

CALISTOGA CLIMATE ACTION PLAN

Draft GHG Reduction Measures

Transportation and Mobility

Goal: Minimize personal vehicle use to reduce associated greenhouse gas emissions.	
Objective T-1	Promote a mixed-use community that is walking- and bicycling-friendly.
• Measure T-1 A	Maximize bicycle parking at appropriate locations throughout the community.
• Measure T-1 B	Implement the City of Calistoga Bicycle Transportation Plan, including construction of specific routes, lanes, paths and river crossings recommended in the plan.
Objective T-2	Promote opportunities to house local workers
• Measure T-2 A	Promote housing types that are desirable to local workers.
Objective T-3	Maximize the availability of local and regional bus service to residents and visitors.
• Measure T-3 A	Make bus schedules available. Encourage County Transit to keep bus stops clean, attractive and well-lit, preferably with solar lights.
• Measure T-3 B	Encourage and support efforts by Napa County to provide convenient and affordable transit to and within Calistoga.
Objective T-4	Provide support facilities to encourage car and van pooling.
• Measure T-4 A	Develop a Park-n-Ride Facility.
Objective T-5	Optimize fuel efficiency in the city's transportation system.
• Measure T-5 A	Consider fuel efficiency in the design of street extensions, connections and right-of-way controls at intersections.
• Measure T-5 B	Encourage Caltrans to monitor and adjust traffic signals as needed to minimize idling.
Objective T-6	Support efforts to provide alternative truck routes to reduce downtown traffic congestion.
Objective T-7	Minimize the need for residents to travel outside the community for goods and services.
• Measure T-7 A	Support local food production, farmers markets and "buy local" campaigns.
• Measure T-7 B	Support the provision of resident-serving retail and professional services.
Objective T-8	Promote adequate and efficient downtown parking.
• Measure T-8 A	Provide public parking lots throughout the downtown.
• Measure T-8 B	Install signs that clearly direct visitors to public parking areas.
Objective T-9	Reduce personal vehicle use associated with large development projects.

• Measure T-9 A	Require large development projects to promote alternative transportation use through such measures as providing bus stops, bicycles, bicycle parking, and showers and lockers for employees who bicycle or walk to work.
Objective T-10	Minimize personal vehicle trips by visitors to the community.
• Measure T-10 A	Encourage visitor accommodations to provide bicycles and shuttle service to guests, and to publicize the availability of the Calistoga Shuttle.
Goal: Promote the use of renewable energy-powered vehicles	
Objective T-11	Provide opportunities for the dispensing of alternative vehicle fuels.
• Measure T-11 A	Support the installation of compressed natural gas dispensers.
• Measure T-11 B	Support the installation of electric vehicle charging stations.

Buildings and Energy

Goal: Reduce energy demand through conservation and efficiency	
Objective BE-1	Promote the availability of funding to property owners for energy and water conservation improvements.
• Measure BE-1 A	Participate in the CaliforniaFirst program to provide low-cost funding for certain renewable energy generation and energy-efficiency and water conservation improvements.
• Measure BE-1 B	Publicize energy saving and alternative energy assistance programs offered by utility companies and other organizations.
• Measure BE-1 C	Discourage the use of exterior decorative lighting during the design review process.
Objective BE-2	Pursue state and federal funding for conservation and energy efficiency efforts.
• Measure BE-2 A	Obtain funding for conservation and energy efficiency.
Objective BE-3	Conserve energy used by household appliances.
• Measure BE-3 A	Provide information to the public on energy-efficient appliances.
Objective BE-4	Conserve water to minimize the energy needed for water treatment and transmission.
• Measure BE-4 A	Provide information to the public on water conservation measures and programs.
• Measure BE-4 B	Enforce the state’s water-efficient landscape standards for new and rehabilitated landscaping.
• Measure BE-4 C	Provide information to the public on low-water use landscaping.
• Measure BE-4 D	Amend the Municipal Code design guidelines to require water-efficient landscaping
• Measure BE-4 E	Promote the use of reclaimed water.

Objective BE-5	Support local efforts to generate renewable energy.
• Measure BE-5 A	Support the use of geothermal energy and heat-exchange technology.

Agriculture, Natural Resources and Urban Forests

Goal: Protect and increase the amount of vegetation and biomass	
Objective AN-1	Support local food production.
• Measure AN-1 A	Promote the sale of locally-grown and raised products at farmers markets.
• Measure AN-1 B	Promote local food production at community gardens.
• Measure AN-1 C	Adopt and enforce right-to-farm regulations.
Objective AN-2	Create, enhance and preserve trees and vegetation to sequester carbon and reduce urban heating.
• Measure AN-2 A	Require the replacement of trees that are removed by development projects.
• Measure AN-2 B	Require the planting of street trees and parking lot trees by development projects.
• Measure AN-2 C	Plant and replace removed trees along streets and in City-owned parking lots.
• Measure AN-2 D	Require the protection of important plant communities during the project review process.
• Measure AN-2 E	Amend the City's environmental review checklist to add the assessment of a project's potential impact on carbon sequestration.

Community Engagement and Advocacy

Goal: Promote community participation in local GHG reduction efforts	
Objective CE-1	Conduct public outreach and education efforts that broaden community involvement in reducing greenhouse gas emissions.
• Measure CE-1 A	Assist in the sponsorship of community events and campaigns that address global warming, renewable energy, "green business," etc.
• Measure CE-1 B	Draft correspondence, reports, news releases, brochures, fact sheets, opinion pieces, advertising, etc. to aid in the implementation of CAP measures, particularly those related to outreach and advocacy.
Objective CE-2	Publicize incentive programs that promote energy efficiency.
• Measure CE-2 A	Publicize programs for energy-efficiency incentives and resources offered through utility companies and state/federal programs.
Objective CE-3	Foster and build public-private partnerships that help achieve greater energy efficiency and reduce greenhouse gas emissions.
• Measure CE-3 A	Seek funding from utilities for implementation of the Climate Action Plan.

Objective CE-4	Promote sustainable business practices.
• Measure CE-4 A	Encourage the Chamber of Commerce to educate their members about sustainable business practices, such as the Napa County Green Business Program.
Goal: Engage and advocate for collaborative, policy and legislative solutions at regional, state and federal levels	
Objective CE-5	Participate in and help develop effective regional, state, and federal solutions to reduce emissions.
• Measure CE-5 A	Support legislation to establish renewable energy portfolio standards for electric utilities, provide opportunities for net metering, and prohibit development of new coal-fired power plants.
• Measure CE-5 B	Support improvements to state-owned roads that encourage non-motorized transportation.
• Measure CE-5 C	Support increased fuel efficiency standards for trucks and automobiles in California.
• Measure CE-5 D	Support California's participation in the Climate Registry and multi-state greenhouse gas emissions reduction (e.g., cap-and-trade) program.
Objective CE-6	Maintain the awareness of local decision-making bodies regarding the City's efforts to reduce greenhouse gas emissions.
• Measure CE-6 A	Report annually to the City's decision-making bodies on progress made towards reducing the community's greenhouse gas emissions.
Goal: Advocate for programs, policies and legislation to reduce global emissions	
Objective CE-7	Support the United States' participation in international greenhouse gas reduction efforts.

Local Government Operations

Goal: Reduce fossil-fuel consumption by municipal operations	
Objective LG-1	Minimize emissions associated with City-owned vehicles.
• Measure LG-1 A	Transition government fleets to vehicles powered by renewable energy sources where feasible.
• Measure LG-1 B	Establish and enforce anti-idling policies for City vehicles/drivers.
Objective LG-2	Encourage alternatives to City employee use of single-occupancy vehicles
• Measure LG-2 A	Provide bicycles for City employees to use for City operations.
• Measure LG-2 B	Provide secure covered bicycle parking for City employees who bicycle to work.
Goal: Promote energy efficiency associated with municipal operations	
Objective LG-3	Minimize electricity use in municipal buildings.

• Measure LG-3 A	Minimize electricity use by heating and cooling systems through such measures as installing evaporative coolers and economizers, and shading HVAC condensers, especially roof-top fixtures.
• Measure LG-3 B	Replace single-paned windows with double-paned windows.
• Measure LG-3 C	Program thermostats to operate heating and cooling systems during operating hours only.
Objective LG-4	Convert street lighting, water pumping, water treatment, and other energy-intensive municipal operations to more energy-efficient technologies.
• Measure LG-4 A	Modify City facilities' lighting systems to increase energy efficiency. Ensure that all interior and exterior lighting utilizes energy-efficient technology (e.g., Energy Star CFL bulbs and fixtures, LED lights). Replace older T-12 fluorescent lighting with energy efficient T-8 or T-5 fixtures with electronic ballasts.
• Measure LG-4 B	Incorporate energy-efficient measures in the replacement and upgrading of municipal facilities.
Goal: Minimize water use associated with municipal operations	
Objective LG-5	Conserve water in municipal facilities and operations.
• Measure LG-5 A	Maintain irrigation systems at municipal facilities for proper watering cycles and to prevent runoff.
• Measure LG-5 B	Install water-efficient landscaping and irrigation where feasible at City facilities.
Goal: Minimize solid waste generated by City operations and facilities	
Objective LG-6	Consider carbon emissions related to the production, transportation, use and disposal of goods as a criterion in City purchasing decisions.
• Measure LG-6 A	Adopt an environmentally-preferable purchasing policy to direct the City's effort in procuring environmentally-preferable products, materials and services.
Objective LG-7	Recycle 70% to 85% of waste generated by City operations.
• Measure LG-7 A	Provide adequate recycling containers at City offices and facilities.
• Measure LG-7 B	Consider not purchasing individual bottles of water, disposable cups, plates and cutlery for City operations and encourage the use of reusable materials.
Goal: Lead by example in developing renewable energy sources	
Objective LG-8	Pursue the development of one or more renewable energy pilot projects at City-owned facilities.

Consumption and Solid Waste

Goal: Reduce the amount of solid waste generated by the community and increase the amount of solid waste diverted from the landfill.	
Objective SW-1	Increase the amount of recyclable materials diverted from the landfill to 75% by 2020.
• Measure SW-1 A	Work with Upper Valley Disposal and Recycling to provide recycling containers at all public gathering places and supply recycling containers to all business, residential and government facilities throughout the city.
• Measure SW-1 B	Encourage and support Upper Valley Disposal and Recycling efforts to expand the types of recyclable materials accepted for curbside recycling pick-up and related public information efforts.
• Measure SW-1 C	Encourage and support Upper Valley Waste Management Agency's efforts to promote recycling education and recycling services at local schools.
• Measure SW-1 D	Encourage the Upper Valley Waste Management Agency and Upper Valley Disposal and Recycling to increase financial incentives for participation in residential and commercial recycling and collection services. Also, increase financial incentives to the public for separating recyclable materials before they haul to the landfill.
• Measure SW-1 E	Require recycling collection at special events that are subject to City approval.
• Measure SW-1 F	Adopt requirements for adequate recycling storage capacity and enclosures on commercial and multi-family properties.
• Measure SW-1G	Recycle asphalt and concrete associated with City street paving and reconstruction projects.
Objective SW-2	Promote efforts by the Upper Valley Waste Management Agency to achieve an organic (food, green, and other organic) diversion rate of 75% by 2020.
• Measure SW-2 A	Encourage the Upper Valley Waste Management Agency, Upper Valley Disposal and Recycling, and local organizations to promote home composting of organic waste.
• Measure SW-2 B	Encourage Upper Valley Waste Management Agency to expand the types of organic materials accepted for residential and commercial curbside collection and composting.
• Measure SW-2 C	Strongly urge the Upper Valley Waste Management Agency and Upper Valley Disposal and Recycling to require its waste collection and landfill contractors to increase the collection and composting of various organic materials from businesses.
• Measure SW-2 D	Coordinate with the Upper Valley Waste Management Agency and appropriate recycling and waste service providers to identify and plan for feasible locations for land application or other beneficial use of organic sludge materials that may accumulate due to local water and wastewater treatments.

Objective SW-3	Limit the availability and use of materials that are not accepted for recycling or composting in local recycling collection services, or are not cost-effective to recycle.
• Measure SW-3 A	Consider adopting an ordinance prohibiting the distribution of single-use carryout plastic bags by local businesses if voluntary compliance efforts fail.
• Measure SW-3 B	Consider adopting an ordinance prohibiting the distribution of non-recyclable food/beverage service containers by local businesses if voluntary compliance efforts fail.
• Measure SW-3 C	Promote the use of reusable bags to minimize the use of single-use carryout bags.
• Measure SW-3 D	Support statewide legislation that prohibits the use of single-use carry-out plastic bags and non-recyclable food/beverage service containers.