

Please review  
these general  
plan provisions  
for inclusion in  
the Conservation/  
Open Space Element

5-29-19

Tom Infusino

CPC

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For the Conservation  
Element, Please consider  
the mitigation proposals  
on pages 2-126 to 2-129  
of the FEIS, and  
in the Letter from  
Shute mirholy ~~to~~ earlier  
this week, regarding  
Greenhouse Gas Emissions.

Letter 11  
Cont'd

Section 4.3 Greenhouse Gas Emissions

11-71

These existing provisions of the General Plan Update do not qualify as mitigation measures. COS 4.4 calls for the future adoption of a GHG reduction strategy without specifying a list of feasible mitigation measures, and without a commitment to achieve an objective standard. This does not meet the standards for deferred mitigation. (*Cleveland National Forest Foundation v. San Diego Association of Governments* (2017) 17 Cal.App.5th 413, 443 [Lead agency cannot defer mitigation without committing to meet performance standards]; *California Clean Energy Committee v. City of Woodland* (2014) 225 Cal.App.4th 173, 195-196 [A promise to complete a future study after project approval, without identifying any specific mitigation measures, or providing mitigation standards, is inadequate mitigation]; *Communities for a better Environment v City of Richmond* (2010) 184 Cal.App.4th 70, 92-93 [A greenhouse gas mitigation plan violates CEQA when it includes a generalize mitigation goal, vaguely described mitigation measures, unquantified emission reduction estimates, and no objective criteria for measuring the success of the mitigation]; *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1118-1119 [A lead agency cannot defer selecting mitigation measures without first identifying feasible mitigation measures].)

Given that the County has dragged its feet, and failed to make a serious effort to contribute to greenhouse gas reduction over the last decade, there is no more time to waste. Adopt some basic GHG reduction efforts WITH the general plan, before the development and its impacts occur. (*Communities for a better Environment v City of Richmond* (2010) 184 Cal.App.4th 70, 95 [The time to formulate mitigation measures is during the EIR process, before final project approval]; *POET, LLC v. State Air Resources Board* (2013) 218 Cal.App.4th 681, 736-740 [Mitigation cannot be deferred past the start of project activity that causes the adverse environmental impact].)

COS 4.5, 4.6, 4.7, and 4.8 all begin with the non-mandatory verb "Encourage", which does not commit the County to do anything that will result in any level of GHG emission reduction with any certainty. This is not mitigation. (CEQA Guidelines, sec. 15126.4, subd. (a) (2).)

In the Final EIR, please modify COS 4.4 to 4.8 so that they qualify as mitigation measures.

4.3.4 IMPACTS AND MITIGATION MEASURES

In the Draft General Plan, the Implementation Measures for the policies provide little direction for implementation.

11-72

Mitigation for greenhouse gas emission must be timely set forth, with complete and relevant information, in an accountable arena. (*Communities for a better Environment v City of Richmond* (2010) 184 Cal.App.4th 70, 96.) The final selection of specific mitigation measures may be deferred when the lead agency has evaluated the impact, identified feasible mitigation measures, and has committed to mitigating those impacts. (*City of Maywood v. Los Angeles Unified School District* (2012) 208 Cal.App.4th 362, 412) Mitigation deferral requires not merely a generalized

4.3-5

Letter 11  
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Section 4.3 Greenhouse Gas Emissions

goal, but "objective performance criteria for measuring whether the mitigation goal will be achieved." (*POET, LLC v. State Air Resources Board* (2013) 218 Cal.App.4th 681, 736-740.)

At a minimum, the implementation measures should include a timeline, suggested mitigation method(s), quantitative reduction estimates, interim steps, reporting requirements, a commitment to achieve objective performance criteria, and responsible officials or offices. The measures do indicate the responsible entities, but other specifics are lacking.

For example, to implement policy 4.4:

COS-5B reads: Undertake a greenhouse gas (GHG) emissions inventory to establish baseline levels of GHGs generated from all major emissions sources in the County consistent with the requirements of Assembly Bill 32 (California Global Warming Solutions Act of 2006).

The Air Pollution Control District and Planning Department are identified as the responsible entities

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We suggest: The Calaveras County Air Pollution Control Board shall undertake a greenhouse gas emissions inventory for the County, using evaluation tools provided by the Air Resources Board via its Local Government Toolbox (ARB website). The inventory shall commence no later than January, 2019, and be completed no later than December, 2019. The CCAPCB shall make an interim report to the Board of Supervisors and the public six months after commencing the project, and a final report at its conclusion. The inventory will be kept updated and reported out every six months. Since the DEIR is written anticipating buildout, the baseline shall be expressed in per capita data; that will be the only way to evaluate that the Emissions Reduction Plan (COS-5C) is being effective.

As to IM-COS 5C, the same criteria for specificity would apply. The DEIR can propose specific strategies and actions that might be considered as part of the Emissions Reduction Plan. For example, the DEIR lists a variety of measures that the CCAPCD already uses to mitigate for other gasses and pollutants (p. 4.3-24). Many of these would help to mitigate GHGs: alternatives to open burning, traffic controls during construction, limits on wood-burning appliances, application of Tier 1 emission standards for vehicles. Given projected buildout, the County could greatly moderate emissions by adopting CAIGreen Code Tier 1 or Tier 2 provisions in its building codes (4.3-22).

The Policies and Implementation Measures could also be organized under the categories mentioned in the Background and Setting: land use, transportation, and housing/building.

11-73

For example, under land use:

Policy: The County shall encourage the development of businesses that rely on environmentally sustainable products and services, such as renewable energy, green building, water conservation, and waste management and recycling.

4.3-6

Letter 11  
Cont'd

Section 4.3 Greenhouse Gas Emissions

Implementations: Within one year of the adoption of this General Plan, the County shall establish and publish standards of environmental sustainability in each of these areas.

The County shall fast-track planning approvals for businesses that meet or exceed these standards.

Note: the DEIR proposes adding this policy to the General Plan:

COS 4.10: Should proposed developments within the County be anticipated to result in potential impacts related to the emission of criteria air pollutants, the County shall consider imposing mitigation measures provided in the CCAPCD's Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects.

No implementation measure is proposed.

Recommend this instead: The County shall evaluate proposed developments to determine whether they will emit criteria air pollutants, including GHGs, to a degree exceeding standards the County will publish within six months of the General Plan's adoption.

Implementation: The County will impose upon developments exceeding those standards mitigation measures provided in the CCAPCD's Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects.

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For example, under transportation:

Policy: The County shall encourage efforts to reduce emissions from vehicle use.

Implementations: The County shall purchase lower-emission and/or electric vehicles when replacing fleet vehicles.

Within six months of the adoption of the general Plan the County will set standards for inclusion of bicycle and pedestrian routes in all proposed developments.

Note: The DEIR proposes adding this policy to the General Plan:

COS 4.9: The County shall continue to support emissions reductions programs such as the Carl Moyer Program, and find methods of incentivizing the replacement or retrofit of small emissions sources throughout the County, such as the replacement of existing wood stoves with EPA Phase II certified appliances, and the installation of new replacement engines or technologies to reduce emissions from off-road and on-road engines within the County.

There are no Implementation Measures proposed for this policy.

Two possible measures:

The County shall set numerical yearly goals for participation of residents in the Carl Moyer Program.

4.3-7

Letter 11  
Cont'd

Section 4.3 Greenhouse Gas Emissions

Within a year of the adoption of the General Plan, the Planning Department will prepare a public report on methods of incentivizing the replacements and retrofits and sources of funding to underwrite them.

For example, under housing/building:

Policy: The County shall encourage new development to incorporate green building practices.

Implementations: The County shall ensure that all new or renovated County-owned buildings are energy-efficient and meet, at a minimum, LEED Silver or equivalent standard.

The County shall incorporate into its building codes, over five years from the date of adoption of this General Plan, requirements bringing new buildings up to CalGreen Tier 1 standards.

The ARB website lists a wide variety of funding sources and opportunities to assist localities to implement GHG programs.

**ALTERNATIVES**

In terms of greenhouse gas emissions, the order of preference of alternatives is clear.

The No Project Alternative with full buildout would yield the most greenhouse gas emissions because the buildout would not be concentrated and therefore involve more vehicle traffic, which is a major source of emissions. Plus the 1996 Plan does not include green building provisions.

The Rural Character Protection Alternative, by concentrating development, would result in fewer GHG emissions than the No Project Alternative.

The Department of Finance Alternative is most preferable, because project buildout would be less than half of what is projected in the other alternatives. The numbers would allow the County to make thoughtful decisions about growth, and therefore about the quality of the environment and of the life of its residents.

11-73  
Cont'd

11-74

**B. There Are More Effective Mitigation Measures Available.**

The FEIR fails to adopt the most effective mitigation measures available. The FEIR proposes adding the following new policy to the Draft General Plan to mitigate the significant air quality impacts:

Policy COS 4.10 Should proposed developments within the County be anticipated to result in significant impacts related to the emission of criteria air pollutants, the County shall require the mitigation measures provided in the CCAPCD's Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects to the extent feasible.

DEIR at 4.3-34 to 35. However, a closer review of the CCAPCD's Guidelines reveals that many are outdated and could be strengthened. This measure should be updated as follows:

Policy COS 4.10 Should proposed developments within the County be anticipated to result in significant impacts related to the emission of criteria air pollutants, the County shall require the mitigation measures provided in the CCAPCD's Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects to the extent feasible except to the extent that more stringent and effective measures, detailed below, are applicable.

We suggest the following additions to the mitigation.

First, one of CCAPCD's standard mitigation measures states: "There shall be a limit of one wood-burning appliance per residence, and it shall be an EPA Phase II certified appliance. Also, each new residence shall be equipped with a non-wood-burning source of heat." DEIR at 4.3-24. We recommend the following changes to this measure: "There shall be a limit of one wood-burning appliance per residence, and it shall be an EPA Phase II certified appliance meet the EPA's 2020 particulate matter emission standards for certified wood heaters. This measure shall be updated periodically to

account for changes in EPA's standards. Also, each new residence shall be equipped with a non-wood-burning source of heat."<sup>2</sup>

Another standard mitigation measure states: "All self-propelled off-road diesel-powered equipment and vehicles greater than 25 brake horsepower (bhp) shall be equipped with an engine meeting at least Tier 1 emission standards (typically manufactured 1996 or later)." DEIR at 4.3-24. Tier 1 emission standards are extremely outdated and changes in engine technology have greatly reduced emissions from off-road diesel-powered equipment and vehicles. This measure should be revised and included in the FEIR to read: "All self-propelled off-road diesel-powered equipment and vehicles greater than 25 brake horsepower (bhp) shall be equipped with an engine meeting at least ~~Tier 1~~ Tier 4 emission standards (typically manufactured ~~1996~~ 2004 or later)." ~~Tier 4~~ emissions standards were implemented in 2004 and greatly reduce PM and NOx emissions compared to the outdated Tier 1 engines."<sup>3</sup>

**C. Building Electrification Presents a Unique Opportunity to Mitigate Air Quality Impacts, as well as Climate Change and Energy Impacts.**

Gas appliances in buildings make up a quarter of California's nitrogen oxide (NOx) emissions from natural gas. NOx is a precursor to ozone and a key pollutant to curb in order to comply with state and federal ambient air quality standards. Electrifying buildings will help the County to reduce NOx and ground level ozone, improving *outdoor* air quality and benefiting public health. Electrification of fossil fuel appliances will also immediately improve *indoor* air quality and health.

The County should adopt mitigation ~~requiring new construction to fully~~ electrify or to otherwise use alternatives to natural gas, such as on-site renewable energy. This would mitigate both air quality impacts, as well as energy and climate change impacts. "Electrification of space and water heating presents a viable pathway to deep decarbonization, already reduces carbon . . . , can support renewable energy integration

<sup>2</sup> See EPA Certified Wood Heater List, accessed at <https://www.epa.gov/compliance/list-epa-certified-wood-stoves> (general URL), <https://www.epa.gov/compliance/list-epa-certified-wood-stoves> (specific URL), and attached to this letter.

<sup>3</sup> See Final Rule for Control of Emissions of Air Pollution from Nonroad Diesel Engines and Fuel, 69 Fed. Reg. 38958 et. seq., <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-emissions-air-pollution-nonroad-diesel>.



For the Conservation  
Element please  
consider the mitigation  
measures and policies  
on pages 22-3 and  
22-4 of our scoping  
comments.

increases into the overall GHG inventory for the County (which will be updated regularly since there will be interim steps).

### III. Impact Mitigation and Compliance with AB 32 & SB 32

As with other general plan impacts, meeting CEQA mitigation requirements and meeting other planning requirements go hand in hand. Mitigation for greenhouse gas emissions from future development should be integrated with general plan programs to implement AB 32 and SB 32. So to address GHG emissions, the goal for the Calaveras County General Plan would be a 15% reduction from current levels as determined by the inventory (COS-5B), with a date set for that goal if, as is likely, it cannot realistically be achieved by 2020. An added goal in the Plan, given SB32, would be a 40% reduction from the 15% level by 2030, again with a timeline of interim steps and defined personnel accountability.

Traffic is a major producer of GHGs. This is a challenge for a rural county in which people have to cover long distances in their vehicles. But a specific State goal is the reduction of vehicle miles traveled.

“While [in the] County LOS [Level of Service] has been used as a measure of impact analysis, recent state legislation (SB 743, codified as PRC §21099) now mandates that environmental impact analysis utilize a different metric: Vehicle Miles Travelled (VMT). The County will utilize VMT with California Environmental Quality Act (CEQA) analysis when new guidelines are adopted.” (GPU, pp.C-1-2)

Use of the VMT guidelines together with the requirement to factor the GHG implications of any new development provide added incentive for the County to encourage infill and community-centered development, and energy-saving building methods.

Buildings and the built environment are another major source of GHG emissions and another realm in which emissions can be reduced. The Land Use Element of the General Plan Update identifies as two Implementations:

LU 5.9 Encourage and facilitate the renovation and reuse of underutilized and vacant parcels, industrial sites, buildings, and retail centers. (IP LU-2D and LU-5G)

LU 4.1 New development shall be designed to be compatible with the natural, scenic, and historic resources of Calaveras County. (IM LU-4A, LU-4C and LU-4F)

The Air Resources Board (AB32 scoping plan update, Appendix B: Local Action) provides many measures for new building and upgrades. We recommend the following be included in the GP Update to **mitigate** for GHGs:

Adopt local ordinances to require energy-efficiency upgrades for existing buildings at the time of a major remodel or change of ownership

Reduce permit fees and streamline permitting requirements for energy-efficiency- and renewable energy-related building renovations

Implement building energy audit and retrofit programs and residential solar programs

Incentivize energy-efficiency upgrades to existing buildings, where appropriate, upon issuing a permit for substantial modification

Require that air conditioning and refrigeration units in new construction (and at major renovation) rely on refrigerants with low global warming potential (e.g., they use CO<sub>2</sub> or ammonia instead of hydrofluorocarbons)

And this recommendation, from The First Update to the AB32 Scoping Plan, Appendix D: Local and Regional Efforts to Implement Climate Protection Strategies, Feb. 10, 2014:

When determined to be feasible and achievable within the local jurisdiction, adopt "Tier 2" residential and commercial green building standards of the 2016 California Green Building Standards (CALGreen Code), or a third party green building certification such as the LEED or GreenPoint rating systems

And as with all implementation measures, include timelines, interim steps, and accountable personnel/agency/position information.

For the Open Space  
Element please consider  
the mitigation measures  
on page 25-2  
of our scoping  
comments.

People move here and also retire here because of the beauty of the area and the high level of outdoor recreation options that are available. With the increase in population and the increase in families with children, who are choosing to relocate to Calaveras County, different and expanded recreation facilities need to be planned for. Right now the softball leagues and soccer leagues facilities, for youth and adults, are maxed out and teams regularly have to travel great distances due to that lack of facilities. Skate park facilities have been high on the wish list for a lot of kids, for years, in the Valley Springs community. The recent addition of Disc Golf at some sites throughout the county has been very well received.

Cycling enthusiasts have exhibited a growing interest in enjoying their sport in our county. They should be accommodated and welcomed as an economic asset for the county.

One resident has mapped most of the existing trails contained in Calaveras County, and there are many. (See attached.) The Coast to Crest Trail has a section traversing Calaveras County. This segment is still under construction. The Coast to Crest also accommodates equestrian activity.

There are several large reservoirs where families can fish and enjoy boating, sailing and other water sports in addition to camping.

The recreation setting discussion EIR should include an inventory of existing recreational spaces and facilities, and an analysis of the current recreational demands of residents and tourists.

## **II. Impact Analysis**

In addition to the growing recreation demands of the tourism sector of the economy, the EIR should assess future recreation demand based on population, demographic, and development trends.

## **III. Impact Mitigation**

- 1) Including existing and planned open space for recreation on the land use map can help coordinate future development with anticipated recreational needs.
- 2) Plan recreational facilities equitably and with accessibility considerations, to ensure underserved communities are included.
- 3) The mitigation should include a diverse list of possible funding sources (federal, state, regional, local, private foundations, etc.). (CEQA Guidelines, sec. 15131, subd. (c).)

For the Conservation  
And Open Space  
Element, Please consider  
the mitigation  
measures on page  
COSC-9 to COSC-10 of  
our comments on  
the 2014 Draft Plan.

Second, strategies and plans for reducing greenhouse gas emissions are already well known and being done in communities across the country and across the world. We know which ones will be needed here in our county: reduce vehicle miles traveled; reduce energy uses through conservation, retrofitting, and new renewable sources; adopt standards for new building and community design. Why are we not putting such policies in the General Plan?

Other Implementation Programs tied to climate change:

**CIR-1.B: (Note: the draft actually has two CIR-1Bs)** When preparing capital improvement plans and reviewing development proposals, the County shall favorably consider projects which minimize greenhouse gas impacts and are appropriate to the rural nature of Calaveras County, including , but not limited to, transit programs, ridesharing programs, bicycle and pedestrian improvements, and maintenance of existing roadways to reduce vehicle emissions.

What might "favorable" consideration look like? Might the County consider requiring some of these programs, especially for large new developments?

**CIR-5.A** Adopt a bicycle and pedestrian master plan and implement the priority projects in those documents as funding allows. The County shall utilize all available federal, state, and local funding for construction of non-motorized transportation facilities.

Who will create this plan and by when?

Specifically, here are some implementation programs that could be added in appropriate places in the General Plan:

- Under Land Use, Regional Planning and Coordination: Participate in the Sierra Climate Adaptation and Mitigation Partnership (a new program of the Sierra Business Council).

From the Draft Energy Element:

- The County shall monitor opportunities for using outside financial assistance to fund energy planning and climate action planning. The County shall monitor opportunities from Federal, State, utility, nonprofit, and private resources.
- The County shall project future energy needs based on population growth projected in General Plan build out in order to plan for the potential of renewable energy to contribute to those future needs.
- The County shall support the education and training of agency staff (planners, building inspectors, plan checkers) to ensure their knowledge of current California Energy

Efficiency Standards and the CALGreen Code to facilitate approval and inspection processes.

- The County shall provide an annual report to the Board of Supervisors on the status of implementing and enforcing the California Energy Efficiency Standards. The report will include a set of performance measures for tracking compliance with the standards.
- The County shall identify and remove, or otherwise address, any regulatory or procedural barriers to implementing green building practices within its jurisdictions, such as updating codes, guidelines, and zoning.
- The County shall work with stakeholders (architects, engineers, builders, property owners and community groups) who implement the CALGreen Code to ensure that the review and implementation process is working as intended.
- The County shall require that all future construction of new or renovated County facilities shall incorporate energy efficiency measures deemed to be cost-effective within the projected life of the facility.
- The County shall develop protocols to ensure that the operation and maintenance of all existing County facilities include energy efficient practices whenever practical.
- The County shall examine the potential for renewable energy use in County-owned facilities and incorporate that use during new construction and major renovations if found to be cost-effective within the projected life of the facility.

From the Draft Water Element:

- The County shall adopt policies and programs, and support efforts by local agencies to mitigate greenhouse gas emissions resulting from energy consumption related to water use to comply with state and federal law.
- The County shall support efforts by local, regional, state, and federal agencies and others to develop policies and manage programs that allow the County to adapt to climate change effects such as prolonged drought, flooding, wildfires, and other events.
- The County shall encourage water and wastewater agencies to investigate opportunities for revenue generation from green technologies, greenhouse gas mitigation strategies, and other climate change mitigation strategies.
- The County shall encourage forest, woodland, and grassland management practices that maximize carbon sequestration and minimize greenhouse gas emissions from soil, equipment, and harvest techniques.

#### **E) Endnotes**

Truthfully, we are out of gas and energy for further comments at this time. There are many more policies and implementation programs we would like to see. There are many other county General Plans we could draw examples from.



In the Conservation  
And open space Element  
Please consider from  
the Draft Energy Element  
EE1.2, Implementation  
EE1-iv, P.E5-1,  
Implementation EES-ii,  
EE1.5, EE1-i, EE1-x  
EE-2.1, EE-2-ii, EE-2-ib,  
EE-2-v, EE-2-vii

EE3.2, EE-3-v,  
EE-3-vii, EE3-x  
EE4.4.

Policy 7.5 Runoff Quality  
Policy 7.6 Natural Drainage Systems  
Policy 7.8 Flood Zone Compliance

The next policies go directly to the requirement in the MAC IRWMP that water planning and land use planning authorities cooperate and collaborate. Unless CCWD can demonstrate such cooperation and collaboration, it will not be eligible for the state funding it seeks to construct and maintain its infrastructure.

Implementation Program 3  
Policy 8.1 Water and Wastewater Infrastructure  
Policy 8.3 Funding Sources  
Implementation Program 20

The next policies deal with recreation and open space issues commonly associated with general plans.

New Program: Golf Course Irrigation with reclaimed water.  
New Program: Support for Wild & Scenic Designation for the Mokelumne River.  
Policy 10.2 Public Access in New Development

The last policy deals with fire safety; a key general plan concern.

Policy 4.4 Wildfire Risk Reduction

That very painful editing exercise just reduced 20 pages of Draft Water Element down to 25 policies and implementation measures. We hope that the Planning Department will show its appreciation for this sacrifice by recommending these policies and implementation measures for inclusion in the GPU text.

**B) Draft Energy Element policies for inclusion in the GPU text.**

We have included a copy of the Draft Energy Element as an attachment to these comments. (See Attachment 8.) We recommend the following policies for inclusion in the GPU text.

The first policies go directly to the County's project review, project conditioning, and project approval functions. If the County does not take on these responsibilities, there is no other agency with jurisdiction to do so.

EE-1.2 Energy Supply  
Implementation Program EE-1-iv  
EE-5-1 Renewable Energy Resources  
Implementation Program EE-5-ii

The second policy deals with greenhouse gas reduction efforts. As noted in our previous comments, the State of California has sued other Counties that failed to include some general plan policies to address global climate change mitigation and adaptation. The County should adopt such policies.

#### EE-1.5 Greenhouse Gas Reduction Efforts

Implementation Program EE-1-i

Implementation Program EE-1-x

The third policy and its implementation programs address County's code compliance efforts.

#### EE-2.1 Code Compliance

Implementation Program EE-2-i

Implementation Program EE-2-ii

Implementation Program EE-2-v

Implementation Program EE-2-vii

The fourth policy and its implementation programs directly address the County's management of its own facilities.

#### EE-3.2 Municipal Standards

Implementation Program EE-3-v

Implementation Program EE-3-vii

Implementation Program EE-3-x

The final policy deals with a Circulation Element issue.

#### EE-4.4 Vehicle Miles Traveled

That very painful editing exercise just reduced 11 pages of Draft Energy Element down to 17 policies and implementation measures. We hope that the Planning Department will show its appreciation for this sacrifice by recommending these policies and implementation measures for inclusion in the GPU text.

- Strategic Energy Planning
- Non-Residential Buildings
- Municipal Operations
- Energy Practices
- Renewable Energy

*(Note: See the Land Use, Transportation, Housing, and Water Elements for additional goals, policies, and programs related to energy efficiency and greenhouse gas reductions)*

## Strategic Energy Planning

Anticipating changes in future energy supply and costs is important to protecting the quality of life for county residents and prosperity of county businesses. The goal and policies in this section identify opportunities to reduce energy dependence, evaluate energy supplies, and reduce greenhouse gas emissions.

### Goal EE-1

To plan for a reliable energy future that meets the energy needs throughout (insert) County and promotes the social, economic, and environmental health of the region by increasing energy efficiency, encouraging renewable energy, and decreasing reliance on non-renewable energy sources. *(Source: New Goal, SBC)*

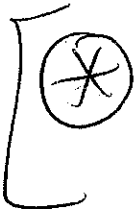
### Policies



EE-1.1

#### Strategic Energy Plan ☺

The County shall support opportunities to develop a countywide strategic energy plan to reduce energy consumption and provide for the increased development and use of renewable energy resources. *(Source: New Policy, SBC)*



EE-1.2

#### Energy Supply ☺

The County shall ensure through the development review process that energy supplies will be adequate to serve new development and shall promote energy efficiency and the use of renewable energy to meet that supply. *(Source: New Policy, SBC)*

EE-1.3

#### Energy Facilities ☺

The County shall provide for the thorough and expeditious evaluation of renewable energy facility proposals, including the siting and operation of such facilities in an environmentally sound manner. *(Source: New Policy, SBC)*

EE-1.4

#### Land Use and Transportation ☺

The County shall ensure a development pattern that use existing infrastructure; reduces the need for new roads, utilities and other

public infrastructure in new growth areas; and enhances non-automobile transportation. (Source: *New Policy, SBC*)

**EE-1.5****Greenhouse Gas Reduction Efforts** 🌍

The County shall support opportunities to develop plans to reduce or encourage reductions in greenhouse gas emissions from all sectors within the county. (Source: *New Policy, SBC*)

## Non-Residential Buildings

Structures, like automobiles and trucks, use energy. Ensuring that buildings are efficiently designed is important to helping reduce energy demands and costs. The goal and policies in this section identify ways to efficiently use electricity, through either conservation or design features, in non-residential buildings in the county. (Note: please see the *Housing Element* for additional policies related to energy efficiency for residential construction and rehabilitation.)

**Goal EE-2**

To maximize the efficient use of energy to the extent feasible in commercial and industrial buildings through their design, construction, operation and maintenance. (Source: *New Goal, SBC*)

**EE-2.1****Code Compliance**

The County shall encourage developers to exceed existing California energy efficiency standards for non-residential buildings, including the CalGreen code, Title 24, Part 6, and Title 24, Part 11. (Source: *New Policy, SBC*)

**EE-2.2****New Construction** 🌍

The County shall require all new projects to incorporate energy efficient siting, design, construction, landscaping and operation techniques. (Source: *New Policy, SBC*)

**EE-2.3****Existing Buildings** 🌍

The County shall promote retrofitting of existing buildings to increase their energy efficiency. (Source: *New Policy, SBC*)

**EE-2.4****Innovative and Efficient Building Practices** 🌍

The County shall encourage innovative and efficient building design, construction practices, programs, and standards in new development that reduce energy use, water consumption, and waste, and increase recycling opportunities. (Source: *New Policy, MH*)

**EE-2.5****Energy Efficiency Retrofits** 🌍

The County shall promote the retrofitting of existing private and public buildings with new and innovative energy and water efficiency technologies. (Source: *New Policy, MH*)

- EE-2.6 Energy Conservation Standards for New Construction** 🌐  
The County shall cooperate with the local building industry, utilities, and air district to promote enhanced energy conservation standards for new construction. *(Source: New Policy, MH)*

## Municipal Operations

The goal and policies in this section identify ways to reduce energy demands and costs in municipal buildings and operations.

### Goal EE-3

To maximize the efficient use of energy in community services, facilities and infrastructure. *(Source: New Goal, SBC)*

### Policies

- EE-3.1 Municipal Energy Plan** 🌐  
The County shall support opportunities to develop a comprehensive plan to reduce energy consumption in municipal operations. *(Source: New Policy, SBC)*
- EE-3.2 Municipal Standards** 🌐  
The County shall ensure that any newly constructed, renovated, purchased, or leased municipal space shall meet County established minimum levels of energy efficiency and green building standards. *(Source: New Policy, SBC)*
- EE-3.3 Participation in Programs** 🌐  
The County shall support opportunities to participate in energy efficiency and renewable energy programs. *(Source: New Policy, SBC)*
- EE-3.4 Purchasing of Goods and Services** 🌐  
The County shall purchase sustainable and local products whenever practical. *(Source: New Policy, SBC)*
- EE-3.5 Western Area Power Administration Opportunities** 🌐  
The County shall encourage the Federal Energy Regulatory Commission (FERC) to promote energy efficiency strategy/plan as part of the relicensing process for the New Melones Dam. *(Source: New Policy, MH)*

## Energy Practices

The goal and policies in this section identify ways to reduce the consumption of energy (in particular electricity) in residential, commercial, and industrial operations.

### Goal EE-4

To reduce energy consumption through energy efficiency practices and operations in the residential, business, industrial, and resource production sectors. *(Source: New Goal, SBC)*

### Policies

#### EE-4.1 Participation in Programs

The County shall encourage businesses to participate in local, State, Federal, and utility energy efficiency programs. *(Source: New Policy, SBC)*

#### EE-4.2 Education 🌐

The County shall promote and support programs to educate and inform residents and businesses on practical ways to use energy more efficiency and on ways to reduce peak demand energy use. *(Source: New Policy, SBC)*

#### EE-4.3 Transportation 🌐

The County shall require new development projects generating [ $>XX$  number] employees to provide facilities and programs to reduce the need for single occupant vehicular travel, such as ride sharing, van pools, bicycle facilities and telecommuting. *(Source: New Policy, SBC)* *(Note to staff: Is this included in the draft Circulation Element?)*

#### EE-4.4 Vehicle Miles Traveled 🌐

The County shall promote programs and infrastructure that reduce vehicle miles traveled per capita. *(Source: New Policy, SBC)* *(Note to staff: Is this included in the draft Circulation Element?)*

#### EE-4.5 Purchasing of Goods and Services 🌐

The County shall encourage and promote the concept of buying locally-produced goods and services. *(Source: New Policy, SBC)*

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## Renewable Energy

The goal and policies in this section identify ways to promote the construction of renewable energy facilities (e.g., hydroelectric, wind, solar) in the county.

### Goal EE-5

To promote and facilitate the development of renewable energy resources for direct application and power generation. *(Source: New Goal, SBC)*

### Policies

EE-5.1

#### Renewable Energy Resources ☼

The County will encourage the use of renewable energy in new and existing development. *(Source: New Policy, SBC)*

EE-5.2

#### Solar ☼

The County shall require that subdivision design, building sites, buildings and landscaping in new development are configured and designed to maximize solar access and optimize natural heating and cooling opportunities to the extent feasible. *(Source: New Policy, SBC)*

EE-5.3

#### Biomass ☼

The County shall encourage the construction and installation of economically sustainable and environmentally appropriate biomass energy facilities. *(Source: New Policy, SBC)*



## Implementation Programs

*Note to staff: The programs for this element do not follow the organization of the other elements. Lets discuss.*

### Implementation Programs for Goal EE-1

- i. The County shall monitor opportunities for using outside financial assistance to fund energy planning and climate action planning. The County shall monitor opportunities from Federal, State, utility, nonprofit and private resources. [1.1, 1.5, 3.1]
- ii. The County shall investigate with neighboring jurisdictions and agencies establishing a regional energy office to share the cost of maintaining staff that can search out funding and technical assistance programs and help members plan for and implement energy efficiency and renewable energy projects. [1.1, 1.5, 3.1, 3.3, 3.5, 4.1, 4.2, 5.1]
- iii. The County shall, when funding allows, develop a countywide Strategic Energy Plan to reduce energy consumption and provide for the increased development and use of renewable energy in the building, business, government, transportation, water, waste management, industrial, and resource production sectors. The Plan shall set specific targets and be actively implemented through Specific Plans, Community Plans, Master Plans, Development Agreements and permitting processes and through collaboration with utilities, government agencies, nonprofit organizations and private enterprise. [1.1]
- iv. The County shall project future energy needs based on population growth projected in General Plan build out in order to plan for the potential of renewable energy to contribute to those future needs. [1.2]
- v. The County shall establish annual numeric targets, based on projected new development, for local production of renewable energy. [1.2]
- vi. The County shall consider the feasibility of requiring a percentage of new development to meet 50% of their energy needs from renewable energy. [1.2, 5.1, 5.2, 5.3]
- vii. The County shall identify methods to expand renewable energy in the county. Methods may include incentives such as expedited permit processing, reduced fees, and technical assistance. [1.2, 5.1, 5.2, 5.3]
- viii. The County shall establish guidelines and standards for development of renewable energy generation systems and facilities in the county. [1.3, 5.1, 5.2, 5.3]

ix. 1.3 The County shall develop policies to require that any new transmission facilities be sited so as to minimize interference with surrounding land-uses and in ways that minimize their visual impact. [1.3, 5.1, 5.2, 5.3]

x. The County shall, when funding allows, inventory countywide greenhouse gas emissions from all sectors and sources to establish a baseline year and develop a plan to reduce emissions in accord with statewide goals. [1.5]

### **Implementation Programs for Goal EE-2**

i. The County shall support the education and training of agency staff (such as planners, building inspectors and plan checkers) to ensure their knowledge of current California Energy Efficiency Standards and the CALGreen Code and to facilitate approval and inspection processes. [2.1]

ii. The County shall provide an annual report to the Board of Supervisors on the status of implementing and enforcing the California Energy Efficiency Standards. The report will include a set of performance measures for tracking compliance with the standards. [2.1]

iii. The County shall establish an advisory committee, including technical experts, the local construction industry and community groups to determine how local building practices could be revised to exceed existing minimum California Energy Efficiency Standards and to implement energy standards in the CALGreen Code. [2.1, 2.2, 2.3]

iv. The County shall sponsor training for the local construction industry which will offer technical advice on energy efficiency practices and green building techniques that will result in savings above current California Energy Efficiency Standards. [2.1, 2.2, 2.3]

v. The County shall identify and remove, or otherwise address, any regulatory or procedural barriers to implementing green building practices within its jurisdictions, such as updating codes, guidelines and zoning. [2.1, 2.2, 2.3]

vi. The County shall provide a program to publicly commend and acknowledge businesses or individuals that construct or remodel buildings that save more energy than required by the California Energy Efficiency Standards and/or implement the voluntary standards of the CALGreen Code. [2.1, 2.2, 2.3]

vii. The County shall work with stakeholders (architects, engineers, builders, property owners and community groups) who implement the CalGreen Code to ensure that the review and implementation process is working as intended. [2.1, 2.2, 2.1]

- viii. The County shall periodically access the implementation of the CALGreen Code (and subsequent State mandates) and revise the County programs to further promote green building practices through additional incentives such as priority processing, density bonuses and a waiver or reduction in application and development fees. [2.1, 2.2, 2.3](from Housing Element H6.3)
- ix. The County shall post, produce and distribute information regarding Title 24 (including CALGreen), green building, durable materials and designs, innovative building construction techniques and materials, land use and circulation patterns, water conservation and renewable energy opportunities. [2.1, 2.2, 2.3, 1.4, 5.1, 5.2, 5.3] (from Housing Element H6.1)
- x. The County shall consider amending the Municipal Code to require proposed, large-scale commercial, institutional and industrial development to undergo a comprehensive energy use evaluation to determine the feasibility of their exceeding California Energy Efficiency Standards and of implementing voluntary CALGreen standards. [2.1, 2.2]
- xi. The County shall consider including in Development Agreements commitments from developers to implement voluntary CALGreen standards which apply to energy efficiency and renewable energy. [2.1, 2.2, 5.2, 5.3]
- xii. The County shall consider amending the Municipal Code to require development projects in Climate Zone 12 to take advantage of shade, prevailing winds, landscaping, sun screens, cool roofs and cool pavements, where practical, to reduce energy use. 2.2, 5.2]
- xiii. The County shall consider amending the Municipal Code to require the use of Energy Star appliances and fixtures in discretionary new development. [2.2]
- xiv. The County shall consider amending the Municipal Code to require energy management and control devices in large scale development. [2.2]
- xv. The County shall work with local energy providers to promote use of financial incentives and technical assistance to encourage owners and occupants of existing commercial, institutional and industrial buildings to improve energy efficiency. [2.3]
- xvi. The County shall promote retro-commissioning of buildings where practical to ensure that all energy systems are functioning at their maximum efficiency. [2.3]

### Implementation Programs for Goal EE-3

- i. The County shall, when fiscally possible, prepare and implement a comprehensive program to reduce energy consumption of municipal operations including public buildings and facilities, street lighting, vehicle fleet management, and equipment procurement. The plan shall establish specific targets. [3.1, 1.5]
- ii. The County shall explore ways to designate one or more County employees to be responsible for energy conservation efforts and provide information annually on specific implementation programs and savings to the Board of Supervisors.[3.1]
- iii. The County shall include energy cost impacts in the evaluation of new County programs. [3.1, 3.4]
- iv. The County shall consider for County buildings and facilities establishing minimum levels of energy efficiency and green building standards which exceed State requirements in order to reduce County energy costs and to establish the County as a leader in energy efficiency and green building. [3.2]
- v. The County shall require that all future construction of new or renovated County facilities shall incorporate energy efficiency measures deemed to be cost-effective within the projected life of the facility. [3.2]
- vi. The County shall negotiate in new leases for County space in privately-owned building provisions that minimize the cost of energy to the County for occupying the space. [3.2]
- vii. The County shall develop protocols to ensure that the operation and maintenance of all existing County facilities include energy efficient practices wherever practical. [3.2, 3.4]
- viii. The County shall establish facility energy efficiency policy that provides employees with guidelines, instructions and requirements for efficient use of the facility such as thermostat use, turning off lights and computers, use of space heaters and fans, etc. [3.4, 3.1]
- ix. The County shall encourage other local governments and agencies in the county to adopt and implement energy efficiency policies and programs similar to the County's in order to improve countywide public sector energy efficiencies. [3.1, 3.2, 3.3,3.4,3.5]
- x. The County shall examine the potential for renewable energy use in County-owned facilities and incorporate that use during new construction and major renovations if found to be cost-effective within the projected life of the facility. [3.2, 3.3]

- xi. The County shall monitor State, Federal, utility, and other energy efficiency programs applicable to municipal facilities and pursue participation as appropriate. [3.3]
- xii. The County shall, when funding allows, audit major agency buildings and facilities to quantify energy use and identify opportunities for energy savings through efficiency and conservation measures. [3.3]
- xiii. The County shall continue to identify and implement, as appropriate, energy efficiency projects that qualify for incentives provided through (insert) Public Power Agency. [3.3]
- xiv. The County shall check with PG&E for available rebates and incentives when planning replacement of equipment which use natural gas. [3.3]
- xv. The County shall, when funding allows, conduct retro-commissioning studies of major agency building HVAC and lighting systems. [3.1, 3.3]
- xvi. The County shall develop and implement shading requirements for County parking lots, buildings and other facilities in Climate Zone 12 to reduce the heat island effect. [3.3]
- xvii. The County shall include energy efficiency as a selection criterion in all future County purchases of energy-consuming equipment and vehicles. [3.4]
- xviii. The County shall reduce its fleet's fuel consumption by 15% by 20XX compared to the baseline year of 20XX. [3.4]
- xix. The County shall establish energy efficiency protocols for building and custodial cleaning services. [3.4]

#### **Implementation Programs for Goal EE-4**

- i. The County shall recognize and promote energy efficiency efforts of local retail businesses. [4.1]
- ii. The County shall establish a baseline year of per capita energy consumption in order to develop targets for future reductions. [4.1, 4.2 1.1, 1.5]
- iii. The County shall encourage residents and businesses to consume 25 percent less energy by 2030 compared to the baseline year of 20XX. [4.1]
- iv. The County shall work with local utility providers and other appropriate agencies, including educational institutions, to provide public educational materials and programs to promote efficient use of energy. [4.2]

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- v. The County shall provide information on energy conservation practices with business license applications and renewals. [4.2, 4.1]
  - vi. The County shall publicize information about the link between water and electricity use; i.e. reducing water use reduces the need for electricity for water pumping. [4.2, 4.1]
  - vii. The County shall collaborate with the Chamber and local business organizations to strengthen and expand the "buy local" program. [4.5]

### **Implementation Programs for Goal EE-5**

- i. The County shall review and revise building and development codes, design guidelines and zoning ordinances to remove or otherwise address barriers to renewable energy production. [5.1]
- ii. The County shall prohibit new development covenants, conditions and restrictions (CC&Rs) from unreasonably restricting renewable energy systems. [5.1]
- iii. The County shall pursue partnerships with other governmental entities and with private companies and utilities to establish incentive programs for renewable energy. [5.1]
- iv. The County shall provide developers and builders information about renewable energy incentives and energy efficiency programs offered by Federal and State agencies and utilities when they submit applications or apply for permits and encourage them to participate. [5.1, 4.1]
- v. The County shall consider providing incentives for renewable energy projects through reduced fees and expedited permit processing. [5.1]
- vi. The County shall assist in securing grants, as appropriate, to support the implementation of photovoltaic, wind and other renewable energy technologies. [5.1]
- vii. The County shall encourage efforts of developers for the construction of Zero Net Energy (ZNE) buildings and encourage all new construction to be ZNE by combining building energy efficiency design features with on-site renewable energy so as to result in no net purchases of electricity and minimal need for natural gas/propane. [2.2, 5.1]
- viii. The County shall work with other neighboring local governments in a regional effort to enact a consistent set of renewable energy permitting requirements so that applicants can take advantage of standardization. [5.1, 3.2]

In the Conservation  
Element, please  
consider the following  
policies from the  
Draft Water Element:  
Policy 1.5, 1.6, 1.9, 1.10  
1.12, 1.14, 2.8, 5.1  
5.2, 5.3, 5.4, 6.5  
6.9, 7.3, 7.5, 7.6, 7.8,  
8.1, 8.3, 10.2, 4.4,

Implementation,  
Programs 3 and 20, and  
New Program -  
Golf Course Irrigation  
with reclaimed  
water.

eliminated elements. After the Public Review Draft GPU text is released, we may find that additional policies from these eliminated elements are needed to fill gaps. After the GPU DEIR is released, we may find that still more of these policies are needed to mitigate the potentially significant impacts of development under the GPU. Thus, we reserve the option to add to the preliminary list we provide here.

In the latest stages of the GPU process, the County has expressed a few concerns regarding GPU policies. One concern is that the County does not want to make commitments that it cannot meet, or that are outside of its jurisdiction to achieve. A second concern is, when a county department does have jurisdiction to implement a policy, that the correct County Department is identified in the policy or implementation measure. A third concern is that the County may not have the funding source or staff to implement some desirable policies. We at the CPC are willing to assist the County in solving these problems with regard to any of the policies identified below. **We respectfully request that the Planning Department identify for us the policies below that it is willing to recommend to the Board of Supervisors for inclusion in the GPU text, and also to identify those policies we need to fix to make them suitable for a recommendation of inclusion.**

#### **A) Draft Water Element policies for inclusion in the GPU text.**

We have included as an attachment to these comments, a version of the Draft Water Element that had redlined edits from the Foothill Conservancy. (Attachment 7.) We are recommending that version of the policies for inclusion in the GPU text.

The first set of policies we recommend for inclusion go directly to the County's responsibilities in project review, project conditioning, and project approval. If the County does not take on these responsibilities, there is no other agency with jurisdiction to do so.

Policy 1.5 Sufficient Water Supply for New Residential Development  
Policy 1.6 Sufficient Water Supply for New Non-Residential Development  
Policy 1.9 Adequate Facilities and Services  
Policy 1.10 Fire Protection Standards for new development  
Policy 1.12 Development Impacts to Existing Infrastructure  
Policy 1.14 New Community Water Systems.  
Implementation Program 5  
Policy 2.8 Sustainable Landscaping  
Policy 5.1 Adequate Facilities and Services  
Policy 5.2 Sewer Service Approval  
Policy 5.3 Alternative Wastewater System Approval  
Policy 5.4 Individual On-Site Wastewater Treatment System Permitting  
Policy 6.5 Watershed Protection  
Policy 6.9 Building Setback Lines  
Policy 7.3 Best Management Practices



Policy 7.5 Runoff Quality  
Policy 7.6 Natural Drainage Systems  
Policy 7.8 Flood Zone Compliance

The next policies go directly to the requirement in the MAC IRWMP that water planning and land use planning authorities cooperate and collaborate. Unless CCWD can demonstrate such cooperation and collaboration, it will not be eligible for the state funding it seeks to construct and maintain its infrastructure.

Implementation Program 3  
Policy 8.1 Water and Wastewater Infrastructure  
Policy 8.3 Funding Sources  
Implementation Program 20

The next policies deal with recreation and open space issues commonly associated with general plans.

New Program: Golf Course Irrigation with reclaimed water.  
New Program: Support for Wild & Scenic Designation for the Mokelumne River.  
Policy 10.2 Public Access in New Development

The last policy deals with fire safety; a key general plan concern.

Policy 4.4 Wildfire Risk Reduction

That very painful editing exercise just reduced 20 pages of Draft Water Element down to 25 policies and implementation measures. We hope that the Planning Department will show its appreciation for this sacrifice by recommending these policies and implementation measures for inclusion in the GPU text.

**B) Draft Energy Element policies for inclusion in the GPU text.**

We have included a copy of the Draft Energy Element as an attachment to these comments. (See Attachment 8.) We recommend the following policies for inclusion in the GPU text.

The first policies go directly to the County's project review, project conditioning, and project approval functions. If the County does not take on these responsibilities, there is no other agency with jurisdiction to do so.

EE-1.2 Energy Supply  
Implementation Program EE-1-iv  
EE-5-1 Renewable Energy Resources  
Implementation Program EE-5-ii

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# Calaveras County General Plan Update

## Draft Water Element Policy Document December 12, 2008

**DRAFT GOAL 1: Water Resource Protection and Reliability. To ensure a sustainable, reliable water supply sufficient to meet the existing and future needs of the county.**

### DRAFT Policies for Goal 1

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#### Water Availability and Reliability

**1.1. Water Supply Development.** The County shall support the development of new reliable future sources of supply sufficient to meet the projected demand in the Calaveras County and City of Angels general plans, including, but not limited to, implementation of conservation and efficiency requirements and programs, wastewater recycling and reuse, conjunctive use of surface water and groundwater, and offstream surface storage. (Working Group, 11/6/08, revisions by UPA, 11/5/08, Strange, 11/4/08, Lott, 11/13/08, CCWD, 11/26/08, Working Group, 12/4/08, Loux, 12/10/08, Mintier, 12/10/08)

Deleted: the expansion of surface water storage and conjunctive use of surface water and groundwater, while promoting water conservation and water recycling/reuse.

**New Policy: Water Supply Development Priorities:** The County shall support water supply projects that have the least environmental and recreational impacts and lowest costs before supporting projects with higher environmental and recreational impacts and costs.

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**1.2. Integrated Management.** The County shall support the integrated management of surface and groundwater, wastewater, stormwater treatment and use, and the development of reclaimed water. (New Policy per CCWD, 11/26/08)

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**1.3. Groundwater Management.** The County shall support the development of groundwater management plans by water resource agencies, water users, and other affected parties to ensure a sustainable, adequate, safe, ecologically sound, and economically viable groundwater supply for existing and future uses within the county. Any such plans will detail the hydrological connections between groundwater and surface streams. (Working Group, 11/6/08, revisions by UPA, 11/5/08, Buckley, 11/6/08, Lott, 11/13/08, Working Group, 11/20/08, Loux, 11/25/08, Working Group, 12/4/08, UPA, 12/3/08, Mintier, 12/10/08)

**1.4. Groundwater Demand Reduction.** To reduce demand on the county groundwater resources, the County shall encourage the use of alternate sources of water supply (e.g., surface water, and recycled water) to the maximum extent feasible. (New Policy per CCWD, 11/26/08, revisions by UPA, 12/3/08, Mintier, 12/10/08)

**1.5. Sufficient Water Supply for New Residential Development.** The County shall not allow residential development to exceed the capacity of available water supplies. To do this, the County shall enforce Government Code Section 66473.7. Where this code is not applicable, the County shall impose conditions similar to Government Code Section 66473.7. Developments of individual single family residential building permits or 4-way splits or less must still meet the requirement for "Proof of Groundwater" as established in

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Title 16, Chapter 16.12, Calaveras County Code. (Working Group, 11/6/08, revisions by UPA, 11/5/08, Loux, 11/25/08, Working Group, 12/4/08, Moss, 12/7/08, Loux, 12/12/08, incorporates previous Policies 1.5, and 1.6)

1.6. ~~Sufficient Water Supply for New Non-Residential Development~~. The County shall not allow nonresidential development to exceed the capacity of available water supplies. To do this, the County shall enforce conditions similar to Government Code section 66473.7. (Working Group, 11/20/08, revisions by Loux, 12/12/08)

1.7. **Water Rights Protection**. The County shall support public agencies and private entities within Calaveras County in their efforts to protect their water rights and water supply contracts. (New Policy per CCWD, 11/26/08, revisions by UPA, 12/3/08)

1.8. **Agricultural Water Supply**. The County shall encourage water/wastewater agencies to explore opportunities for supplying agriculture with raw surface water and/or recycled water. (New Policy per CCWD, 11/26/08, revisions by Working Group, 12/4/08)

**Infrastructure**

1.9. **Adequate Facilities and Services**. The County shall ensure through the development review process that public water facilities and services will be adequate and operational to serve new development and meet capacity needs. Such needs shall include capacities necessary to comply with public safety such as fire protection as provided in Policy 1.9. (Working Group, 11/6/08, revisions by CCWD, 11/26/08, Working Group, 12/4/08, UPA, 12/3/08)

1.10. **Fire Protection Standards for New Development**. Prior to the approval of any new development projects, the County, in coordination with the local water service agency, the wildfire protection agency(ies), and the local structural fire protection agencies, shall ensure availability of adequate fire flows and compliance with fire protection standards, with the protection of human life and property as the primary objectives. (Working Group, 11/6/08, revisions by UPA, 11/5/08, Working Group, 12/4/08, Mintier, 12/10/08)

1.11. **Funding for Public Facilities**. The County shall support water/wastewater agencies use of all appropriate and equitable financing methods (e.g., grant funding, assessment districts, and development fees) to finance public facility design, construction, operation, and maintenance. (New Policy per CCWD, 11/26/08, revisions by UPA, 12/3/08, Mintier, 12/10/08)

1.12. ~~Development Impacts to Existing Infrastructure and Its Users~~. The County shall ensure that any new development projects do not create significant adverse impacts on existing water and wastewater infrastructure or the services that infrastructure provides to existing users. (New Policy per CCWD, 11/26/08, revisions by UPA 12/3/08 Working Group, 12/4/08, Mintier, 12/10/08)

1.13. **Level of Service**. The County shall encourage water/wastewater agencies to preserve, improve, and replace infrastructure as necessary to maintain adequate levels of

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water/wastewater service. (New Policy per CCWD, 11/26/08, revisions by Mintier, 12/10/08)

**1.14. New Community Water Systems.** The County shall require any new community water system serving residential, industrial, or commercial development to be owned and operated by a public or private entity that can demonstrate to the County adequate financial, managerial, and operational resources. (New Policy per CCWD, 11/26/08, revisions by Working Group, 12/4/08, Mintier, 12/10/08)

**Interagency Coordination**

**1.15. Interagency Coordination.** The County shall direct its departments to cooperate with and provide regular communication, data and technical assistance to public and private water suppliers and nonprofit organizations in order to help address existing and future water needs for the county. (Working Group, 11/6/08, revisions by UPA, 11/5/08, Lott, 11/13/08, Working Group, 11/20/08)

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**1.16. Joint Water Projects.** The County shall promote development of mutually beneficial joint water projects and other efforts to expand water supply within the county to the level required to serve the development anticipated in this general plan and the City of Angels general plan. (New Policy per CCWD, 11/26/08)

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**DRAFT Implementation Programs for Goal 1**

**New Program:** The County shall work with water agencies, groundwater basin managers, and landowners to conduct a comprehensive mapping study of the county's fractured rock aquifers using the latest technology, including computerized tomography and isotope studies. The studies will be designed to map the extent, location, and interconnections of fractures in the rock and the age and flow of water in the fractured rock aquifers.

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Other participants: California State University, Fresno or similar experts

**Implementation Program #1:** The County shall work with water agencies, groundwater basin managers, and willing landowners to improve groundwater monitoring including quality, yields, and groundwater elevations. Actions will include identifying monitoring sites, installing monitoring wells, identifying gaps in the monitoring network, establishing monitoring protocols, or developing a groundwater budget. (Revisions by Working Group, 12/4/08, Mintier, 12/10/08)

**Implements What Policy:** 1.3

**What County Department is Responsible?** Planning Department

**Other Participants:** Water agencies, landowners

**Timeframe:** 2010-2015, ongoing

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**Implementation Program #2:** The County shall work with local agencies to prepare an update to, and develop a schedule for periodic updates of, the 1996 County Water Master Plan. This update will ~~use the latest available science and data and~~ include a water supply availability analysis (i.e., an identification and analysis of water rights, water availability, water reliability, water usability, water supplies from reclamation and recycling, and water conveyance systems, including what water may have already been contracted out of the county) and a water demand analysis (i.e., identifying existing users, undeveloped lots, projected residential, commercial, industrial, agricultural, and environmental uses; and demand management through conservation).

**Implements What Policy:** 1.2, 1.15, 8.1, 8.2, 8.4

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies, agricultural interests

**Timeframe:** 2010-2015, ongoing

**Implementation Program #3:** The County shall develop and provide to water/wastewater agencies lists of pending proposed development projects, *(Revisions by Mintier, 12/10/08)*

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**Implements What Policy:** 1.15, 5.6, 8.1, 8.5

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies

**Timeframe:** Ongoing

**Implementation Program #4:** The County shall work with water agencies and fire protection authorities to conduct a county-wide study of fire-flow requirements as they relate to compliance with fire protection standards. *(Revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

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**Implements What Policy:** 1.10, 1.9

**What County Department is Responsible?** Building Department, Fire Departments, Office of Emergency Services

**Other Participants:** Water agencies, fire protection districts and other local agencies

**Timeframe:** Ongoing

**Implementation Program #5:** The County, in coordination with water agencies, will develop a method to demonstrate a sufficient water supply for all new development projects not subject to Government Code Section 66473.7. *(Revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

**Implements What Policy:** 1.5, 1.6, 1.9, 5.1, 8.1

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**What County Department is Responsible?** Planning Department

**Other Participants:** Water agencies

**Timeframe:** 2010-2015

**Implementation Program #6:** The County shall work with water/wastewater agencies and the agricultural community to conduct a county-wide study of the feasibility of supplying agriculture with raw surface water and/or recycled water. *(Revisions by Loux, 12/8/08)*

**Implements What Policy:** 1.8, 1.1, 2.2

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies, agricultural interests

**Timeframe:** 2015-2020

**New Program:** The County will work with water/wastewater agencies and golf course owners to develop programs to ensure that all existing and new golf courses are irrigated only with recycled or reclaimed water.

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**Implementation Program #7:** When setting timeframes for the completion of conditions of approval for discretionary developments, the County shall consider adopting an ordinance to set the time for payment of any fees imposed for water or wastewater infrastructure and capacity, as early as feasible, so that these fees can be promptly received and spent by the relevant jurisdictions, and the capacity and infrastructure can be in place when it is needed by the development.

**Implements What Policy:** 1.11, 8.3

**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Water and wastewater agencies

**Timeframe:** 2010-2015, ongoing

**New Program:** Support efforts to designate 37 miles of the North Fork and main Mokolumne River a National Wild and Scenic River.

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**DRAFT GOAL 2: Water Use Efficiency.** To maximize the efficient use and reuse of water supplies through water conservation programs, water recycling programs and other means to ensure reliable, sustainable, and affordable water supplies.

**DRAFT Policies for Goal 2**

**2.1. Water Conservation.** The County, in coordination with water agencies, shall require the use of water conservation measures appropriate for existing and future needs that comply with state and federal law and the adopted recommendations of the California Urban Water Conservation Council. *(Working Group, 11/6/08, revisions by Strange, 11/4/08, Working Group, 11/20/08, Loux, 11/25/08, Working Group, 12/4/08, Mintier, 12/10/08)*

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**2.2. Recycled Water Use.** The County shall require new development, redevelopment, golf course, and landscape and agricultural irrigators to use recycled water wherever practical and available; this includes striving for the highest possible quality of wastewater treatment to increase the potential use of recycled water for existing and future needs of the county. *(Working Group, 11/6/08, revisions by Strange, 11/4/08, Loux, 11/25/08, Working Group 11/20/08, Working Group, 12/4/08)*

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**2.3. Conjunctive Use.** The County shall support conjunctive use of groundwater and surface water by water agencies to improve water supply reliability. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Loux, 11/25/08, Working Group, 12/4/08, Mintier, 12/10/08)*

**2.4. Drought Planning and Emergency Services Planning.** The County shall encourage all public and private water agencies to develop and maintain drought contingency and emergency services plans, mutual aid agreements and related measures to ensure adequate water services during prolonged drought. *(New Policy per Loux, 11/25/08)*

**2.5. Educational Programs.** The County shall support the development of educational programs by water agencies and public agencies to increase public awareness of efficiently using and managing water resources, including but not limited to, conservation and reuse practices. *(Working Group, 11/6/08, revisions by Lott, 11/13/08, Working Group, 11/20/08, Loux, 11/25/08, UPA, 12/3/08, Mintier, 12/10/08)*

**2.6. Compact Development.** The County shall support and encourage compact forms of development to reduce water demands, reduce landscaped areas per capita, and reduce the costs of water and wastewater infrastructure. *(New Policy per Loux, formerly Implementation Program, 12/10/08)*

**2.7. Sustainable Water Practices.** The County shall encourage the use of sustainable, affordable water management practices that meet state and local standards, such as grey water reuse, rain water capture/harvest, watershed management, and stormwater infiltration to reduce demands on potable supply. *(New Policy per Loux, 11/25/08, Infusino, 11/20/08, UPA, 12/3/08, Moss, 12/8/08, formerly Policy 3.3)*

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**2.8. Sustainable Landscaping:** The County shall require commercial and industrial development and subdivisions requiring a subdivision map to employ xeriscaping and native plant landscaping to minimize water use.

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**DRAFT Implementation Programs for Goal 2**

**Implementation Program #8:** The County shall work with water agencies to conduct a county-wide water conservation study to develop a county-wide water conservation and efficiency program for new and existing development. *(Revisions by Mintier, 12/10/08)*

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**Implements What Policy:** 2.2, 2.6, 2.7

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies, NGOs, developers, public interests

**Timeframe:** 2015-2020



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**DRAFT GOAL 3: Climate Change Adaptation and Mitigation.** To ensure that the County proactively develops policies and programs, and makes decisions that address the future challenges posed by climate change including prolonged drought, flooding, and water quality/aquatic resources impacts.

**DRAFT Policies for Goal 3**

**3.1. Climate Change.** The County shall adopt policies and programs, and support efforts by local agencies to mitigate greenhouse gas emissions resulting from energy consumption related to water use to comply with state and federal law. *(Working Group, 11/20/08, revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

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**3.2. Climate Change Adaptation.** The County shall support efforts by local, regional, state, and federal agencies and others to develop policies and manage programs that allow the County to adapt to climate change effects such as prolonged drought, flooding, wildfires, and other events. *(New Policy per Loux, 11/25/08, Mintier, 12/10/08)*

**3.3. Revenue Generation.** The County shall encourage water and wastewater agencies to investigate opportunities for revenue generation from green technologies, greenhouse gas mitigation strategies, run-of-stream small-scale hydroelectric plants that do not require impoundments, and other climate change mitigation strategies. *(New Policy per Working Group, 11/20/08, revisions by Working Group, 12/4/08)*

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**3.4. Working landscape management.** The County shall encourage forest, woodland and grassland management practices that maximize carbon sequestration and minimize greenhouse gas emissions from soil, equipment, and harvest techniques.

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**DRAFT Implementation Programs for Goal 3**

**Implementation Program #9:** The County shall work with water agencies to conduct a county-wide study to determine the feasibility to generate clean energy through small-scale, run-of-stream hydroelectric plants that do not require impoundments. *(New Implementation Program per Working Group, 12/4/08)*

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**Implements What Policy:** 3.3

**What County Department is Responsible?** Planning Department

**Other Participants:** Water agencies and NGOs

**Timeframe:** 2015-2020

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**DRAFT GOAL 4: Water Quality. To protect and enhance the quality of surface water and groundwater to meet the needs of all existing and future beneficial uses.**

**DRAFT Policies for Goal 4**

**4.1. Water Quality Treatment Technology.** The County shall encourage the use of up-to-date water management strategies, biological remediation, and best available technology to address naturally occurring water quality problems. *(Working Group, 11/6/08)*

**4.2. Regulatory Standards.** The County shall support water and wastewater agencies' efforts to meet applicable safe drinking water standards in accordance with regulatory agencies. *(Working Group, 11/6/08, revisions by Lott, 11/13/08, Loux, 11/25/08, Working Group, 12/4/08, Mintier, 12/10/08)*

**4.3. Best Management Practices.** The County shall require the use of best management practices (BMPs) to protect surface water and groundwater from the adverse effects of logging, construction activities, post-construction runoff, and industrial practices, including stormwater runoff. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Lott, 11/13/08, Working Group 11/20/08, see new Policy 7.4 per UPA)*

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**4.4. Wildfire Risk Reduction.** The County shall, in cooperation with wildfire management agencies (e.g., Cal Fire and the United States Forest Service) develop a variety of land use planning, site design, and vegetation management techniques to reduce the risk of wildfires. This risk reduction shall also include post-fire erosion, sedimentation, and water quality conditions. *(New Policy per Loux, 11/25/08, revisions by UPA, 12/3/08)*

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**4.5. Wildfire Risk Reduction, Land Use.** The County shall not allow the development of rural watershed lands in high and very high-fire risk areas.

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**4.6. Wildfire Risk Reduction, Forest Management.** The County shall discourage the conversion of diverse forest ecosystems to highly flammable conifer plantations.

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**4.7. Interagency Cooperation.** The County shall encourage cooperation among water and wastewater agencies and NGOs in protecting surface water and groundwater resources for the long-term benefit of existing and future water needs of the county and its ecosystems. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Lott, 11/13/08, Working Group, 12/4/08)*

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**4.8. Public Education for Irrigation Practices.** The County shall work with local agencies and non-governmental organizations to provide educational and technical assistance programs to encourage practices that minimize water pollution and improve water quality. *(Working Group, 11/6/08, revisions by Buckley, 11/6/08, Lott, 11/13/08, Working Group, 11/20/08)*

**4.9. Mine Water Pollution Reduction.** The County shall work with state, federal, and local resource managers and regulators to reduce environmental impacts, particularly related to water pollution and groundwater quality, from abandoned and active mines and mineral extraction areas of all types. *(New Policy per Loux, 12/12/08)*

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**DRAFT Implementation Programs for Goal 4**

**Implementation Program #10:** The County shall conduct a workshop among state, local agencies, landowners, non-governmental organizations, and developers to identify methods that minimize impacts to water quality and natural environment. *(Revisions by Mintier, 12/10/08)*

**Implements What Policy:** 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 5.7, 9.1

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies, other local agencies, environmental interests, NGOs, landowners, developers

**Timeframe:** 2010-2015

**Implementation Program #11:** The County shall complete development of its Local Agency Ground Water Protection Program that will identify known or potential groundwater impacts from on-site septic systems. *(New Implementation Program per Moss, 12/7/08)*

**Implements What Policy:** 4.5, 1.3, 5.4, 8.5

**What County Department is Responsible?** Environmental Health Department, Geographic Information Systems (Technology Services Department)

**Other Participants:** Water and wastewater agencies

**Timeframe:** Ongoing

**New Program:** Need program to seek changes to the state's Forest Practices Act to ban clearcutting and conversion of large areas of uneven-age forests to conifer plantations.

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**New Program:** Fully implement and apply the WARMF model developed for the Mokelumne watershed and expand the modeling and application to the remaining watersheds in Calaveras County.

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**New Program:** Fractured rock aquifer study. See groundwater in previous section.

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**DRAFT GOAL 5: Wastewater Management Goal. To ensure infrastructure is available and able to sustainably collect, treat, store, reuse, and safely dispose of wastewater for existing and future needs of the county.**

#### DRAFT Policies for Goal 5

**5.1. Adequate Facilities and Services.** The County shall ensure through the development review process that wastewater facilities and services will be adequate and operational to serve new development and meet capacity needs. *(Working Group, 11/6/08, revisions by Lott, 11/13/08, Loux, 11/25/08, CCWD, 11/26/08, Working Group, 12/4/08)*

**5.2. Sewer Service Approval.** The County shall not approve any new subdivision with more than 30 residential units or equivalent commercial/industrial development without an approved sewer system. *(Working Group, 11/6/08, revisions by Working Group, 11/20/08, CCWD, 11/26/08, Working Group, 12/4/08)*

**5.3. Alternative Wastewater System Approval.** The County shall not approve new subdivisions between 5 and 30 residential units or equivalent commercial/industrial development unless it can be demonstrated to the County that adequate service will be provided from a fully-funded alternative wastewater system operated by a state-licensed operator, or an approved sewer system. *(Working Group, 11/6/08, revisions by Working Group, 11/20/08, CCWD, 11/26/08, Working Group, 12/4/08, Mintier, 12/10/08, incorporates previous Policy 5.5)*

**5.4. Individual On-Site Wastewater Treatment System Permitting.** The County shall permit adequately designed individual on-site wastewater treatment systems (OWTS) for new single-family residential units or 4-way splits (or less), where an approved alternative wastewater system or sewer system is not available. *(Working Group, 11/20/08, revisions by Working Group 12/4/08, Moss, 12/8/08, Mintier, 12/10/08)*

**5.5. Responsible Use and Disposal of Water.** The County shall encourage the development of waste disposal systems that minimize pollution. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Working Group, 12/4/08, combined with previous Policy 5.2)*

**5.6. Interagency Coordination.** The County shall direct appropriate County departments to cooperate with and provide regular communication and technical assistance to wastewater agencies in order to meet existing and future needs within the county. *(Working Group, 11/20/08, revisions by Mintier, 12/10/08)*

**5.7. Educational Programs.** The County shall encourage development of educational programs by wastewater agencies and public agencies to increase public awareness of wastewater collection, treatment, and disposal. *(Working Group, 11/20/08, revisions by Mintier, 12/10/08)*

**Substantive changes**

**Nonsubstantive changes**

**5.8. Septic System Failures.** The County shall encourage the installation of public wastewater treatment facilities in existing communities that are experiencing significant septic system failures and/or are posing a potential threat to county water resources or the public. *(New Policy per CCWD, 11/26/08, revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

**5.9. Wastewater Reuse and Recycling.** The County shall require reuse of treated wastewater wherever feasible in commercial, industrial, recreational, and residential development.

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**DRAFT Implementation Programs for Goal 5**

**Implementation Program #12:** The County shall conduct a study to evaluate alternatives for rural wastewater systems. Alternatives that could be evaluated include elevated leach fields, sand filtration systems, evapotranspiration beds, osmosis units and holding tanks. For larger generators or groups of users, alternative systems could include communal septic tank/leach field systems, package treatment plants, lagoon systems, and land treatment.

**Implements What Policy:** 5.2, 5.3, 5.4, 5.8, 5.10

**What County Department is Responsible?** Planning Department

**Other Participants:** Wastewater agencies, landowners

**Timeframe:** 2010-2015

**Implementation Program #13:** The County shall conduct a study to investigate the feasibility of adding infrastructure to wastewater treatment plants for septage receiving and treatment. *(New Implementation Program per Moss, 12/7/08)*

**Implements What Policy:** 5.3, 5.4, 5.5, 5.8

**What County Department is Responsible?** Environmental Health Department

**Other Participants:** Wastewater agencies

**Timeframe:** 2010-2015

~~Need wastewater reuse and recycling program or cross-reference to conservation program.~~

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**DRAFT GOAL 6: Watershed Management** To enhance and protect watersheds, including, but not limited to forests, grasslands, oak woodlands, open spaces, soils, water bodies, recreation areas, habitat, vegetation, groundwater recharge areas, and developed areas, through responsible water and land use management.

**DRAFT Policies for Goal 6**

**6.1. Public Education.** The County, in cooperation with local agencies, non-governmental organizations, and landowners, shall support efforts to educate the public on the importance of watershed management. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Lott, 11/13/08)*

**6.2. Interagency Cooperation and Coordination.** The County shall cooperate and coordinate with other local watershed management programs. *(Working Group, 11/6/08, revisions by Buckley, 11/6/08, UPA, 12/3/08)*

**6.3. Funding.** The County shall support efforts to obtain grant funding for locally sponsored watershed programs, planning efforts, and projects that enhance and protect the watersheds of the county. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Strange, 11/4/08, Lott, 11/13/08, Mintier, 12/10/08)*

**6.4. Groundwater Recharge Area Protection.** The County shall require new development projects to adequately protect groundwater recharge areas. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Strange, 11/4/08, Working Group, 12/4/08, Mintier, 12/10/08)*

**6.5. Watershed Protection** The County shall require new development projects to minimize impacts on wetlands, lakes, reservoirs, and streams, recreation areas, agriculture, and wildlife habitat areas. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Strange, 11/4/08, and Lott, 11/13/08, Working Group 12/4/08, Mintier, 12/10/08)*

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**6.6. Water Recreation Area Protection.** Wherever feasible, the County shall work with landowners, agencies, and resource managers to maintain and/or improve public access for recreational uses along waterways. *(Working Group, 11/20/08, revisions by Loux, 11/25/08)*

**6.7. Instream Flow Management** The County shall actively support instream flow standards that comply with the Public Trust Doctrine by protecting aquatic habitat and fisheries and providing recreation opportunities while balancing water supply needs and protecting water rights within the county. *(New Policy per Loux, 11/25/08, revisions by UPA, 12/3/08)*

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**6.8. Road Construction Erosion Management.** The County shall require new development projects to use landform and contour grading and related techniques to minimize erosion and sedimentation potential and reduce water quality impacts when planning, designing, grading and constructing County roads and roads that will serve the development. *(New Policy per Loux, 11/25/08, revisions by Loux, 12/8/08, Mintier, 12/10/08)*

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**6.9. Building Setback Lines.** The County shall establish and enforce minimum building setback lines from (perennial) streams and (significant) wetlands that are adequate to protect resource values through environmental review and application of comprehensive development standards. *(New Policy per Infusino, 11/20/08, Buckley, 11/20/08)*

**DRAFT Implementation Programs for Goal 6**

**Implementation Program #14:** The County shall identify, inventory, and map natural groundwater recharge areas to help land use planners locate development. *(Revisions by Mintier, 12/10/08)*

**Implements What Policy:** 6.4, 1.3

**What County Department is Responsible?** Planning Department, Geographic Information Systems (Technology Services Department)

**Other Participants:** Water agencies, other local agencies, landowners

**Timeframe:** 2010-2015, ongoing

~~**Implementation Program #15:** The County shall study and adopt standards for the protection of groundwater recharge areas, such as placing limitations on the amount of impervious surfaces, or other planning and zoning techniques. *(Revisions by Mintier, 12/10/08)*~~

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**Implements What Policy:** 6.4

**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Water agencies, landowners

**Timeframe:** 2015-2020

**Implementation Program #16:** The County shall review and revise/update its grading and erosion control ordinance and its rural road standards to implement the water quality, stormwater, and watershed policies. *(New Implementation Program per Loux, 12/8/08)*

**Implements What Policy:** 6.5, 6.8

**What County Department is Responsible?** Building Department, Public Works Department, Board of Supervisors

**Other Participants:** Local agencies

**Timeframe:** 2015-2020

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**DRAFT GOAL 7: Stormwater and Flood Management.** To manage stormwater from existing and future development in a cost-effective manner through methods that maintain natural water quality, enhance percolation for groundwater recharge, reduce potential flooding, support natural wetlands and provide opportunities for reuse.

**DRAFT Policies for Goal 7**

**7.1. Public Education.** The County shall develop educational material and programs on the importance of stormwater and flood management. *(Working Group, 11/6/08, revisions by Lott, 11/13/08)*

**7.2. Interagency Cooperation and Collaboration.** The County shall work with the Central Valley Regional Water Quality Control Board and local, state, and federal flood control and water resources management agencies to adopt effective stormwater management measures. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Buckley, 11/6/08, Lott, 11/13/08)*

**7.3. Best Management Practices.** The County shall require best management practices (e.g., low impact development) in new development and redevelopment to reduce pollutants from entering natural water bodies while allowing stormwater reuse. *(New Policy per Loux, 11/25/08, moved from previous Policy 4.4, revisions by Working Group, 12/4/08)*

**7.4. Maintenance of Stormwater Runoff Systems.** The County shall maintain its existing stormwater runoff systems, to assure that these systems do not fall into a state of disrepair such that they are causing water quality degradation inconsistent with their original design function. *(New Policy per UPA, 12/3/08)*

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**7.5. Runoff Quality.** The County shall require all drainage systems in new development and redevelopment to comply with applicable state and federal non-point source pollutant discharge requirements. *(Working Group, 11/6/08, revisions by Lott, 11/13/08, Mintier, 12/10/08)*

**7.6. Natural Drainage Systems.** The County shall require the use of natural stormwater drainage systems to preserve and enhance the environment. *(Working Group, 11/6/08, revisions by Lott, 11/13/08)*

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**7.7. Agricultural Runoff.** The County shall work with local partners to provide educational and technical assistance to farmers to reduce sedimentation, provide on-site retention of irrigation water and flow attenuation, as well as detention of stormwater flows. *(Working Group, 11/20/08)*

**7.8. Flood Zone Compliance.** The County shall not approve new non-agricultural parcel maps or subdivision maps within 100-year flood zones as mapped by Federal Emergency Management Agency (FEMA). *(Working Group, 11/20/08, revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

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**DRAFT Implementation Programs for Goal 7**

**Implementation Program #17:** The County shall review and, if necessary, revise grading and stormwater and flood management ordinances to fully protect downstream waters.

**Implements What Policy:** 7.3, 7.4, 7.5, 7.6, 7.8

**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Central Valley Regional Water Quality Control Board, local/state/federal flood control and water resources management agencies

**Timeframe:** 2010-2015

**Implementation Program #18:** The County shall develop and adopt revised and updated standards and best management practices for new development projects as part of its Non-Point Discharge Elimination System (NPDES) general construction permit (assuming that is right for the County?), that encourage alternative storm water management systems, natural drainage systems and low impact development approaches to managing stormwater that improve water quality (New Implementation Program per Loux, 12/7/08)

**Implements What Policy:** 7.3, 7.4, 7.5, 4.3

**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Central Valley Regional Water Quality Control Board, local/state/federal flood control and water resources management agencies

**Timeframe:** 2010-2015

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**DRAFT GOAL 8: Interagency Communication and Cooperation.** To promote interagency communication and cooperation between land use and water and wastewater entities and other interested parties, so that they may optimize utilization of their resources and provide the highest level of dependable, yet affordable, service, while protecting the natural environment, providing recreation opportunities, and respecting individual entities' water rights and interests.

**DRAFT Policies for Goal 8**

**8.1. Water and Wastewater Infrastructure.** The County shall work with water and wastewater agencies in the planning, development, and construction of water and wastewater facilities needed to transmit, treat, store, and distribute potable water supplies, and to collect, convey, treat and dispose of wastewater pursuant to adopted General Plan policies, urban water management plans, water supply agreements, and master facilities plans. *(Working Group, 11/6/08, revisions by Mintier, 12/10/08)*

**8.2. Cooperation.** The County shall support cooperative interregional planning efforts that have as a high priority the protection of existing water rights of local Calaveras County agencies, the protection of water quality, and the protection and restoration of watersheds, meadows, streams, rivers and lakes. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Lott, 11/13/08, Buckley, 11/6/08, Working Group, 12/4/08)*

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**8.3. Funding Sources.** The County shall work with local agencies to identify and pursue alternative funding sources that can be used for projects that improve the water resources management opportunities in Calaveras County. *(Working Group, 11/6/08, revisions by UPA, 11/5/08, Buckley, 11/6/08, Buckley 12/4/08, Mintier, 12/10/08)*

**8.4. Water Supply Reliability.** The County shall encourage water agencies to develop plans for responding to droughts and the effects of predicted global climate change, including contingency plans and the sharing of water resources to improve overall water supply reliability for the existing and future needs of the county. *(Working Group, 11/6/08, revisions by UPA, 11/5/08 Buckley, 11/6/08)*

**8.5. Data Sharing.** The County shall share relevant data with water and wastewater agencies and NGOs to assist them in their planning activities. *(Working Group, 11/6/08)*

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**8.6. Communication.** The County shall freely communicate and cooperate with all parties interested in water and water-related issues to ensure free exchange of ideas and data and full airing of issues.

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**DRAFT Implementation Programs for Goal 8**

**Implementation Program #19:** The County shall direct appropriate departments to participate, to the extent possible, in the Mokelumne-Amador-Calaveras Integrated Regional Water Management Plan (IRWMP) and the Tuolumne-Stanislaus IRWMP. *(Revisions by Working Group, 12/4/08, Mintier, 12/10/08)*

**Implements What Policy:** 8.2, 1.2

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**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Water and wastewater agencies, environmental interests, agricultural interests

**Timeframe:** 2010-2015, on-going

**Implementation Program #20:** The County shall direct appropriate departments to participate, to the extent possible, in regional water, wastewater, and watershed planning groups designed to discuss and solve water supply, water quality, watershed, and other water/wastewater-related issues within the county, and to identify and pursue alternative funding sources for future projects. *(Revisions by Mintier, 12/10/08)*

**Implements What Policy:** 8.2, 6.2, 5.6, 4.5, 1.15

**What County Department is Responsible?** Planning Department, Board of Supervisors

**Other Participants:** Water and wastewater agencies, other local agencies

**Timeframe:** 2010-2015, ongoing

**Implementation Program #21:** The County shall work with local agencies and NGOs to develop an interagency cooperative program to serve as a clearing house for data related to land use and water planning. These data may include hydrology, water quality, geology, hydrogeology, geography, facility locations, land use, and other water and wastewater related information.

**Implements What Policy:** 8.5, 8.2, 6.2, 5.6, 4.5, 1.15

**What County Department is Responsible?** Geographic Information Systems (Technology Services Department)

**Other Participants:** Water and wastewater agencies, NGOs, and other local agencies

**Timeframe:** 2010-2015

**Implementation Program #22:** The County Building Department shall work with water and wastewater agencies to develop consistent construction and inspection standards. *(Revisions by Mintier, 12/10/08)*

**Implements What Policy:** 8.1

**What County Department is Responsible?** Building Department, Board of Supervisors

**Other Participants:** Water and wastewater agencies

**Timeframe:** 2010-2015

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**DRAFT GOAL 9: Public Education and Awareness. To increase public awareness of water resources and wastewater planning, water quality, and water conservation and efficiency through education and outreach.**

**DRAFT Policies for Goal 9**

**9.1. Public Education Material.** The County shall encourage water agencies, wastewater agencies, and other local organizations or individuals to develop and distribute educational material regarding water conservation and water quality protection measures and programs. *(Working Group, 11/6/08, revisions by Strange, 11/4/08 Working Group, 12/4/08)*

**9.2. ~~Water Resources and Wastewater Planning.~~** The County shall encourage water and wastewater agencies to involve the public in their water resource and wastewater planning activities, and shall not support any project that is not developed and implemented with full and meaningful public participation. *(Working Group, 11/6/08, revisions by Buckley, 11/6/08 Working Group, 12/4/08)*

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**DRAFT Implementation Programs for Goal 9**

**Implementation Program #23:** The County will seek funds to support efforts to develop and distribute educational material for the public regarding water conservation, water quality, irrigation practices, and other water and wastewater related topics.

**Implements What Policy:** 9.1, 9.2, 2.5, 4.6, 5.7, 6.1, 7.1

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies, other local agencies, NGOs, landowners

**Timeframe:** Ongoing

**Implementation Program #24:** The County shall work with water and wastewater agencies to establish a schedule for briefings to the Board of Supervisors regarding water and wastewater related activities. *(Formerly Policy 9.6 per Working Group, 11/6/08, Mintier, 12/10/08)*

**Implements What Policy:** 9.2, 1.15, 4.5, 5.6

**What County Department is Responsible?** Planning Department

**Other Participants:** Water and wastewater agencies

**Timeframe:** 2010-2015, ongoing

**DRAFT GOAL 10. Ensure the continued recreational use of Calaveras County's rivers, streams, lakes and reservoirs and the related revenue from that use.**

**10.1 Public Access to Rivers and Streams.** The County shall promote direct and trail access to the county's streams consistent with the Public Trust Doctrine, but not violating any individual landowner's property rights.

**10.2 Public Access in New Development.** The County shall promote public access to rivers, streams, lakes and reservoirs in new developments and in regulatory proceedings related to existing water projects

**10.2 Protecting Continued Use of Recreation Resources.** The County shall not support water supply or wastewater supply projects that diminish existing recreational use or enjoyment of the county's rivers, lakes, streams and reservoirs, including swimming, gold panning, fishing, boating, water play, and family picnics.

**10.3 Wild and Scenic River Designations.** The County shall support National Wild and Scenic River designation for the Mokelumne and North Fork Stanislaus rivers as proposed by NGOs and federal agencies.

**Implementation programs**

The County Recreation Commission will develop a recreation plan for the county's rivers, streams and lakes in cooperation with whitewater and flat-water boaters, NGOs, recreation businesses and business organizations.

The County will develop standards for lake and river access for new development.

The County will support federal wild and scenic designation legislation proposed to protect the North Fork Stanislaus and Mokelumne Rivers.

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