

Energy (SBC)				
Category	Strategy	Strategy Description	Emissions Reduction Ranking	Cost Ranking
Renewable Energy	RE-1: Increase Community Renewable Energy	Increase the use of renewable energy in the community and support efforts to increase renewable and carbon-free energy generation, including wind, solar, hydro, and biomass, and to ensure customer access to this renewable energy. Encourage on-site renewable energy generation and storage systems for residents and businesses. Develop a robust renewable energy program that provides outreach, financing opportunities, and technical assistance to residents and businesses. Pursue community solar projects.	High	High
	RE-2: Transition to 100% Renewable Energy	Pursue Community Choice Aggregation with a renewable energy goal. Through Community Choice Aggregation, communities can purchase electricity on behalf of residents and businesses, in place of investor-owned utilities. Work with local utilities to prioritize renewable energy procurement.	High	High
	RE-3: Pursue DERs, Storage, and Grid Optimization	Pursue distributed energy resources, microgrids, energy storage opportunities, and grid optimization projects.	Medium	High
	RE-4: Promote On-Site Renewable Energy Generation (Government Operations)	Support efforts on available government-owned land to increase renewable and carbon-free energy generation, including, wind, solar, hydro, and biomass. Promote on-site renewable energy generation and energy storage. Evaluate the renewable energy potential and assess barriers to increased renewable energy generation.	High	High
Education and Outreach	EO-1: Conduct Energy Conservation Outreach and Education	Conduct energy conservation and efficiency education and outreach to residents and businesses. Support and promote of programs for lower-income and disadvantaged populations.	Low	Low
	EO-2: Partner with Utilities	Partner with the local utilities (PG&E and Calaveras Public Power Agency) to promote existing energy programs for residents and businesses.	Low	Low
	EB-1: Electrification	Provide incentives for building electrification measures. Work with property owners, property management groups, and landlords to increase overall building electrification and adoption of new, efficient appliances. Facilitate a shift to electricity as the primary energy source for homes and businesses.	Medium	Medium
	EB-2: Energy Efficiency Programs	Increase participation in voluntary residential and commercial energy efficiency programs. Provide opportunities for homes and businesses to complete energy audits and pursue rebates and financing options to implement energy efficiency measures.	Low	Low

Existing Buildings	EB-3: Low Income Programs	Promote and support low income home weatherization programs (DOE Weatherization Assistance Program, California’s Low-Income Weatherization Program, utility-offered Energy Savings Assistance Program, local program). Offer a housing rehabilitation loan program.	Medium	Low
	EB-4: Community Energy Efficiency	Increase awareness, resources, and financing opportunities for homes and businesses to replace old appliances with energy-efficient models, conduct retrofits to HVAC systems and building envelope, upgrade to efficient lighting, replace old and inefficient wood- and propane-burning heaters, and add smart controls and sensors. This includes property owners (primary, vacation, and second homeowners), property management groups, and landlords.	High	Medium
	EB-5: Green Business Program	Establish a green business program that certifies businesses based on criteria such as energy efficiency, employee wellness, water and waste reduction, etc. Benefits to employee wellness could include active transportation, cleaner air, etc.	Low	Low
	EB-6: Residential and Commercial Energy Conservation Ordinances	Implement Residential and Commercial Energy Conservation Ordinances (RECO) that require energy and water efficiency upgrades at the point-of-sale, prior to selling the home or building.	Medium	Low
	EB-7: Improve Government Operations	Improve the energy efficiency of existing municipal buildings and infrastructure, including both interior and exterior (streetlight, parking lot lighting, traffic signals, and other outdoor area lighting) operations. Energy efficiency improvements include retrofits or commissioning/retrocommissioning to HVAC, lighting, controls, sensors, building envelope, and any other energy loads.	Low	Low
New Construction & Zero Net Energy Standards	ZNE-1: Pursue Reach Codes	Pursue reach codes and green building standards that go beyond Title 24. Examples include: incentives for exceeding minimum building energy performance by 15%, requiring new construction to be fully electric (no natural gas or propane), requiring solar panels, or requiring energy audits.	Medium	Medium
	ZNE-2: Partner with Large Energy Users	Partner with large energy users to transition towards renewable and zero net energy projects.	Medium	Low
	ZNE-3: Improve Code Compliance	Improve Title 24 compliance and provide incentives (e.g., financial based or easing permitting requirements) for going beyond Title 24 compliance.	Medium	Medium
	ZNE-4: Incentivize New Construction	Incentivize new buildings to install renewable energy generation and energy storage systems that can fully offset energy needs. Create incentives to construct new nonresidential buildings to ZNE standards. Encourage new development projects to meet 70%(+) of their energy needs from renewable resources. Encourage LEED certification in new buildings.	Medium	Medium

**Note: All measures can be implemented as mandates, incentives, or voluntary (incentives or voluntary programs, however, cannot be considered as guaranteed GHG reductions).*

Transportation (Rincon)

Category	Strategy Name	Strategy Description	Measure Pillar Basis	Emissions Reduction Ranking	Cost Ranking
TR-1: Increase electric vehicle (EV)/zero-emission vehicle (ZEV) adoption to X% for passenger vehicles and X% for commercial vehicles within the County by 2030.	TR-1.1	Implement recommendations of the Central Sierra Zero Emission Vehicle Readiness Plan to increase availability of ZEV fueling/charging infrastructure.	Structural Change	Medium	Medium
	TR-1.2	Develop and adopt an electric vehicle charging infrastructure reach code to require 50% of total parking spaces in new or remodeled commercial development to install Level 2 EV chargers exceeding the 2022 California Green Building Standards Code Tier 2 requirements.	Structural Change	Medium	Medium
	TR-1.3	Develop a list of prioritized locations for new EV charging stations within Calaveras County for inclusion in the EV/ZEV readiness plan.	Studies and Plans	Low	Low
	TR-1.4	Develop and maintain a streamlined commercial EV infrastructure permitting process in accordance with SB 1236.	Studies and Plans	Low	Low
	TR-1.5	Investigate the feasibility of developing and adopting an electric vehicle charging infrastructure reach code for existing development, which requires existing buildings over 10,000 square feet to install X% of EV Capable charging spaces during major renovations.	Studies and Plans	Low	Low
	TR-1.6	Pursue grant funding sources such as the California Energy Commission's Clean Transportation Program Rural Electric Vehicle (REV) Charging solicitation and PG&E's EV Fleet program to develop a robust EV charging network in the County.	Funding and Financing	Medium	Low
	TR-1.7	Work and collaborate with local businesses/employers to develop and implement a plan for County-supported accelerated business fleet electrification.	Partnerships	Low	Low
	TR-1.8	Support zero-emission vehicle (ZEV) car share companies in coming to the County.	Partnerships	Low	Low
	TR-1.9	Coordinate with County communities-based organizations, agencies, and nonprofits to conduct zero-emission vehicle (ZEV) education events for residents and business owners to promote benefits and programs such as the Clean Vehicle Rebate Program.	Education and Engagement	Low	Low
	TR-1.10	Work with the County Air Pollution Control District to pursue funding through the State's Cap and Trade Program to develop a passenger clean vehicle rebate program for low-income residents of Calaveras County to assist low-income residents in purchasing EVs.	Equity	Low	Medium
	TR-2.1	Require that new and replacement County municipal fleet vehicle purchases are EVs or ZEVs where feasible.	Structural Change	Low	Low

TR-2: Decarbonize the County municipal fleet and related commuter vehicles to achieve a X% ZEV fleet by 2030.	TR-2.2	Conduct a study to determine total turnover time frame of County municipal fleet vehicles to EVs or ZEVs.	Studies and Plans	Low	Low
	TR-2.3	Secure funding from programs such as the California Air Resources Board's Clean Vehicle Rebate Project, Clean Cars 4 All Program, and the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Program to increase procurement of EV or ZEV cars, trucks, and other vehicles and installation of EV/ZEV charging/fueling infrastructure at County facilities.	Funding and Financing	Low	Low
	TR-2.4	Develop and maintain a collaborative of stakeholders to lead the creation of best practices and the pursuit of funding for EV infrastructure as well as public and private zero-emission vehicle fleets.	Partnerships	Low	Low
	TR-2.5	Coordinate with local agencies and community based organizations to develop EV/ZEV educational materials that inform residents on costs/benefits of owning EVs/ ZEVs and guidance on receiving funding for EVs/ZEVs.	Education and Engagement	Low	Low
	TR-2.6	Provide transportation subsidy to County municipal employees to assist with purchase of EVs or ZEVs used for their work commutes.	Equity	Low	Medium
	TR-2.7	Allow eligible County employees to telecommute, with a target rate of 25% of eligible staff time utilizing telecommute by 2030.	Structural Change	Low	Low
TR-3: Improve the availability of clean alternative transit options.	TR-3.1	Conduct a study to identify gaps and barriers to mobility and access in the current public transit system.	Studies and Plans	Low	Medium
	TR-3.2	Establish an EV rideshare program (similar to "Green Raiteros") that allows for people with limited mobility options to rent a vehicle or request a ride in an electric vehicle for low cost.	Structural Change	Low	Medium
	TR-3.3	Apply for grant funding to purchase electric vehicles and install charging infrastructure for an EV rideshare program through opportunities such as: CALeVIP, CVRP for Fleets, or PG&E EV Fleet Program, of Carl Moyer.	Funding and Financing	Low	Low
	TR-3.4	Identify and direct a County department and staff to oversee and manage the EV rideshare program.	Partnerships	Low	Medium
	TR-3.5	Implement a promotion and education campaign to inform the community of the availability of an EV rideshare program. This may include, but is not limited to: tabling at community events, bilingual mailers, social media posts, and direct engagement with employers.	Education and Engagement	Low	Low
	TR-3.6	Target EV rideshare program implementation in low-income communities.	Equity	Low	Low

TR-4: Increase active transportation mode share within the County by X% by 2030.	TR-4.1	Construct bikeway and pedestrian system connections within Calaveras County and connecting to City of Angels Camp, nearby counties, state, and federal infrastructure through integration of bicycle facilities as part of other roadway construction projects.	Structural Change	Low	High
	TR-4.2	Conduct an annual review of collisions in order to identify and implement bicyclist and pedestrian infrastructure and safety improvements needed for the active transportation network.	Studies and Plans	Low	Low
	TR-4.3	Pursue grant funding through programs such as the California Transportation Commission's Active Transportation Program, to implement projects from the Calaveras County Regional Bicycle, Pedestrian, and Safe Routes to School Master Plan.	Funding and Financing	Low	Low
	TR-4.4	Work and collaborate with local organizations and agencies, such as CCOG and City of Angels Camp, to promote bicycle and pedestrian travel as well as the Calaveras County Regional Bicycle, Pedestrian, and Safe Routes to School Master Plan.	Partnerships	Low	Low
	TR-4.5	Provide transportation subsidy to lower-income households to assist with purchase of bicycles used for their work commutes.	Equity	Low	Medium
	TR-4.6	Coordinate with County communities-based organizations, agencies, and nonprofits to conduct bicycle and pedestrian education events for residents and business owners.	Education and Engagement	Low	Low
	TR-4.7	Pursue a public private partnership to identify areas of the County to implement, and implement a shared e-bike/bike share program to provide low-cost micro-mobility options to visitors and residents of Calaveras County.	Partnerships	Low	Low
	TR-4.8	Expand and enhance the Calaveras County's Green Streets Program to improve the walkability of streets by providing increased shade cover and increased carbon sequestration potential.	Structural Change	Low	Low
	TR-4.9	Add paid parking to key visitation locations to encourage transit use, carpooling, biking, and walking.	Structural Change	Low	Low

Solid Waste (Harris)

Category	Strategy Name	Strategy Description	Emissions Reduction Ranking	Cost Ranking
Solid Waste	SW-1: Implement Waste Diversion Program	<p>Measure SW-1 requires the implementation of an organics diversion program to reduce the volume of organic waste sent to landfills. An organics diversion program would lower the landfill disposal rate of food waste (edible and non-edible), food-soiled paper, yard waste, and non-hazardous wood waste. Decomposition of organic waste in landfills produces methane (CH₄), a GHG that has a global warming potential over 20 times that of carbon dioxide (CO₂). Waste management practices to support organics diversion may include (1) constructing and managing a composting facility (County-wide scale), (2) providing residential and business composting pick-up services (County-Wide scale), (3) amplifying community outreach efforts (County-wide or project scales), or (4) providing clearly marked triple bin locations: “waste,” “recycling,” and “composting” (project scale).</p> <p>Example: The County will coordinate with government-funded and privately sponsored recycling and composting programs to divert 75 percent of food and green yard waste from landfills and reduce short-lived climate pollutants in accordance with Senate Bill (SB) 1383.</p> <p>Note: Existing policies that require recycling, such as California Green Building Standards construction waste recycling requirements, are already accounted for in the inventory and forecast. Because this diverted waste is already being recycled, it is not included in inventory waste assumptions, and further emission reductions are not available from continued implementation of these programs.</p>	Low	Medium
	SW-2: Divert Waste from Forward Landfill to Rock Creek Landfill	<p>Measure SW-2 requires the County to process additional solid waste at Rock Creek Landfill rather than Forward Landfill to reduce vehicle miles traveled from landfill disposal.</p> <p>Example: The County will divert an additional 5 percent of total County solid waste disposal from Forward Landfill to Rock Creek Landfill.</p>	Low	Medium

	SW-3: Increase Methane Capture at Rock Creek Landfill	<p>Measure SW-3 requires the County to commit to increasing methane capture at Rock Creek Landfill beyond the modeled methane capture rates.</p> <p>Example: The County will increase methane capture by an average of 1 percent for all waste types at Rock Creek Landfill by 2035.</p>	LowHigh
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Water and Wastewater (Harris)

Category	Strategy Name	Strategy Description	Emissions Reduction Ranking	Cost Ranking
Water and Wastewater	WW-1: Increase Energy Efficiency at County-Operated Water and Wastewater Treatment Facilities	<p>Measure WW-1 requires the County to upgrade treatment equipment or processes to achieve energy savings. Increased energy efficiency would reduce energy demand per gallon treated.</p> <p>Example: The County will reduce energy demand per gallon treated at County-operated water and wastewater treatment facilities by 5 percent by 2035.</p>	Low	High
	WW-2: Use Reclaimed (Non-Potable) Water	<p>Measure WW-2 requires the use of reclaimed water for outdoor uses. Reclaimed water is water that is reused for non-potable uses (e.g., landscape irrigation) after wastewater treatment instead of being returned to the environment (i.e., discharged into rivers and other bodies of water). Using water after it has been treated requires substantially less energy to deliver it to users compared to fresh water from distant sources and, therefore, reduces GHG emissions. The use of reclaimed water is typically designated for non-potable uses, such as landscaping and other outdoor uses.</p> <p>Example: The County will expand use of reclaimed (non-potable) water in 50 percent of County-owned public spaces, such as parks/parklets, currently served by potable water.</p>		Medium
	WW-3: Use Grey Water	<p>Measure WW-3 requires the use of grey water for outdoor uses. Grey water is water from sinks, showers, tubs, and washing machines that has not contacted biological pathogens. Grey water offsets freshwater that would need to be extracted or sourced for the same demand, resulting in water and GHG emissions savings. Energy associated with grey water use is essentially negligible because it is used on site for a second time and does not require major pumping equipment or further treatment.</p> <p>Example: The County will work with local/regional agencies to create incentives and rebates for greywater systems to achieve retrofits for 10 percent of existing homes, and grey water systems in 50 percent of new homes.</p>		Low

	WW-4: Require Low-Flow Water Fixtures	<p>Measure WW-4 requires the installation of low-flow or high-efficiency water fixtures in buildings. Low-flow, high-efficiency appliances, such as toilets, urinals, showerheads, faucets, clothes washers, and dishwashers, can be installed in residential and commercial buildings. Installation of low-flow water fixtures in building allows municipalities and residents to reduce water consumption.</p> <p>Example: The County will adopt a reach code to exceed state-level requirements by 5 percent for the installation of water-conserving appliances in all new residential and non-residential buildings, and the County will require design plans of new development projects to include water-saving features.</p>	Low	Low
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Agriculture (Rincon)					
Category	Strategy Name	Strategy Description	Measure Pillar Basis	Emissions Reduction Ranking	Cost Ranking
AG-1: Increase crop production fertilizer efficiency to reduce associated GHG emissions X% by 2030.	AG-1.1	Improve fertilizer efficiency (increase in harvest yield per unit of nutrient supplied by fertilizer and liming material) across the County and monitor via soil test and soil pH reporting to understand which County crop fields are the most productive.	Structural Change	Low	Low
	AG-1.2	Prepare and adopt prescribed County grazing practices that result in enhanced soil nutrition and increased carbon sequestration.	Structural Change	Low	Low
	AG-1.3	Stop or limit the loss of nutrients from the planted areas during top watering in an open system, including by containing irrigation effluent.	Structural Change	Low	Low
	AG-1.4	Conduct a study regarding which agroforestry methods (riparian forested buffers, silvopasture [planting of shrubs and tree], oak woodland establishment) would work best for County farmers in terms of climate mitigation practices.	Studies and Plans	Low	Low
	AG-1.5	Work with the California Air Resources Board (CARB) regarding its proposed crop-based carbon offset protocol to allow County farmers to earn additional revenue for reducing GHG emissions associated with cultivation.	Funding and Financing	Low	Low
	AG-1.6	Partner with the University of California Cooperative Extension Central Sierra and the Calaveras County Agricultural Commissioner to work directly with farmers to implement best practices in fertilizer efficiency and pest management.	Partnerships	Low	Low
	AG-1.7	Develop an educational campaign to share the most recent research and best practices with County farmers regarding most efficient fertilizers and technologies and how to match fertilizer application with plant nutrient needs as the plant grows.	Education and Engagement	Low	Low
	AG-1.8	Provide assistance to smaller farmers for developing applications to soil and fertilizer grant programs such as the California Department of Agriculture Healthy Soils Program Incentive Program.	Equity	Low	Low
	AG-2.1	Conduct a detailed countywide inventory of livestock and manure management practices to better understand and track GHG emissions from livestock and manure management practices.	Studies and Plans	Low	Low

AG-2: Implement livestock manure management strategies to reduce associated GHG emissions X% by 2030.	AG-2.2	Develop and implement a program for local farmers to purchase poultry manure and used bedding for use in fertilizing pasture and crops.	Structural Change	Low	Medium
	AG-2.3	Utilize available State and federal energy efficiency grants to develop a revolving low-interest loan program that will provide funding for the construction of methane digesters where feasible.	Funding and Financing	Low	Low
	AG-2.4	Investigate and apply for funding sources, such as California Department of Food and Agriculture's Healthy Soils Initiative, to increase the application of livestock manure compost on rangelands, which in turn will increase carbon capture and storage in soil.	Funding and Financing	Low	Low
	AG-2.5	Provide assistance to Calaveras County farmers regarding how to apply for financial assistance through the Alternative Manure Management Program (AMMP) from the California Department of Food and Agriculture (CDFA), which provides funding to farmers implementing non-digest manure management techniques.	Education and Engagement	Low	Low
	AG-2.6	Utilizing CDFA guidance, develop education and outreach materials around grazing practices that sequester carbon.	Education and Engagement	Low	Low
	AG-2.7	Partner with the University of California Cooperative Extension Central Sierra and the Calaveras County Agricultural Commissioner to work directly with farmers on understanding manure management best practices and reduction of the associated GHG emissions.	Partnerships	Low	Low
AG-3: Reduce methane emissions from livestock enteric fermentation X% by 2030.	AG-3.1	Implement grassland management strategies to provide feed digestibility alternatives and improving feed quality.	Structural Change	Low	Low
	AG-3.2	Work with the University of California Cooperative Extension to conduct a study regarding balancing and fine-tuning livestock feed rations within the County, which in turn leads to less livestock enteric fermentation.	Studies and Plans/Partnerships	Low	Low
	AG-3.3	Annually conduct research on any upcoming grant funding opportunities to reduce enteric fermentation emissions.	Funding and Financing	Low	Low
	AG-3.4	Provide information and resources on the County Agricultural Commissioner website to inform farmers on optimizing feed digestibility/availability and pasture management practices, and how that translates into less livestock enteric fermentation emissions.	Education and Engagement	Low	Low

Wildfire (Rincon)

Category	Strategy Name	Strategy Description	Measure Pillar Basis	Emissions Reduction Ranking	Cost Ranking
WF-1: Mitigate wildfire ignition risk in the wildland-urban interface (WUI) areas.	WF-1.1	Adopt and enforce an ordinance requiring the CalFire-recommended 100-foot defensible space around residential buildings in Calaveras County in order to reduce the spread of fire and protect people and homes.	Structural Change	Not Quantified	Low
	WF-1.2	Partner with the Calaveras County community, CalFIRE, and other local and regional fire organizations to create fire fuel load reduction program to thin out and remove vegetation in proximity to structures and roadways whilst maintaining erosion and flood protection.	Partnerships	Not Quantified	Low
	WF-1.3	Purchase vegetation clearing equipment to allow for the County to assist residents in the clearing of a 100-foot defensible space around homes. Equipment should include, but not be limited to a: brush hog, flail mower, and brush chipper.	Structural Change	Not Quantified	Low
	WF-1.4	Apply for funding for purchase of vegetation removal equipment through the California Climate Investments Fire Prevention Grants Program.	Funding and Financing	Not Quantified	Low
	WF-1.5	Develop a defensible space equipment program that allows for low-income and disabled residents to rent equipment and/or obtain assistance with using equipment to clear defensible space around homes.	Equity	Not Quantified	Medium
	WF-1.6	Develop and implement a community education program to inform residents of the importance of clearing a defensible space around homes and resource available to residents. This may include tabling at community events, information resources on the County webpage, mailers, and social media.	Education and Outreach	Not Quantified	Low
	WF-1.7	Facilitate use of a goat herd to help with clearing of defensible space around structures throughout the County.	Structural Change	Not Quantified	Medium
	WF-1.8	Apply for funding for purchase of a goat herd through the California Climate Investments Fire Prevention Grants Program.	Funding and Financing	Not Quantified	Low
	WF-1.9	Partner with local farmers to care for the goat herd at times when it is not in use, and to provide the best possible care for the herd.	Partnerships	Not Quantified	Low
WF-2: Develop a community-based program to help identify wildfire	WF-2.1	Develop a County web portal and dedicated phone line to allow residents to report potential wildfire risks associated with vegetation within the defensible space of PG&E electric infrastructure.	Structural Change	Not Quantified	Low
	WF-2.2	Partner with PG&E to communicate community reports for areas of wildfire risk associated with vegetation near PG&E infrastructure.	Partnerships	Not Quantified	Low

risks associated with vegetation within the defensible space of PG&E infrastructure.	WF-2.3	Apply for funding for program educational materials and operational costs through the California Climate Investments Fire Prevention Grants Program.	Funding and Financing	Not Quantified	Low
	WF-2.4	Develop and distribute promotional materials to inform the community of program existence and display information about the program on the County webpage. Promotional materials may include: mailers, magnets, social media posts, and informational flyers.	Education and Outreach	Not Quantified	Low
WF-3: Improve forestland health to reduce intensity of wildfire events and resulting GHG emissions through collaborative forestry and economic opportunity.	WF-3.1	Develop a programmatic master plan or special district to plan for development of a biomass to renewable energy facility within the County to facilitate public and/or private entities' efforts to establish biomass facilities in Calaveras County.	Studies and Plans	Not Quantified	Medium
	WF-3.2	Perform CEQA analysis on the biomass to renewable energy facility to incentivize energy companies to invest in the development of a facility in Calaveras County	Structural Change	Not Quantified	Medium
	WF-3.3	Continue to support collaborative groups engaged in environmental planning for forest restoration helping the U.S. Forest Service as extension of staff in order to carry out forest management activities.	Partnerships	Not Quantified	Low
	WF-3.4	Continue to engage with State and federal agencies partnered as part of the Tahoe-Central Sierra Initiative to conduct fuel treatments along highway corridors, restoring ecosystem resilience and protecting communities.	Partnerships	Not Quantified	Low
	WF-3.5	Utilize Stewardship Authority contracts in order to support the flow of biomass to a biomass to renewable energy facility.	Funding and Financing	Not Quantified	Low
	WF-3.6	Encourage the use of prescribed burning as a management tool for hazardous fuels reduction, timber management, livestock forage production and enhancement of wildlife habitat, consistent with seasonal State and local regulations.	Structural Change	Not Quantified	Low