



Appendix H

Implementation Matrices

Photo Credit: County of Napa

Greenhouse Gas Reduction Actions Implementation Matrix

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-1-A	Secure funding to support the implementation of energy efficiency and electrification actions.	► All	► Bay Area Air District ► BayREN	Securing Funding	2026	2027
BE-1-B	Create a pre-electrification program that provides affordable financing, rebates, or other incentives for electric panel upgrades.	► All	► Bay Area Air District ► BayREN ► MCE ► MTC/ABAG ► PG&E	New Program	2026	2028
BE-1-C	Work with the CECSP to develop reach codes and associated cost effectiveness studies.	► All	► BayREN Codes & Standards ► CECSP	Reach Code / Ordinance	2026	2045
BE-1-D	Determine reach code compliance triggers for retrofits.	► All	► N/A	Reach Code / Ordinance	2026	2027
BE-1-E	Conduct stakeholder outreach with building industry members, contractors, residents, business, and others to present reach code options and solicit feedback.	► All	► Napa Chamber of Commerce	Education / Outreach	2026	2027
BE-1-F	Adopt ordinance(s) to implement and enforce new reach code(s) for existing buildings. Pursuant to new statewide residential building code update limitations in Assembly Bill (AB) 130 (signed into law on June 30, 2025), a residential reach code may not be adopted and enforced until in 2031; however, nonresidential reach code adoption and enforcement may proceed starting in 2026.	► All	► N/A	Reach Code / Ordinance	2026	2031
BE-1-G	Conduct training for permitting staff to understand reach code requirements for existing buildings and how compliance will be demonstrated.	► All	► BayREN Codes & Standards	Education / Outreach	2026	2027

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-1-H	Develop a tracking system for measures related to energy efficiency upgrades, decarbonization, or pre-wiring completed by applicants pursuant to reach code requirements.	► All	► N/A	New Program	2026	2028
BE-1-I	Review existing permitting processes for building owners seeking to replace fossil fuel-powered equipment with electric equipment and modify as needed.	► All	► N/A	Municipal Operations	2026	2027
BE-1-J	Waive or reduce permitting fees for building retrofit projects that convert mixed-fuel buildings to all-electric and cap natural gas lines	► All	► N/A	Municipal Operations	2026	2045
BE-1-K	Develop a community outreach program to enable and encourage energy conservation and gas-to-electric conversions in residential and commercial buildings for space and water heating.	► All	► BayREN ► MCE ► PG&E	Education / Outreach	2026	2028
BE-1-L	Develop a revolving loan fund to provide low-interest loans to cover time-of-replacement/emergency replacement of natural gas water heaters and/or HVAC units with electric options.	► All	► Bay Area Air District ► BayREN	Securing Funding	2026	2045
BE-1-M	Work with MCE to improve participation in various programs.	► All	► MCE	Partnership	2026	2028
BE-1-N	Secure long-term funding to continue offering energy efficiency, electrification, and other net-zero carbon rebates.	► All	► Bay Area Air District ► BayREN	Securing Funding	TBD	Ongoing
BE-1-O	Provide a sliding scale of rebates that offers more rebates in the short-term and less in the long-term.	► All	► Bay Area Air District ► BayREN ► MCE ► MTC/ABAG ► PG&E	New Program	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-1-P	Review existing building reach codes at the release of each triennial building code cycle to ensure they do not conflict with updates.	► All	► BayREN Codes & Standards ► CECSP	Reach Code	TBD	Ongoing
BE-1-Q	Continue to streamline permitting and electrification program outreach.	► All	► N/A	Municipal Operations	TBD	Ongoing
BE-1-R	Research opportunities to work with local financial institutions to offer zero or low percent financing for a limited time or on a sliding scale based on income.	► All	► Bay Area Air District	Securing Funding	TBD	Ongoing
BE-2-A	Encourage a local energy benchmarking program for existing non-residential buildings.	► All	► BayREN	Education / Outreach	2028	Ongoing
BE-2-B	Require an energy score disclosure at time of listing property sale.	► All	► BayREN Codes & Standards ► BayREN Green Labeling	Ordinance	2028	2029
BE-3-A	Collaborate with utilities and other partners to offer rebates and incentives for renewable energy and storage.	► All	► Bay Area Air District ► MCE ► PG&E	Partnership	2028	2030
BE-3-B	Prioritize outreach to non-residential and residential property owners based on their electricity use by jurisdiction.	► All	► MCE ► PG&E	Education / Outreach	2028	Ongoing
BE-3-C	Continue to seek funding to sustain local programs in tandem with retrofit efforts under BE-1.	► All	► Bay Area Air District ► MCE ► PG&E	Securing Funding	TBD	Ongoing
BE-4-A	Support sustainability certification of wineries to reach a target of 75 percent of wineries certified by 2030.	► All	► Napa Green ► CA Sustainable Winegrowing Alliance ► Sustainability in Practice (SIP) Certified	Partnership	2026	2030

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-4-B	Require new wineries, winery retrofits, and additions greater than 10 percent of existing square footage to attain sustainability certification.	► All	<ul style="list-style-type: none"> ► Napa Green ► CA Sustainable Winegrowing Alliance ► Sustainability in Practice (SIP) Certified 	Ordinance	2026	2045
BE-4-C	Work with sustainability certification entities to quantify GHG reductions.	► All	<ul style="list-style-type: none"> ► Napa Green ► CA Sustainable Winegrowing Alliance ► Sustainability in Practice (SIP) Certified 	Partnership	2026	2028
BE-4-D	Work with sustainability certification programs to determine funding needs for increased certification targets.	► All	<ul style="list-style-type: none"> ► Napa Green ► CA Sustainable Winegrowing Alliance ► Sustainability in Practice (SIP) Certified 	Partnership	2026	2028
BE-4-E	Target 90 percent of wineries countywide to become certified in sustainability, including all new wineries, by 2045.	► All	<ul style="list-style-type: none"> ► Napa Green ► CA Sustainable Winegrowing Alliance ► Sustainability in Practice (SIP) Certified 	Partnership	2030	2045
BE-5-A	Adopt a regionally consistent energy efficiency and renewable energy building reach code for new construction of residential and non-residential buildings, including major additions. Pursuant to new statewide residential building code update limitations in AB 130 (signed into law on June 30, 2025), a residential reach code may not be adopted and enforced until 2031; however, nonresidential reach code adoption and enforcement may proceed starting in 2026.	► All	<ul style="list-style-type: none"> ► Bay Area Air District ► BayREN ► MCE 	Ordinance	2026	2031

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-5-B	Track progress of state codes and bills related to climate and energy to inform the region's reach code.	► All	► N/A	Research	2027	Ongoing
BE-5-C	Develop reach codes requiring low carbon concrete and materials with low embodied carbon. Pursuant to new statewide residential building code update limitations in AB 130 (signed into law on June 30, 2025), a residential reach code may not be adopted and enforced until 2031; however, nonresidential reach code adoption and enforcement may proceed starting in 2026.	► All	► N/A	Ordinance	2027	2028
BE-5-D	Regularly update the reach code in accordance with the State's building energy code cycles and legislation.	► All	► Bay Area Air District ► BayREN ► MCE	Monitoring and Updating	TBD	Ongoing
BE-6-A	Increase education, awareness, and access to available rebates and incentives for energy efficiency.	► All	► BayREN ► MCE ► PG&E ► Switch is On	Education / Outreach	2029	Ongoing
BE-6-B	Develop a dedicated website for electrification and renewable energy resources for residents and businesses.	► All	► N/A	Education / Outreach	2029	2031
BE-6-C	Partner with contractors to promote the website at time-of-replacement or remodels.	► All	► Local contractors and news outlets	Partnership	2029	2031
BE-6-D	Use partnerships to promote appliance upgrades to energy efficient technologies and products.	► All	► BayREN ► CBOs ► MCE ► PG&E	Partnership	2029	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
BE-6-E	Promote alternatives to natural gas in all commercial sectors.	► All	► BayREN ► MCE ► PG&E	Education / Outreach	2029	Ongoing
BE-6-F	Promote use of electric cooking appliances in commercial kitchens.	► All	► BayREN ► MCE ► PG&E	Education / Outreach	2029	Ongoing
BE-6-G	Create a pilot of a series of exhibitions for local restaurants to demonstrate the effectiveness and benefits of induction cooktops.	► All	► BayREN ► CBOs	New Program	2029	2031
BE-6-H	Evaluate the effectiveness of short-term outreach and adjust as needed.	► All	► BayREN ► CBOs ► Local contractors and news outlets ► MCE ► PG&E ► Switch Is On	Monitoring and Updating	TBD	Ongoing
BE-6-I	Evaluate countywide transition away from natural gas use and adjust outreach, as needed.	► All	► BayREN ► CBOs ► MCE ► PG&E	Monitoring and Updating	TBD	Ongoing
TR-1-A	Work with NVTA to develop and adopt “transit first” policies for all jurisdictions.	► All	► NVTA	Partnership	2030	2032
TR-1-B	Support expanded analysis of VMT for passenger and commercial vehicle trips.	► All	► NVTA	Partnership	2030	2032
TR-1-C	Implement VMT reduction strategies as part of discretionary land use and community development efforts.	► All	► NVTA	Partnership	TBD	Ongoing
TR-2-A	Identify funding to conduct a study on winery wastewater treatment demands.	► All	► Bay Area Air District	Securing Funding	2029	2030

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
TR-2-B	Partner with Napa Green, California Sustainable Winegrowing Alliance, SIP Certified, or other comparable programs to help gather data.	► All	<ul style="list-style-type: none"> ► California Sustainable Winegrowing Alliance ► Napa Green ► SIP Certified 	Partnership	2029	2030
TR-2-C	Coordinate with the CAC to consider implementation options and/or seek funding for the solution(s) recommended by the study.	► All	<ul style="list-style-type: none"> ► Bay Area Air District ► California Sustainable Winegrowing Alliance ► Napa Green ► SIP Certified 	Evaluate Options / Secure Funding	TBD	Ongoing
TR-2-D	Continue to monitor winery wastewater treatment trends to identify opportunities to reduce hauling VMT.	► All	► N/A	Research	TBD	Ongoing
TR-3-A	Work with partners and local EV charging programs to identify areas and opportunities to install chargers for medium- and heavy-duty fleets.	► All	► MTC	Partnership	2026	2028
TR-3-B	Analyze existing private parking lots and educate/incentivize owners to take advantage of funding opportunities such that at least 10 percent of their spaces have EVSE and at least an additional 10 percent are EV-ready.	► All	► NVTA	Research	2026	2027
TR-3-C	Review requirements every 5 years and update the requirements to increase the percentage of parking lots with EV chargers.	► All	► NVTA	Research	TBD	Ongoing
TR-4-A	Work with partners to evaluate the need for stations based on the State's forecasted growth of hydrogen vehicles.	► All	<ul style="list-style-type: none"> ► Hydrogen Fuel Cell Partnership ► NVTA 	New Program	2031	2035
TR-4-B	Identify locations where hydrogen fueling stations could be built.	► All	<ul style="list-style-type: none"> ► Hydrogen Fuel Cell Partnership ► NVTA 	Research	2031	2032

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
TR-4-C	Install at least one hydrogen fueling station in the county by 2030.	► All	► Hydrogen Fuel Cell Partnership ► NVTA	Partnership	2031	2035
TR-4-D	Adopt an ordinance that expedites scaled permitting of fuel stations that offer renewable fuels.	► All	► Hydrogen Fuel Cell Partnership ► NVTA	Ordinance	2029	2030
TR-4-E	Require expedited EV charging permitting in all jurisdictions.	► All	► BayREN	Ordinance	2026	2027
TR-4-F	Require 50 percent of parking spaces in new development to be EV-capable by 2030.	► All	► BayREN	Ordinance	2026	2030
TR-4-G	Adopt an EV charging station reach code that establishes minimum EV charging standards for all new residential and non-residential development.	► All	► BayREN	Ordinance	2026	2027
TR-4-H	Provide incentives for new hydrogen fueling installations in the identified locations noted in the short-term actions.	► All	► Hydrogen Fuel Cell Partnership ► NVTA	Incentives	TBD	Ongoing
TR-4-I	Evaluate the feasibility of the ordinance at least once every five years and update, as necessary.	► All	► Hydrogen Fuel Cell Partnership ► NVTA	Monitoring and Updating	TBD	Ongoing
TR-4-J	Review the requirements at least once every five years and make requirements more stringent, as feasible, in accordance with CALGreen voluntary recommendations.	► All	► Hydrogen Fuel Cell Partnership ► NVTA	Monitoring and Updating	TBD	Ongoing
TR-5-A	Adopt a policy to support the requirements of Advanced Clean Fleet regulations as they relate to municipal fleets.	► All	► N/A	Ordinance	2028	2032
TR-5-B	Work with municipal fleet operators across the region to identify and mitigate any barriers that hinder ZEV adoption.	► All	► N/A	Municipal Operations	2028	2029
TR-5-C	Work with partners to pursue funding for EV deployment projects in municipalities.	► All	► Bay Area Air District	Securing Funding	2027	2045

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
TR-5-D	Review and address any barriers to achieving the 2030 targets and adjust the targets, as needed.	► All	► Bay Area Air District	Monitoring and Updating	TBD	Ongoing
TR-6-A	Conduct outreach to local commercial fleet operators to provide information on existing incentives, support the retirement of older vehicles, and establish requirements to replace fossil fuel-powered vehicles or engines with ZEV or carbon neutral fuel alternatives.	► All	► Local commercial fleet operators ► Napa Chamber of Commerce ► Napa County Farm Bureau	Education / Outreach	2027	2031
TR-6-B	Educate and provide resources to commercial fleet operators, vehicle manufacturers, or leasing companies regarding available funding for EV rebates from all available sources for both new and used EVs.	► All	► Bay Area Air District ► Local commercial fleet operators	Securing Funding	2028	2030
TR-6-C	Review and address any barriers to achieving the short-term actions and adjust, as needed.	► All	► Bay Area Air District ► Local commercial fleet operators ► Napa Chamber of Commerce ► Napa County Farm Bureau	Monitoring and Updating	TBD	Ongoing
TR-7-A	Partner with Bay Area Air District and others to pursue EV funding/rebates for residents.	► All	► Bay Area Air District	Securing Funding	2028	2030
TR-7-B	Evaluate income limits and consider providing additional incentives for residents	► All	► Bay Area Air District	Incentives	2028	2029
TR-7-C	Continue short-term actions, and evaluate and adjust incentive programs as needed.	► All	► Bay Area Air District	Monitoring and Updating	TBD	Ongoing
TR-8-A	Adopt an ordinance in all jurisdictions that permanently bans or phases out the development of new and existing fossil fuel pumps.	► All	► N/A	Ordinance	2034	2035
TR-8-B	Evaluate the feasibility of the ordinance at least once every five years and update, as needed.	► All	► N/A	Monitoring and Updating	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
TR-9-A	Incentivize the sale of renewable diesel countywide, targeting a minimum of five stations offering R99 or R100 by 2030.	► All	► N/A	Incentives	2028	2032
TR-10-A	Support NVTA's adoption and implementation of the forthcoming NVTA Countywide Active Transportation Plan.	► All	► NVTA	Partnership	2025	2025
TR-10-B	Support NVTA's efforts to secure funding for and consider opportunities to implement projects, programs, and policies of the Countywide Vision Zero Plan, Local Roadway Safety Plans, and other documents that address multimodal safety improvements.	► All	► NVTA	Securing Funding	2028	2029
TR-10-C	Support NVTA's efforts to report annual jurisdiction-level progress toward targets for active transportation infrastructure and policies to advance mode shift.	► All	► NVTA	Partnership	2028	Ongoing
TR-10-D	Update municipal codes to incorporate comprehensive bicycle, e-bike, and micromobility parking and charging standards.	► All	► NVTA	Ordinance	2027	Ongoing
TR-10-E	Support NVTA's efforts to evaluate opportunities and deploy secure bicycle parking in downtowns and key retail and employment destinations.	► All	► NVTA	Research	2027	2028
TR-10-F	Establish (and/or update) and implement policies addressing active transportation facility maintenance and access.	► All	► NVTA	Ordinance	2027	2028
TR-10-G	Support and coordinate with NVTA efforts to develop the Active Transportation Plan, ensure consistency with the Active Transportation Plan in local planning efforts, and avoid unnecessary or duplicative work.	► All	► NVTA	Partnership	2025	2025

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TR-10-H	Encourage cross-agency collaboration between Caltrans, MTC/ABAG, NVTA, and local jurisdictions in the county to identify, prioritize, and secure funding for active transportation projects consistent with local and regional plans	► All	<ul style="list-style-type: none"> ► Caltrans ► MTC/ABAG ► NVTA 	Partnership	Ongoing	Ongoing
TR-10-I	Continue updating the plans and evaluating the effectiveness of previous strategies and measures in reducing VMT and increasing the shift to active transportation modes.	► All	► NVTA	Monitoring and Updating	TBD	Ongoing
TR-10-J	Evaluate progress and effectiveness of requirements and modify as necessary to meet policy goals and priorities.	► All	► NVTA	Monitoring and Updating	TBD	Ongoing
TR-11-A	Support NVTA's efforts to secure additional funding to support existing active transportation mobility incentives and rebate programs.	► All	<ul style="list-style-type: none"> ► BAY AREA AIR DISTRICT ► NVTA 	Securing Funding	2028	2029
TR-11-B	Consider increasing funding support to expand current TDM programs.	► All	<ul style="list-style-type: none"> ► BAY AREA AIR DISTRICT ► NVTA 	Securing Funding	2028	Ongoing
TR-11-C	Develop and adopt local TDM ordinances in all jurisdictions by 2028.	► All	<ul style="list-style-type: none"> ► BAY AREA AIR DISTRICT ► NVTA 	Ordinance	2028	2030
TR-11-D	Support feasibility analysis for MAAS, particularly in urban areas.	<ul style="list-style-type: none"> ► American Canyon ► Napa 	► NVTA	Partnership	2028	2030
TR-11-E	Evaluate the progress and effectiveness of the ordinance and TDM program and modify, as needed.	► All	► NVTA	Monitoring and Updating	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
TR-12-A	Consider funding options to improve local transportation infrastructure (e.g., transient occupancy tax reallocation or expansion, paid parking requirements at wineries or events, road congestion fees, development impact fees).	► All	► NVTA	Securing Funding	2027	2029
TR-13-A	Support NVTA in developing a visitor TDM program that targets recreational trips.	► All	► NVTA ► Visit Napa Valley	Partnership	2027	2028
TR-14-A	Consider the feasibility of reducing minimum parking standards or establishing maximum parking standards. If determined to be feasible and appropriate, develop and adopt ordinances amending parking standards in local zoning codes.	► All	► NVTA	Ordinance	2033	2035
TR-14-B	Implement parking supply-related measures.	► All	► NVTA	Ordinance	TBD	Ongoing
TR-14-C	Modify zoning codes to unbundle parking from rent for all new multi-family residential developments with 16 or more units located within ¼ mile of arterials or collectors with fixed route service.	► All	► NVTA	Ordinance	TBD	Ongoing
TR-15-A	Market existing transit/transportation options to support mode shift.	► All	► Napa County Bike Coalition ► NVTA ► Visit Napa Valley	Education / Outreach	2028	Ongoing
TR-15-B	Consider bike delivery pilot programs to demonstrate the effectiveness of zero-emission local deliveries.	► All	► NVTA	New Program	2028	2030
TR-15-C	Continue to expand awareness, education, and community action.	► All	► Napa County Bike Coalition ► NVTA ► Visit Napa Valley	Education / Outreach	TBD	Ongoing

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OF-1-A	Promote incentive programs to encourage converting or replacing fossil fuel-powered gardening equipment with electric alternatives.	► All	► N/A	Incentives	2029	Ongoing
OF-1-B	Implement a countywide ban on fossil fuel-powered landscape equipment under 25 horsepower by 2030.	► All	► N/A	Ordinance	2029	2033
OF-1-C	Develop a “lawn and garden equipment trade-in program” to provide vouchers or rebates for purchasing electric landscape equipment to residents and businesses.	► All	► Bay Area Air District	New Program	2029	2031
OF-1-D	Explore opportunities to provide more funding through extending Bay Area Air District incentives or developing new incentives for electric off-road equipment.	► All	► Bay Area Air District	Securing Funding	2029	2030
OF-1-E	Continue short-term actions until all gardening equipment has been electrified (or uses zero-carbon alternatives).	► All	► N/A	Monitoring and Updating	TBD	Ongoing
OF-1-F	Evaluate program progress and track implementation with CARB’s OFFROAD model.	► All	► Bay Area Air District	Monitoring and Updating	TBD	Ongoing
OF-2-A	Electrify 33 percent of existing commercial loading docks to include electric charging ports for trucks and TRUs by 2030.	► All	► Napa Green ► NVTA	Ordinance	2029	Ongoing
OF-2-B	Coordinate with Napa Green or other similar programs to include electrification of loading docks as a criterion for certification.	► All	► Napa Green	Partnership	2029	2031
OF-2-C	Electrify 100 percent of existing commercial loading docks to include electric charging ports for trucks and TRUs.	► All	► Napa Green ► NVTA	Ordinance	TBD	Ongoing
OF-2-D	Evaluate progress and effectiveness of requirements and modify as necessary to meet policy goals and priorities.	► All	► Napa Green	Partnership	TBD	Ongoing

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OF-3-A	Provide information about available incentives for electric construction and portable equipment to contractors at the building permit counter.	► All	► N/A	Education / Outreach	2030	Ongoing
OF-4-A	Consider incorporating the use of electric construction and portable equipment in evaluation processes for capital improvement projects.	► All	► N/A	Capital Improvement Program	2029	Ongoing
OF-4-B	Evaluate progress and effectiveness of requirements and modify as necessary to meet policy goals and priorities.	► All	► N/A	Monitoring and Updating	TBD	Ongoing
SW-1-A	Expand the Residential Backyard Composting Program for single-family residences.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Modified Program	2025	Ongoing
SW-1-B	Adopt and implement the draft Reusable Food Ware and Waste Reduction Ordinance.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency 	Ordinance	2025	2026
SW-1-C	Develop a feasibility study to adopt a similar ordinance in all cities in the region.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency 	Research	2025	2026

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SW-1-D	Pursuant to SB 1383, implement an Edible Food Recovery Program.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Partnership	2025	Ongoing
SW-1-E	Implement a Mandatory Commercial Food Waste Diversion Program.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Ordinance	2025	2026
SW-1-F	Conduct random annual waste bin audits with local waste collection operators to check compliance.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	New Program	2025	2026
SW-1-G	Continue to implement the program and support backyard composting.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Modified Program	TBD	Ongoing

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SW-1-H	Monitor progress of ordinance implementation and enforcement.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Monitoring and Updating	TBD	Ongoing
SW-1-I	Evaluate progress and effectiveness of requirements and modify, as needed.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Monitoring and Updating	TBD	Ongoing
SW-2-A	Develop a unified Construction Waste Management Plan to require and achieve recycling or reuse of at least 70 percent of C&D waste from every project starting in 2035.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency 	Research	2033	2042
SW-2-B	Review the plan every 10 years to incorporate updated construction waste management practices.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency 	Monitoring and Updating	TBD	Ongoing

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SW-3-A	Require jurisdictions to inform residents and businesses about available local programs and information of type of waste accepted as recyclable, solid waste, or compostable.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Education / Outreach	2026	2027
SW-3-B	Update the Napa Countywide Waste Reduction and Recycling Curriculum.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Education / Outreach	2030	2031
SW-3-C	Partner with school districts to require that schools use the Napa Countywide Waste Reduction and Recycling Curriculum.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa Valley Unified School District ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Partnership	2030	2032
SW-3-D	Evaluate progress and effectiveness of requirements and modify, as needed.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Recology American Canyon ► Upper Valley Waste Management Agency ► Upper Valley Disposal Services ► Berryessa Garbage Service 	Monitoring and Updating	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
SW-3-E	Review the Napa Countywide Waste Reduction and Recycling Curriculum for its applicability to the whole community.	► All	<ul style="list-style-type: none"> ► Napa County Office of Education ► Napa County Recycling and Waste Services ► Napa Valley Unified School District ► Recology American Canyon ► Upper Valley Waste Management Agency 	Monitoring and Updating	TBD	Ongoing
SW-4-A	Work with American Canyon Landfill and Clover Flat Landfill to confirm current landfill gas collection efficiency.	► Unincorporated County	<ul style="list-style-type: none"> ► American Canyon Landfill ► Clover Flat Landfill ► Upper Valley Disposal Services 	Partnership	2026	2027
SW-4-B	Conduct a feasibility study to determine solutions to restart CH ₄ capture and either flare, collect, or generate electricity from CH ₄ to reduce intensity of emitted GHGs.	► Unincorporated County	<ul style="list-style-type: none"> ► Recology American Canyon ► Upper Valley Disposal Services ► 	New Program	2026	2045
SW-4-C	Establish requirements that both landfills provide evidence to substantiate their collection efficiency improvements are being achieved.	► Unincorporated County	<ul style="list-style-type: none"> ► Recology American Canyon ► Upper Valley Disposal Services ► 	Ordinance	2026	2028
SW-4-D	Require that both landfills provide evidence to substantiate their collection efficiency in a report by the end of 2046.	► Unincorporated County	<ul style="list-style-type: none"> ► American Canyon Landfill ► Clover Flat Landfill ► Recology American Canyon ► Upper Valley Disposal Services 	Monitoring and Updating	TBD	Ongoing
SW-5-A	Partner with landfills outside Napa County that receive waste from the county to increase CH ₄ capture.	► All	<ul style="list-style-type: none"> ► Napa County Recycling and Waste Services ► Recology American Canyon 	Partnership	2033	2045
SW-6-A	Support waste management providers and jurisdictions in installing waste-to-energy systems.	► Unincorporated County	<ul style="list-style-type: none"> ► Recology American Canyon ► Upper Valley Waste Management Agency 	Partnership	2034	2043

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
SW-6-B	Review permitting process and loans at least once every 5 years for feasibility.	► Unincorporated County	► Recology American Canyon ► Upper Valley Waste Management Agency	Monitoring and Updating	TBD	Ongoing
SW-6-C	Coordinate with other local agencies and jurisdictions to develop and implement decentralized waste-to-energy systems.	► Unincorporated County	► Recology American Canyon ► Upper Valley Waste Management Agency	Partnership	TBD	Ongoing
WW-1-A	Require public and private wastewater treatment plants to conduct a full evaluation and report on proposed solutions to reduce CH ₄ emissions not captured by existing waste-to-energy systems.	► All	► Local wastewater agencies	Ordinance	2032	Ongoing
WW-1-B	Evaluate progress and effectiveness of requirements and modify, as needed.	► All	► Local wastewater agencies	Monitoring and Updating	TBD	Ongoing
WW-2-A	Encourage wastewater agencies to conduct a feasibility study to expand the supply of recycled water and infrastructure.	► Unincorporated County	► Local wastewater agencies	Partnership	2030	2032
WW-2-B	Plan the expansion of recycled water pipelines to meet demand.	► Unincorporated County	► Local wastewater agencies	Plan	TBD	Ongoing
WW-2-C	Reevaluate the feasibility of Purified Water based on updated cost estimates.	► Unincorporated County	► Local wastewater agencies	Monitoring and Updating	TBD	Ongoing
WW-3-A	Target average indoor residential water use of 47 gallons per capita per day or less for 2025-2029.	► All	► Napa County Flood Control & Water Conservation District	Incentives	2029	Ongoing
WW-3-B	Offer a selection of rebate incentives for residential customers.	► All	► Napa County Flood Control & Water Conservation District	Incentives	2029	Ongoing
WW-3-C	Consider increasing “Cash for Grass” rebate amounts to accelerate the conversion of residential lawns to water-efficient landscaping.	► All	► Napa County Flood Control & Water Conservation District	Incentive	2029	2033

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
WW-3-D	Consider special direct installation programs to provide water efficiency upgrades for underserved community members.	► All	► Napa County Flood Control & Water Conservation District	New Program	2029	2033
WW-3-E	Implement advanced metering infrastructure or offer smart home water monitor rebates.	► All	► Napa County Flood Control & Water Conservation District	New Program	2029	2033
WW-3-F	Target average indoor residential water use of 42 gallons per capita per day or less for 2030 and beyond.	► All	► Napa County Flood Control & Water Conservation District	Monitoring and Updating	TBD	Ongoing
WW-3-G	Reduce or eliminate rebates in the long-term based on available funding, changes in cost-effectiveness, or market saturation; and add new rebates as innovative, proven water-saving products arise.	► All	► Napa County Flood Control & Water Conservation District	Monitoring and Updating	TBD	Ongoing
WW-3-H	Continue to seek funding for residential water conservation rebates.	► All	► Napa County Flood Control & Water Conservation District	Secure Funding	TBD	Ongoing
WW-4-A	Identify priority municipal landscaping areas for replacement with native, drought-tolerant alternatives.	► All	► Napa County Flood Control & Water Conservation District	Research	2034	2035
WW-4-B	Consider certification of at least one public works staff member from each jurisdiction to implement sustainable and climate-smart landscapes.	► All	► N/A	New Program	2034	2035
WW-4-C	Adopt regionally consistent ordinances to implement and enforce AB 1572.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	2034	2037
WW-4-D	Maintain sustainable landscape training regimen for public works staff.	► All	► Napa County Flood Control & Water Conservation District	Education / Outreach	TBD	Ongoing
WW-4-E	Continue local enforcement of AB 1572.	► All	► Napa County Flood Control & Water Conservation District	Local Enforcement	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
WW-5-A	Establish and enforce local regulations that prohibit certain wasteful uses of potable water permanently.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	2030	2031
WW-5-B	Adopt at minimum a core set of permanent water waste prohibitions with an aim to reduce the use of potable water for outdoor activities.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	2030	2031
WW-5-C	Expand core set of permanent water waste prohibitions, as needed.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	TBD	Ongoing
WW-6-A	Ensure Napa and American Canyon's compliance with SB 555 Maximum Real Loss Standards of 22.9 and 21.4 gallons per service connection per day, respectively, by January 1, 2028.	► American Canyon ► Napa	► Napa County Flood Control & Water Conservation District	Ordinance	2031	2033
WW-6-B	Use a prioritization approach to asset management.	► All	► Napa County Flood Control & Water Conservation District	Modified Program	2031	2032
WW-6-C	Evaluate progress and effectiveness of requirements and modify, as needed.	► All	► Napa County Flood Control & Water Conservation District	Monitoring and Updating	TBD	Ongoing
WW-7-A	Offer rebate incentives for non-residential customers.	► All	► Napa County Flood Control & Water Conservation District	Incentives	2034	Ongoing
WW-7-B	Increase "Cash for Grass" rebate amounts to accelerate the conversion of non-functional, non-residential turf areas to water efficient landscaping.	► All	► Napa County Flood Control & Water Conservation District	Incentive	2034	2035
WW-7-C	Pursue grant funding for rebate programs.	► All	► Napa County Flood Control & Water Conservation District	Securing Funding	2034	Ongoing
WW-7-D	Increase both awareness of and access to available rebates and techniques for water use efficiency by taking a regional approach to public outreach.	► All	► Napa County Flood Control & Water Conservation District ► Napa County Office of Education	Education / Outreach	2027	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
WW-7-E	Adopt regionally consistent ordinances to implement and enforce AB 1572.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	TBD	Ongoing
WW-7-F	Study the feasibility of applying tiered water rates to non-residential customers for agencies that currently apply uniform volumetric rates for non-residential water consumption.	► All	► Napa County Flood Control & Water Conservation District	Research	2034	2035
WW-7-G	Rank non-residential customers by annual water use and require top users to undergo periodic water audits to identify areas for improvement.	► All	► Napa County Flood Control & Water Conservation District	New Program	2033	2034
WW-7-H	Enforce WELO for covered projects, ensuring the installation of climate-appropriate plants and efficient irrigation systems.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	2034	Ongoing
WW-7-I	Adopt regionally consistent local amendments that include more stringent water efficiency and conservation measures. Pursuant to new statewide residential building code update limitations in AB 130 (signed into law on June 30, 2025), a residential reach code may not be adopted and enforced until 2031; however, nonresidential reach code adoption and enforcement may proceed starting in 2026.	► All	► Napa County Flood Control & Water Conservation District	Ordinance	2034	Ongoing
WW-7-J	Develop a regional water conservation web page that links all residents and business owners to their water provider's conservation web page and rebate offerings.	► All	► Napa County Flood Control & Water Conservation District	Education / Outreach	2027	2028
WW-7-K	Encourage growers to take advantage of Napa RCD water distribution uniformity testing.	► All	► Napa RCD	Education / Outreach	2034	Ongoing
WW-7-L	Partner with Napa RCD and UCCE Master Gardeners to expand free Water-Wise Landscaping Workshops countywide via webinar offerings and/or additional in-person sessions up valley and in American Canyon.	► All	► Napa RCD ► UCCE Master Gardeners	Partnership	2027	2029

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
WW-7-M	Partner with Napa RCD and UCCE Master Gardeners to expand the Climate-Friendly Garden Tour to multiple days and jurisdictions.	► All	► Napa RCD ► UCCE Master Gardeners	Partnership	2027	2029
WW-7-N	Train and certify 100 local QWEL professionals by 2030.	► All	► Sonoma-Marin Saving Water Partnership	New Program	2027	2031
WW-7-O	Train 60 local K-12 teachers in Project WET by 2030.	► All	► Project WET Foundation	New Program	2027	2031
WW-7-P	Partner with ZunZun program to expand Musical Water Education Assemblies.	► All	► ZunZun	Partnership	2027	2029
WW-7-Q	Leverage an annual video contest winner as a countywide public service announcement for water conservation.	► All	► Napa County Flood Control & Water Conservation District ► Napa County Office of Education	Education / Outreach	2027	Ongoing
WW-7-R	Reduce or eliminate rebates in the long term based on available funding, changes in cost-effectiveness, or market saturation.	► All	► N/A	Monitoring and Updating	TBD	Ongoing
WW-7-S	Add new customized rebates as innovative, proven water-saving products arise.	► All	► N/A	Monitoring and Updating	TBD	Ongoing
WW-7-T	Continue to seek funding for non-residential water conservation rebates.	► All	► N/A	Secure Funding	TBD	Ongoing
WW-7-U	Continue local enforcement of AB 1572 non-functional turf irrigation ban and encourage affected non-residential entities to certify their compliance with the State Water Board every three years.	► All	► N/A	Local Enforcement	TBD	Ongoing
WW-7-V	Adopt tiered water rates for non-residential customers, if feasible.	► All	► N/A	Ordinance	TBD	Ongoing
WW-7-W	Offer free water audits to all non-residential customers.	► All	► N/A	New Program	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
WW-7-X	Implement a formal water conservation program for the top 20 percent of non-residential water users.	► All	► N/A	New Program	TBD	Ongoing
WW-7-Y	Work with sustainability programs to include the highest level of water efficiency measures as technology evolves.	► All	► N/A	Monitoring and Updating	TBD	Ongoing
WW-7-Z	Consider establishing a Water Building Performance Standard.	► All	► N/A	Ordinance	TBD	Ongoing
AG-1-A	Explore opportunities to provide more funding or develop a new incentive program for buying electric agricultural equipment.	► Unincorporated County	► Bay Area Air District ► NRCS	Securing Funding	2027	2030
AG-1-B	Encourage the retirement of fossil fuel-powered equipment and the use of fossil fuels.	► Unincorporated County	► Napa RCD	Education / Outreach	2027	Ongoing
AG-1-C	Include a list of available incentives to support purchase of electric agricultural equipment on various websites.	► Unincorporated County	► Napa County Farm Bureau ► Napa Farmers Market Association ► Napa RCD	Education / Outreach	2027	2028
AG-1-D	Develop an irrigation pump replacement program.	► Unincorporated County	► Napa RCD	New Program	2027	2029
AG-1-E	Provide vouchers or rebates for the installation of solar electric irrigation pumps or the purchase of carbon-neutral fuels.	► Unincorporated County	► Napa RCD	Incentives	2027	2028
AG-1-F	Continue the funding program to achieve 100 percent transition of eligible equipment to electric or solar.	► Unincorporated County	► Bay Area Air District ► Napa County Farm Bureau ► Napa Farmers Market Association ► Napa RCD ► NRCS	Ongoing Program Implementation	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
AG-1-G	Continue the replacement program to achieve 100 percent of irrigation pumps transitioned to electric or renewable fuels.	► Unincorporated County	► Napa RCD	Ongoing Program Implementation	TBD	Ongoing
AG-2-A	Support the agricultural community in converting to alternatively fueled offroad equipment or renewable diesel.	► Unincorporated County	► Napa County Farm Bureau ► Napa Green ► Napa RCD	Partnership	2026	Ongoing
AG-2-B	Encourage maintenance and operations of field equipment.	► Unincorporated County	► Napa County Farm Bureau ► Napa Green ► Napa RCD	Education / Outreach	2026	Ongoing
AG-2-C	Evaluate the effectiveness of short-term actions and adjusted, as needed.	► Unincorporated County	► Napa County Farm Bureau ► Napa Green ► Napa RCD	Monitoring and Updating	TBD	Ongoing
AG-3-A	Establish partnerships with entities that assist growers in implementing carbon farming practices.	► Unincorporated County	► Napa RCD ► UC ANR	Partnership	2026	2027
AG-3-B	Work with community organizations to develop and distribute educational resources on increasing carbon sequestration.	► Unincorporated County	► Napa RCD ► UC ANR	Education / Outreach	2026	Ongoing
AG-3-C	Support local partners as they deliver or develop carbon farming plans.	► Unincorporated County	► Napa County Farm Bureau ► Napa RCD	Partnership	2026	2027
AG-3-D	Support local supply chain solutions that support carbon farming efforts.	► Unincorporated County	► Napa RCD	Partnership	2026	2027
AG-3-E	On the RCAAP website, develop a webpage dedicated to carbon farming and list the farmers, wineries, ranchers, and land managers who are currently practicing carbon farming.	► Unincorporated County	► Napa County Farm Bureau ► Napa RCD ► UC ANR	Monitoring and Updating	TBD	Ongoing
AG-4-A	Update the annual crop report to include carbon farming practices.	► Unincorporated County	► Napa RCD ► Napa Green	Municipal Operations	2027	2028

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
AG-4-B	Review the crop reporting format after the Carbon Farming Program study is complete for any gaps.	► Unincorporated County	► Napa RCD ► Napa Green	Monitoring and Updating	TBD	Ongoing
AG-5-A	Create, adopt, and implement urban forest management plans in all jurisdictions by 2030.	► American Canyon ► Calistoga ► Napa ► St. Helena ► Yountville	► Napa RCD	Research	2030	2033
AG-5-B	Target a 20 percent expansion of the urban forest by 2035 from 2019 levels.	► American Canyon ► Calistoga ► Napa ► St. Helena ► Yountville	► Napa RCD	Monitoring and Updating	2030	2039
AG-5-C	Consider having consistent replacement requirements for tree removals across all jurisdictions.	► American Canyon ► Calistoga ► Napa ► St. Helena ► Yountville	► Napa RCD	Ordinance	2030	2032
AG-5-D	Evaluate the effectiveness of short-term actions and adjust, as needed.	► American Canyon ► Calistoga ► Napa ► St. Helena ► Yountville	► Napa RCD	Monitoring and Updating	TBD	Ongoing
AG-6-A	Develop a dedicated countywide watershed management and habitat restoration program that coordinates with relevant stakeholders and departments to accelerate habitat restoration.	► Unincorporated County	► Napa RCD	New Program	2025	2027
AG-6-B	Evaluate the effectiveness of short-term actions and adjust, as needed..	► Unincorporated County	► Napa RCD	Monitoring and Updating	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
AG-7-A	Encourage and incentivize all vineyards to apply for and achieve sustainable vineyard certification.	► All	► Napa Green ► Wine Institute	Incentives	2025	Ongoing
AG-7-B	Support sustainability certification of vineyards to reach a target of 75 percent of existing vineyard acreage to be certified by 2030.	► All	► Napa Green	Partnership	2026	2030
AG-7-C	Collaborate and incentivize sustainability certification programs to expand their reach and quantify the metrics they track for all participants.	► All	► Napa Green	Incentives	2026	2028
AG-7-D	Work with sustainability certification program administrators to determine additional funding needs for increased certification targets.	► All	► Napa Green	Partnership	2026	2027
AG-7-E	Review the short-term actions every five years to include more community groups in target audience list.	► All	► Napa Green ► Wine Institute	Monitoring and Updating	TBD	Ongoing
AG-7-F	Begin certifying all new vineyard acres in the County starting in 2030.	► All	► Napa Green ► Wine Institute	Ordinance	TBD	Ongoing
AG-8-A	Encourage livestock owners to include feed additives that reduce CH ₄ emissions from cattle.	► Unincorporated County	► Napa RCD ► Local chapter of California Cattleman's Association ► UC ANR	Education / Outreach	2029	Ongoing
AG-8-B	Adopt ordinances that discourage or prohibit anaerobic manure management in favor of pasture-managed or composted manure.	► Unincorporated County	► Napa RCD	Ordinance	2029	2030
AG-8-C	Review and update ordinances every five years to apply more stringent regulations.	► Unincorporated County	► Napa RCD ► Local chapter of California Cattleman's Association ► UC ANR	Monitoring and Updating	TBD	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Start	End
AG-9-A	The County will explore the potential benefits of establishing a mitigation program and update the Conservation Regulations in Chapter 18 of the County Code, if needed.	► Unincorporated County	► Developers ► Land owners/managers	Ordinance	2026	2026
AG-9-B	The County will apply the mitigation program to proposed land development projects subject to County review and approval.	► Unincorporated County	► Developers ► Land owners/managers	Development Review	2026	Ongoing
AG-9-C	The County will monitor replanting projects required as mitigation for proposed projects on an ongoing basis to ensure that carbon sequestration and storage benefits under this program are achieved over the long-term.	► Unincorporated County	► Developers ► Land owners/managers	Monitoring and Reporting	2026	Ongoing

Notes: AB = Assembly Bill; ABAG = Association of Bay Area Governments; BayREN = Bay Area Regional Energy Network; C&D = construction and demolition; CAC = Napa County Climate Action Committee; CARB = California Air Resources Board; CBO = community-based organization; CECSP = Certified Electric Safety Compliance Professional; CH₄ = methane; EV = electric vehicle; EVSE = electric vehicle supply equipment; MAAS = mobility as a service; MTC = Metropolitan Transportation Commission; N/A = not applicable; Napa RCD = Napa County Resource Conservation District; NRCS = Natural Resource Conservation Service; NVTA = Napa Valley Transportation Authority; PG&E = Pacific Gas & Electric Company; SB = Senate Bill; SIP = Sustainability in Practice; TBD = to be determined; TDM = transportation demand management; TRU = transport refrigeration unit; UC ANR = University of California Department of Agriculture and Natural Resources; UCCE = University of California Cooperative Extension; VMT = vehicle miles traveled; WELO = water efficient landscape ordinance; ZEV = zero-emission vehicle.

¹ The measure associated with each Action ID in this table can be found in Chapter 3 of the RCAAP.

² For sake of brevity, each Action Description included in this table may be a shortened or abbreviated version of the full action language found in Chapter 3 of the RCAAP.

Source: **Compiled by Ascent in 2025.**

Adaptation Actions Implementation Matrix

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
ALL-1.1	Collaborate among departments and jurisdictions to ensure progress on existing actions and measures in other plans	► All	► N/A	Monitoring and Updating	Ongoing
ALL-1.2	Monitor and evaluate local hazard mitigation actions and update, as needed.	► All	► N/A	Monitoring and Updating	1-5 Years (Near-Term)
ALL-2.1	Advocate for and implement countywide climate change adaptation-related initiatives.	► All	► N/A	Partnership	Ongoing
ALL-3.1	Require owners/developers to waterproof structures and foundations in 100- and 500-year floodplains.	► All	► N/A	Capital Improvement / Infrastructure Project	Ongoing
ALL-3.2	Establish wildfire risk reduction requirements for new and existing residential and commercial developments.	► All	► CAL FIRE ► NCCF	Capital Improvement / Infrastructure Project	Ongoing
ALL-3.3	Encourage and incentivize the use of pervious and reflective paving surfaces and climate-smart landscaped surfaces in new and existing developments.	► All	► N/A	Incentives	Ongoing
ALL-4.1	Adopt a "Health in All Policies" framework that integrates health considerations into regional policies and practices.	► All	► CDPH	Policy / Ordinance Adoption	1-5 years (Near-Term)
ALL-4.2	Ensure that public health initiatives serving vulnerable communities address the disproportionate impacts of climate stressors on these communities.	► All	► CDPH ► Live Healthy Napa County	Modified Program	Ongoing
ALL-4.3	Work with local medical providers and hospitals to ensure that medical facilities are prepared to meet increased demand because of more frequent hazardous events.	► All	► CDPH	New Program	Ongoing
ALL-5.1	Revise maintenance protocols for transportation systems to integrate climate vulnerability considerations.	► All	► Caltrans	Modified Program	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
ALL-5.2	Coordinate with community members, transportation agencies, and others to identify climate vulnerable populations served by transportation, transit, and active transportation corridors.	► All	► Caltrans ► NVTa	New Program	1-5 Years (Near-Term)
ALL-5.3	Collaborate with transportation agencies to identify alternative routes and stops to mitigate potential climate-related disruptions.	► All	► NVTa	New Program	1-5 Years (Near-Term)
ALL-6.1	Develop and enforce agricultural heat and other safety standards tailored to the agricultural workforce (e.g., shaded rest stations, hydration protocols, flexible work hours, evacuation plans and protocols.	► County of Napa	► N/A	Policy / Ordinance Adoption	1-5 Years (Near-Term) & Ongoing
ALL-6.2	Provide bilingual training programs for the agricultural workforce on heat and smoke exposure risks, as well as first aid and emergency responses.	► County of Napa	► NCFB	Education / Outreach	1-5 Years (Near-Term) & Ongoing
ALL-6.3	Encourage the installations or retrofits of shade structures, cooling misters, and ventilated barns to reduce heat stress on livestock.	► County of Napa	► NCFB	Education/Outreach	1-5 Years (Near-Term) & Ongoing
ALL-6.4	Create and maintain livestock evacuation plans, including shelter locations and rapid deployment logistics during wildfires and other climate hazard events.	► County of Napa	► NCFB	Plan	1-5 Years (Near-Term) & Ongoing
ALL-7.1	Implement nature-based solutions, green infrastructure, and best management practices to promote biodiversity, among other benefits.	► All	► CDFW ► DOC ► NCGSA ► Napa Green	Capital Improvement / Infrastructure Project	Ongoing
ALL-7.2	Coordinate with NCGSA to fully implement the ISW/GDE Workplan.	► All	► NCGSA	Partnership	1-5 Years (Near-Term)

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
ALL-7.3	Consider expanding the scope of the ISW/GDE Workplan to areas outside the Napa Valley Subbasin.	► All	► NCGSA	Partnership	1-5 Years (Near-Term)
ALL-7.4	Encourage carbon farming and other sustainable land management activities.	► All	► CDFW ► DOC ► Napa RISE	Incentives	Ongoing
ALL-8.1	Incorporate Vulnerability Assessment findings into all stages of emergency management planning.	► All	► FEMA	Planning	Ongoing
ALL-8.2	Prioritize the safety of vulnerable communities in emergency management activities.	► All	► FEMA ► OEHHHA	Planning	Ongoing
ALL-8.3	Identify potential locations to site new community resilience centers or “resilience hubs.”	► All	► FEMA ► OEHHHA	New Program	5-10 Years (Mid-Term)
FIRE-1.1	Map and identify locations that are newly at risk, or at higher risk, for wildfires hazards and implement wildfire mitigation best practices.	► All	► CAL FIRE ► NCCF	Planning	Ongoing
FIRE-2.1	Establish post-fire ecological recovery programs to support ecological restoration efforts.	► All	► CAL FIRE ► CDFW ► NCCF ► USFWS ► Napa RCD	New Program	Ongoing
FIRE-3.1	Ensure wildfire mitigation best practices are planned and implemented regularly across the county.	► All	► CAL FIRE ► NCCF	Planning	Ongoing
FIRE-4.1	Plan and design new development strategically to avoid or minimize risk in High or Very High FHSZs.	► All	► CAL FIRE ► NCCF	Project Reviews & Development Planning	Ongoing
FIRE-4.2	Consider projections of future climate change when planning future land uses.	► All	► CAL FIRE ► NCCF	Project Reviews & Development Planning	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
FIRE-5.1	Set up a network of monitoring stations to detect beetle infestations (led by the Napa County Agricultural Commissioner).	▶ All	▶ USFS ▶ CDFA ▶ Napa RCD	New Program	1-5 Years (Near-Term) & Ongoing
FIRE-5.2	Implement selective thinning and pruning to reduce tree density and remove infested trees.	▶ All	▶ USFS ▶ CDFA ▶ Napa RCD	New Program	Ongoing
FIRE-6.1	Promote educational campaigns on the health effects of wildfire smoke and preventative measures.	▶ All	▶ Cal/OSHA ▶ Bay Area Air District	Education / Outreach	Ongoing
FIRE-6.2	Enhance and promote early warning systems that alert the public to smoke events.	▶ All	▶ Cal/OSHA ▶ Bay Area Air District ▶	New Program	1-5 Years (Near-Term)
FIRE-6.3	Protect outdoor workers from wildfire smoke by establishing policies that limit outdoor work during periods of poor air quality.	▶ All	▶ Businesses that employ outdoor workers	New Program	Ongoing
TEMP-1.1	Establish protocols to regulate outdoor workers' activities during extreme heat events.	▶ All	▶ Cal/OSHA	Policy / Ordinance Adoption	1-5 Years (Near-Term)
TEMP-1.2	Provide extreme heat-related training to outdoor workers and ensure adequate shade, water, and protection from poor air quality.	▶ All	▶ Businesses that employ outdoor workers	Education / Outreach	Ongoing
TEMP-2.1	Develop policies and strategies to grow and preserve urban forests.	▶ All	▶ CaUFC	New Program	1-5 Years (Near-Term)
TEMP-2.2	Identify communities lacking access to parks and establish new and accessible urban parks and trail systems.	▶ All	▶ N/A	New Program	1-5 Years (Near-Term)
TEMP-2.3	Ensure newly established urban parks and trail systems are connected to high-density residential areas and workplaces.	▶ All	▶ N/A	New Program	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
TEMP-2.4	Revise parking lot shade standards to provide larger minimum sizes.	► All	► CaUFC	Policy / Ordinance Adoption	Ongoing
TEMP-2.5	Enhance shading and heat mitigation initiatives for active commuters.	► All	► N/A	New Program	1-5 Years (Near-Term)
TEMP-3.1	Provide site-appropriate heat-mitigated materials, shade trees, and/or structures on pedestrian walkways and at transit stops.	► All	► Caltrans ► NVTa	Partnership	1-5 Years (Near-Term)
TEMP-3.2	Evaluate and identify cool pavement technologies best suited for different applications across the county.	► All	► Caltrans ► NVTa	Partnership	1-5 Years (Near-Term) & Ongoing
TEMP-3.3	Install water fountains at transit stops, where feasible.	► All	► NVTa	Partnership	1-5 Years (Near-Term)
TEMP-3.4	Improve shading in high pedestrian traffic areas such as downtown Napa.	► All	► N/A	Partnership	1-5 Years (Near-Term)
TEMP-4.1	Upgrade communication, energy, public service, and transportation infrastructure to bolster extreme heat resilience.	► All	► N/A	Capital Improvement / Infrastructure Project	1-5 Years
TEMP-5.1	Consider adopting a mandatory green building code that requires installation of cool roof technologies for new development.	► All	► N/A	Policy / Ordinance Adoption	1-5 Years (Near-Term)
TEMP-5.2	Consider developing incentive programs to apply passive solar home design to future residential buildings.	► All	► N/A	Incentives	Ongoing
TEMP-5.3	Consider developing incentives programs to encourage the use of rooftop gardens and green roofs in residential and commercial buildings.	► All	► N/A	Incentives	Ongoing
FLOOD-1.1	Continue to implement the Phase II Small MS4 Permit.	► All	► N/A	Local Enforcement	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
FLOOD-1.2	Consider implementing a low-impact development reach code for all new and redevelopment projects.	► All	► N/A	Modified Program	5-10 Years (Mid-Term)
FLOOD-2.1	Invest in green stormwater infrastructure.	► All	► N/A	Capital Improvement / Infrastructure Project	1-5 Years (Near-Term)
FLOOD-2.2	Maintain flood control infrastructure, such as gutters, drainage ditches, and culverts to maximize drainage capacity.	► All	► N/A	Capital Improvement / Infrastructure Project	Ongoing
FLOOD-2.3	Enhance the capacity of stormwater infrastructure to manage high-intensity rainfall events.	► All	► N/A	Capital Improvement / Infrastructure Project	1-5 Years (Near-Term) & Ongoing
FLOOD-3.1	Coordinate to improve sewage and solid waste management infrastructure.	► All	► NapaSan	Capital Improvement / Infrastructure Project	Ongoing
FLOOD-4.1	Identify locations suitable for multi-benefit flood control projects.	► All	<ul style="list-style-type: none"> ► Napa County Flood Control and Water Conservation District ► Napa Green ► Napa RCD ► NCGSA ► Other agricultural and environmental organizations 	Capital Improvement / Infrastructure Project	Ongoing
FLOOD-5.1	Upgrade and/or relocate infrastructure and critical facilities exposed to flooding hazards.	► All	► Napa County Flood Control and Water Conservation District	Capital Improvement / Infrastructure Project	5-10 Years (Mid-Term)
FLOOD-6.1	Assess and map areas with bare soil or significant disturbance from natural hazards to prioritize restoration efforts.	► All	<ul style="list-style-type: none"> ► CAL FIRE ► CDFW ► Napa RCD ► US Army Corps of Engineers ► USDA Farm Service Agency 	New Program	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
FLOOD-7.1	Support investments in new and/or upgraded infrastructure to protect water supplies.	▶ All	▶ Napa County Flood Control and Water Conservation District	Capital Improvement / Infrastructure Project	Ongoing
FLOOD-8.1	Deliver robust, multi-lingual education and outreach materials for flood risk through multiple modes.	▶ All	▶ Napa County OES ▶ Napa County Flood Control and Water Conservation District ▶ Napa RCD ▶ NWS	Education / Outreach	Ongoing
FLOOD-8.2	Regularly update the Ready Napa County webpage.	▶ All	▶ N/A	Education / Outreach	Ongoing
FLOOD-9.1	Prepare an asset-level sea level rise vulnerability assessment.	▶ American Canyon ▶ Napa ▶ Unincorporated County	▶ California Coastal Commission ▶ California Ocean Protection Council	Planning	1-5 Years (Near-Term) & Ongoing
FLOOD-9.2	Develop a regional sea level rise adaptive management plan.	▶ American Canyon ▶ Napa ▶ Unincorporated County	▶ BCDC ▶ California Coastal Commission ▶ California Ocean Protection Council ▶ MTC	Planning	>10 Years (long-term)
FLOOD-10.1	Continue supporting sea level rise analyses and guide future development out of exposed areas.	▶ American Canyon ▶ Napa ▶ Unincorporated County	▶ California Coastal Commission ▶ California Ocean Protection Council	Planning	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
FLOOD-10.2	Coordinate with NCGSA to install additional monitoring wells.	<ul style="list-style-type: none"> ▶ American Canyon ▶ Napa ▶ Unincorporated County 	<ul style="list-style-type: none"> ▶ NCGSA 	Partnership	5-10 Years (Mid-Term)
FLOOD-11.1	Update capital improvement plans to address sea level rise and other related hazards in vulnerable areas.	<ul style="list-style-type: none"> ▶ American Canyon ▶ Napa ▶ Unincorporated County 	<ul style="list-style-type: none"> ▶ California Coastal Commission ▶ California Ocean Protection Council 	Planning	5-10 Years (Mid-Term)
FLOOD-11.2	Design and locate critical infrastructure projects away from potential inundation areas.	<ul style="list-style-type: none"> ▶ American Canyon ▶ Napa ▶ Unincorporated County 	<ul style="list-style-type: none"> ▶ California Coastal Commission ▶ California Ocean Protection Council 	Capital Improvement / Infrastructure Project	Ongoing
FLOOD-11.3	Require all new development applications to consider sea level rise and implement sufficient protective measures.	<ul style="list-style-type: none"> ▶ American Canyon ▶ Napa ▶ Unincorporated County 	<ul style="list-style-type: none"> ▶ California Coastal Commission ▶ California Ocean Protection Council 	Policy / Ordinance Adoption	Ongoing
FLOOD-12.1	Conserve undeveloped land to facilitate ecosystem adaptation in areas prone to sea level rise.	<ul style="list-style-type: none"> ▶ American Canyon ▶ Napa ▶ Unincorporated County 	<ul style="list-style-type: none"> ▶ California Coastal Commission ▶ California Ocean Protection Council ▶ DOC 	Secure Funding / Land Conservation/Acquisition	Ongoing
DROUGHT-1.1	Raise awareness for water conservation and expand incentives for water-saving devices and “Cash for Grass” landscape conversion.	<ul style="list-style-type: none"> ▶ All 	<ul style="list-style-type: none"> ▶ Napa County Flood Control and Water Conservation District 	Incentives	Ongoing
DROUGHT-1.2	Implement regional and local water conservation opportunities.	<ul style="list-style-type: none"> ▶ All 	<ul style="list-style-type: none"> ▶ N/A 	Policy / Ordinance Adoption	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
DROUGHT-1.3	Increase on-site greywater use, rainwater reuse, stormwater reuse, managed aquifer recharge, and recycled water use.	► All	► N/A	Policy / Ordinance Adoption	1-5 Years (Near-Term)
DROUGHT-1.4	Determine feasibility of incentive programs that promote rainwater catchment systems.	► All	► N/A	Incentives	1-5 Years (Near-Term)
DROUGHT-1.5	Consider County-wide implementation of the American Canyon Zero Water Footprint program	► All	► N/A	Expand Program	1-5 Years (Near-Term)
DROUGHT-2.1	Promote and incentivize industry adoption of water conservation practices in the cultivation of wine grapes, other crops, and the breeding of livestock.	► All	► Napa Green ► Napa RCD	Incentives	Ongoing
DROUGHT-2.2	Incentivize groundwater recharge by promoting soil health best management practices.	► All	► Napa RCD	Incentives	Ongoing
DROUGHT-2.3	Collaborate with the agricultural community to develop incentives for grape growers, winemakers, and other users to adopt water conservation practices beyond drip irrigation.	► All	► NCGSA	Incentives	1-5 Years (Near-Term) & ongoing
DROUGHT-2.4	Consider expanding the geographic scope of the Napa County WC Workplan and GPR Workplan to areas outside the Napa Valley Subbasin.	► All	► NCGSA	Planning	5-10 Years (Mid-Term)
DROUGHT-3.1	Evaluate local water supply system vulnerability to climate impacts and develop strategies to bolster resilience.	► All	► Local water providers ► Local water agencies	Capital Improvement / Infrastructure Project	Ongoing
DROUGHT-3.2	Adopt and enforce water infrastructure resilience standards for all future development.	► All	► Local water providers	Policy / Ordinance Adoption	1-5 Years (Near-Term)
DROUGHT-3.3	Support efforts for ongoing maintenance of existing water infrastructure and identify potential deterioration.	► All	► Local water agencies	Capital Improvement / Infrastructure Project	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
DROUGHT-3.4	Implement feasible drought mitigation measures proposed in the 2022 Napa Valley Drought Contingency Plan and the Drought Resilience Plan currently under development in response to SB 552.	▶ All	▶ NapaSan	Adopt and Implement Plans	1-5 Years (Near-Term)
DROUGHT-4.1	Increase awareness of indoor and outdoor water conservation methods.	▶ All	▶ Local water providers ▶ Local water agencies	Education / Outreach	Ongoing
DROUGHT-4.2	Expand water conservation educational materials and strategies.	▶ All	▶ Local water providers ▶ Local water agencies	Education / Outreach	Ongoing
DROUGHT-5.1	Pursue grant funding opportunities for recycled water projects.	▶ All	▶ DWR ▶ Water Board ▶ USACE ▶ USBR	Secure Funding	Ongoing
DROUGHT-5.2	Explore future water supply options and collaborate on water conservation strategies to improve regional capacity.	▶ All	▶ Abuelitos Foundation ▶ DWR ▶ Water Board ▶ USACE ▶ USBR	Partnership	5-10 Years (Mid-Term)
ENERGY-1.1	Evaluate opportunities to transition to decentralized renewable energy sources, reducing reliance on centralized generation sources and long-range transmission (e.g., see MCE's Virtual Power Plant Pilot Program).	▶ All	▶ MCE ▶ PG&E	Partnership	5-10 Years (Mid-Term)
ENERGY-2.1	Harden energy infrastructure against various climate stressors.	▶ All	▶ MCE ▶ PG&E	Capital Improvement / Infrastructure Project	>10 Years (long-term)
ENERGY-3.1	Reduce stress on the electrical grid by educating the public on behavior changes they can make.	▶ All	▶ MCE ▶ PG&E	Education / Outreach	Ongoing

Action ID ¹	Action Description ²	Applicable Jurisdiction(s)	Potential Partner(s)	Implementation Mechanism	Timeframe
ENERGY-3.2	Expand the use of home batteries, vehicle-to-grid integration technology, and other energy storage technologies in residential and non-residential buildings to improve backup power supply availability.	► All	► N/A	Policy / Ordinance Adoption	5-10 Years (Mid-Term)
ENERGY-4.1	Identify existing facilities that can serve as emergency shelters and ensure they have sufficient backup power using batteries or generators.	► All	► N/A	Capital Improvement / Infrastructure Project	1-5 Years (Near-Term)
ENERGY-4.2	Partner with MCE and explore the feasibility of microgrid installations and/or virtual power plant opportunities at local government facilities, schools, or other facilities.	► All	► MCE	Partnership	1-5 Years (Near-Term)

Notes: BCDC = San Francisco Bay Conservation and Development Commission; CAL FIRE = California Department of Forestry and Fire Protection; Cal/OSHA = California Division of Occupational Safety and Health; Caltrans = California Department of Transportation; CaUFC = California Urban Forests Council; CDFA = California Department of Food and Agriculture; CDFW = California Department of Fish and Wildlife; CDPH = California Department of Public Health; DOC = California Department of Conservation; DWR = California Department of Water Resources; FEMA = Federal Emergency Management Agency; N/A = not applicable; Napa RCD = Napa County Resource Conservation District; NapaSan = Napa Sanitation District; NCFF = Napa Communities Firewise Foundation; NCGSA = Napa County Groundwater Sustainability Agency; NVTa = Napa Valley Transportation Authority; NWS = National Weather Service; OEHHA = California Office of Environmental Health Hazard Assessment; PG&E = Pacific Gas and Electric Company; USACE = United States Army Corps of Engineers; USBR = United States Bureau of Reclamation; USFS = United States Forest Service; USFWS = United States Fish and Wildlife Service; Water Board = California State Water Resources Control Board;

¹ The measure associated with each Action ID in this table can be found in Chapter 5 of the RCAAP.

² For sake of brevity, each Action Description included in this table may be a shortened or abbreviated version of the full action language found in Chapter 5 of the RCAAP.

Source: **Compiled by Ascent in 2025.**