neighborhood-based Cool Block program, have been consolidated into a single action.

A detailed overview of all recommended modifications to the Sustainability Fund budget is included in Attachment 2.

DISCUSSION

Staff seeks CSC input on the recommended modifications to the SAP-4 actions and budget, which are contained in Attachments 1 and 2.

NEXT STEPS

1. Staff will incorporate feedback from the CSC into SAP-4 modifications.
2. Staff will bring recommended SAP-4 modifications to Council in June 2023 as part of the Fiscal Year 2023-24 Recommended Budget.
3. Staff will bring a final closeout update on SAP-4 in Fiscal Year 2023-24. Actions anticipated to be outstanding beyond this time frame are also recommended for inclusion in the Council work plan. Progress on outstanding projects will be tracked thereafter through the Council work plan tracking process.
4. Staff will develop a full decarbonization strategy and implementation plan in Fiscal Year 2023-24 for CSC and Council consideration.

CONCLUSION

SAP-4 was adopted to build on the City's past sustainability successes by increasing resources to address climate change and other sustainability challenges. Since adoption, many actions have been completed, but others have been delayed or modified due to COVID-19, staffing constraints, and an evolving sustainability landscape. Staff will incorporate feedback from the CSC into SAP-4 modifications, which will be brought to Council in June 2023 as part of the Fiscal

Year 2023-24 Recommended Budget. Upon completion of SAP-4, staff will develop a full decarbonization strategy for CSC and Council consideration.

DL/LA/1/MGR

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- Attachments:
1. Sustainability Action Plan 4 Progress Update and Recommended Modifications
 2. Sustainability Fund Spending Plan and Recommended Modifications