

CITY OF CALISTOGA

STAFF REPORT

TO: COMMUNITY RESOURCES COMMISSION

FROM: CHARLENE GALLINA, PLANNING & BUILDING DIRECTOR

DATE: APRIL 15, 2009

SUBJECT: CLIMATE ACTION PLAN STATUS UPDATE

1 **ISSUE:** Present status update on City Council discussion of the proposed Climate
2 Action Plan for the City of Calistoga.

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4 **RECOMMENDATION:** Receive update, discuss and provide direction to staff.

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6 **BACKGROUND/DISCUSSION:** On April 7, 2009, staff presented to the City Council an
7 update on the proposed Climate Action Plan currently being developed by the City and
8 the Napa County Transportation Planning Agency (NCTPA). The attached City Council
9 staff report for this meeting presents information given to the City Council on this issue.
10 As a result, the City Council directed staff to accelerate the pace for completion of the
11 proposed Climate Action Plan and to commence work on the development of a green
12 building ordinance, a solar energy incentive program and other "green initiative"
13 programs for Calistoga. At the CRC meeting, staff will provide an update on this effort
14 and solicit feedback on programs to investigate.


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16 **ATTACHMENT:**
17 1. City Council Staff Report of April 7, 2009

City of Calistoga

Staff Report

TO: Honorable Mayor and City Council
FROM: Erik V. Lundquist, Associate Planner
VIA: Charlene Gallina, Planning and Building Director
DATE: April 7, 2009
SUBJECT: Green Initiatives Program – Climate Action Plan Update

APPROVAL FOR FORWARDING:


James C. McCann, City Manager

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2 **ISSUE:** To receive a report on the City's progress regarding the development of
3 "Green/Environmental Sustainability Initiatives".
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5 **RECOMMENDATION:** Receive presentation and update, discuss, and provide
6 direction as appropriate.
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8 **BACKGROUND:** The City has historically been a leader in environmental stewardship
9 and has taken an active role in promoting conservation through public policy decisions
10 since the early 1990s. In 2003 the City adopted a General Plan that embodies and
11 embraces the City's continued attention to environmental sustainability. In 2004 the
12 City Council furthered its efforts by establishing the Community Resources Commission
13 (CRC) whom advises the City Council on broad range of community interest matters,
14 including environmental initiatives.
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16 The State has followed the City's lead, on September 27, 2006 Governor
17 Schwarzenegger signed the California Global Warming Solutions Act of 2006 enacting
18 Assembly Bill 32 (AB 32), furthering the goals of his Executive Order S-3-05 (see
19 Attachment No. 1). Assembly Bill 32 represents the first enforceable statewide program
20 to limit greenhouse gas emissions from all major industries with penalties for
21 noncompliance.
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23 Recognizing the importance of this recent legislation, the Mayor requested ABAG
24 prepare an Energy Assessment Report to help the City obtain a comprehensive view of
25 the energy use in our public facilities. Then on December 4th, 2007 the City Council
26 passed Resolution 2007-122 authorizing the City to join with the Napa County

27 Transportation Planning Agency (NCTPA) to participate in the Cities for Climate
28 Protection (CCP) campaign sponsored by the International Council for Local
29 Environmental Initiatives (ICLE). The CCP campaign's primary focus is to assist in the
30 preparation of a Climate Action Plan (CAP). The City Council's strategic decision to join
31 with NCTPA has and will continue to create county-wide consistency and will provide a
32 cost savings to the City while undertaking effort to preparation the CAP.

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34 The CAP will describe the major effects of climate change and will guide and direct the
35 City toward a sustainable energy future through specific actions that will reduce
36 greenhouse gas emissions from current. One of the key tasks to prepare a CAP is the
37 development of a GHG inventory for community-wide activities¹ and for municipal
38 operations. Through several workshops conducted by the International Council for Local
39 Environmental Initiatives (ICLEI), City Staff, with the help from NCTPA's consultant,
40 MIG, Inc., was able to develop a Community-wide Greenhouse Gas Inventory Report
41 for 2005. The Community-wide Greenhouse Gas Inventory Report was presented to
42 the Community Resources Commission (CRC) on February 18, 2009.

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44 While a number of cities in the County are waiting on the completion of the City
45 Operations GHG Inventory before reporting their results, Staff has elected to move
46 ahead and complete the Community-wide report. This will give the City Council, the
47 CRC and the Community as a whole, an initial set of information to work from as we
48 begin the Calistoga Climate Action Plan (CAP). (It should be noted that generally, the
49 municipal operations portion of the Greenhouse Gas Inventory (GHG) is typically in the
50 range of 1% - 5% of the total. So its reporting is not crucial to the development of the
51 CAP, but helpful since municipal actions have symbolic value related to "leading by
52 example".)

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54 **DISCUSSION:**

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56 **Conducting the Greenhouse Gas (GHG) Inventory:**

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58 The process of conducting a GHG inventory is relatively new. GHG inventories
59 originated as an international response to mitigate global climate change.
60 Fundamentally, a GHG inventory measures the amount of heat trapping gases that an
61 entity (the Calistoga community in our case) contributes to the atmosphere. By
62 quantifying emissions, GHG generators are able to benchmark their status as emissions
63 producers defining their "carbon footprint."

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¹ The community wide activities include the built environment (residential, commercial and industrial uses and structures), mobile emissions and waste.

65 Creating this emissions inventory required the collection of information from a variety of
66 sources, including the Pacific Gas and Electric Company (PG&E), California Energy
67 Commission (CEC), the Metropolitan Transportation Commission (MTC), California
68 Department of Transportation (CalTrans), the California Integrated Waste Management
69 Board (CIWMB), Upper Valley Waste Management Authority (UVWMA), California Air
70 Resources Board (ARB), Bay Area Air Quality Management District (BAAQMD) and
71 internal City records. Data from the year 2005 was used for the community inventory,
72 with the exception of a subset of the waste data, which utilizes a California statewide
73 waste characterization study conducted in 2003-04.

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75 Community-wide Greenhouse Gas (GHG) Inventory:

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77 In the base year 2005, the inventory reveals that the community of Calistoga, not
78 including municipal operations, emitted approximately 28,295 metric tons of Carbon
79 Monoxide Equivalent (CO₂e). As shown in Table 1, and illustrated in Figure 1 in the
80 report (see attached), the transportation (30.8%) and residential (27.4%) sectors were
81 the largest sources of greenhouse gas emissions.

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83 Emissions from the commercial/industrial sector, waste, and off-road
84 industrial/commercial equipment contributed 25%, 9%, and 7% respectively. See
85 Attachment No. 2 for sector specific emissions data. The balance of the report goes into
86 more detail on the generation and significance of each type of greenhouse gas
87 emission. It also analyzes the inventory by sector.

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89 These figures are consistent with Bay Area wide figures reported by the BAAQMD and
90 ABAG. They are also quite similar to the other municipalities within the County.

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92 County-wide Greenhouse Gas (GHG) Inventory:

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94 In the base year 2005, Napa County, including all five municipalities and the
95 unincorporated areas of the County but excluding municipal facilities, emitted
96 approximately 1,167,235 metric tons of Carbon Monoxide Equivalent (CO₂e). As shown
97 in Table 1 of the report (see attached), the transportation (54.5%) and
98 commercial/industrial (19.4%) sectors were the largest sources of greenhouse gas
99 emissions. Emissions from the residential sector, waste, and off-road
100 industrial/commercial equipment contributed 16.8%, 4.6%, and 4.3% respectively.

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102 Forecasting Greenhouse Gas Emissions:

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104 The initial State goal under AB 32 is to limit greenhouse gas emissions to 1990 levels
105 by 2020. Since baseline data for 1990 is difficult to obtain due to limitations in
106 technology. A reduction of 15% below 2005 levels by 2020 is widely accepted.

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Based upon current growth patterns, in 2020 the City's estimated GHG emissions is projected to be 31,348 metric tons of Carbon Monoxide Equivalent (CO₂e), which is an increase in some 3,053 metric tons or a 10% increase from 2005 conditions. In order to meet the minimum AB32 target reductions, Calistoga will need to reduce its emissions by 7,297 metric tons to 24,051 metric tons by 2020, which is 15% below 2005 levels.

NEXT STEPS:

The Community Resources Commission will be working with staff, and the community to assist in target setting (staff suggests adopting the minimum AB 32 targets) and the recognition of achievable best management practices that will ultimately be formally accepted by Council. Subsequently, the Commission will make strategy/action recommendations to achieve Council's reduction targets. The information obtained to date suggests that action plan measures focused on cost-effective energy conservation and efficiency and a green building ordinance may have a much greater GHG reduction impact in the City of Calistoga compared to other jurisdictions in Napa County.

This target setting and plan will be developed between now and June. The CRC's recommendations will be forwarded to the City Council for review and final approval. (See Work Plan and Timeline attached.) It will ultimately be incorporated into various City policy documents (the General Plan and Municipal Code) moving the Calistoga community towards a reduction in its Greenhouse Gas inventory and Carbon Footprint.

At the same time, Calistoga together with the five other government entities within the County is preparing an Operations inventory with the help of ICLEI. We are gathering data for this review and expect the comprehensive and coordinated report to be completed by mid April. When this information is completed, it will be added to both the community-wide Greenhouse Gas inventory and the Climate Action Plan.

Therefore, at this time staff recommends that the City Council receive the Calistoga's Community-Wide Greenhouse Gas Inventory for the year 2005 and direct staff to proceed with the preparation of the Climate Action Plan that will be completed over the next few months.

Once the Inventory is finalized with the inclusion of the municipal operations inventory, the CRC will be called to assist in target setting and the recognition of achievable best management practices. The Commission will further make strategy/action recommendations to achieve targets (Adopt AB 32 targets). The Commission recommendations will be used to develop the City's Climate Action Plan (CAP). Subsequently, the targets and the City's CAP will be present to the City Council for consideration during a series of meetings.

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FISCAL IMPACT:

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152 There are no costs to receiving the report to Council on the City's progress regarding
153 green/environmental sustainability initiatives, specifically, the community-wide
154 Greenhouse Gas Inventory. The data collection and report preparation is funded by
155 NCTPA through a grant received from the Bay Area Air Quality Management District
156 (BAAQMD). City Staff time is funded by General Fund allocations.

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158 There will be costs from implementing the emission reduction measures that will be
159 developed for and outlined in the City's upcoming Climate Action Plan (CAP). Future
160 decisions to commit staff or financial resources toward implementing the Climate Action
161 Plan will remain within the purview of the City Council.

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ATTACHMENTS:

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- 165 1. Climate Action Program Memo to Community Resources Commission dated
166 December 5, 2008 (previously distributed to Council)
- 167 2. Draft Greenhouse Gas Emissions Inventory for the City of Calistoga and Napa
168 County dated January 12, 2009
- 169 3. Draft Napa Countywide Carbon Footprint Result (Tables)
- 170 4. Draft Napa Countywide Carbon Footprint Result (Figures)
- 171 5. Community Greenhouse Gas Inventory Methodology for Bay Area Local
172 Governments