

CITY OF CALISTOGA

STAFF REPORT

TO: COMMUNITY RESOURCES COMMISSION

FROM: ERIK V. LUNDQUIST, ASSOCIATE PLANNER

DATE: DECEMBER 15, 2010

SUBJECT: CLIMATE ACTION PLAN - PRIORITIZE ACTION FRAMEWORK

1 **ISSUE:** Prioritize actions contained in Napa Countywide Community Climate Action
2 Framework and confirm the underlying local actions to achieve the City's reduction target
3 established pursuant to City Council Resolution No. 2009-070.
4

5 **RECOMMENDATION:** Receive presentation, discuss and recommend that certain high
6 priority actions be implemented as part of the Community Resources Commission's work
7 program.
8

9 **BACKGROUND:** On August 18, 2009 the City Council considered certain draft countywide
10 and local actions to achieve a greenhouse gas emissions reduction target of 15% below 2005
11 emission levels by 2002. Subsequent to their consideration, the Council directed the Community
12 Resources Commission (CRC) to prioritize the actions in order to identify which projects should
13 receive immediate attention. Subsequently, on September 16, 2009 the Commission adopted a
14 FY 09/10 Climate Action Plan Implementation Plan containing 10 priority actions.
15

16 Over the past year the Green Subcommittee¹ and Staff have actively pursued the completion of
17 the Climate Action Plan through Napa County Transportation & Planning Agency (NCTPA) and
18 have begun tracking certain priority actions, progress made, and conducting educational outreach
19 within the community. In September of this year, the NCTPA Board formally adopted the Napa
20 Countywide Community Climate Action Framework. Mayor Jack Gingles and Vice-Mayor
21 Dunsford are currently serving on the NCTPA Board.
22

23 Now that the NCTPA Board has adopted the Napa Countywide Community Climate Action Plan
24 Framework and the Commission has undertaken significant progress in its implementation. The
25 Green Subcommittee has reassessed the progress and is recommending a reprioritization of the
26 climate actions to account for document reformatting², shift in local policy direction and
27 successful accomplishment of particular local actions, like implementation of the State's Model
28 Landscape Ordinance. In short, the implementation of an AB 811 program (BE1.1), adoption of
29 a landscaping ordinance (AN1.3), making green engineering investments (CE2.3) and

¹ Currently serving on the Green Subcommittee is Chairwoman Chang and Commissioner Ticen.

² The action plan numbering system has been modified slightly from its original style. Each countywide action is now listed under a respective objective. This hierarchy does not include local actions, which have been removed from the framework document. The 2011 Implementation Strategy respects this new numbering system and incorporates the corresponding local actions per Resolution No. 2009-070.

30 purchasing policies (LG2.4) were all removed from the priorities list and replaced with more
31 transportation related actions.

32

33 As such the Green Subcommittee is recommending that the Commission accept the 2011
34 Implementation Strategy – Priority Actions as written and incorporate these priority actions into
35 the appropriate components of the Commission’s work program.

36

37 **ATTACHMENTS:**

38

- 39 1. 2011 Implementation Strategy – Priority Actions, Climate Action
- 40 2. Summary Table of Actions, Appendix A; Napa Countywide Community Climate Action
41 Framework
- 42 3. City Council Resolution No. 2009-070
- 43 4. Implementation Plan FY 09/10 – Priority Actions

44

45 *Complete Napa Countywide Community Climate Action Framework available upon request or*
46 *by visiting NCTPA’s website at <http://www.nctpa.net/reports.cfm>.*

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48

Community Resource Commission (CRC)

2011 Implementation Strategy– Priority Actions Climate Action Plan

1 **COUNTYWIDE ACTION (TM1.1):** Enhance our commitment to urban centered growth,
2 adopting policies, zoning, and design standards in each jurisdiction to encourage mixed use,
3 live/work, and “walkable” and “bikeable” neighborhoods.

4
5 Local Actions:

- 6 • Install more bike racks through the community.
- 7 • Implement the City of Calistoga Bicycle Transportation Plan, including construction of
- 8 specific routes, lanes, paths and river crossings recommended in the plan.
- 9 • Support current (or stronger) language in the Housing Element Update that calls for
- 10 denser, more compact development and increased emphasis on developing infrastructure
- 11 for non-motorized transportation.

12
13 **COUNTYWIDE ACTION (TM1.2):** Maintain or improve the County’s overall “balance” of
14 70,690 jobs and 64,100 employed residents (ratio of 1.1 to 1) through land use policies and
15 decisions that locate jobs and wage appropriate housing in proximity to each other.

16
17 Local Action:

- 18 • Consider incentives for hiring locals.

19
20 **COUNTYWIDE (ACTION TM1.7):** Maintain and enhance existing express bus, local bus,
21 and paratransit services, establish a northbound upvalley express bus during peak
22 commute hours, and complete construction of a major transit center in central Napa.

23
24 Local Action:

- 25 • Make schedules available; keep bus stops clean, attractive and well lit, preferably with
- 26 solar lights. Make all day parking available and convenient for bus riders.

27
28 **COUNTYWIDE ACTION (TM1.8):** Expand Park and Ride areas and other support
29 facilities to encourage public transportation use and car and van pooling.

30
31 Local Action:

- 32 • Develop a Park-n-Ride Facility

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34 **COUNTYWIDE ACTION (TM1.9):** Study rail and bus rapid transit options in the
35 Highway 29 corridor between Vallejo and downtown Napa, and in the Highway 12 corridor
36 between Fairfield and central Napa. Plan for the phased implementation of transit
37 improvements with the goal of bus rapid transit between Vallejo ferry and the Fairfield and
38 central Napa transit centers.

39
40 **COUNTYWIDE ACTION (T1.10):** Implement programs that encourage carfree tourism
41 such as zero emission shuttle services during peak weekends and special events.

42
43 Local Action:

- 44 • Adopt policies and ordinances that encourage car-free tourism.

45

46 **COUNTYWIDE ACTION (SW1.5): Establish collection services in all cities for segregated**
47 **food waste from commercial sources and establish a local food composting facility.**

48

49 Local Action:

- 50 • Implement programs to facilitate community waste reduction.

51

52 **COUNTYWIDE ACTION (AN2.1): Develop and implement water conservation plans that**
53 **include financial incentives, educational programs, and ordinances that reduce the per**
54 **capita demand of potable water.**

55

56 **COUNTYWIDE ACTION (CE1.1): Partner with community-based nonprofit**
57 **organizations, schools, and others engaged in public outreach and education efforts that**
58 **broaden community involvement in reducing greenhouse gas emissions.**

59

60 Local Actions:

- 61 • Community Resources Commission should sponsor regular educational presentations for
62 the community e.g. Master gardener (Drip irrigation, Composting, Waterwise gardening),
63 PGE, Green Building. Calistoga Family Center can sponsor seminars in Spanish.
- 64 • Assist in the sponsorship of community events and campaigns that address global
65 warming, renewable energy, "green business," etc.
- 66 • Draft correspondence, reports, news releases, brochures, fact sheets, opinion pieces,
67 advertising, etc. to aid in the implementation of CAP measures, particularly those related
68 to outreach and advocacy.

69

70 **COUNTYWIDE ACTION (CE1.4): Promote programs designed to advance sustainable**
71 **business practices, such as the Napa County Green Business Program and sustainable**
72 **agricultural practices, such as the Napa Green Certified Land Program.**

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74 Local Action:

- 75 • Encourage and enlist the Chamber of Commerce to educate their members and the
76 general business community regarding the CAP and promoting environmentally
77 sustainable business practices.
- 78 • Form a dynamic relationship with the Calistoga Joint Unified School District to promote
79 Green education.

80

Reduce demand for fossil fuel by decreasing vehicle miles traveled.	Reduce energy demand through conservation and efficiency.	Achieve overall waste diversion of 75% to 90% by 2020.	Encourage responsible and sustainable agricultural and landscaping practices, supporting Local Agriculture, Food Production, and Community Gardens, Promoting Water Conservation	Market programs and conduct community outreach to increase participation in GHG reduction efforts.	Reduce fossil-fuel consumption by local government operations.	
T1.1 Enhance our commitment to urban-centered growth, adopting policies, zoning, and design standards in each jurisdiction to encourage mixed-use, live/work and "walkable," and "bikable" neighborhoods.	BE1.1 Implement an AB811 program, making funding available to residential and commercial property owners seeking to improve their properties to conserve energy and water, and to generate solar energy.	SW1.1 Enact ordinances and create incentives to achieve construction and demolition debris waste diversion of 75% to 90% by 2020.	AN1.1 Adopt policies and ordinances that support local agriculture, food production, and community gardens. Support efforts by local growers and restaurants to produce and use locally grown food products, and remove associated regulatory hurdles.	CE1.1 Partner with community-based non-profit organizations, schools, and others engaged in public outreach and education efforts that broaden community involvement in reducing greenhouse gas emissions.	LG1.1 Transition government fleets to vehicles powered by clean, renewable energy sources, smaller and more efficient vehicles, and facilitate trip reduction and non-vehicle alternatives.	
T1.2 Maintain or improve the County's overall "balance" of 70,890 jobs and 64,100 employed residents (ratio of 1.1 to 1) through land use policies and decisions that locate jobs and wage-appropriate housing in proximity to each other.	BE1.2 Pursue State and Federal funding programs designed to reduce energy demand through conservation and efficiency.	SW1.2 Enact ordinances and create incentives to achieve organic (food and green) waste diversion of 75% by 2020, including waste diversion from restaurants and special events	AN1.2 Support efforts by local growers and restaurants to produce and use locally grown food products and remove associated regulatory hurdles. (See also T10 and AN1.)	CE1.2 Partner with utilities, energy service providers and community-based non-profit organizations to encourage participation in incentive programs that improve energy and water efficiency.	LG1.2 Install electric vehicle charging stations with funding from State and Federal sources.	
T1.3 Require discretionary development projects to assess and mitigate the impacts of vehicle miles traveled through transportation demand management programs including providing transit amenities.	BE1.3 Require or request discretionary development projects to assess greenhouse gas emissions due to energy use, and to incorporate energy and water conservation measures into projects	SW1.3 Create and support other programs, such as the Napa County Green Business Program, that help achieve the 75% to 90% overall waste diversion goal.	AN1.3 Adopt water efficient landscape ordinances that promote climate-appropriate plants, efficient irrigation, and non-potable water sources.	CE1.3 Partner with public agencies, non-profit organizations and private employers to offer incentives aimed at reducing drive-alone commuting and promoting car-free tourism.	LG1.3 Encourage alternatives to employee use of single-occupancy vehicles by providing secure bicycle parking, preferential parking for carpools and vanpools, commuter information, alternative work schedules/practices for government employees and transit incentives.	
T1.4 Evaluate truck and freight rail routes and, based on these findings, develop policies and strategies that improve circulation and address neighborhood compatibility issues.	Reduce the Growth of Electricity and Natural Gas Use		Reduce water use and protect local water resources, Reducing demand of potable water and developing water service and infrastructure	CE1.4 Promote programs designed to advance sustainable business practices, such as the Napa County Green Business Program and sustainable agricultural practices, such as the Napa Green Certified Land Program.	LG1.4 Adopt hours of operations and schedules for public meetings which are coordinated with public transit service availability.	
T1.5 Adopt and implement the NCTPA Strategic Transportation Plan to increase transit service and ridership throughout Napa County.	BE1.4 Implement improved energy conservation (Title 24) standards for new buildings starting in January 2010, and before 2011 adopt enhanced green building ordinances that meet or exceed the 2010 California Green Building Standards.	SW1.5 Establish collection services in all cities for segregated food waste from commercial sources and establish a local food composting facility.	AN2.1 Develop and implement water conservation plans that include financial incentives, educational programs, and ordinances that reduce the per capita demand of potable water.	Engage and advocate for collaborative policy and legislative actions at regional, state, federal and global levels to reduce GHG emissions.		
T1.6 Complete a multi-use countywide Class 1 trail from Calistoga to American Canyon (also known as the Napa Valley Vine Trail), and adopt and implement pedestrian and bicycle networks within each city and town that connect to it.	BE1.5 Adopt policies and ordinance changes to reduce energy use by promoting domestic water conservation and requiring water efficient landscape improvements associated with new construction. (See also AN1.3 and AN2.1.)	SW1.6 Encourage home composting of organic waste.	AN2.2 Develop and enhance recycled water service and infrastructure to serve all areas of Napa County.	CE2.1 Engage and assist local agencies and utility companies toward achieving greenhouse gas reduction targets.	LG2.1 Perform audits and regularly monitor the effectiveness of City and County energy-efficiency implementation measures and adapt them to meet targets.	
T1.7 Maintain and enhance existing express bus, local bus, and paratransit services, establish a northbound upvalley express bus during peak commute hours, and complete construction of a major transit center in central Napa.	Improve the energy supply by switching from fossil fuels to renewables.		Protect and increase the amount of vegetation and biomass in soil and reduce emissions from agricultural sources.		LG2.2 Convert street lighting, water pumping, water treatment, and other energy-intensive operations to more efficient technologies, and use renewable energy where feasible.	
T1.8 Expand Park and Ride areas and other support facilities to encourage public transportation use and car and van pooling.	BE2.1 Increase local renewable energy generation such that the County will always generate more than 15 watts of renewable energy per capita.		AN3.1 Support and promote the Napa Green Certified Winery Program and the Napa Green Certified Land Program ("Fish Friendly Farming"), as well as other practices.	CE2.2 Support United States participation in international greenhouse gas reduction efforts.	LG2.3 Ensure that new government facilities incorporate cost-effective strategies for reducing greenhouse gas emissions, conserving energy and water, and utilizing sustainable construction practices.	
T1.9 Study rail and bus rapid transit options in the Highway 29 corridor between Vallejo and downtown Napa, and in the Highway 12 corridor between Fairfield and central Napa. Plan for the phased implementation of transit improvements with the goal of bus rapid transit between Vallejo ferry and the Fairfield and central Napa transit centers.	BE2.2 Adopt policies and ordinances to remove regulatory impediments and economic disincentives associated with the generation and use of energy from renewable sources such as wind, geothermal, and solar energy.		AN3.2 Assess the positive or negative impacts of land use changes, new vineyards, and urban development on carbon sequestration.	CE2.3 Seek long-term actions by investing in workforce development, partnering with local educators and institutions, and adjusting public policy when warranted by scientific findings.	LG2.4 In City and County purchasing decisions, consider carbon emissions from the production, transportation, use, and disposal of goods as a criterion.	
T1.10 Implement programs that encourage car-free tourism such as zero emission shuttle services during peak weekends and special events.			AN3.3 Adopt policies, ordinances, and plans that create and enhance urban forests and greenways.		Reduce solid waste from City and County operations and facilities.	
Improve the overall fuel efficiency of the transportation system			AN3.4 Adopt policies and ordinances to protect habitat and mitigate the conversion of oak woodlands and other important plant communities by permanently protecting similar habitats.		LG3.1 Recover 70% to 85% of all waste generated in City and County operations and establish a user-friendly, comprehensive recycling program that involves all departments and facilities.	
T1.11 Improve the fuel efficiency of the public street system by optimizing signal timing on arterials, improving street connections and reducing circuitous routes.						
Reduce the average length of trips						
T1.12 To reduce vehicle miles, adopt policies and ordinance changes that facilitate working at home, and support local hiring, food production, farmers markets, and community-based "buy local" campaigns. (See also AN1 and AN4.)						
Reduce the total number of trips						
T1.13 Develop parking strategies in downtown areas to help reduce vehicle miles traveled.						
T1.14 Implement transportation demand management (TDM).						
Encourage and support the switch from fossil-fuel powered vehicles to renewable energy powered vehicles.						
T2.1 Adopt consistent policies and programs that help businesses and organizations with fossil-fuel powered fleet vehicles switch to vehicles powered by clean, renewable energy sources. (See also LG1.)						

RESOLUTION NO. 2009-070

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CALISTOGA, COUNTY OF NAPA,
STATE OF CALIFORNIA ADOPTING A GREENHOUSE GAS REDUCTION TARGET OF 15%
BELOW 2005 LEVELS BY 2020 AND SUPPORTING CERTAIN COUNTYWIDE AND LOCAL
ACTIONS TO ACHIEVE THE REDUCTION TARGET**

WHEREAS, there is a consensus among the world's leading scientists that global warming caused by human emission of greenhouse gases is among the most significant problem facing the world today; and

WHEREAS, documented impacts of global warming include but are not limited to increased occurrences of extreme weather events (i.e., droughts and floods), adverse impacts on plants and wildlife habitats, threats to global food and water supplies – all of which have an economic impact on communities and their local governments; and

WHEREAS, state, regional and local governments throughout the United States are adopting emissions reduction targets and programs; and

WHEREAS, the US Conference of Mayors has endorsed the US Mayors Climate Protection Agreement, which commits cities to reduction of global warming emissions to 7 percent below 1990 levels by 2012, and calls for a federal limit on emissions; and

WHEREAS, the State of California has mandated statewide reduction of greenhouse gas emissions to 15 percent below 2005 levels by 2020; and

WHEREAS, cities have a unique role to play in reducing greenhouse gas emissions and preparing for the impacts of climate change through their local jurisdiction over policy areas such as transportation and mobility, buildings and energy, consumption and solid waste management, natural resources, forest preservation, water conservation; and

NOW, THEREFORE BE IT RESOLVED, that the City of Calistoga declares that we will take immediate steps to achieve a greenhouse gas reduction of 15 percent below 2005 emission levels by 2020.

NOW, THEREFORE BE IT FURTHER RESOLVED, that the City supports those preliminary actions described on the Climate Action Plan Framework, as attached as Exhibit A, and will take immediate steps to finalize and implement the Napa Countywide Climate Action Plan.


PASSED, APPROVED, AND ADOPTED by the City Council of the City of Calistoga at a regular meeting held this 18th day of August 2009, by the following vote:

**AYES: Councilmember Kraus, Mayor Gingles, Councilmember Garcia,
Councilmember Slusser, and Vice Mayor Dunsford**

NOES: None

ABSTAIN/ABSENT: None

ATTEST:


SUSAN SNEDDON, City Clerk


JACK GINGLES, Mayor

CALISTOGA CLIMATE ACTION PLAN - Draft GHG Reduction Measures

Transportation Subcategory

Objective: Reduce demand for fossil fuel by decreasing vehicle miles traveled, improving transit options, and improving the fuel efficiency of vehicles.

Measure	Description	Expected GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment
T1	Enhance our commitment to urban-centered growth, adopting policies, zoning, and design standards in each jurisdiction to encourage mixed-use, "walkable," and "bikable" neighborhoods.			
A	Install more bike racks through the community.			
B	Implement the City of Calistoga Bicycle Transportation Plan, including construction of specific routes, lanes, paths and river crossings recommended in the plan.			
C	Support current (or stronger) language in the Housing Element Update that calls for denser, more compact development and increased emphasis on developing infrastructure for non-motorized transportation.			
T2	Make wise land use decisions that maintain or improve the County's overall "balance" of 70,690 jobs and 64,100 employed residents by locating jobs and housing in proximity to each other and improving the match between wages and housing cost.			
A	Consider incentives for hiring locals.			
T3	Complete a multi-use countywide trail from Calistoga to American Canyon, and adopt and implement pedestrian and bicycle networks within each city and town that connect to it.			
T4	Maintain and enhance existing express bus, local bus, and paratransit services and complete construction of a centralized transit center in downtown Napa.			
A	Make schedules available, keep bus stops clean, attractive and well lit, preferably with solar lights. Make all day parking available and convenient for bus riders.			
T5	Expand Park and Ride areas and other support facilities to encourage public transportation use, and car and van pooling.			
A	Develop a Park-n-Ride Facility			
T6	Study rail and bus rapid transit options in the Highway 29 corridor between Vallejo and downtown Napa, and implement when feasible.			

T7	Optimize fuel efficiency. Design and operate the public street system; consider fuel efficiency in the design of street extensions, connections, and right-of-way controls at intersections; and, monitor and adjust traffic signals.					
T8	Evaluate truck and freight rail routes, and develop policies and strategies to improve circulation and address neighborhood compatibility issues.					
T9	Adopt and implement the NCTPA Strategic Transportation Plan to increase transit service and ridership throughout Napa County.					
T10	Adopt policies and ordinance changes to reduce vehicle miles traveled by supporting local hiring, food production, farmers markets, and community-based "buy local" campaigns.					
T11	Evaluate parking standards in downtown areas to help reduce vehicle miles traveled.					
A	Revise the Off-Street Parking and Loading Ordinance to Address parking requirements, parking design and parking exceptions					
T12	Require discretionary development projects to assess and mitigate the impacts of vehicle miles traveled using transportation demand management programs including transit amenities.					
A	Evaluate GHG produced as a result of any proposed project and mitigate pursuant to CEQA.					
T13	Adopt policies and ordinances that encourage car-free tourism.					
A	Establish a shuttle service in and around Calistoga in partnership with tourist oriented businesses, include but not limited to resorts and wineries.					
Objective: Encourage and support the switch from fossil-fuel powered vehicles to renewable energy powered vehicles.						
Measure						
T14	Adopt policies and programs that help businesses and organizations with fossil-fuel powered fleet vehicles switch to vehicles powered by clean, renewable energy sources.					
				Expected GHG Reduction Capacity (Metric Tons CO ₂ e)	City Priority	Feasibility Assessment

	Support the installation and/or development of a compressed natural gas filling station.				
Buildings and Energy	Objective: Reduce energy demand through conservation and efficiency				
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO ₂ e)	City Priority	Feasibility Assessment	
BE1	<p>Implement an AB811 program, making funding available to residential and commercial property owners seeking to improve their properties to conserve energy and water, and to generate solar energy.</p> <p>A Establish a weatherization program and performance improvement program for existing residential units in partnership with utility companies and other organizations.</p> <p>B Adopt a Dark Sky Ordinance</p>				
BE2	Pursue State and Federal funding programs designed to reduce energy demand through conservation and efficiency.				
BE3	Implement improved energy conservation (Title 24) standards for new buildings starting in July 2009 and other State building code standards for high performance "green" buildings beginning in 2011.				
BE4	<p>A Adopt State Green Building Codes with local mandates and implement appropriate rating systems to facilitate incentives.</p> <p>Adopt policies and ordinance changes to reduce energy use by promoting domestic water conservation and requiring water efficient landscape improvements associated with new construction.</p>				
BE5	<p>A Encourage native, drought resistant plants in landscaping by providing Matter Gardener handouts with permits. Provide information on energy efficient appliances with permits.</p> <p>B Provide information on energy efficient appliances with building permits.</p> <p>Reduce greenhouse gas emissions from buildings and energy use. Require or request discretionary development projects to assess greenhouse gas emissions due to energy use, and to incorporate energy and water conservation measures into projects along with other features or programs.</p>				

	<p>A Require the majority of lighting to be energy-efficient; Support the use of programmable thermostats, ceiling fans, evaporative coolers and economizers.</p>			
<p>Objective: Improve the energy supply by switching from fossil fuels to renewables</p>				
<p>Measure</p>				
	<p>Description</p>	<p>Expected GHG Reduction Capacity (Metric Tons CO2e)</p>	<p>City Priority</p>	<p>Feasibility Assessment</p>
<p>BE6</p>	<p>Increase local renewable energy generation such that the County will always generate more than X watts of renewable energy per capita.</p>			
<p>A</p>	<p>Investigate Community Choice Aggregation</p>			
<p>B</p>	<p>Encourage and promote the use of geothermal energy and geo-exchange technology</p>			
<p>C</p>	<p>Investigate possible sources of renewable energy e.g., solar/wind power, biofuels, and geothermal power.</p>			
<p>BE7</p>	<p>Adopt policies and ordinances to remove regulatory impediments and economic disincentives associated with the generation and use of energy from renewable sources such as wind, geothermal, and solar energy.</p>			
<p>A</p>	<p>Encourage and/or facilitate one or more pilot projects for wind, geothermal and/or solar power generation in City facilities.</p>			
<p>Consumption of Solid Waste</p>				
<p>Objective: Achieve overall waste diversion of 75% to 90% by 2020.</p>				
<p>Measure</p>				
	<p>Description</p>	<p>Expected GHG Reduction Capacity (Metric Tons CO2e)</p>	<p>City Priority</p>	<p>Feasibility Assessment</p>
<p>SW1</p>	<p>Enact ordinances and create incentives to achieve construction and demolition debris waste diversion of 75% to 90% by 2020.</p>			
<p>SW2</p>	<p>Enact ordinances and create incentives to achieve organic (food and green) waste diversion of 75% by 2020.</p>			
<p>SW3</p>	<p>Establish collection services in all cities for segregated food waste from commercial sources.</p>			
<p>A</p>	<p>Implement programs to facilitate community waste reduction.</p>			
<p>SW4</p>	<p>Encourage home composting of organic waste.</p>			

SW5	A Adopt programs to encourage composting of kitchen waste. Create and support other programs, such as the Napa County Green Business Program, that help achieve the 75% to 90% overall waste diversion goal.				
SW6	Adopt environmentally preferable purchasing policies and explore joint-purchasing agreements with partner agencies, and local jurisdictions and businesses.				
	A Adopt programs to encourage a certain percentage of supplies purchased to be from recycled products.				
	B Eliminate, through local ordinance, the use of polystyrene food and beverage containers and plastic bags.				
	C Encourage or require reusable packaging.				
Agriculture, Natural Resources and Urban Forests					
Objective: Protect and Increase the amount of vegetation and biomass in soil, and reduce emissions from agricultural sources.					
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment	
AN1	Adopt policies and ordinances that support local agriculture, food production, and community gardens.				
AN2	Adopt policies, ordinances, and plans that create and enhance urban forests and greenways.				
AN3	Assess the impact of land use changes, new vineyards, and urban development on carbon sequestration.				
AN4	Support efforts by local growers and restaurants to produce and use locally grown food, and remove associated regulatory hurdles.				
AN5	Adopt policies and ordinances to protect habitat and mitigate the conversion of oak woodlands and other important plant communities by permanently protecting similar habitat.				
Objective: Encourage responsible and sustainable agricultural and landscaping					
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment	

AN6	Support and promote the Napa Green Certified Winery Program and the Napa Green Certified Land Program ("Fish Friendly Farming"), as well as other practices.				
Objective: Significantly reduce water use and protect local water resources					
Measure	Description	Excerpted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment	
AN7	Adopt landscape ordinances that promote drought resistant plants, and restrict lawns and other high water demand plants unless reclaimed or grey water systems are used.				
	A Adopt an Ordinance allowing grey water systems.				
AN8	Develop and adopt energy saving and environmentally sound domestic water conservation plans.				
Community Engagement Objective: Market programs and conduct community outreach to increase participation in GHG reduction efforts					
Measure	Description	Excerpted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment	
CE1	Partner with community-based non-profit organizations and others to undertake public outreach and education efforts that broaden community involvement in reducing greenhouse gas emissions.				
	A Community Resources Commission should sponsor regular educational presentations for the community e.g. Master gardener (Drip irrigation, Composting, Waterwise gardening), PGE, Green Building, Calistoga Family Center can sponsor seminars in Spanish.				
	B Assist in the sponsorship of community events and campaigns that address global warming, renewable energy, "green business," etc.				

Measure	Description	Expected GHG Reduction Capacity (Metric Tons CO2e)	City/Priority	Feasibility/Assessment
CE2	C	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.		
		Market and encourage participation in incentive programs that improve energy efficiency.		
CE3	A	Develop replacement programs to provide energy-efficient lighting and water efficient appliances and fixtures.		
		Foster and build public-private partnerships that help achieve greater energy efficiency and reduce greenhouse gas emissions.		
CE4	A	Establish relationships with PGE to help Calistoga achieve its emission reduction goals.		
		Promote programs designed to advance sustainable business practices, such as the Napa County Green Business Program.		
CE5	A	Encourage and enlist the Chamber of Commerce to educate their members and the general business community regarding the CAP and promoting environmentally sustainable business practices.		
		Objective: Engage and advocate for collaborative, policy and legislative solutions at regional, state and federal levels.		
CE6		Participate in and help develop effective regional, state, and federal solutions to reduce emissions.		
	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.		
	B	Support up-grades of state-owned roads in California to encourage nonmotorized transportation.		
	C	Support increased fuel efficiency standards for trucks and automobiles in California.		
	D	Support California's participation in the Climate Registry and multi-state greenhouse gas emissions reduction (e.g., cap-and-trade) program.		
		Engage and assist local agencies and utility companies toward achieving greenhouse gas reduction targets.		

A	<p>Educate City Commissions, Committees and Boards in GHG reduction measures. Once educated, City Commissions, Committees and Boards shall periodically review and discuss citywide GHG reduction efforts and status.</p> <p>Enable long-term solutions by investing in science and engineering education.</p> <p>Form a dynamic relationship with the Calistoga Joint Unified School District to promote Green education.</p>			
CE7				
<p>Objective: Advocate for programs, policies and legislation to reduce global emissions.</p>				
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment
CE8	Support USA participation in international greenhouse gas reduction efforts.			
<p>Local Government Operations</p>				
<p>Objective: Reduce fossil-fuel consumption by local government operations</p>				
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment
LG1	Transition government fleets to vehicles powered by clean, renewable energy sources.			
A	Establish anti-idling policies for City vehicles/drivers.			
LG2	Install electric vehicle charging stations with funding from State and Federal sources.			
LG3	Encourage alternatives to agency employee use of single-occupancy vehicles by providing bicycle racks, preferential parking for carpools and vanpools, commuter information, and incentives.			
A	Encourage greater use of bicycles and other non-motorized vehicles for business activities.			
<p>Objective: Improve the energy efficiency and reduce greenhouse gas emissions</p>				
Measure	Description	Exempted GHG Reduction Capacity (Metric Tons CO2e)	City Priority	Feasibility Assessment

LG4	<p>Perform audits and regularly monitor the effectiveness of City and County energy-efficiency implementation measures and adapt them to meet targets.</p> <p>Use a programmable thermostat, ceiling fans, evaporative coolers and deionizers. Provide shade for HVAC condenser, especially roof-top fixtures. Use double paned windows on windows. Check landscape sprinkler systems for proper watering cycle and to prevent runoff and consider conversion to drip where feasible. Make sure there is a recycle bin beside every garbage bin in town. On City properties and schools, plant bee and butterfly attracting plants to help mitigate decline in number pollinating insects nation-wide in last couple of years.</p> <p>Limit heating thermostat set points to 68 degrees and cooling thermostat setpoints to 75 degrees in City buildings.</p> <p>Ensure that all interior and exterior lighting utilizes energy-efficient technology (e.g., Energy Star CFL bulbs and fixtures, LED lights).</p> <p>Modify City facilities lighting system to increase energy efficiency. Replace older T-12 fluorescent lighting with energy efficient T-8 or T-5 fixtures with electronic ballasts.</p> <p>Convert street lighting, water pumping, water treatment, and other energy-intensive operations to more efficient technologies.</p> <p>Create hydrothermal heating district to determine feasibility of heating downtown structures.</p> <p>Ensure that new government facilities incorporate cost-effective strategies for reducing greenhouse gas emissions, conserving energy and water, and utilizing sustainable construction practices.</p> <p>Incorporate the use of "solar tube" or comparable light magnifying sky lights that reduce the use of electric lighting.</p> <p>Create strategies to reduce pumping of water in the City's water transmission lines through the creation of a water conservation management plan.</p> <p>In City and County purchasing decisions, consider carbon emissions from the production, transportation, use, and disposal of goods as a criterion.</p>		
LG5			
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LG7			

		<p>Develop policies that encourage purchasing supplies that are made from recycled products and encourage reuse of certain supplies. City should consider prohibition of individual bottles of water, disposable cups, plates, cutlery, disposable pens and pencils and should encourage the use of personal eating and writing implements.</p>		
<p>Objective: Reduce solid waste from City and County operations and facilities</p>				
<p>Exceeded/GHG Reduction Capacity (Metric Tons CO2e) City Priority Feasibility/Assessment</p>				
		<p>Measure: Recover 70% to 85% of all waste generated in City and County operations.</p>		
<p>LC8</p>				

Community Resource Commission (CRC)

Climate Action Plan FY 09/10 Implementation Strategy– Priority Actions

1 **Countywide Action (T1):** Enhance our commitment to urban-centered growth,
2 adopting policies, zoning, and design standards in each jurisdiction to encourage
3 mixed-use, “walkable,” and “bikable” neighborhoods.

4
5 **Local Actions:**

- 6 • Install more bike racks through the community.
- 7 • Implement the City of Calistoga Bicycle Transportation Plan, including
8 construction of specific routes, lanes, paths and river crossings recommended in
9 the plan.
- 10 • Support current (or stronger) language in the Housing Element Update that calls
11 for denser, more compact development and increased emphasis on developing
12 infrastructure for non-motorized transportation.

13
14 **Countywide Action (T2):** Make wise land use decisions that maintain or improve the
15 County’s overall “balance” of 70,690 jobs and 64,100 employed residents by locating
16 jobs and housing in proximity to each other and improving the match between
17 wages and housing cost.

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19 **Local Action:**

- 20 • Consider incentives for hiring locals.

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22 **Countywide Action (T13):** Adopt policies and ordinances that encourage car-free
23 tourism.

24
25 **Local Action:**

- 26 • Adopt policies and ordinances that encourage car-free tourism.

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28 **Countywide Action (BE1):** Implement an AB811 program, making funding
29 available to residential and commercial property owners seeking to improve their
30 properties to conserve energy and water, and to generate solar energy.

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32 **Local Actions:**

- 33 • Establish a weatherization program and performance improvement program for
34 existing residential units in partnership with utility companies and other
35 organizations.
- 36 • Adopt a Dark Sky Ordinance.

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38 **Countywide Action (SW3):** Establish collection services in all cities for segregated
39 food waste from commercial sources.

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Local Action:

- Implement programs to facilitate community waste reduction.

Countywide Action (AN7): Adopt landscape ordinances that promote drought resistant plants, and restrict lawns and other high water demand plants unless reclaimed or grey water systems are used.

Local Action:

- Adopt an Ordinance allowing grey water systems.

Countywide Action (CE1): Partner with community-based non-profit organizations and others to undertake public outreach and education efforts that broaden community involvement in reducing greenhouse gas emissions.

Local Actions:

- Community Resources Commission should sponsor regular educational presentations for the community e.g. Master gardener (Drip irrigation, Composting, Waterwise gardening), PGE, Green Building. Calistoga Family Center can sponsor seminars in Spanish.
- Assist in the sponsorship of community events and campaigns that address global warming, renewable energy, "green business," etc.
- 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.

Countywide Action (CE4): Promote programs designed to advance sustainable business practices, such as the Napa County Green Business Program.

Local Action:

- Encourage and enlist the Chamber of Commerce to educate their members and the general business community regarding the CAP and promoting environmentally sustainable business practices.

Countywide Action (CE7): Enable long-term solutions by investing in science and engineering education.

Local Action:

- Form a dynamic relationship with the Calistoga Joint Unified School District to promote Green education.

Countywide Action (LG7): In City and County purchasing decisions, consider carbon emissions from the production, transportation, use, and disposal of goods as a criterion.

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Local Action:

- Develop policies that encourage purchasing supplies that are made from recycled products and encourage reuse of certain supplies. City should consider prohibition of individual bottles of water, disposable cups, plates, cutlery, disposable pens and pencils and should encourage the use of personal eating and writing implements.