

CAP Annual Update 2020

RE 1 Renewable Energy

Expanded options to purchase renewable electricity from other sources – Encourage

Recommended Actions

Promote community-shared solar programs that allow residents and businesses to buy into medium-scale solar energy facilities.

Monitor the creation of any green tariff programs, and distribute information about any such programs through digital media and at in-person events.

Status of Actions Completed to Date

- No action to date. This measure is an alternative to RE 2 which has been implemented.

RE 2 Renewable Energy

Community Choice Aggregation – Require

Recommended Actions

If found to be feasible, establish or join a CCA providing a default energy portfolio and at least one “reach” energy portfolio with an increased supply of renewable electricity.

Establish a community lending partner (such as a local credit union) to establish low rates and promote economic growth within the community.

Maintain high participation in the CCA by promoting benefits of a program (cleaner energy, lower cost, and/or support for local economy, etc.) to customers.

Evaluate the program regularly and add additional renewable energy portfolio options consistent with program objectives and customer demand.

Status of Actions Completed to Date

- The City worked closely with the County to launch the Peninsula Clean Energy CCE program.
- The City has 43,383 active Peninsula Clean Energy accounts with an opt-out rate of 2.7% and an opt-up rate of 1.5% for the ECO100 100% renewable energy plan.
- The City of San Mateo opted-up to the Peninsula Clean Energy ECO100 100% renewable energy plan for all municipal accounts.

RE 3 Renewable Energy

Renewable energy systems for new residences – Require

Recommended Actions

Provide educational materials to developers about existing federal, State, and regional programs that support and/or subsidize small-scale or distributed-generation renewable energy systems for local use.

Develop incentives for developers who install renewable energy systems on their developments, including solar photovoltaics and solar water heating. An incentive program could include reduced or waived fees, rebates, or low/no interest loans, among other mechanisms. The City should explore a revolving loan program or dedicated funding source(s) for the incentives. Funding sources could include the City and/or a combination of public and private resources, such as rebates, grants, and loans. Incentive programs should apply to solar photovoltaics and solar water heating though other feasible options could be supported.

Partner with PG&E, San Mateo Energy Watch, a CCA, or others to provide rebates and energy buy-back programs for on-site renewable electricity systems.

Reduce or eliminate existing solar permit fees.

Require new houses and multi-family developments to be solar ready as defined by the California Building Standards Code, to support the installation of a rooftop solar energy array at a later date.

Revise the San Mateo urban design guidelines to allow for nontraditional building design elements if necessary to support on-site renewable energy systems.

Status of Actions Completed to Date

- City Council approved a local amendment to the 2016 California Energy Code for mandatory minimum size solar photovoltaic installation for all single-family, multi-family, and commercial developments in May 2016. This effort required the development of a cost-benefit analysis and approval from the California Energy Commission.
- In 2019, the City Council approved a local amendment to the 2019 California Energy Code to continue to require solar photovoltaic installation in new construction during the 2019 Code Cycle.
- The General Plan Urban Design Element was amended during the CAP adoption process to include language to allow for nontraditional building design elements necessary to support on-site renewable energy systems.
- Peninsula Clean Energy offers a more competitive rate for excess solar power buy-back than PG&E.

RE 4 Renewable Energy

Renewable energy systems for existing residences – Incentivize

Recommended Actions

Provide information to homeowners about existing funding programs for renewable energy systems.

Offer incentives for applicants who install renewable energy systems on their homes as feasible, including same-day permit approval and participation in revolving loan programs.

Promote existing financing programs, such as Property Assessed Clean Energy (PACE) programs, allow homeowners to incrementally pay for renewable energy systems, and explore creating or joining additional programs.

Reduce or eliminate solar permit fees for existing buildings beyond the minimum standards required by Assembly Bill 2188.

Status of Actions Completed to Date

- The City joined 6 PACE programs including Alliance NRG, California First, HERO, Figtree, Ygrene, and Open PACE to provide financing options to residential properties. Information about the PACE programs is available on the City's website and is also being promoted through local contractors.
- City passed a Small Residential Solar Systems Ordinance to streamline the solar permitting process in August 2015 to be compliant with Assembly Bill 2188.
- The City has created a web page to provide information on going solar to property owners and businesses that includes links to different financing options, including PACE programs and hosts at least one solar information workshop a year.
- The City partnered with the Bay Area SunShares program in 2016, 2017, 2018, and 2019 to promote group discounts on residential solar and zero- emission vehicles. The City has hosted three SunShares workshops. The October 2016 workshop resulted in 39 San Mateo program registrations (25 solar and 14 Zero-Emission Vehicles). The September 2017 workshop resulted in 51 San Mateo program registrations (35 solar and 16 Zero-Emission Vehicles). The October 2018 workshop resulted in 23 registrations (16 solar and 7 Zero-Emission Vehicles). The City hosted a workshop in October 2019 but has not received data about 2019 program registrations.

RE 5 Renewable Energy

Renewable energy systems for new nonresidential buildings – Require

Recommended Actions

Provide educational materials to developers about existing federal, State, and regional programs that support and/or subsidize distributed-generation renewable energysystems.

Promote PACE programs to help guide developers and property owners toward fiscally feasible solutions for on-site renewable energy systems.

Offer direct financial subsidies, participation in a revolving loan program, and other incentives for developers who seek to implement distributed-generation renewable energy systems on new commercial developments.

Reduce or eliminate existing solar permit fees beyond the minimum standards required by Assembly Bill 2188.

Provide rebates for on-site renewable energy systems.

Require new nonresidential buildings to be solar ready as defined by the California Building Standards Code, to support the installation of a rooftop solar energy array at a later date.

Status of Actions Completed to Date

- City Council approved a local amendment to the 2016 California Energy Code for mandatory minimum size solar photovoltaic installation for all single-family, multi-family, and commercial developments in May 2016. This effort required the development of a cost-benefit analysis and approval from the California Energy Commission.
- In 2019, the City Council approved a local amendment to the 2019 California Energy Code to continue to require solar photovoltaic installation in new development during the 2019 Code Cycle.

RE 6 Renewable Energy

Renewable energy systems for existing nonresidential buildings – Incentivize

Recommended Actions

Provide information about funding sources and technical aspects of renewable energy systems to property owners, property managers, and tenants.

Promote PACE programs to help building owners and tenants identify fiscally feasible solutions for renewable energy systems.

Provide funding through a revolving loan program, same-day permit approval, and other incentives for property owners who seek to implement distributed-generation renewable energy systems on existing commercial developments.

Reduce or eliminate existing solar permit fees beyond the minimum standards required by Assembly Bill 2188.

Develop a local rebate program for on-site renewable energy systems.

Status of Actions Completed to Date

- The City joined 6 PACE programs including Alliance NRG, California First, HERO, Figtree, Ygrene, and Open PACE to provide financing options to commercial properties.
- The City has created a web page to provide information on going solar to property owners and businesses that includes links to different financing options, including PACE programs.

RE 7 Renewable Energy

Advanced and emerging renewable energy systems – Encourage

Recommended Actions

Educate developers about newly available renewable energy technologies and support efforts to use these technologies in developments.

Proactively create permitting procedures for emerging renewable energy technologies.

Identify opportunities to use newly available renewable energy technologies in City facilities as a demonstration project.

Work with regional partners to support companies developing new renewable energy technologies.

Promote efforts by San Mateo education and research institutions to develop and market renewable energy technologies.

Status of Actions Completed to Date

- No action to date.

EE 1 Energy Efficiency and Conservation

Residential energy efficiency owner-occupied retrofits – Encourage

Recommended Actions

Educate homeowners, property managers, and real estate agents about the benefits of residential energy retrofits, the availability of financing options, and how to participate.

Provide energy retrofit information to project applicants seeking permits for renovation or expansion work on existing houses.

Host residential energy outreach events such as evening workshops and local learn-at-lunch sessions, provide energy retrofit information at community events, and distribute information on residential energy retrofit online and in public buildings.

Publicize the available options and financial benefits of PACE programs.

Status of Actions Completed to Date

- The City hosted 7 public workshops in partnership with the BayREN Energy Upgrade program that included 5 for homeowners. As a result of these efforts, energy efficiency upgrades were completed and rebates paid out to 105 single-family properties. Through the Home Energy Advisor Service, 214 homeowners and contractors have been served.
- City joined 6 PACE programs including Alliance NRG, California First, HERO, Figtree, Ygrene, and Open PACE to provide financing options to homeowners. Information about the PACE programs is available on the City's website and is also being promoted through local contractors.

EE 2 Energy Efficiency and Conservation

Residential energy efficiency renter-occupied retrofits – Incentivize

Recommended Actions

Educate property owners about available financing mechanisms to improve energy efficiency in rental units, such as shared savings programs.

Support efforts by property owners to make improvements to rental units through PACE programs.

Encourage property owners to participate in energy benchmarking efforts.

Work with tenant groups and property management companies to identify actions tenants can take within the bounds of their lease to improve energy efficiency.

Offer low- or no-cost energy audits to property owners who agree to disclose a unit's energy efficiency results to tenants.

Provide incentives such as direct subsidies, participation in revolving loan programs, and expedited permitting to property owners who make energy efficiency improvements to their units beyond any minimum actions required by the adopted energy code.

Status of Actions Completed to Date

- The City hosted 2 energy efficiency workshops for multifamily property owners and sent out letters to 361 MF property owners in partnership with the BAYREN Energy Upgrade program. As a result of these efforts, energy efficiency upgrades were completed and \$498,000 in rebates paid out to 9 multifamily properties (totaling 664 units).
- The City provided supplemental funding to El Concilio, a local non-profit, to target energy efficiency upgrades for low-income households through the Energy Savings Assistance Program. They hired Energy Specialist Ambassadors to go door to door canvassing for the program in both English and Spanish. A total of 58 units in 2015, 308 units in 2016, 140 units in 2017, 68 units in 2018, and 98 units in 2019 were reached through the program. These households had energy and water audits and benefitted from direct install measures of water, lighting, and other low-cost energy efficiency measures.

EE 3 Energy Efficiency and Conservation

Nonresidential energy efficiency retrofits – Incentivize

Recommended Actions

Educate property owners and tenants about retrofit programs and financing options.

Work with nonresidential property owners to offer green leases for tenants, allowing tenants to specify energy efficiency improvements to the space or to help finance energy efficiency retrofits in exchange for reduced occupancy fees.

Publicize the available options and financial benefits of PACE programs.

Support participation in demand-response programs.

Offer low-cost energy audits for business or office parks, including identification of most cost-efficient savings for weatherization or appliance upgrades.

Offer reduced-fee and/or expedited permitting to project applicants including energy retrofit measures in an addition or expansion (as defined in San Mateo Municipal Code Section 23.06.012) of existing

commercial buildings beyond any minimum actions required by the adopted energy code.

Status of Actions Completed to Date

- The City worked closely with the San Mateo Energy Watch to promote the Energy Efficiency Retrofit program for small businesses. The City sent out letters to over 400 target businesses, had volunteers canvassing commercial districts, and made presentations to business district groups. Since 2015, a total of 68 businesses participated in the program and completed retrofits with an estimated savings of 2,292,794 kWh. PG&E continues to work with businesses on energy efficiency but did not have compiled data to report to the City.
- City Council approved a local amendment to the 2016 California Energy Code for mandatory cool roof installation on all new multi-family and new commercial developments with low-sloped roofs.
- The City is publicizing the availability of the Energy Efficiency Retrofit and PACE financing through our website.
- The City participates in the County's Green Business Certification program for small and medium sized businesses. The program verifies that businesses meet higher standards of environmental performance and take actions to conserve resources, prevent pollution, and minimize waste. There are currently 19 certified businesses in San Mateo.

EE 4 Energy Efficiency and Conservation

Energy efficiency at healthcare centers – Incentivize

Recommended Actions

Work with building owners of medical, healthcare, and hospital uses to promote cost-effective energy efficiency retrofits through associated financial savings, opportunities to improve patient care, and public image enhancement.

Collaborate with PG&E and community partners to identify packages of cost-effective energy efficiency retrofits that can be easily applied to different healthcare facilities.

Educate large healthcare facilities about the availability of energy savings performance contracts as a means to identify and facilitate financing opportunities.

Share information about available energy efficiency retrofit financing opportunities, including PACE efforts.

Promote a "staged" energy retrofit system as a way to maximize energy and cost savings.

Provide low or no-cost energy audits to healthcare facilities.

Establish a revolving loan fund for healthcare energy efficiency programs.

Offer reduced-fee and/or expedited building permits as feasible to healthcare facilities conducting energy retrofit programs as part of a renovation or expansion of existing buildings beyond any minimum actions required by the adopted energy code.

Status of Actions Completed to Date

- No action to date.

EE 5 Energy Efficiency and Conservation

Residential energy education and low-cost retrofits – Encourage

Recommended Actions

Conduct outreach to homeowners, renters, real estate agents, and property managers about low-cost retrofits and energy-efficient behaviors.

Status of Actions Completed to Date

- The City participated in the Cool California Challenge which was an energy efficiency competition focused on low-cost home retrofits and individual actions. The volunteers for the program tabled at over 10 community events throughout the competition and enrolled 230 residents in the challenge. The City placed 5th out of the 22 participating cities.
- The City provided supplemental funding to El Concilio, a local non-profit, to target energy efficiency upgrades for low-income households through the Energy Savings Assistance Program. They hired Energy Specialist Ambassadors to go door to door canvassing for the program in both English and Spanish. A total of 58 units in 2015, 308 units in 2016, 140 units in 2017, 68 units in 2018, and 98 units in 2019 were reached through the program. These households had energy and water audits and benefitted from direct install measures of water, lighting, and other low-cost energy efficiency measures.
- Staff collaborated with the County on providing Home Energy and Water Saving Toolkits at the library. The "Check It Out" kits are stocked with energy and water conservation supplies, measuring devices, and step-by-step instructions. Toolkit users may keep some of the supplies including compact fluorescent light bulbs, faucet aerators, weather stripping and a low-flow showerhead. Libraries within the City loaned out 44 Energy Water Savings Toolkits in 2017, 24 Toolkits in 2018, and 20 Toolkits in 2019.
- The City worked closely with HomeIntel, a PG&E sponsored program that provides no cost energy audits. Since October 2017, 110 residents have registered for the energy audit.

EE 6 Energy Efficiency and Conservation

Nonresidential energy education and low-cost retrofits – Encourage

Recommended Actions

Conduct outreach to businesses and nonresidential building owners about low-cost retrofits and energy-efficient behaviors.

Provide information about local, regional, and green business certification opportunities at time of business license issuance or renewal.

Modify the City's business license form to allow identification of green businesses to track participation and to identify potential private partners for future GHG reductions.

Status of Actions Completed to Date

- The City participates in the County's Green Business Certification program for small and medium sized businesses. The program verifies that businesses meet higher standards of environmental

performance and take actions to conserve resources, prevent pollution, and minimize waste. There are currently 19 certified businesses in San Mateo.

- The City worked closely with the San Mateo Energy Watch to promote the Energy Efficiency Retrofit program for small businesses. The City sent out letters to over 400 target businesses, had volunteers canvassing commercial districts, created a webpage and made presentations to business district groups. Since 2015, a total of 68 businesses participated in the program and completed retrofits with an estimated savings of 2,292,794 kWh. PG&E continues to work with businesses on energy efficiency but did not have compiled data to report to the City.

ME 1 Municipal Energy Efficiency and Conservation

Energy efficiency for new City buildings – Incentivize

Recommended Actions

Seek grant funding or low- or no-interest loans to implement energy saving efforts and renewable energy systems at City facilities at time of construction or substantial renovation.

Status of Actions Completed to Date

- The City is studying energy efficiency and renewable energy installations for the new Wastewater Treatment Plant facilities as part of the Clean Water Program.
- Fire Station 25 will include installation of solar PV that will exceed the minimum required by the City's local amendment. The Fire Station 25 design aims to meet LEED Silver standards but will not undergo the certification process due to the additional costs of certification.

ME 2 Municipal Energy Efficiency and Conservation

Energy efficiency at existing City buildings – Incentivize

Recommended Actions

Develop an energy conservation education campaign for City staff.

Identify sources of funding for energy efficiency retrofits.

Status of Actions Completed to Date

- The City entered into a contract with PG&E for the Sustainable Solutions Turnkey program for energy efficiency retrofits at City facilities. The \$3.2 million project includes upgrades to most all City facilities including, City Hall, Corp Yard, libraries, Police Department, fire stations, Downtown parking garages, and recreation facilities. Energy efficiency improvements include interior and exterior lighting upgrades, replacement of heating and cooling systems, and implementation of integrated control strategies. Work began in August 2018.
- The City was awarded grant funds of \$50,000 in 2018 from San Mateo County Energy Watch (SMCEW) Call for Projects to fund small building lighting upgrades. Lighting upgrades were completed at 15 park facilities including small restrooms and storage sheds.
- City has converted 80% of our streetlights converted to LED bulbs for a total of 5,629.
- The City worked closely with San Mateo County Energy Watch on municipal retrofits that included free energy audits, energy efficiency, retrofits, rebates and incentives. Since 2014, there have been

3 municipal retrofit projects with a total savings of 650,325 kWh.

AF 1 Alternative Fuels

Public EV charging stations – Require

Recommended Actions

Install public EV charging stations in desirable, high-volume, and prominent locations (e.g., near the entrance to a downtown parking garage).

Status of Actions Completed to Date

- In June 2018, the City installed six Level 2 charging ports at the Municipal Corporation Yard.
- The Library received a new fully electric outreach van that will support enhance community's access to Library programs.
- The City has eight Level 2 Charging ports at City-owned garages and facilities including the Central Garage, Main Library, and City Hall. During 2019, these EV chargers were used a combined average of 800 times per month.
- The City entered into an agreement with NRG EVgo to install two DC Fast Chargers and two Level 2 Chargers at the Transit Center Garage. During 2019, the DC Fast Chargers at this location are hosting an average of 725 charging sessions per month.

AF 2 Alternative Fuels

Increased EV adoption – Require

Recommended Actions

Provide information about the benefits of EVs and PHEVs through the City's electronic media systems and at public events, including creating opportunities for public EV/PHEV testdrives.

Conduct educational outreach to homeowners, commercial property owners, and developers about the benefits of EV charging stations.

Identify and distribute resources to assist community members seeking to install an EV charging station on their properties.

Amend the San Mateo Zoning Code to allow EV chargers to encroach into the required parking stall area.

Decrease permit fees and/or offer expedited permitting for EV charging stations.

Create an additional rebate, potentially in conjunction with regional communities, for property owners who install EV charging stations.

Purchase EVs or PHEVs as replacements for gasoline-powered vehicles or conventional hybrids in the City fleet that are not converted to CNG-powered vehicles, as available and cost-effective.

Require that new projects of at least six multi-family residential units and/or 10,000 square feet of nonresidential square footage, if off-street parking is provided, include a number of EV charging stations with designated parking spaces capable of meeting the California Green Building Code Voluntary Standards at time of new construction or addition or alteration as defined in San Mateo Municipal Code

Section 23.06.012.

Require all new single-family houses and multi-family units with private attached garages or carports to be pre-wired for an EV charging station inside the garage or carport.

Status of Actions Completed to Date

- The City hosted four Electric Vehicle Expos in 2015, 2016, 2017, and 2018 as part of National Drive Electric Week. The 2015 event attracted over 400 participants and a total of 135 test drives of electric vehicles were completed as part of the event. The 2016 event had over 350 participants and a total of 78 test drives. The 2017 event had over 400 participants and a total of 120 test drives. The 2018 event had 200 participants and 42 test drives.
- In November 2016, City Council approved a local amendment to the 2016 California Green Building Code requiring a higher number of electric vehicle ready (EV ready) parking spaces than what is required by the State for new multi-family and commercial construction projects.
- In October 2019, City Council approved a local amendment to the 2019 California Green Building Code requiring a higher number of electric vehicle ready parking spaces than what is required by the State for new multi-family and commercial construction projects. The local amendment also requires that new commercial construction projects install electric vehicle supply equipment.
- The City passed an ordinance in October 2017 to be compliant with Assembly Bill 1226 that amended Title 23 of the San Mateo Municipal Code and creates an expedited and streamlined permitting process for electric vehicle charging stations.

AT 1 Alternative Transportation

Public shuttles – Encourage

Recommended Actions

Conduct an outreach campaign to San Mateo residents and employees about available shuttle and vanpool options to support increased ridership.

Work with riders and shuttle providers to identify potential improvements to service schedules and route coverage, including possible expansion of routes to locations outside of San Mateo/Foster City.

Status of Actions Completed to Date

- Through a grant from MTC, the City has created the Connect San Mateo website that provides detailed information on shuttles and other alternative transportation modes in San Mateo. The website went live in April 2016 and the marketing campaign ran from late May 2016 to October 2016.
- The City applied for and received a grant to pilot a new shuttle service that is on-demand during off peak hours to provide better access to the downtown from residential areas that are underserved by transit. The San Mateo Connect Shuttle piloted services August 2017 through August 2018. Service was discontinued due to the low ridership during the pilot period and the reduction in sponsorship availability for the next cycle.

AT 2 Alternative Transportation

Transportation Demand Management (TDM) – Require

Recommended Actions

Educate developers working on projects in San Mateo about ways to reduce vehicle miles traveled and the resultant benefits.

Publicize developments and businesses with successful TDM programs.

Work with regional partners to fund successful TDM strategies for existing developments that can be implemented with little or no cost to property owners (e.g., City-subsidized transit passes).

Require new developments of at least six multi-family units and/or 10,000 square feet of nonresidential space to implement a suite of TDM strategies to comply with the appropriate trip reduction target identified in applicable area plans and the future San Mateo Citywide TDM Plan (currently under development).

Require developments of at least 20 multi-family units and/or 50,000 square feet of nonresidential space undergoing additions or alterations (as defined in San Mateo Municipal Code Section 23.06.012) to implement TDM strategies consistent with the targets in relevant area plans and the future San Mateo Citywide TDM Plan.

Status of Actions Completed to Date

- The City is actively working to implement the TDM program in the Rail Corridor area of the City.
- The City has been collecting funds from recent downtown developments with the intention of establishing a Downtown TDM program in the future.
- The City piloted a carpool program with Scoop Technologies to subsidize the cost of trips in and out of San Mateo. The program ran from October 2016 to February 2017 with 2,400 participants, matched 15,000 carpooler trips and reduced vehicle trips by 9,000. C/CAG piloted a similar program August 2017 through June 2018, offering financial incentives through Scoop. During C/CAG's program, there were 51,728 trips reduced.

AT 3 Alternative Transportation

Expand car share program – Incentivize

Recommended Actions

Conduct an outreach campaign intended to increase use of car share vehicles.

Discuss including dedicated car share parking spaces in applications for new construction and additions/alterations of multi-family or nonresidential developments that include off-street parking.

Seek funding and coordinate with car share operators to offer reduced-cost car share trial memberships for San Mateo residents.

Provide streamlined permitting for development projects allowing car share vehicles to be parked in required on-site visitor parking spaces.

Status of Actions Completed to Date

- The City received a grant from MTC in 2015 to expand car sharing across the City. Since receiving the grant, the City issued an RFP for a car sharing provider. Zipcar has operated at seven locations in San Mateo, three of those locations are currently active.
- The car share grant from MTC funded the Connect San Mateo website and marketing campaign that provides detailed information on all the available alternative transportation modes in San Mateo. The website went live in April 2016 and the marketing campaign ran from late May 2016 to October 2016.
- City policy allows new developments to locate car share vehicles in the on-site visitor parking spaces.

AT 4 Alternative Transportation

Increase bicycle mode share – Incentivize

Recommended Actions

Host bicycle safety and awareness efforts for bicyclists, pedestrians, and drivers.

Work to expand bike-to-school commutes through the Safe Routes to School program.

Work with the Metropolitan Transportation Commission and other regional partners to expand Bay Area Bike Share stations at destinations as identified in the San Mateo Bike Share Feasibility Study, and explore opportunities to reduce Bay Area Bike Share costs for San Mateo residents and employees. Work with project developers to locate Bike Share stations in publicly accessible areas of new developments.

Install additional bike racks and long-term bike storage lockers at City facilities.

Continue to secure funding for full implementation of the infrastructure improvements identified in the adopted Bicycle Master Plan, including 40 miles of bike paths/lanes and associated pavement markings (green bike lanes, bike boxes, etc.), improved bicycle parking at Caltrain stations and downtown locations, raised pavement markers, and bicycle detection loops at signalized intersections.

Status of Actions Completed to Date

- The City developed a Shared Mobility Permit Program that was adopted by City Council in May 2019. To date, the City has not received applications from shared mobility operators.
- The City launched a new dockless bike share system with Lime Bike May 2018 through February 2019. Lime operated 275 manual pedal and electric bikes in the City. There was an average of 7,887 trips per month.
- Since 2015, the City has hosted numerous community-wide bicycle safety and awareness events including Streets Alive, Parks Alive, the Labor Day Family Fun Ride, annual Bike to Work Day Energizer Stations, Bicycle Commuters Workshop, Bay Bike Rides and Safe Routes to Schools (SR2S) educational workshops and presentations on bicycle and pedestrian safety for kids. The City hosted a Citywide Bike Tour as part of the Bicycle Master Plan project.
- The City added 6 miles of Class I bicycle lanes, 18 miles of Class II lanes, and 20 miles of Class III signage and marking since the initial Bicycle Master Plan was adopted in 2011.

- The City received TDA Article 3 grant funding to update the Citywide Bicycle Master Plan. Since the update began in summer 2018, the City has collected input from community members, City staff, and several advisory groups through outreach events, meetings, and an online interactive map. Four rounds of community engagement were held which included a Kick-off Open House, a Citywide Community Bike Tour, and six Pop-up Outreach events where over 250 people participated. The updated Bicycle Master Plan was adopted in April 2020.
- The City received Measure A grant funding for a bike boulevard on 28th Avenue. Community feedback on the initial and conceptual design was gathered through outreach meetings and an online survey on the City's website. The City is in the process of finalizing the design, which consists of traffic calming and bicycle/pedestrian facility enhancements.
- The City received \$2.5 million in grant funding in June 2015 from the Caltrans Active Transportation Program (ATP) for Safe Routes to Schools Program (SR2S) to make physical improvements to improve pedestrian and bicycle access to local schools. The infrastructure portion was completed in February 2018 and included curb extensions/bulb-outs, median refuge islands, and rectangular rapid flashing beacon all throughout San Mateo and within 0.5 mile radius of 12 schools.
- The City installed 53 u-racks and 4 decorative bicycle racks including bike racks at the Downtown, Hillsdale, and Hayward Park Caltrain Stations, and in the 25th Avenue Commercial districts. In 2017, the City conducted an inventory of existing bicycle parking and identified areas for additional bicycle parking to be installed in 2018. This includes new bike parking at many recreation facilities and in downtown locations. In 2020, the City installed 22 u-racks and 49 decorative bike racks for recreation facilities and in downtown locations.
- The City allocated funding for a pilot installation of self-service bicycle repair stations. The City installed five repair stations at key locations recommended by City staff and the community through an online community survey. Each station is currently undergoing an assessment to determine if relocation is necessary.

AT 5 Alternative Transportation

Increase pedestrian mode share – Require

Recommended Actions

Improve pedestrian safety through education and outreach efforts.

Support efforts to walk to school through the Safe Routes to School program.

Provide development incentives for new buildings that promote a pedestrian-friendly streetscape through minimal setbacks, ground-floor activity, etc., consistent with the San Mateo Urban Design Element and urban design guidelines.

Secure funding for and fully implement the infrastructure improvements identified in the adopted Pedestrian Master Plan, including green and complete streets, additional sidewalks as needed, lighting and curb improvements, parklets, intersection and crossing improvements, etc.

Status of Actions Completed to Date

- The City received \$2.5 million in grant funding in June 2015 from the Caltrans Active Transportation Program (ATP) for Safe Routes to Schools Program (SR2S) to make physical improvements to

improve pedestrian and bicycle access to local schools. The infrastructure portion was completed in February 2018 and included pedestrian ramps, crosswalks, curb extensions/bulb-outs, median refuge islands, and rectangular rapid flashing beacon all throughout San Mateo and within 0.5 mile radius of 12 schools.

- The City is currently in the construction phase of the North B Street Improvement Project. It includes mid-block crossings on North B Street between Tilton Avenue and Baldwin Avenue to improve pedestrian safety and access.
- The City completed the installation of lead pedestrian interval timing at 25 intersections in Downtown San Mateo.
- The City completed the North Central Pedestrian Improvement Project for improved pedestrian crosswalks and enhanced pedestrian scale street lighting.
- The City has installed 74 new curb ramps since 2014 in various locations across the City.
- The City allocated funding to implement “Complete Streets” improvements to enhance pedestrian and bicycle safety on North San Mateo Drive. The design consists of new lighting, curb extensions at key pedestrian crossings, enhanced striping and signage, and new pedestrian countdown signal infrastructure.
- The City received TDA Article 3 grant funding to evaluate deficiencies in pedestrian access to the City’s major transit stations and high quality transit stops. The study will recommend improvements within a radius of one-half mile from each location to create safe and comfortable walking routes for all ages and abilities.

SW 1 Solid Waste

Increase participation in composting program – Require

Recommended Actions

Provide educational outreach materials to multi-family residents about urging HOA/property managers to support composting programs.

Work with Recology San Mateo County to include information about adding composting services in monthly garbage and recycling bills to existing BizSMART customers.

Work with food service facilities to understand barriers to utilizing existing composting programs. Use this clearer perception of roadblocks to mitigate concerns and target incentives more specifically at high food-waste facilities.

Work with multi-family and commercial property owners to minimize any potential health or cleanliness impacts associated with compost collection bins.

Explore alternative off-site collection methods to capture compostable materials from multi-family units.

Provide a diversion discount to participating commercial and multi-family users to incentivize properly and fully utilize compost services.

Mandate that all commercial properties over 10,000 square feet and multi-family buildings of at least four

units with sufficient space to store and access a composting bin participate in curbside or offsite composting by 2020.

Require that all commercial properties over 10,000 square feet and multi-family buildings of at least four units have an area of sufficient space to store and allow access to a compost bin at time of construction or additions/alterations, as defined in San Mateo Municipal Code Section 23.06.012.

Status of Actions Completed to Date

- City staff, in partnership with CalRecycle and Recology, are currently implementing a program to contact all commercial customers regarding AB 1826, which requires over a three year phased plan for the commercial sector to have an organic collection program and implement a program if one does not exist. All commercial customers received mailed notification including education regarding AB 1826, the benefits of establishing an organic collection program and the bill's requirements and will receive updated information on an annual basis.
- The City requires all new developments to have sufficient space to store and access a composting bin on-site.
- The City along with South Bayside Waste Management Authority (SBWMA), our solid waste JPA, is in final stages of installing an organic extrusion system for an Organic to Energy Pilot Program (O2E). The O2E pilot will turn organic waste still in the garbage brought into the SBWMA owned Shoreway Environmental Center's transfer station into a slurry for biodigestion. The slurry will be trucked to nearby Silicon Valley Clean Water and anaerobically digested into methane for renewal natural gas or electricity production. The O2E pilot will process approximately 50 tons of source separated organics and 25 tons of garbage daily. Assuming positive results from the pilot, the O2E program will be scaled up. The projected benefits of the expanded program are a decrease in organic debris and garbage going to landfill; extending the life of our current landfill; and an increase production of green electricity and renewable natural gas from 800 tons or more of trash a day. The O2E Program will help enhance diversion at multifamily dwellings or buildings with space restraints restricting the options for composting.
- Additionally, advance automated recycling sorting equipment is being installed with new system processes at the Shoreway Environmental Center. The process will improve sorted material recovery and quality enhancing the value of the recyclables in a very limited and competitive marketplace.

WW 1 Water and Wastewater

Water efficiency retrofits for existing buildings – Incentivize

Recommended Actions

Provide educational materials at outreach events that include personal actions and technical solutions for minimizing indoor water use.

Visit local schools and community centers to give presentations about conservation.

Partner with the Bay Area Water Supply & Conservation Agency (BAWSCA) for efficiency rebate programs on high efficiency toilets, washing machines, and other water-conserving appliances.

Work with Cal Water to offer low-cost or free water audits to businesses and homeowners. Provide a list of recommended water-efficient appliances and fixtures that could remedy problem areas found in the audit.

Status of Actions Completed to Date

- The City website contains detailed information about the available rebates for water efficiency improvements offered by Cal Water for both commercial and residential properties. Cal Water has done a number of direct mailings to also provide this information within the City of San Mateo. In addition, the City has promoted the availability of these resources through the City e-newsletter.
- In November 2016, City Council approved a local amendment to the 2016 California Green Building Code to require mandatory laundry-to-landscape diverter valves to be installed on all new single family homes
- The City is partnering with BAWSCA to provide an additional rebate of \$50 per rain barrel installation to match the existing rebate of \$50. This program was implemented in Fall 2017 and a total of 44 rebates have been processed.

WW 2 Water and Wastewater

Water-efficient landscaping – Require

Recommended Actions

Provide educational materials to the community about drought-tolerant landscaping. Promote aesthetic and low-maintenance co-benefits of native, water-efficient plants.

Continue to host and increase frequency of City-offered water-efficient landscaping classes.

Adopt the Sustainability Commission’s revisions to the Landscape Water Efficiency Ordinance, or formally adopt the BAWSCA ordinance.

Partner with local nurseries to subsidize drought-tolerant and/or native plants.

Partner with Cal Water and/or BAWSCA to host a trade-in program for inefficient sprinklers for more efficient drip irrigation systems.

Retrofit City-owned landscapes to increase the amount of drought-resistant and/or native plant landscaping.

Status of Actions Completed to Date

- The City adopted the latest State Water Efficient Landscape regulations in February 2016.
- Green Teen Program and Park staff re-landscaped a portion of Mariners Island Park with drought tolerant plants and drip irrigation during Summer 2018. Teens were an integral part of the re-landscaping from start to finish. They made each of the drip irrigation rings that circle each plant, which was a major undertaking.
- Updated landscaping at Hayward Square Park is drought tolerant and uses drip irrigation.
- The City replaced all the landscaping at City Hall with new drought tolerant landscaping and plans to promote it as a demonstration project for the City. Renovation was also completed at Laurie Meadow playground and the Poplar Creek clubhouse with drought tolerant plants and water saving irrigation.
- The City installed an artificial turf playing field in Los Prados Park which reduces water use by 7 million gallons per year. The City also installed synthetic turf at King Park to reduce water consumption.
- The City revised the Park Division Irrigation Standards in early 2018 that is used on all City landscaping projects to reduce the amount of water use.

- The City hosted 5 classes for residents on drought-tolerant landscaping, featuring information on available rebates. These include five annual Water Wise Seminars for professional landscapers and regional city staff that provided information on the latest regulations and rebates available and four home greywater installation workshops to provide methods for reusing indoor water for outdoor landscaping.
- The City posts updated information about the current drought regulations and available rebate programs on our website.

WW 3 Water and Wastewater

Develop new sources of nonpotable water – Incentivize

Recommended Actions

Provide outreach materials for community members about greywater, including potential uses, safety considerations, and relationship to drought protection.

Partner with Cal Water or BAWSCA to host rain barrel demonstrations for homeowners.

Explore partnering with another community or water provider to create a multi-jurisdictional wastewater production and distribution system.

Pursue funding to construct recycled water production and/or distribution system.

Create a rain barrel rebate program for City residents who want to add rainwater capture systems on their properties for non-potable use.

Offer expedited and/or reduced cost permits to new developments and major renovations of existing developments that include greywater systems or pipes for recycled water.

Status of Actions Completed to Date

- The Clean Water Program at the Wastewater Treatment Plant will create a source of recycled water within the next 10 years. The program is currently investigating partnerships for end-users and for the distribution of the resource.

OR 1 Off-Road Equipment

Alternative fuel lawn and garden equipment – Encourage

Recommended Actions

When purchasing new City-owned landscaping equipment, buy hybrid and alternative fuel models as feasible.

Conduct education campaigns and outreach events to property owners and landscaping companies about the availability of hybrid and alternative fuel landscaping equipment, and available incentives such as the BAAQMD Lawn Mower Exchange.

Status of Actions Completed to Date

- Parks and Recreation maintenance staff are conducting a pilot to evaluate the efficiency and

durability of non-gasoline powered equipment in selected locations. Staff continue to test different products and batteries.

OR 2 Off-Road Equipment

Alternative fuel construction equipment – Encourage

Recommended Actions

Work with local property developers and contractors to promote the availability of hybrid and alternative fuel construction equipment.

When purchasing new City-owned construction equipment, buy hybrid and alternative fuel models as feasible.

Status of Actions Completed to Date

- No action to date.