



City of Sacramento City Council

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915 I Street, Sacramento, CA, 95814
www.CityofSacramento.org

Meeting Date: 8/16/2011

Report Type: Staff/Discussion

Title: Climate Action Plan

Report ID: 2011-00604

Location: Citywide

Recommendation: Adopt a Resolution 1) adopting greenhouse gas reduction targets for 2020, 2030 and 2050; 2) adopting performance goals and specific greenhouse gas reduction measures identified to meet the 2020 target; and 3) Directing staff to prepare a Draft Climate Action Plan for public review based on the adopted targets, goals and reduction measures framework.

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Department: Community Development Dept

Division: Long Range Planning

Dept ID: 21001222

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Resolution.
- 4-Exhibit A
- 5-Preliminary Greenhouse Gas Reduction Measures
- 6-Planning Commission Comments.doc

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Description/Analysis

Issue: Since mid-2010, staff has made substantial progress on Phase 2 of the Climate Action Plan, which addresses communitywide greenhouse gas emissions from all sources within the city limits. These are emission sources which the City does not directly control but can influence through various regulatory or voluntary actions, such as emissions from private automobiles; energy used for heating, cooling and lighting private homes and businesses; management and disposal of waste generated by the community; and emissions related to water consumption and wastewater treatment.

To date, staff has completed a communitywide emissions inventory; forecasted future emissions for the target years of 2020, 2030, and 2050; identified a preliminary draft set of action measures to reduce emissions; and conducted an initial “gap analysis” that assesses whether or not the proposed measures identified to date will be sufficient to meet the recommended target of 15% below 2005 levels by 2020 (or, 28% below forecasted “business-as-usual” emissions) by the year 2020.

A number of the draft measures in the gap analysis are controversial with the real estate, building and development industries, in particular those involving mandatory energy conservation and efficiency audits in existing residential and commercial buildings, and implementation of higher green building standards for new construction. The concerns center on the belief that these measures could negatively impact the economics in these industries. These concerns have been elevated by the current state of the economy and the acute downturn in the local real estate, building, and development industries.

Staff has worked with stakeholder groups to understand and address their concerns. The Sacramento Association of Realtors is concerned about the mandatory energy conservation and efficiency audits in existing residential and commercial at point-of-sale under the Residential Energy Conservation Ordinance (RECO) update. The Council directed Staff to complete the RECO update by July 2012. At this time Staff recommends that the RECO update measure be focused on the building permit process for major remodels, additions or alterations, rather than at point-of-sale or a date-certain approach.

Staff has also worked with Sacramento Region Builders to address their concerns about phasing in additional mandatory green building standards for new construction (CALGreen Tier 1) beginning in 2012. Staff has proposed a compromise that aligns with the original Green Building Task Force recommendation to phase in only certain Tier 1 measures in 2012, with full Tier 1 implementation in 2014. Discussions on this proposal with Region Builders are ongoing and staff will provide an oral update at the Council meeting.

Policy Considerations: The preparation of the Climate Action Plan is consistent with the City’s goals and policies as established in the 2030 General Plan and the Sustainability Master Plan to reduce greenhouse gas emissions, consistent with AB 32, and to prepare for the potential impacts of climate change in our community.

Environmental Considerations:

California Environmental Quality Act (CEQA): The preparation of the Climate Action Plan was identified as a mitigation measure in the 2030 General Plan Master Environmental Impact Report (MEIR). Once a Draft Climate Action Plan is completed, the Plan will undergo CEQA review. The final draft plan and associated CEQA document will be presented for Council consideration and approval.

Sustainability: The Sustainability Master Plan (SMP) includes Climate Protection goals and targets for the City's internal municipal operations, and for the Sacramento region. Once adopted, the Climate Action Plan is expected to be consistent with the Sustainability Master Plan and will provide a detailed strategy to achieve these goals and targets on a communitywide basis.

Commission/Committee Action: On July 14, staff presented an overview of the preliminary draft action measures and emission reduction targets to the Planning Commission for review and comment. A summary of comments from the Planning Commission is attached.

Rationale for Recommendation: The Climate Action Plan will help the City prepare for pending changes to the State and Federal regulatory environment. It will also help position the City to compete for grant funding to help implement the City's climate and sustainability policies, and will strategically identify areas in which to direct grant funds. In addition to providing a strategy for reducing greenhouse gas emissions, the Plan will achieve a number of important benefits, including:

- Provide a uniform approach to greenhouse gas mitigation for development projects that will provide predictability and certainty in the development review process
- Help residents & businesses save energy and reinvest energy savings in the local economy
- Stimulate investment and innovation in renewable energy, energy efficiency, & related technologies, thereby creating and retaining "green collar jobs"
- Create a roadmap for the longer-term transition to zero-net energy use and carbon-neutrality
- Providing for a more secure energy future
- Help the community as a whole begin to adapt to the likely effects of climate change in our region.

Financial Considerations: The City Council approved the overall scope and budget for preparation of the Climate Action Plan in August 2009, and a budget amendment and consultant contract was approved in December 14, 2010. A complete cost/benefit analysis relative to both City-initiated actions and those involving the private sector will be included in the official Draft Climate Action Plan when it is released for formal public review.

Emerging Small Business Development (ESBD): No goods or services are being purchased as part of this work program at this time.

Background

Project Overview

On March 3, 2009, the City Council adopted the 2030 General Plan and directed staff to complete a Climate Action Plan (CAP) by July 2011. The General Plan Master EIR identified the CAP as key program that would mitigate climate change impacts under the buildout of the General Plan. In addition, the Council directed staff to adopt a mandatory Green Building Ordinance and update and enforce the existing Residential Energy Conservation Ordinance (Chapter 15.76) by July 2012, also as mitigation measures that would address climate change impacts.

The purpose of a local government CAP is to provide a comprehensive plan for reducing greenhouse gas (GHG) emissions and adapting to climate change. A CAP typically applies communitywide, but can also focus on reduction of greenhouse gas emissions from an agency's internal operation. The International Council for Local Environmental Initiatives (ICLEI) has developed a standard process and methodology for setting and meeting climate protection goals. The City is generally following the ICLEI 5-Step Process for the Climate Action Plan, which includes:

1. Conduct a baseline emissions inventory and forecast
2. Identify an emissions reduction target for the forecast year
3. Develop and adopt a Local Action Plan
4. Implement the policies and measures in the Plan
5. Monitor plan performance, verify results, and adjust the plan as necessary.

In addition to the ICLEI 5-Step Process, staff has conducted the work in a two-phased approach:

- Phase 1 of the Climate Action Plan addressed the internal operations, and was completed in February 2010. The Phase 1 CAP primarily addressed strategies and specific actions for reducing GHG emissions 15% below 2005 levels by 2020 for the City's internal operations. These are actions and emissions which the City has direct control over, such as the City's fleet; emissions from the fossil fuel energy that runs City's buildings and facilities; streetlight & signal energy usage, etc.
- Phase 2 of the Climate Action Plan, which began in 2010, addresses communitywide GHG emissions from all sources within the city limits which the City does not directly control but can influence, such as emissions from private automobiles, heating, cooling and lighting private homes and businesses, management and disposal of waste generated by the community, etc.

Phase 2 CAP: Progress Update and Recommended Council Actions

The following summarizes the work performed to date on the first 3 steps in the CAP process for this phase, including recommended Council actions and direction to staff required in order to move forward in completing the planning process.

1. Inventory and Forecast:

In early 2008, the County of Sacramento, along with the City and other incorporated cities in the county, SMUD, SMAQMD, and SACOG, formed the Sacramento Area Green Partnership (SAGP) to coordinate the development of an integrated, countywide GHG emissions inventory for the year 2005. The inventory was completed in June 2009¹ and provides each jurisdiction within the county with an accurate accounting of its own GHG emissions for both community-wide and internal operations sources, using consistent methodology and data sources.

Working with the SAGP and the City's consultant team, technical adjustments were made to the City's portion of the 2005 communitywide GHG emissions inventory noted above, in order to reflect changes to the transportation sector methodology as a result of the SB 375 Regional Targets Advisory Committee, as well as maintain consistency with SACOG's work on SB 375 implementation. Certain emission sources over which the City has no jurisdictional control (including high global warming potential gases) were also excluded.

Emissions were projected based on "business-as-usual" growth in emissions for the target years 2020, 2030 and 2050, consistent with estimated growth projections in the 2030 General Plan. "Business as usual" is a theoretical projection in emissions growth (as if no action has been or would be taken since the baseline year to reduce GHG emissions), and represents the worst-case scenario if no action is taken. The adjusted communitywide GHG emissions inventory and forecasts are summarized below in Table 1.

¹ A copy of the 2005 GHG emissions inventory is available at www.sacgp.org

**Table 1
Jurisdictional Communitywide Emissions Inventory and
Future “Business-As-Usual” Projections**

Emissions Sector	MT of CO ₂ e			
	2005	2020	2030	2050
Residential Energy	748,792	993,900	1,157,307	1,484,125
Commercial/Industrial Energy ¹	979,777	1,243,593	1,419,470	1,771,224
Industrial Specific Energy	28,656	32,789	35,544	41,054
Transportation (On-Road Mobile)	2,013,962	2,193,916	2,313,886	2,553,825
Solid Waste	241,862	285,143	313,248	378,605
Wastewater Treatment	57,380	70,579	80,306	97,307
Water Consumption	12,810	15,757	17,928	21,724
Total	4,083,239	4,835,677	5,337,689	6,347,864

Notes: MT= metric tons; CO₂e = carbon dioxide equivalent;

¹ Some utility customers may choose not to disclose their energy consumption information. In these cases where a customer elects to keep this information confidential, its consumption data is aggregated into the Commercial/Industrial Energy sector. The Industrial Specific Energy sector represents energy consumed by industrial buildings where the customer did not chose to keep its consumption information confidential.

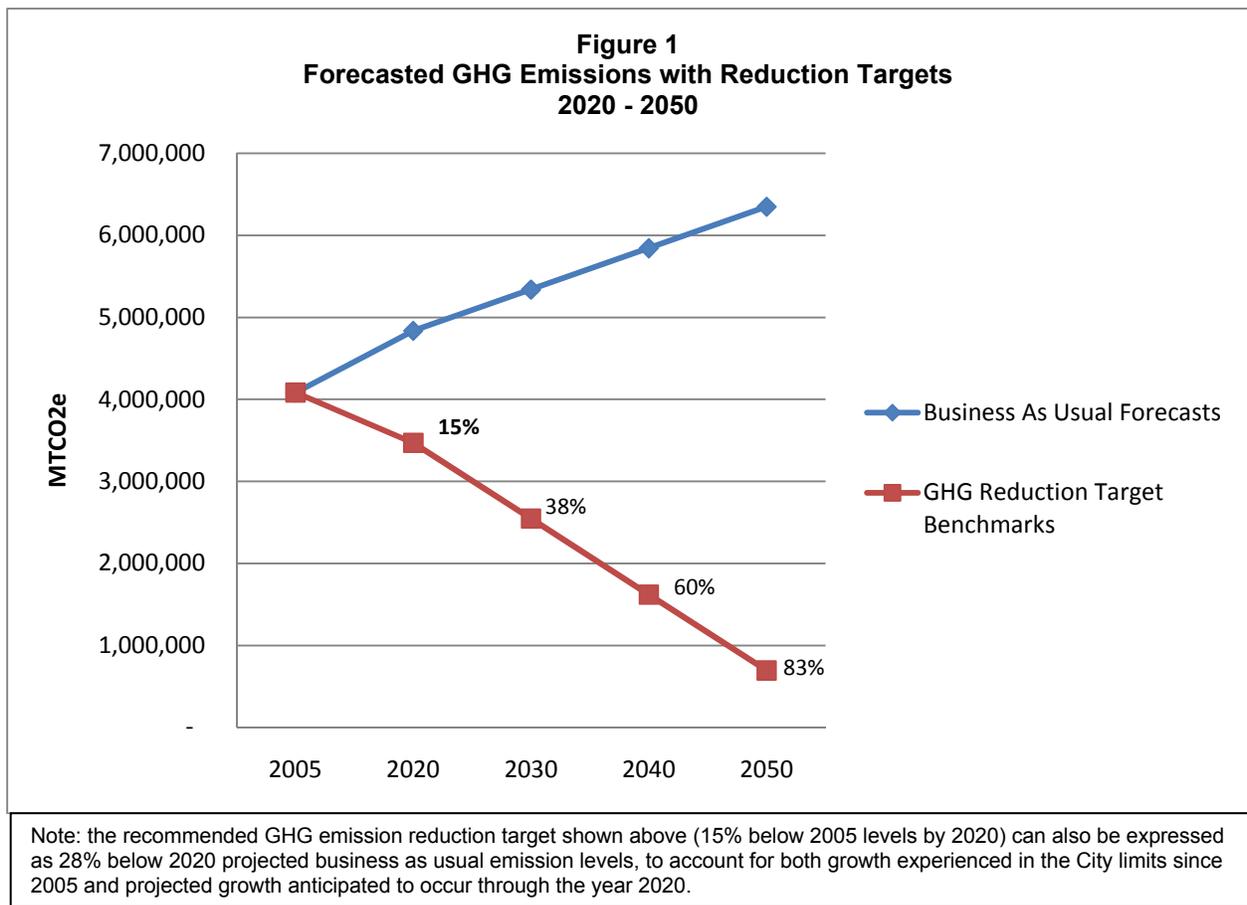
Source: Ascent 2011, Fehr & Peers 2011; ICF 2011, compiled by Ascent in 2011

2. Emissions Reduction Target:

Staff recommends a minimum GHG emissions reduction target of 15% below 2005 levels by 2020, or 28% below forecasted 2020 “business-as-usual” levels, consistent with CA Air Resources Board guidance to local governments in the AB 32 Scoping Plan to reduce community emissions by at least 15% below current levels by the year 2020. Table 2 and Figure 1 below show the specific emission reduction levels for the recommended minimum 2020 target, relative to both the baseline year and projected “business as usual” emissions. Staff recommends that the City Council take action to adopt the 2020 target. In addition, staff recommends that Council adopt interim communitywide targets of 38% below 2005 levels by 2030, and 83% below 2005 levels by 2050, consistent with policies established in the Sustainability Master Plan.

Table 2 Proposed Greenhouse Gas Reduction Targets						
	Baseline and Business As Usual Forecasts (MTCO ₂ e)	GHG Reduction Target Benchmarks (MTCO ₂ e)	Reduction from 2005 levels (MTCO ₂ e)	%	Reduction from 2020 Business As Usual (MTCO ₂ e)	%
Baseline (2005)	4,083,239	-	-	-	-	-
2020	4,835,677	3,470,753	612,486	15%	1,364,924	28%
2030	5,337,689	2,545,219	1,538,020	38%	2,792,470	52%
2040	5,842,777	1,619,685	2,967,154	60%	4,223,092	72%
2050	6,347,864	694,151	3,389,088	83%	5,653,713	89%

Notes: MT= metric tons; CO₂e = carbon dioxide equivalent;



3. Develop and Adopt a Climate Action Plan:

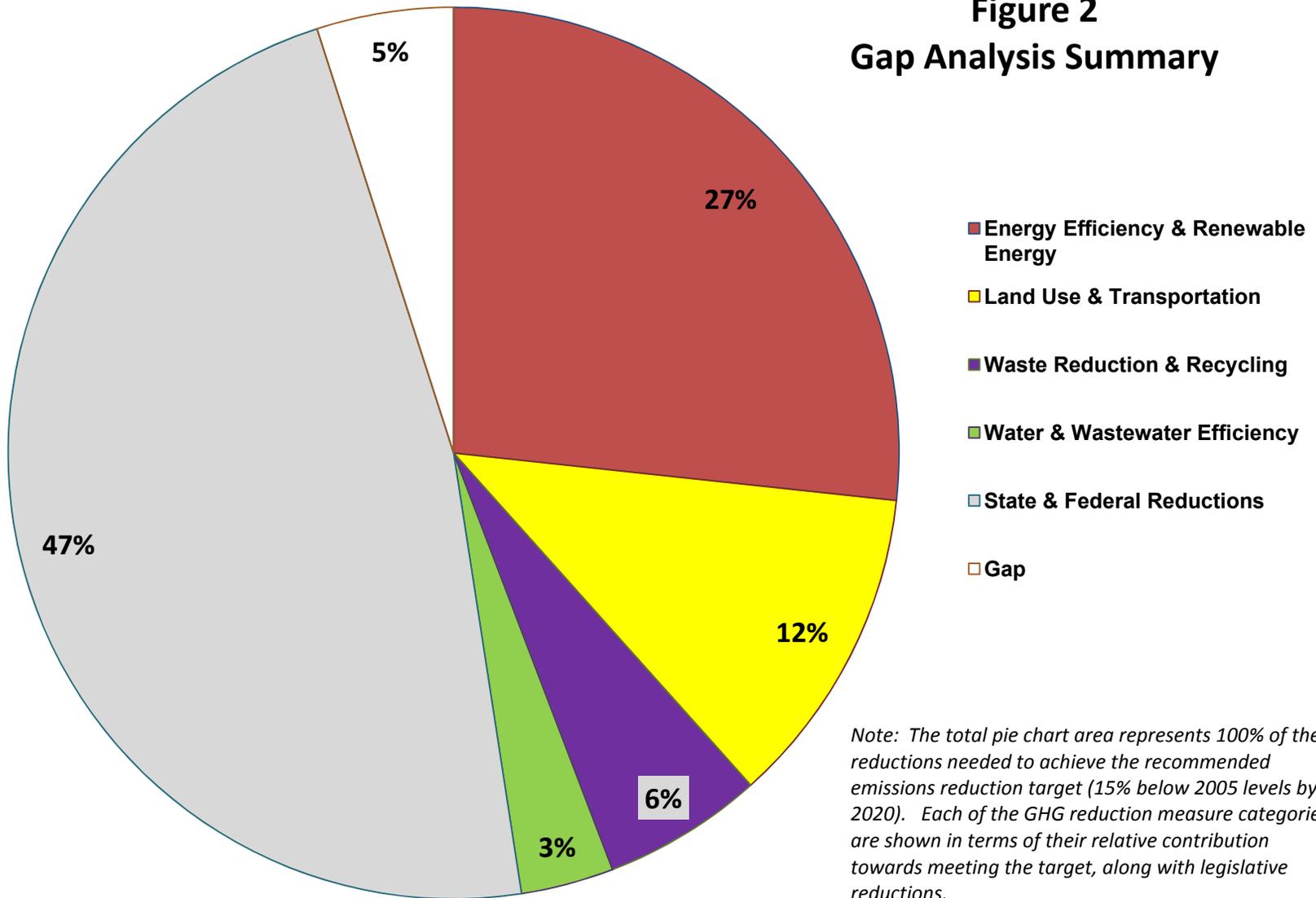
The strategies in the CAP will be organized by 5 categories, which roughly correlate to the emissions inventory: Energy Efficiency & Renewable Energy, Sustainable Land Use, Mobility & Connectivity, Waste Reduction & Recycling, and Water & Wastewater Efficiency. Within the 5 categories, staff has identified long-term sustainability performance goals, in order to help meet the overall GHG reduction target as well as achieve other sustainability objectives. Staff recommends that Council adopt these goals. The proposed goals are as follows:

- **Energy Efficiency & Renewable Energy:**
 - Achieve zero net energy in all new construction by the year 2030.
 - Achieve an overall 15% reduction in energy usage in all existing residential & commercial buildings by the year 2020.
- **Sustainable Land Use and Mobility & Connectivity:**
 - Reduce total communitywide vehicle miles traveled (VMT) per capita, at a minimum of 7% by 2020 and 16% by 2035.
 - Reduce vehicle miles traveled (VMT) per capita in new development by 35%, compared to statewide averages.
- **Waste Reduction & Recycling:**
 - Achieve 75% diversion of solid waste by the year 2020, and work towards becoming a “zero waste” community by the year 2040.
- **Water & Wastewater Efficiency:**
 - Reduce water consumption 20% per capita by 2020.

Staff and consultants have quantified a number of the preliminary draft greenhouse gas reduction measures, based on the 2030 General Plan, Sustainability Master Plan, and other known efforts that will reduce emissions. Table 3 and Figure 2 on the following pages show the effectiveness of known quantifiable measures in meeting the recommended GHG emissions target of 15% below 2005 levels by 2020 (or, 28% below 2020 business as usual emission levels). This is known as the “gap analysis”, and it showed that the preliminary draft measures identified to date appear to meet approximately 95% of the reductions necessary to meet the recommended 2020 target. However, additional reductions will be needed to close the identified gap.

Some of the proposed measures are controversial and are discussed later in this report. If any of the measures are determined by Council to be infeasible and are not adopted as part of the plan, additional measures will need to be developed to close the gap. Some quantifiable measures that will contribute to closing the gap are still under evaluation, particularly in the Sustainable Land Use and Mobility & Connectivity categories.

Figure 2
Gap Analysis Summary



Note: The total pie chart area represents 100% of the reductions needed to achieve the recommended emissions reduction target (15% below 2005 levels by 2020). Each of the GHG reduction measure categories are shown in terms of their relative contribution towards meeting the target, along with legislative reductions.

**Table 3
Preliminary Greenhouse Gas Reduction Strategy and Gap Analysis**

	Annual emissions reductions by 2020 (MT CO₂e/yr)	% of 2020 target
Energy Efficiency & Renewable Energy Strategies		
Energy Conservation Through Consumer Behavior & Education	55,937	4%
SMUD Home Performance Program	1,964	<1%
SMUD Shade Trees	112	<1%
SMUD Smart Grid	69,215	5%
Commercial PACE Program	12,979	1%
Small Commercial Energy Efficiency Pilot Program	868	<1%
Energy Efficiency of New Multi-Family Housing Construction	8,474	1%
Residential Energy Conservation Ordinance (RECO) - Option 2 (Building Permit) ¹	3,193	<1%
Commercial Energy Conservation Ordinance (CECO) - Option 2 (Building Permit) ¹	50,071	4%
Rental Housing Inspection Program (RHIP) Efficiency Requirements	32,887	2%
CALGreen Tier 1: Exceed Title 24 by 15% in all New Construction	76,339	6%
Solar Installations in New Residential Development Projects	50,657	4%
Solar Installations in New Commercial Development Projects	1,717	<1%
Subtotal (Energy Efficiency Strategies)	364,413	27%
Transportation and Land Use Strategies		
Compact Infill Development (35% VMT Reduction)	51,507	4%
Expand transit 5% above MTP investments by 2020	54,848	4%
Traffic Calming Measures	1,097	<1%
Traffic Signal Optimization	10,431	<1%
Pedestrian Facilities	6,582	<1%
Bicycle Facilities	32,909	2%
City Employee Furloughs	223	<1%
Dispose of exported out-of-state solid waste at Kiefer Landfill	1,804	<1%
Subtotal (Transportation and Land Use Strategies)	159,401	12%
Solid Waste Strategies		
Waste Reduction Target	79,404	6%
Subtotal (Solid Waste Strategies)	79,404	6%
Water & Wastewater Strategies		
50% Non-Potable Outdoor Water Use	28,776	2%
20% Per Capita Water Conservation Target	17,267	1%
Subtotal (Water & Wastewater Strategies)	46,043	3%
Phase 1 CAP: Municipal Operations ²	10,075	1%
Total (all strategies, reduction from projected)	649,261	48%
State and Federal Reductions (reduction from projected) ³	647,933	47%
Total (all strategies plus State & Federal, reduction from projected)	1,297,194	95%
GHG Emissions Reduction Target/Goal reduction from projected		
	1,364,924	100%
Gap	67,730	5%

Notes:

¹ RECO/CECO Option 2 (Building Permit) = requiring energy audits and/or upgrades for major rehabilitations, alterations, or additions that exceed certain valuation thresholds (e.g. \$50,000 or more); detailed program requirements to be determined at a later date.

² City of Sacramento CAP: Phase 1, Internal Operations. February 2010.

³ State, federal, or other agencies' actions that are outside of the jurisdictional control of the City but will have an impact on GHG emissions by 2020, including CA Renewable Portfolio Standard, increases in state/federal vehicle fuel efficiency standards, etc. MT CO₂e/yr = metric tons carbon dioxide equivalent per year; subtotal and totals may not sum exactly due to rounding.

Generally, the vast majority of the draft measures are consistent with established policies or programs that are contained in (or tied to) the City's 2030 General Plan, Sustainability Master Plan, or were initiated by other agencies (e.g., SMUD and the Sacramento Area Council of Governments [SACOG]). Some of the strategies are already underway or adopted, while others are proposed.

It should be noted that the State and Federal reductions category includes actions by other agencies that are outside of the jurisdictional control of the City but will have an impact on GHG emissions within the City's inventory by 2020. These include the CA Renewable Portfolio Standard (33% of electricity from renewable sources by 2020), increases in state/federal vehicle fuel efficiency standards, and anticipated changes in the minimum Title 24 energy efficiency requirements in the building code.

Staff recommends that the Council take action to adopt the draft goals and action strategy framework, and direct staff to include the specific quantitative action measures identified in order to achieve the recommended GHG reduction target. Should individual measures be identified by the Council as infeasible, additional measures will be identified by staff and included in the Draft Climate Action Plan.

Summary of Controversial Measures

Several of the preliminary draft action measures are controversial. As noted earlier, Council originally directed staff to update and enforce the existing Residential Energy Conservation Ordinance (RECO) by July 2012, and adopt a mandatory Green Building Ordinance by July 2012. These are addressed in more detail below.

RECO/CECO

The City Code currently includes a RECO-like ordinance in Chapter 15.76, which requires residential energy audits and upgrades at time of sale. No current City staff is assigned to actively enforce this ordinance, and voluntary compliance with the ordinance is assumed to be nonexistent. The City does not currently have a Commercial Energy Conservation Ordinance (CECO).

Staff worked with numerous stakeholders during the City/County Joint Green Building Task Force process in 2010 to further examine mandatory or voluntary options for greening both new and existing buildings. Significant concerns were raised about updating and enforcing the City's RECO by a number of Task Force members and stakeholders, including financial impact to homeowners, increased costs and complications with real estate transactions under point of sale requirements, as well as concerns about general community resistance to mandated energy audits. Other Task Force members felt that while controversial, a regulatory program such as a RECO could help to create jobs and help save residents money, and could be a necessary step in order to achieve the City's GHG emission reduction policies per AB 32 and other targets.

On March 1, 2011, staff presented the final Green Building Task Force recommendations to the City Council and requested Council direction on the RECO issue. Staff reported that the Task Force did not reach consensus or make a final recommendation on RECO, however the issues identified by the Task Force were still considered relevant for discussion. Several Councilmembers expressed concerns about the impacts of requiring energy audits and upgrades, while others asked staff to study the issue further and examine all options for reducing GHG emissions in existing buildings, including voluntary programs or incentives. Staff had specifically recommended in the March 1 staff report that the Climate Action Plan process would help to quantify the relative benefits of having a RECO type program to institute mandatory energy audits, versus voluntary or incentive-based options.

As part of the preliminary GHG measures analysis, staff considered three hypothetical options for revising and updating the Residential Energy Conservation Ordinance (RECO), as well as a proposed Commercial Energy Conservation Ordinance (CECO), for the purpose of comparing relative GHG emission reduction benefits. The three options are based on specific points at which energy audits and/or upgrade requirements could be triggered and can be summarized as follows:

Option 1: Date-Certain approach, whereby all existing residential or commercial buildings would be required to complete an energy audit and/or upgrades by a certain date (e.g. 2020).

Option 2: Building Permit approach, whereby an energy audit and/or upgrades would be required when a substantial alteration, addition or modification to an existing building exceeds a minimum valuation threshold (e.g. \$50,000 or more); and

Option 3: Point of Sale approach, whereby a seller or buyer would be required to complete an energy audit and/or upgrades prior to or following close of escrow.

The preliminary draft GHG reduction measures analysis was focused on Option 1 (Date-Certain approach), which would yield the highest amount of GHG emission reductions but would be the most controversial and difficult to enforce. Option 2 (Building Permit approach) would likely have the lowest participation rates and GHG reductions, yet it presents the most feasible mechanism for enforcement at the present time. Option 3 (Point of Sale approach) would have significantly lower GHG reductions than Option 1 and is also controversial. The Sacramento Association of Realtors (SAR) expressed strong opposition to Option 3. Staff has considered SAR's concerns and recognizes that a point of sale approach would potentially jeopardize existing home sales in the already-struggling marketplace. Staff therefore recommends that Option 2 (Building Permit approach) be included in the Draft Climate Action Plan, along with other voluntary incentive-based approaches also identified in the preliminary draft list of measures. Staff will also continue to work with SAR, the Sacramento Metropolitan Air Quality Management District, SMUD, and others to identify additional ways to boost voluntary participation in existing and forthcoming financing and incentive-based programs.

Green Building Ordinance

The Green Building Task Force recommended that the City base its mandatory green building ordinance on CALGreen, the statewide green building code that became mandatory statewide on January 1, 2011; and that only certain CALGreen Tier 1 measures (which are voluntary unless a local agency takes action to make them mandatory) should be phased in starting in 2012.

Staff presented the recommendations to the Council on March 1, 2011, at which time the Council directed staff to bring back an ordinance that would move the City into a leadership position in the region and go above and beyond what the Task Force recommended. The preliminary draft GHG reduction measures include a measure that is based on implementation of all CALGreen Tier 1 requirements as the assumed minimum green building standards to be adopted in 2012. Examples include a 15% increase in energy efficiency above current minimum Title 24 energy code requirements, as well as a 30% increase in water efficiency compared with 2008 plumbing code, for all new construction.

Staff has had multiple discussions with the Sacramento Region Builders, who have expressed concern about the timing and costs associated with increasing the minimum CALGreen standard to Tier 1 in 2012. The Region Builders group suggested that timing of full Tier 1 implementation be delayed to 2014.

A separate staff report addressing staff's recommendation for the Green Building Ordinance will be heard on the same date as this report and provides further details.

Summary of Outreach Efforts

Upon completing the gap analysis effort, staff reached out to key stakeholder groups to share the results of work performed to date and get feedback on the preliminary action measures and policy framework. Specific stakeholder groups consulted include:

- **Builders, developers, contractors, architects, realtors, and other real estate and development-industry professionals.** Examples of specific groups that attended or were invited to attend meetings include: Sacramento Association of Realtors, Rental Housing Association, North State Building Industry Association, Sacramento Regional Builders, American Institute of Architects-Central Valley Chapter, California Infill Builders Association, 2010 City/County Green Building Task Force members, Greenwise Sacramento Urban Design/Green Building Committee participants, etc.
- **Community advocacy groups, including housing, transportation, and environmental organizations.** Examples of specific groups that attended or were invited to attend meetings include: Environmental Council of Sacramento (ECOS), Sacramento-Yolo Mutual Housing Association, Sacramento Housing Alliance, Coalition for Regional Equity, 350 Sacramento, Habitat for Humanity, League of Women Voters-Sacramento County, Sierra Club Sacramento Group, Walk Sacramento, Sacramento Area Bicycle Advocates, etc.

- **Home performance contractors, energy auditors, and energy finance specialists.** Examples of specific groups that attended or were invited to attend meetings include: SMUD Qualified Energy Professionals contact list, California Building Performance Contractors Association, etc.
- **Partner agencies**, including Sacramento Metro Air Quality Management District (SMAQMD), Sacramento Municipal Utility District (SMUD), Sacramento Housing & Redevelopment Agency (SHRA).

Specific comments provided by stakeholder groups include:

- Concern about additional costs incurred by new or changing regulations
- Concern about timing of phasing in new programs or requirements
- Opposition to point-of-sale based RECO requirements
- Support for streamlining entitlement and permitting processes for infill and compact development through the Green Development Code Update and other efforts.
- Support for implementation of voluntary or incentive-based measures and strong education & outreach efforts to encourage individual and collective action.

Once the Draft Climate Action Plan has been completed, staff will initiate a public outreach program to obtain ideas and suggestions from a broader audience through public meetings, presentations to specific organizations, enhancements to the City's website, surveys, and other methods.

Climate Action History/Timeline

The following is an overview of major actions taken by the City Council and staff to address the issue of climate change prior to initiation of the Climate Action Plan:

- The City joined ICLEI-Local Governments for Sustainability in 1998. Staff has used ICLEI as a resource since that time to address sustainability and climate change issues in policy development and planning.
- The City of Sacramento joined the California Climate Action Registry (CCAR) as a charter member in October 2002, and has been tracking and registering annual greenhouse gas emissions from the City's internal operations.
- On April 4, 2006, the City Council authorized Mayor Fargo to sign the United Nations Urban Environmental Accords, which identified a reduction target of 25% below 1990 levels by 2030.
- In December 2007, the City Council adopted the City's Sustainability Master Plan, including the goal of meeting the intent of the Global Warming Solutions Act (AB32) and subsequent legislation. This goal included City operations, the community of Sacramento, and collaboration with regional partners in the

SACOG region to develop a regional climate action plan and climate adaptation plan.

- In early 2008, the County and City of Sacramento, along with other incorporated cities in the county, SMUD, SACOG, and SMAQMD, formed the Sacramento Area Green Partnership to begin developing a county-wide GHG inventory and collaborate on climate action planning efforts in the region. The inventory was completed in June 2009. The Sacramento Area Green Partnership has continued to meet quarterly to coordinate the development of regionally-consistent climate action planning strategies among all the participating jurisdictions. In late 2010, a study was initiated by SMUD on behalf of the Partnership of potential GHG reduction measures that could be applied throughout the county.
- On March 3, 2009, the City Council adopted the 2030 General Plan and directed staff to complete a Climate Action Plan (CAP) by July 2011. The General Plan Master EIR identified the CAP as key program that would mitigate climate change impacts under the buildout of the General Plan. In addition, the Council directed staff to adopt a mandatory Green Building Ordinance and update and enforce the existing Residential Energy Conservation Ordinance (Chapter 15.76) by July 2012, also as mitigation measures that would address climate change impacts.



RESOLUTION NO.

Adopted by the Sacramento City Council

ADOPTING GREENHOUSE GAS EMISSIONS REDUCTION TARGETS, PERFORMANCE GOALS, AND REDUCTION MEASURES FRAMEWORK, AND DIRECTING STAFF TO PREPARE A DRAFT CLIMATE ACTION PLAN FOR PUBLIC REVIEW.

BACKGROUND

- A. The California Global Warming Solutions Act of 2006 (AB 32) set a statewide goal of reducing greenhouse gas emissions to 1990 levels by the year 2020.
- B. The Sustainability Master Plan, adopted by City Council in 2007, established specific greenhouse gas reduction policies for City operations and the Sacramento region at: 1990 levels by 2020, 25% below 1990 levels by 2030, and 80% below 1990 levels by 2050.
- C. The AB 32 Scoping Plan, adopted in 2008 by the California Air Resources Board, recommended that local governments take action to reduce communitywide greenhouse gas emissions to at least 15% below current levels by the year 2020, which is assumed to be equivalent to achieving 1990 levels by 2020 at the local level.
- D. The 2030 General Plan was adopted on March 3, 2009, and a Climate Action Plan was identified by City Council as a priority General Plan implementation program and mitigation measure to be completed by July 2011.
- E. The City Council adopted Phase 1 of the Climate Action Plan on February 16, 2010, which identified strategies to reduce greenhouse gas emissions from the City's internal municipal operations 15% below 2005 levels by the year 2020.
- F. Staff worked with regional partners to complete a comprehensive greenhouse gas emissions inventory for the baseline year of 2005, and has completed forecasted future growth in emissions for the years 2020, 2030 and 2050.
- G. Staff has identified a recommended greenhouse gas reduction target of 15% below 2005 levels by 2020, in order to maintain consistency with AB 32 and the Sustainability Master Plan. Future targets were also identified for 2030 and 2050 in order to maintain consistency with the Sustainability Master Plan.
- H. Staff has prepared a gap analysis that identifies the effectiveness of specific greenhouse gas reduction measures in meeting the recommended target.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

- Section 1. The greenhouse gas emissions reduction target for communitywide emissions in the City's Climate Action Plan shall be a minimum of 15% below 2005 emission levels by the year 2020. Future greenhouse gas reduction targets beyond the 2020 target year shall be 38% below 2005 emissions levels by the year 2030, and 83% below 2005 emissions levels by the year 2050.
- Section 2. The proposed Draft Climate Action Plan performance goals and specific quantitative greenhouse gas reduction measures framework, as noted in Exhibit A, are hereby approved.
- Section 3. Staff is directed to prepare a Draft Climate Action Plan for public review to meet the target identified above, incorporating the goal framework and greenhouse gas reduction strategies identified above.
- Section 4. Exhibit A is a part of this Resolution.

Exhibit A

Climate Action Plan Performance Goals and Action Strategy Framework

The strategies in the Draft Climate Action Plan will be organized by 5 categories, which roughly correlate to the greenhouse gas emissions inventory: Energy Efficiency & Renewable Energy, Sustainable Land Use, Mobility & Connectivity, Waste Reduction & Recycling, and Water & Wastewater Efficiency.

Within the 5 categories, staff has identified several long-term performance goals, in order to help meet the overall greenhouse gas emissions reduction target as well as achieve other sustainability objectives. Staff recommends that Council approve these goals for inclusion in the Draft Climate Action Plan. The proposed goals are as follows:

- **Energy Efficiency & Renewable Energy:**
 - Achieve zero net energy in all new construction by 2030.
 - Achieve an overall 15% reduction in energy usage in all existing residential & commercial buildings by 2020.
- **Sustainable Land Use and Mobility & Connectivity:**
 - Reduce total communitywide vehicle miles traveled (VMT) per capita, at minimum of 7% by 2020, and 16% by 2035.
 - Reduce vehicle miles traveled (VMT) per capita in new development by 35%, compared to statewide averages.
- **Waste Reduction & Recycling:**
 - Achieve 75% diversion of solid waste by 2020, and work towards becoming a “zero waste” community by 2040.
- **Water & Wastewater Efficiency:**
 - Reduce water consumption 20% per capita by 2020.

Preliminary draft greenhouse gas reduction measures were identified based on the 2030 General Plan, Sustainability Master Plan, and other known efforts that will reduce emissions. The table on the following page shows the effectiveness of known quantifiable measures in meeting the recommended GHG emissions target of 15% below 2005 levels by 2020 (or, 28% below 2020 business as usual emission levels).

The City Council approves these quantified measures for inclusion in the Draft Climate Action Plan and directs staff to identify and include in the Draft Plan additional measures to help close the identified gap and meet the 2020 target.

Preliminary Greenhouse Gas Reduction Strategy and Gap Analysis		
	Annual emissions reductions by 2020 (MT CO₂e/yr)	% of 2020 target
Energy Efficiency & Renewable Energy Strategies		
Energy Conservation Through Consumer Behavior & Education	55,937	4%
SMUD Home Performance Program	1,964	<1%
SMUD Shade Trees	112	<1%
SMUD Smart Grid	69,215	5%
Commercial PACE Program	12,979	1%
Small Commercial Energy Efficiency Pilot Program	868	<1%
Energy Efficiency of New Multi-Family Housing Construction	8,474	1%
Residential Energy Conservation Ordinance (RECO) - Option 2 (Building Permit) ¹	3,193	<1%
Commercial Energy Conservation Ordinance (CECO) - Option 2 (Building Permit) ¹	50,071	4%
Rental Housing Inspection Program (RHIP) Efficiency Requirements	32,887	2%
CALGreen Tier 1: Exceed Title 24 by 15% in all New Construction	76,339	6%
Solar Installations in New Residential Development Projects	50,657	4%
Solar Installations in New Commercial Development Projects	1,717	<1%
<i>Subtotal (Energy Efficiency Strategies)</i>	364,413	27%
Transportation and Land Use Strategies		
Compact Infill Development (35% VMT Reduction)	51,507	4%
Expand transit 5% above MTP investments by 2020	54,848	4%
Traffic Calming Measures	1,097	<1%
Traffic Signal Optimization	10,431	<1%
Pedestrian Facilities	6,582	<1%
Bicycle Facilities	32,909	2%
City Employee Furloughs	223	<1%
Dispose of exported out-of-state solid waste at Kiefer Landfill	1,804	<1%
<i>Subtotal (Transportation and Land Use Strategies)</i>	159,401	12%
Solid Waste Strategies		
Waste Reduction Target	79,404	6%
<i>Subtotal (Solid Waste Strategies)</i>	79,404	6%
Water & Wastewater Strategies		
50% Non-Potable Outdoor Water Use	28,776	2%
20% Per Capita Water Conservation Target	17,267	1%
<i>Subtotal (Water & Wastewater Strategies)</i>	46,043	3%
Phase 1 CAP: Municipal Operations ²	10,075	1%
Total (all strategies, reduction from projected)	649,261	48%
State and Federal Reductions (reduction from projected) ³	647,933	47%
Total (all strategies plus State & Federal, reduction from projected)	1,297,194	95%
GHG Emissions Reduction Target/Goal reduction from projected		
	1,364,924	100%
Gap	67,730	5%
Notes:		
¹ RECO/CECO Option 2 (Building Permit) = requiring energy audits and/or upgrades for major rehabilitations, alterations, or additions that exceed certain valuation thresholds (e.g. \$50,000 or more); detailed program requirements to be determined at a later date.		
² City of Sacramento CAP: Phase 1, Internal Operations. February 2010.		
³ State, federal, or other agencies' actions that are outside of the jurisdictional control of the City but will have an impact on GHG emissions by 2020, including CA Renewable Portfolio Standard, increases in state/federal vehicle fuel efficiency standards, etc. MT CO ₂ e/yr = metric tons carbon dioxide equivalent per year; subtotal and totals may not sum exactly due to rounding.		



Preliminary Greenhouse Gas Reduction Measures Energy Efficiency, Conservation, and Renewable Energy

	H	I	M	N	O
		Greenhouse Gas Reduction (MT)	Implementation	Status	Initiation
1	CAP Implementing Actions				
2	CAP Reduction Measure E-1: Energy Demand Management				
4	Energy Efficiency Improvements through Consumer Behavior and Education, including launching an energy challenge campaign.	55,937	Community Outreach & Education	Some elements are underway	2011
7	SMUD Smart Grid	69,215	Partnership	Underway	2010
8	CAP Reduction Measure E-2: Existing Building Energy Efficiency				
9	Develop and adopt a Commercial Property Assessed Clean Energy Financing Program (Commercial PACE program).	12,979	City Program	Program development is underway	2011
11	Support existing Low-income weatherization programs and Energy Efficient Remodel Program.	TBD	Partnership	Ongoing	2010-2020
12	Update and enforce Chapter 15.76 of the Sacramento City Code, also known as the Residential Energy Conservation Ordinance (RECO)	3,193	City Program	Proposed	By 2020
13	Incorporate weatherization/energy efficiency requirements into the City's existing Rental Housing Inspection Program (RHIP) to improve energy efficiency and water conservation	32,887	City Program	Proposed	By 2020
14	Commercial Energy Conservation Ordinance (CECO): Require energy efficiency improvements for existing commercial development (10% by 2015 and 20% by 2020).	50,071	City Program	Proposed	TBD
15	Small Commercial Energy Efficiency Pilot Program	868	Partnership	2011 - develop Pilot Program	2011
16	SMUD Home Performance Program: Enhanced rebates for energy efficiency retrofits.	16	Partnership	Underway	2011
18	Provide information at the public counter and on the City's website about financial incentives for energy efficiency retrofits.	Qualitative	Community Outreach & Education	Proposed	
19	Provide information on benefits and steps involved in retrofitting existing structures with green building technologies/practices and encourages structures to be renovated to be built to a green building standard such as Leadership in Energy and Environmental Design (LEED).	Qualitative	Community education and empowerment	Planned	2012-2014

**Preliminary Greenhouse Gas Reduction Measures
Energy Efficiency, Conservation, and Renewable Energy**

	H	I	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction (MT)	Implementation	Status	Initiation
21	CAP Reduction Measure E-3: New Construction Energy Efficiency				
22	Develop standards and/or incentives to implement State Policy requiring all buildings to be net-zero by 2030	TBD	City Program	Proposed	2011-2030
24	CALGreen Tier 1 Building Energy Standards: Exceed Title 24 by 15%	76,339	CALGreen Tier 1 (New Buildings)	Proposed	2012
26	Prepare a "Did You Know?" checklist for contractors and developers that identifies low or no cost energy efficiency features into a project	Qualitative	Community Outreach & Education	Proposed	2012
27	Commercial Building Energy Disclosure to raise market awareness of energy efficiency of commercial properties. (AB1110).	Qualitative	Community Outreach & Education	Proposed	2012
30	Create a database to monitor local green building projects.	Qualitative	City Program	Proposed	2012
31	Green Building Recognition and Education Program	Qualitative	Community Outreach & Education	Proposed	2012
32	Green Building Structural Incentive Program	Qualitative	Green Development Code	Proposed	2012
33	SMUD shade trees	112	Partnership	Proposed	Ongoing
35	Implement or exceed the following CALGreen measures: Building orientation and shading in nonresidential buildings	Qualitative	CALGreen Tier 1 Electives	Proposed	2012
36	Prepare passive solar design guidelines for new development, based on Sacramento's latitude and solar angle.	Qualitative	City Program	Proposed	2012- 2014
37	Energy efficient standards for street lights, traffic signals, and outdoor lighting for new development.	TBD	Green Development Code (Zoning, Subdivision, etc.)	Proposed	Require by 2020

**Preliminary Greenhouse Gas Reduction Measures
Energy Efficiency, Conservation, and Renewable Energy**

	H	I	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction (MT)	Implementation	Status	Initiation
38	Sustainability Priority for Publicly Subsidized Development Projects	Qualitative	City Program	Proposed	TBD
39	Encourage that the typical builder-supplied appliances (e.g., refrigerators and dishwashers) be ENERGY STAR certified for all new residential developments.	Qualitative	CALGreen Tier 1 Elective	Proposed	2012
40	Encourage all new non-residential developments install high-efficiency boilers, minimum 85% efficiency.	Qualitative	City Program	Proposed	TBD
41	Require paving with a Solar Reflectance Index (SRI) of at least 10-16	Qualitative	CALGreen Tier 1 Elective	Proposed	2012
42	Require commercial facilities to comply with CALGreen cool roofs measure (A5.106.11.2).	Qualitative	CALGreen Tier 1 Prerequisite	Proposed	2012
46	Combined heat and power/cogeneration for new development projects	Qualitative	TBD	Proposed	2012
47	Require new swimming pool heaters to incorporate solar thermal heating.	Qualitative	TBD	Proposed	2012- 2014
48	CAP Reduction Measure E-4: Renewable Energy				
49	Solar Installation in New Housing Developments: Amend current building codes to require that new single-family residential projects of ten units or more participate in the California Energy Commission's New Solar Homes Partnership , or a similar program with solar power requirements. (e.g. SMUD's SolarHomes Program) equal to or greater than those of the California Energy Commission's New Solar Homes Partnership.	50,657	TBD	Proposed	2012- 2014
50	On- or Off-Site Renewable Energy: Require that new or major rehabilitation (additions of 25,000 square feet of office/retail commercial or 100,000 square feet of industrial floor area) of commercial, office, or industrial development greater than or equal to 25,000 square feet in size incorporate renewable energy generation (on- or off-site) to provide 15% or more of the project's total electricity needs	1,717	TBD	Proposed	2012- 2014

**Preliminary Greenhouse Gas Reduction Measures
Energy Efficiency, Conservation, and Renewable Energy**

	H	I	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction (MT)	Implementation	Status	Initiation
51	Flat fee for solar PV 4kW or less and for solar hot water systems of 50 gallons or less.	Qualitative	Financing & Incentives	Underway	2011
53	Streamline permitting process for solar PV and thermal systems	Qualitative	Financing & Incentives	Underway	2011
54	Expand and clarify use of photovoltaic arrays to meet parking lot shading requirements.	Qualitative	Green Development Code (Zoning, Subdivisions, etc.)	Proposed	2012- 2014
55	Support local efforts to implement waste to energy (food waste, ag waste, municipal waste, etc.)	Qualitative	Partnership	Existing and Planned	TBD
56	Local/Regional Renewable Energy Development: Create a "shovel ready" program for renewable energy development	Qualitative	Partnership	Proposed	TBD

Preliminary Draft

**Preliminary Greenhouse Gas Reduction Measures
Sustainable Land Use**

	H	I	J	M	N
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2	CAP Reduction Measure LU-1: Sustainable Growth Patterns and Infill				
3	Prepare a comprehensive update of the Infill Strategy to address obstacles to development in target infill areas, commercial corridors, and key opportunity sites.	Qualitative	Financing & Incentives	In Progress	2012
4	Expand and market the "Shovel Ready Program" citywide and create a certification process for "shovel ready" sites (were the necessary infrastructure and major entitlements are in place to facilitate development).	Qualitative	Financing & Incentives	Planned	(2012-2015)
5	In conjunction with the Shovel Ready Program, work with the Sacramento Housing and Redevelopment Agency to identify key infill sites in opportunity areas and established infill areas and ensure that major entitlements and incentives are in place to facilitate development.	Qualitative	Financing & Incentives	In Progress	(2009-2011)
6	Develop and implement a program to promote sustainable development through regular regional coordination meetings that include local government representatives and other applicable agencies.	Qualitative	Leveraging resources	Ongoing	2009-2011
7	Prepare guidelines that describe the City's process for qualifying for CEQA streamlining for residential mixed-use projects and "Transportation Priority Projects" as provided under State law.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Ongoing	2009-2011
8	Complete Phase 1 and Phase 2 of the rezones needed to make zoning designations consistent with the landuse designations of the 2030 General Plan.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Completed	2009
9	Comprehensively update the zoning code to support more sustainable development patterns and streamline infill development.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Underway	2011-2014
10	Adopt new Multi-Family Principles that encourage SHRA funded, new construction multi-family projects to exceed Title 24 standards.	Qualitative	Partnership	Complete	2009
11	Implement the destination and accessibility (i.e., centers) policies of the General Plan to achieve an increase in the number of jobs and other attractions reachable within a given time frame.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Adopted	2009-2030
12	Implement the transit centers policies of the General Plan to locate appropriate projects near transit and achieve an increase in the use of transit by people traveling to and from the projects.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Adopted	2009 - 2030
13	Implement the affordable housing and transit oriented development policies of the General Plan to integrate affordable and below-market rate housing near transit.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Adopted	2009-2030
14	Provide CEQA streamlining benefits for residential mixed use projects and Transit Priority Projects pursuant to State Law (SB375), consistent with 2030 General Plan.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2013-2014

**Preliminary Greenhouse Gas Reduction Measures
Sustainable Land Use**

	H	I	J	M	N
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
15	CAP Reduction Measure LU-2: Complete Neighborhoods				
16	Develop and implement a green neighborhood design checklist to evaluate large-scale residential development in new growth areas.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2013
17	Proactively plan residential neighborhood centers for existing neighborhoods (rather than waiting for development plans to be submitted), either as Community Plan Updates or City initiated Community Plan Amendments.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Proposed	2020
18	Implement the land use changes in the 2030 General Plan which transitions the city to a more compact urban form, resulting in <u>building-energy savings</u> from a higher proportion of multi-family dwelling units.	8,474	Green Development Code (Zoning, Subdivision, etc.)	Ongoing	2009
19	CAP Reduction Measure LU-3: Mixed Uses				
20	Implement the mixed use policies of the General Plan to achieve an increase in the diversity of urban and suburban developments.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Adopted	2009-2030
21	Improve the job-housing balance by amending the Sacramento City Zoning Code code to allow for a greater mix of uses in neighborhoods, corridors and centers.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2014-2015
22	CAP Reduction Measure LU-4: Sustainable Development Practices				
23	Green Development Code Update: Review and revise the City's Municipal Code for Consistency with the 2030 General Plan, including but not limited to: 1) Zoning code 2) Subdivision regulations 3) Street design standards 4) Parking regulations 5) Annexation regulations 6) Design guidelines	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2012-2014
24	Update the Sacramento City Zoning Code to allow a development project to exceed maximum allowed FAR, based on the project's "significant benefits" to the public. "Significant benefits" shall also be defined through the zoning code update.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2014-2015
25	Establish a plan and process to improve monitoring and enforcement of all CEQA mitigation measures, including air quality measures.	Qualitative	City Program	Underway	(2009-2011)
26	Establish a process to require the completion of an Air Quality Management Plan for proposed development projects that would result in substantial air quality impacts exceeding the Sacramento Metropolitan Air Quality Management District's reactive organic gas (ROG) and Nitrous Oxide operational thresholds. The Plan shall outline how a project will incorporate design or operational features that reduce emissions by 15 percent from the level that would be produced by an unmitigated project.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Completed	(2009-2011)

**Preliminary Greenhouse Gas Reduction Measures
Sustainable Land Use**

	H	I	J	M	N
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
27	Prepare and adopt guidelines for the conversion of nonresidential uses to residential uses.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	Unknown
28	Amend City Subdivision regulations to include standards for street and lot configuration to accommodate solar access. Amend City Zoning Code to provide standards for site design and building orientation to optimize potential for passive solar design.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2014-2015
29	Encourage development projects to use local and sustainable building materials that are sourced and processed locally.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Proposed	2009-2030
30	Update the building and zoning codes to facilitate adaptive reuse of historic resources consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2012-2015
31	Update building and zoning codes to facilitate and provide incentives for the adaptive reuse of historic resources and existing structures.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2014-2015?
32	Allow additional trees and landscaping to be installed in existing parking lots without requiring replacement of lost parking spaces (when increase in building area or change in use is not being proposed.)	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2012-2014
33	Recognize the value of agricultural, habitat, and open space lands for their value as carbon sinks, and establish easements and other mechanisms to preserve them. Establish land use restrictions such as agricultural conservation easements to protect the land for agricultural use in perpetuity.	Qualitative	General Plan / Sustainability Plan	Planned	TBD
34	CAP Reduction Measure LU-5: Quality Design				
35	Implement the urban design policies of the General Plan to enhance walkability and connectivity and improve street network characteristics within a neighborhood.	9,897	Green Development Code (Zoning, Subdivision, etc.)	Underway	2009-2030
36	Review and amend, as necessary, the subdivision, grading, and other ordinances of the Sacramento City Code to ensure that biological resources are protected consistent with General Plan policies.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Planned	2012-2014
37	Work with regional partners to adopt and implement guidelines that will protect and preserve open space, prime farmland and key habitat, including wildlife and riparian corridors.	Qualitative	General Plan / Sustainability Plan	Planned	TBD
38	By 2030, achieve accessible public park or recreational open space within 1/2 mile of all residences and achieve restoration of and public access along all waterways and riparian corridors (Sacramento and American Rivers, urban creeks).	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Ongoing	2005-2030

**Preliminary Greenhouse Gas Reduction Measures
Mobility-Connectivity**

	H	L	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2	CAP Reduction Measure MC-1: Multimodal Travel Options				
3	Prepare and adopt multi-modal design standards.	Qualitative	City Program	Planned	2013
4	Update the City's Traffic Impact Analysis guidelines to reflect the Level of Service (LOS) standards in the 2030 General Plan.	Qualitative	City Program	Underway	2011
5	Continue to increase the use of traffic calming measures within the City that reduce motor vehicle speeds and encourage pedestrian and bicycle trips with traffic calming features.	1,097	City Program	Underway	Prior to 2005
6	Identify existing streets that can be more complete based upon adopted design standards and the policies in the 2030 General Plan.	Qualitative	City Program	Underway	2013
7	Prepare and adopt a citywide transportation development impact fee program to support the development of all travel modes needed for new development.	Qualitative	City Program	Underway	2010
8	Green Infrastructure Master Plan - Prepare a long-term plan for integrating the City's green infrastructure - parkways, waterways, parks, open space, shaded bicycle parkways and pedestrianways.	Qualitative	City Program	Planned	2014
9	Identify underused rights-of-way, such as street lanes, drainage canals, and railroad corridors to convert to bikeways and/or pedestrian ways.	Qualitative	City Program	Planned	2013
10	Continue to convert selected streets into two-way operation to make them more transit, bicycle, and pedestrian friendly.	Qualitative	City Program	Underway	2009
11	CAP Reduction Measure MC-2: Improved Pedestrian Environment				
12	Initiate a pedestrian safety outreach program and continue outreach to the public through DOT's website.	Qualitative	City Program	Planned	2011
13	Implement Pedestrian Master Plan facilities to achieve an annual expansion of 1 percent of the existing system.	6,582	City Program	Underway	2006
14	Review and update the Pedestrian Master Plan every 10 years.	Qualitative	City Program	Completed update 2006	Next update 2016
15	Continue to identify and prioritize pedestrian improvement projects as part of the Transportation Programming Guide.	Qualitative	City Program	Ongoing	2008

**Preliminary Greenhouse Gas Reduction Measures
Mobility-Connectivity**

	H	L	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
16	CAP Reduction Measure MC-3: Increased Bicycle Mode Share				
17	Implement Bikeway Master Plan facilities to achieve an annual expansion of 5% percent of the existing system.	32,909	City Program	Ongoing	1995
18	Review and update the Bikeway Master Plan every 3 years.	Qualitative	City Program	Completed update 2011	1995
19	Increase the amount of secure bicycle parking within the City funded in part by Sacramento Metropolitan Air Quality District bike parking program.	Qualitative	City Program	Underway	2008-2016
20	Create a new public bike parking program for the public right-of-way.	Qualitative	City Program	Completed	2009-2011
21	Support community efforts to establish of a bike-sharing program within the City.	Qualitative	Partnership	Underway	2011
22	Develop and adopt development standards for bicycle support facilities (e.g., bicycle racks, personal lockers, showers, and other support facilities) which meet or exceeds [Tier 1] CalGreen requirements.	TBD	Green Development Code (Zoning, Subdivision, etc.) / CalGreen (New Buildings)	Underway	2011
23	CAP Reduction Measure MC-4: Increased Transit Mode Share				
24	Expand transit and mode options to fill transit gaps. Potentially include the establishment of streetcars, car-sharing, and bike-sharing.	Qualitative	Partnership	Underway	2010
25	Support the development of the South Line Phase II extension of the Sacramento Regional Transit System.	Qualitative	Partnership	Planned	2013
26	Support Regional Transit's efforts to identify options for informing transit riders of the availability and timing (e.g., headways) of public transit.	Qualitative	Partnership	Underway	2013
27	Support the development of the Greenline (a.k.a.Downtown Natomas Airport) extension of the Light Rail Transit system.	Qualitative	Partnership	Under Construction	2010
28	Work with community partners to develop and implement a policy that expands affordable public transportation coverage to within one-quarter of a mile of all city residents.	Qualitative	Partnership	Ongoing	2005

**Preliminary Greenhouse Gas Reduction Measures
Mobility-Connectivity**

	H	L	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
29	CAP Reduction Measure MC-5: Low Emission Vehicles/Efficient Goods Movement				
30	Identify gaps that could hamper a coordinated Neighborhood Electric Vehicle (NEV) network of street with posted speed limits of 35 mph or lower.	Qualitative	City Program	Planned	2011
31	Participate in regional planning efforts for electric vehicle public charging infrastructure in the public realm and provide public charging stations according to plan.	Qualitative	Partnership	Underway	2011
32	Require developments of a certain size to include dedicated parking and for electric cars and NEVs.	TBD	Green Development Code (Zoning, Subdivision, etc.) / CalGreen (New Buildings)	Existing (CalGreen); Proposed (CalGreen Tier 1)	2011-2012
33	Develop a fast-track permit process for electric vehicle charging stations on private property.	Qualitative	Building Code	Underway	2012
34	CAP Reduction Measure LUM-6: Connected Transportation System				
35	Identify major barriers to connectivity throughout the City and prioritize funding for improvements.	Qualitative	City Program	Underway	Prior to 2005
36	Identify deficiencies and feasible improvements to bike and pedestrian facilities on existing bridges.	Qualitative	City Program	Planned	2013
37	CAP Reduction Measure MC-7: Transportation Demand Management				
38	Support SACOG's Commuter Club.	Qualitative	Partnership	Ongoing	Prior to 2005
39	Implement market price public parking (on-street).	TBD	City Program	Planned	2013
40	Update and enhance the Transportation Systems Management Program consistent with the policies of the General Plan.	TBD	City Program	Underway	2009
41	Reduce solid waste truck travel miles by transporting waste to closer landfill facilities.	1,804	City Program	In progress	By December 2012
42	Reduced vehicle-miles traveled from monthly City employee furloughs/alternative (9/80) work schedules and/or telecommuting.	223	City Program	Underway	2008

Preliminary Greenhouse Gas Reduction Measures
Mobility-Connectivity

	H	L	M	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
43	Incorporate a parking cash-out program option into the TSM ordinance.	Qualitative	Green Development Code (Zoning, Subdivision, etc.)	Proposed	2012-2014
44	Provide incentives for development projects that separate the costs of rented parking from leased building space so that the charges from parking are borne more explicitly by the user.	TBD	Green Development Code (Zoning, Subdivision, etc.)	Proposed	2012-2014
45	Limit parking in areas of the City that are readily served by transit and are accessible by bicycle by limiting onstreet parking, reducing minimum parking standards over time, and promoting shared parking programs.	TBD	Green Development Code (Zoning, Subdivision, etc.)	Parking study is nearly Underway	2012-2015

Preliminary Draft

**Preliminary Greenhouse Gas Reduction Measures
Waste Reduction and Recycling**

	H	I	J	N	O
	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
1					
2	CAP Reduction Measure WRR-1: Sustainable Production and Consumption				
3	Support efforts to expand new venues for farmers markets	Qualitative only	Partnership	Underway	Ongoing
4	Update the Development Code to allow community gardens on vacant private property and rooftops.	Qualitative only	Green Development Code (Zoning, Subdivisions, etc.)	Underway	2011-12
5	Support efforts to implement the Solid Waste Authorities Multifamily Recycling Ordinance, which Requires apartments and multifamily dwellings of 5 or more units to have a recycling program.	Qualitative only	Partnership	Ongoing	Adopted in June 2009
6	Provide information to the public on how to voluntarily opt out of receiving junk mail.	Qualitative only	Community Outreach & Education	Proposed	2011-12
7	Promote and encourage paperless billing and payment options.	Qualitative only	Community Outreach & Education	Ongoing	3/29/2009
8	Develop/adopt backyard chicken ordinance	Qualitative only	Green Development Code (Zoning, Subdivisions, etc.)	Planned	2011-12
9	Promote and support community gardens and residential vegetable gardens.	Qualitative only	City Program	Ongoing	Prior to 2005
10	Community education about locally produced food.	Qualitative only	Community Outreach & Education	Proposed	2011
11	Develop and maintain demonstration gardens in each Council District.	Qualitative only	City Program	Proposed	2011
12	Develop and maintain a regional demonstration community garden and training center.	Qualitative only	City Program	Proposed	2011
13	CAP Reduction Measure WRR-2: Solid Waste Source Reduction				
14	Achieve a 75% diversion rate by 2020, and a 90% diversion rate by 2030.	79,404	City Programs / Community Outreach & Education	Proposed	2011
15	Develop waste reduction strategies for major waste generators.	Qualitative only	Partnership	Ongoing	Ongoing
16	Work with Franchise Haulers to increase commercial solid waste diversion rate to 30%.	Qualitative only	Partnership	Proposed	TBD

**Preliminary Greenhouse Gas Reduction Measures
Waste Reduction and Recycling**

	H	I	J	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
17	CAP Reduction Measure WRR-3: Diversion, Recycling, and Reuse				
18	Collaborate with businesses and other agencies to provide convenient locations for consumers to take certain types of waste back to where they purchased them.	Qualitative only	Partnership	Ongoing	2006
19	Continue to offer door-to-door pick-up services and drop-off locations for household batteries and florescent lamps.	Qualitative only	City Program	Ongoing	Ongoing
20	Continue to offer alternatives for e-Waste recycling	Qualitative only	City Program	Ongoing	Ongoing
21	Continue to enforce the City's Construction and Demolition Ordinance, consistent with CALGreen requirements. If Tier 1 is adopted, require all new development projects to divert 65% of the waste stream from landfills.	Qualitative only	CALGreen Tier 1 Prerequisite	Adopted in March 2009, amended in 2010 per CALGreen 50% diversion requirement. Tier 1 is proposed for 2012	2009-2012
22	Institute a citywide Recycle Bank Rewards Program, which creates incentives for proper recycling by residents to reduce contamination.	Qualitative only	City Program	Proposed	2011
23	Support the development and implementation of model recycling lease language for residential and commercial building managers.	Qualitative only	Partnership		
24	Reduce solid waste generated from public events.	Qualitative only	City Program / Community Outreach & Education	Proposed	TBD
25	Continue to provide and expand public recycling containers along commercial corridors and public right-of-ways where funding is available.	Qualitative only	City Program	Ongoing	Ongoing
26	Institute a a sidewalk grinding option for sidewalk maintenance.	Qualitative only	City Program	Ongoing	2010

**Preliminary Greenhouse Gas Reduction Measures
Waste Reduction and Recycling**

	H	I	J	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
27	CAP Reduction Measure WRR-4: Greenwaste and Composting				
28	Continue to divert landscape waste to area wood grinding facilities.	Qualitative only	Partnership	Ongoing	Ongoing
29	Support efforts to divert food waste into composting processes.	Qualitative only	Partnership	Pilot	2010
30	Promote home composting and vermiculture	Qualitative only	Community Outreach & Education	Ongoing	Ongoing
31	Explore options and opportunities to expand the Containerized Yard Waste Program to include household food waste and related organic material.	Qualitative only	City Program	Proposed	2011
32	Support efforts by Sacramento County, the Solid Waste Authority, and others to divert organic waste (greenwaste, paper waste, wood waste, agricultural waste, etc.) from landfills and process it to produce garden mulch, soil amendments and/or to generate renewable energy.	Qualitative only	Partnership	Varies	Varies
33	Support efforts to resell surplus materials from construction and home renovations.	Qualitative only	Partnership	Proposed	TBD
34	CAP Reduction Measure WRR-4: Waste Reduction and Recycling Outreach				
35	Continue to implement and expand educational programs and media campaigns to promote and educate the public about the 3R's (i.e., reduce, reuse, recycle) and the benefits of resource conservation, recycling, composting, and responsible purchasing.	Qualitative only	Community Outreach & Education	Ongoing	Ongoing
36	Develop and implement residential and commercial waste audit programs that educate residents and businesses on what materials can and cannot be recycled and when and where to recycle.	Qualitative only	Community Outreach & Education	Proposed	TBD
37	Increase participation in the Containerized Yard Waste Program	Qualitative only	Community Outreach & Education	In Progress	2011

**Preliminary Greenhouse Gas Reduction Measures
Water and Wastewater**

	J	K	L	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2					
3	Reduce water use 20% by 2020.	17,267	City Programs	Underway	2010
4	Continue to retrofit existing commercial developments and residential units with water meters.	Qualitative only	City Programs	Underway	2005
5	Continue to require that water meters be installed in all new commercial and residential developments.	Qualitative only	City Programs	Underway	
6	Continue to install new AMI technology to monitor customer water use, enhance water conservation measures, and identify leaks.	Qualitative only	City Programs	Underway	2009
7	Develop a web-based monitoring tool that informs customers about their water consumption and costs.	Qualitative only	City Programs	Planned	TBD
8	Continue providing an Information Packet with each water meter installation.	Qualitative only	City Programs	Planned	2009
9	In coordination with the AMI and water meter installations the City will hire a consultant to develop a water pricing structure to encourage efficient water use.	Qualitative only	City Programs	Planned	FY 2012/2013
10	Implement CALGreen Tier 1 standards as mandatory indoor and outdoor standards for new development.	Qualitative only	CALGreen Tier 1	Planned	2012
11	Establish and/or develop criteria and standards that require separate water meters for nonresidential buildings' indoor and outdoor water use.	Qualitative only	City Program	Planned	2011
12	Continue implementing the Outdoor Water Conservation Ordinance, which places limitations on outdoor water use and establishes mandatory restrictions and penalties for violations .	Qualitative only	City Program	Underway	Adopted May 12, 2009
13	Develop and implement education and training programs and workshops related to water efficient landscapes.	Qualitative only	Partnership / Community Outreach and Education	Underway	Adopted May 12, 2010
14	Expand the Water Wise House Calls program and coordinate / leverage with other programs.	Qualitative only	Community Outreach and Education	Underway	~1997

**Preliminary Greenhouse Gas Reduction Measures
Water and Wastewater**

	J	K	L	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2					
15	Continue administering Top Water User Surveys, to the top 25 commercial indoor water users .	Qualitative only	City Program	Underway	2010
16	Continue administering High Water Users Surveys to homeowners associations (HOAs) and elder care facilities with high water use.	Qualitative only	City Program	Underway	2010
17	Continue administering the Residential Assistance Ambassadors Program that trains volunteers to provide door-to-door residential assistance (surveys) to targeted areas of the city.	Qualitative only	Community Outreach and Education	Underway	2010
18	Maintain and promote the Water Wise Demonstration Garden at the Glen Ellen water conservation office and use as a venue for workshops and events.	Qualitative only	Community Outreach and Education	Underway	2010
19	Promote the use of natives and adapted plants; sustainable landscape design and maintenance to conserve water and energy, and avoid sending yard waste to land fills ("River Friendly Landscaping & RWA's Blue Thumb Campaign).	Qualitative only	Community Outreach and Education / Partnerships	Underway	
20	Continue to offer the Water Conservation Rebate Program	Qualitative only	Financing & Incentives	Underway	Prior to 2005
21	Convene the Water Conservation Advisory Group (SWCAG) to serve in an advisory capacity to the City regarding water conservation planning.	Qualitative only	Community Outreach and Education	Underway	2011
22	Develop, adopt and implement a Water Conservation Plan to implement the best management practices (BMP) listed in the California Urban Water Conservation Council MOU.	Qualitative only	City Programs	Underway	Interim Plan revised in 2010, update TBD.
23	Revise Urban Water Management Plan	Qualitative only	City Program	Underway	2011
24	Develop an Urban Drought Program (as a part of the Urban Water Management Plan)	Qualitative only	City Program	Update Underway	2011

**Preliminary Greenhouse Gas Reduction Measures
Water and Wastewater**

	J	K	L	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2					
25	Develop and implement a Conjunctive Use Program.	Qualitative only	City Program	Planned	2013-2015
26	Develop an automated operating system for the distribution for the purposes of increasing efficiency/reducing energy	Qualitative only	City Program	Planned	2012-2015
27	Require water efficiency upgrades as a condition of issuing permits for renovations or additions of existing buildings that involve plumbing fixtures.	Qualitative only	RECO/CECO/RHIP (Existing Buildings)	Planned	2012
28	Water-efficient construction/ renovation checklists for developers and contractors	Qualitative only	CALGreen (New Buildings)	Planned	2012
29	Rebate program for installation of gray-water systems in new and existing development	Qualitative only	Financing & Incentives	Planned	2012
30	Encourage greywater systems	Qualitative only	CALGreen Tier 1 Elective	Planned	2012
31	As a part of the Water Supply Master Plan explore the economic costs and benefits associated with recycled water, and identify areas appropriate for additional piping infrastructure.	Qualitative only	City Program	Planned	2011
32	Continue public education programs such as demonstration gardens and rebate programs, to promote landscape water conservation efforts.	Qualitative only	City Program	Underway	1995
33	Establish landscape maintenance districts along streets for water conservation purposes.	Qualitative only	City Program	Planned	?
34	Develop a water conservation program to piggy-back with the Rental Housing Inspection Program (as Water Conservation Office is currently coordinating with SMUD energy audits.	Qualitative only	RECO/CECO/RHIP (Existing Buildings)	Planned	TBD, same as RHIP energy efficiency program if adopted.

**Preliminary Greenhouse Gas Reduction Measures
Water and Wastewater**

	J	K	L	N	O
1	CAP Implementing Actions	Greenhouse Gas Reduction	Implementation	Status	Initiation
2					
35	Update and enforce existing Residential Energy Conservation Ordinance (RECO) to address water efficiency improvements, including plumbing, landscaping, and irrigation.	Qualitative only	RECO/CECO/RHIP (Existing Buildings)	Planned	TBD
36	Develop and adopt clear regional Low Impact Development (LID) standards, policies and update codes and ordinances to require LID to reduce stormwater runoff and landscape water demands.	Qualitative only	Green Development Code (Zoning, Subdivision, etc.)	Underway (RFQ issued)	Prior to 2020
37	Implement CALGreen measures for stormwater design and management as a part of Tier 1	Qualitative only	CALGreen (New Buildings)	Residential Planned, Nonresidential as CALGreen Elective	2012
38	Support a regional effort to evaluate methane emissions and potential capture possibilities at SRCSD's Primary and Secondary Clarifiers.	Qualitative only	Partnership	Planned by SCRSD	
39	Support efforts to implement waste-to-energy projects at 50% of wastewater treatment plants that service the Sacramento Region by 2020 to utilize methane/digester gas generated onsite.	Qualitative only	Partnership	Planned by SCRSD	
40	Support efforts to explore the potential for Biodiesel (super-algae) production at SRWTP	Qualitative only	Partnership	Planned	
41	Align the impact fee structure for sewer, water, parks, and other services, with the performance of new development/new buildings.	Qualitative only	Green Development Code (Zoning, Subdivision, etc.)	Planned	



City Planning Commission Meeting Notes

Topic: Climate Action Plan (CAP)

Date: July 14, 2011

Commissioner's Comments:

Regarding the preliminary draft greenhouse gas measures, the Residential Energy Conservation Ordinance (RECO) was the main point of discussion. Specific comments from Commissioners included:

- Concerns about costs to homeowners (is there a way to help fund?)
- Concerns about burden to real estate industry (Point of Sale, especially in quick sale situation)
- Concerned about implementation and regulatory costs.
- Suggestion that we could use a phasing approach, rather than point of sale, perhaps delaying requirements for 1st time homeowners; or perhaps tying implementation to the economy or housing market.
- Could problematic retrofits be exempted?
- Referrals to Low-Income Weatherization Program
- Several Commissioners noted that there were potential benefits, such as job creation, and that we should keep "everything on the table" until a full analysis of benefits has been completed.
- There was a comment to be sure and address vulnerable populations in section on Adaptation.

There were no concerns related to proposed CALGreen Tier 1 requirements for new development.

Other jurisdictions in the region should do their fair share.

Public Comments:

Eric Rasmusson, certified lobbyist for the Association of Realtors, regarding the RECO concept:

- Association would like to contribute information to the process
- Collaborative effort to develop voluntary measures would have more impact, and that programs like SMUD's HPP are the answer.
- Association has set up a fund for HERS testing.
- Problem with point of sale is that once City has a requirement, the banks get involved and slow things down.