

Sustainability Task Force

A Committee of the Chico City Council Mayor Ann Schwab, Chair

Meeting of March 2, 2009 - 3:00 p.m. to 5:00 p.m.

Council Chamber Building, 421 Main Street, Conference Room No. 1

AGENDA

1. <u>DISCUSSION REGARDING PREPARATION OF A CLIMATE ACTION PLAN AND DEMONSTRATION</u>
OF CLIMATE AND AIR POLLUTION PLANNING ASSISTANCE (CAPPA) SOFTWARE.

Staff will give a demonstration on the Climate and Air Pollution Planning Assistance (CAPPA) software provided by ICLEI to assist the City in preparing a Climate Action or Sustainability Plan. The Task Force will also begin discussions on the contents and estimated timeline for the plan, and establishing the criteria and priorities to be used in the software for determining the types of measures to be included in the plan.

2. **REQUEST FOR VOLUNTEERS**

Chair Schwab is seeking volunteers from the Task Force to participate in two sustainability community outreach opportunities in April 2009.

3. **REPORTS AND COMMUNICATIONS**

 Report from the Ad-hoc Committee Regarding Establishing Sustainability Goals and Indicators for the City's 2030 General Plan Update.

4. BUSINESS FROM THE FLOOR

Members of the public may address the Committee at this time on any matter not already listed on the agenda, with comments being limited to three minutes. The Committee cannot take any action at this meeting on requests made under this section of the agenda.

5. ADJOURNMENT – The meeting will adjourn no later than 5:00 p.m.

ATTACHMENTS:

Power Point Information Regarding CAPPA Draft Action Plan Outline and Timeline Chair Schwab request for volunteers Draft Sustainability Indicator Matrix Email From Scott McNall Additional Indicators from Jon Luvaas

Distribution available in the office of the City Clerk:

Prepared: 2/26/09 Chico City Clerk's Office

Posted: 2/26/09 411 Main Street, Chico, CA 95928

Prior to: 5:00 p.m. (530) 896-7250



Please contact the City Clerk at 896-7250 should you require an agenda in an alternative format or if you need to request a disability-related modification or accommodation in order to participate in a meeting. This request should be received at least three working days prior to the meeting in order to accommodate your request.

Members:



Web CAPPA Beta Launch and Training Session

21 October 2008

Micah Lang, Senior Program Officer





Goals



- Feel comfortable getting started using Web CAPPA
- 2. Answer initial questions about Web CAPPA and the beta launch



Outline

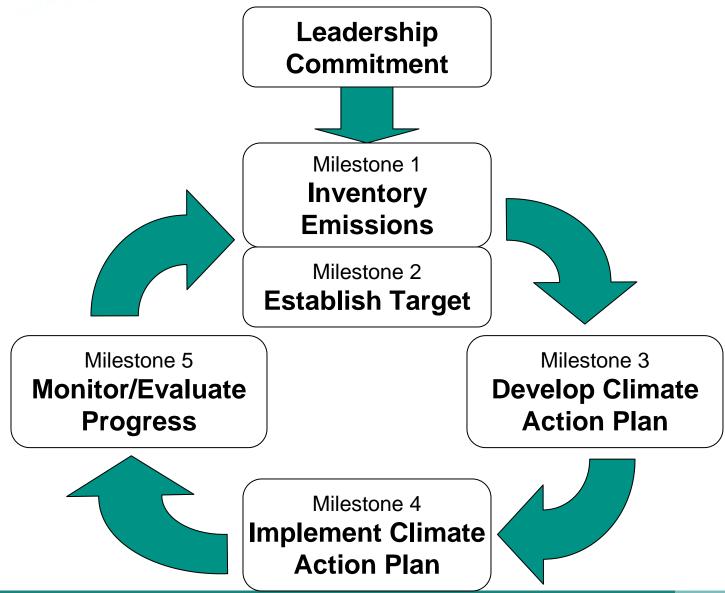


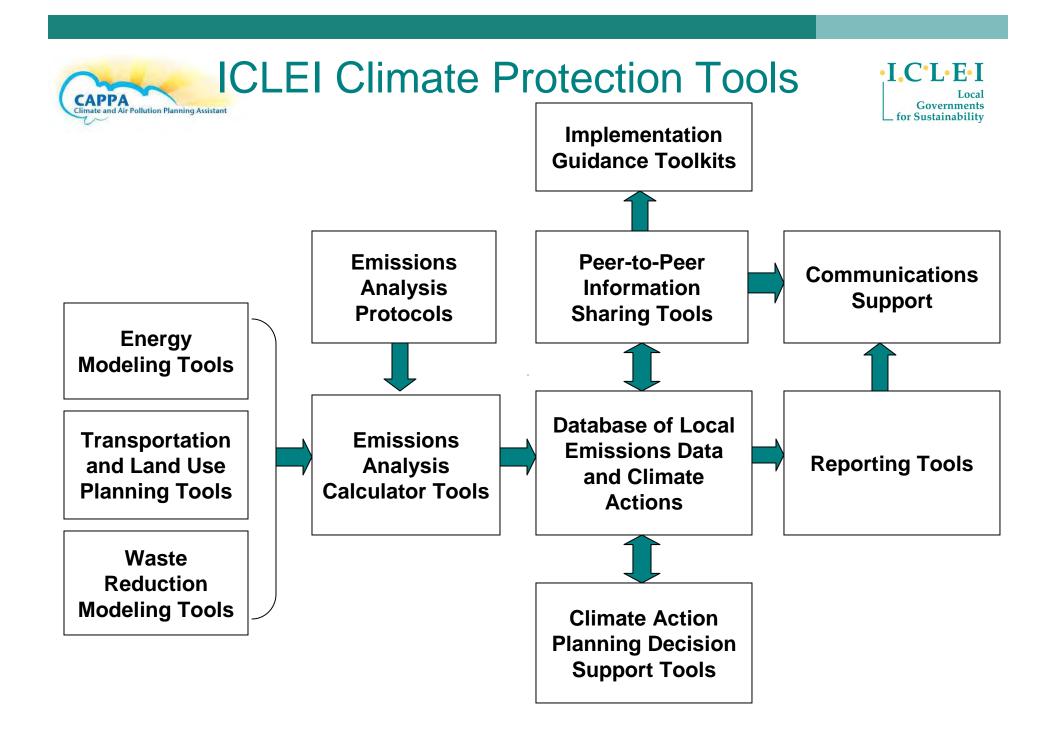
- I. Why was CAPPA developed?
- II. Acknowledgements
- III. Detailed Walk-through of Web CAPPA
- IV. The Web CAPPA beta test
- V. Review of Important Points
- VI. Q&A



The ICLEI 5-Milestone Process







Create a Comprehensive Emission Reduction Plan



- Step 0) Optional Create a spreadsheet to record the results of different scenarios that you run
- Step 1) Enter results from your inventory and target setting process
- Step 2) Express the relative importance of 6 decision criteria to you
- Step 3) Customize performance assumptions
 - Degree of implementation
 - Automatic include/exclude
 - Performance data this has been defaulted based on our research
- Step 4) Choose the plan you want to create
- Step 5) Examine the resulting plan, modify, re-run the analysis, use as starting point for discussions



How CAPPA Calculates the Strategy Score



For each Strategy, take the Average of Criteria Weight x Strategy Performance for all Decision Criteria

• $[(W_1 \times P_1) + (W_2 \times P_2) + ... (W_n \times P_n)]/n = Score$



The Action Plan Report Page



- Is there anything on the list that shouldn't be there? Or, is something missing that should be on the list?
- Not sure what a strategy is?
- Is double counting occurring?
- Are any strategies accounting for too much or too little emissions reductions?



Limitations of CAPPA for this Beta Launch



- Near and Medium term emission reduction plans
- Not intended to replace more complex analysis/models
- All results should be vetted and analyzed before including in a plan
- All default assumptions should be customized



Limitations of CAPPA for this Beta Launch



- Calculators
- Emission Factors
- There might be a bug or two
- Minor changes will be made during the beta period



The Web CAPPA Beta Launch



- October 16 January 15
- Commitment from Users to use CAPPA
- Introductory Webinar
- ICLEI staff members available for answering questions
- Survey and a phone call at the end



Web CAPPA Support



California

SF Bay Area: Jonathan Strunin

Chico, Davis, Contra Costa

County: Alden Feldon

Southern California: Alison Culpen

Central Valley and Marin County:

Wesley Look

<u>Northwest</u>

Justus Stewart

Midwest and Western States

Xico Manarolla

Northeast

Pennsylvania: Missy Stults

Vermont: Courtney Forrester

Mid-Atlantic

Megan Wu

Southeast

Eli Yewdall

South Central

Sarah Weingarden

Email: First.Last@ICLEI.org



Review of Important Points



CAPPA can help you:

- Learn more about emission reduction strategies that you might want to implement
- Estimate the cost implications and emission reduction benefits of implementing individual strategies
- Weigh the trade-offs between decision criteria
- Identify a mix of emission reduction strategies that will allow you to meet your emission reduction target
- Choose an appropriate emission reduction target









Local Action Moves the World www.icleiusa.org

DRAFT CLIMATE ACTION PLAN OUTLINE

			Est. Timeline
I.	INTRO	ODUCTION	8/1/09
II.	EXEC	CUTIVE SUMMARY	8/1/09
III.	BACK A. B. C. D. E.	U.S. Conference of Mayor's Agreement AB 32/SB 375 ICLEI Milestones/Software GHG Inventory 25% GHG Emissions Reduction Target	6/1/09
IV.	EMIS	SION REDUCTION MEASURES IMPLEMENTED SINCE 2005	4/1/09
V.	ESTA	BLISH EMISSION MEASURES PRIORITY CRITERIA	3/16/09
VI.	FUTU	RE ACTION PLAN COMPONENTS/MEASURES:	6/30/09
	A.	Energy Efficiency/Renewable Energy	
	B.	Water Conservation/Recharge	
	C.	Transportation Planning	
	D.	Waste Reduction and Recycling	
	E.	Urban Forestry/Carbon Sequestration	
	F.	Sustainable Land Use Planning	
	G.	Green Building	
	H.	Community Outreach/Education 1. Sierra Nevada Event 2. Public Workshop	4/26/09 6/09
VII.	IMPL	EMENTATION PLAN	8/1/09
	A.	Recommended Actions	
	B.	Cost Estimates	
	C.	Funding Plan	
	D.	Timing/Implementation Schedule	

Sustainability Task Force Draft Work Plan 2009

Projects to schedule Update Council Work Plan 2009-2010

February	Kate start Climate Action Plan (CAP)
February 2	Work Plan update to Sustainability Task Force (STF)
February 18	STF Set Priorities for CAPPA Software
March	
March 2	STF Adopt Priorities and Begins Discussion of CAP Measures
March 16	General Plan Stakeholder Meeting with STF
April	Sierra Nevada Brewery Solar Celebration – April 26
	Focus The Nation
	Conversation Cafes
	Emission Reduction Measures Since 2005 Completed – April 1
April 6	STF Complete Sustainability Indicators
	Introduce Sierra Nevada Celebration Conversation Cafes
April 20	Finalize Sierra Nevada Celebration Conversation Cafes
April 26	Sierra Nevada Brewery Solar Celebration
May	General Plan Stakeholder Meeting?
May 4	
May 18	
June	Future CAP Components and Measures Drafted – June 30
June 2	
June 15	Public Workshop on CAP (evening meeting?)
July	
July 6	
July 20	
August	Draft CAP Completed – August 1
August 3	STF Reviews Draft CAP
August 17	STF Reviews Draft CAP
September	
Sept 7	STF determines recommendations for Council approval
Sept 21	

Ann's Sustainability Goals 2009

Mayor's Awards Business Green Rating System

Sustainability Task Force member volunteers needed!

Volunteers from the Sustainability Task Force are needed to facilitate discussions centering on Chico's sustainability efforts now and in the future. Two events occurring in the month of April provide the Sustainability Task Force opportunities to reach out into the community to gather feedback on the indicators for sustainability we are developing and discover additional suggestions.

Volunteers would present the work of the Task Force through a power point (which will be prepared for you) and facilitate small group discussions focused on indicators for sustainability. Total time commitment for either event would be 2 hours.

The two events are:

Saturday, April 18, 2009 (afternoon) Focus the Nation at Chico State

Sunday, April 22, 2009 (afternoon) Sierra Nevada Chico-Fest at Sierra Nevada Brewery

Let me know if you are interested in participating in this outreach project and which day(s) you would be available.

				GENI	ERAI	L PL	AN E	LEME	NTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
Planned and Balanced Growth and Conservation.											
a.											
b.											
c.											
d.											
e.											
2. Healthy Environment with a Reduced Ecological Footprint.		II									
Air Quality / Greenhouse Gas Emissions		-									
a. Improve intersection traffic flow (roundabouts, synchronized signals)											
b. Increase traffic calming measures											
c. Decrease vehicle idling (post signs/educate at businesses & schools)											
d. Reduce number of drive-thrus											
e. Increase motorcycle parking (bicycle parking convenience/security?)											
f. Improve indoor air quality (ie. Low VOCs, carpet/drapes, cleaning supplies, etc.)											
g. Green building concepts											ì

				GEN	ERAI	L PL	AN E	LEME	ENTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
h. Add amenities for bicyclists (water fountains, showers, etc.)											
i. Evaluate vector control measures											
j. Decrease dust/particulate matter (leaf blower ban?)											
k. Incentives/education to reduce gas powered equipment (2-stroke)											
I. Tree preservation ordinance/policy											
Water Quality											
a. Implement storm water protection measures/education											
b. On-site pretreatment/treatment											
c. Pervious concrete?											
d. Bioswales											

				GEN	ERAI	_ PL/	AN E	LEME	NTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
3. Strong Local Economy with Diversified Employment Base and Reliance on Loc	cal Business	II									
a. Grow locally owned businesses											
b. Increase the number of jobs available											
c. Grow businesses that compliment or use local resources (i.e. Smuckers)											
d. Recruit and promote locally owned banks and reinvestments											
e. Encourage businesses and back to offer/accept "scripts" or local debit cards											
f. Promote cooperative or shared services											
g. Reduce the cost of doing business in Chico											
h, Encourage or incentivize outside contractors to use local labor and materials											
Conserve productive or prime soil ag land											
j, Develop and a train skilled work force											
k. Develop affordable or "work force" housing											
Develop wages based on a cost of living index (Santa Monica example)											
m. Promote "green" businesses and institutions											
n. Increase economic diversity in both numbers and types of jobs											
o. Reduce unemployment rate											
p. Research capturing on-line service taxes/revenues											

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General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
4. Resource Protection and Enhancement.											
Water		<u> </u>									
a. Increase outside water use efficiency (i.e. native plants, xeriscaping)											
b. Increase inside water use efficiency (i.e. water efficient or waterless fixtures)											
c. Require water metering upon sale of older homes											
d. Increase water recharge through rainwater capture etc.											
e. Promote use of grey or reclaimed water											
f. Increase use of pervious concrete and other surfaces in developments											
g. Reestablish a balance between recharge and water use.											
h. Reduce parking lot run-off into storm drains											
i. Promote Bioswales											
Solid Waste/Recycling											
a. Reduce reliance on nonrenewable building materials											
b. Adopt a green building ordinance											
c. Adopt a construction/demolition recycling ordinance											
d. Encourage construction of a Materials Recovery Facility (MRF) at the landfill											
e. Increase tipping fees at the landfill to encourage reducing waste disposed											

				GEN	ERAI	L PL	AN E	LEME	NTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
g. Make trash service mandatory in Chico Urban Area (Butte County?).											
h. Establish single franchise or franchise zones for trash collection											
i. Establish ordinance to ban plastic bags and polystyrene take out packaging.											
j. Promote the use of reusable materials in the local economy (i.e.											
k. Promote businesses that use recycled materials (RMDZ)											
Increase multifamily recycling levels											
m. Increase commercial recycling levels or make recycling mandatory											
n. Increase greenwaste and food waste composting or digestion.											
o. Consider establishing a volume based solid waste collection rates											
p. Provide for bulky waste reuse or collections to decrease illegal dumping											
q. Provide more convenient community recycling locations											
Energy											
a. Require homes to be upgraded to minimum energy standards upon resale											
b. Install electric vehicle charging stations											
c. Collaboration of renewable energy generation & use between public/private entit	ies										
d. Explore AB 811 - Special assessment for renewable/efficient energy projects											
e. Require motion sensors/automatic turn off in commercial/public buildings											

				GEN	ERAL	_ PL/	AN E	LEME	NTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
f. Evaluation of lighting efficiency (shielding unefficient lighting etc.)											
g. Education regarding solar activated sensors											
5. Enhance Chico's Character and Identity.		n									
6. Livable Neighborhoods as Community Foundation.											
7. Development Patterns that Offer Alternatives to Automobile Use.											
a. Promote cooperative and shared services (i.e. child care facilities)											
b. Decrease per capita vehicle miles traveled											,
c. Increase number of bike lanes, paths and routes (priority on Class I)											
d. Increase safe routes to schools/destinations											
e. Reduce travel time by providing more convenient and closer destinations											
f. Promote higher housing densities along transit corridors											
g. Use more efficient transit routes and vehicles											
h, Increase in peripheral parking lots (i.e. park and rides) that connect to transit											

				GEN	ERAI	L PL	AN E	LEME	NTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
Provide incentives to employees/students to use alternative transportation (i.e. I, require busing for Form 10 students)											
j, Improve connectivity between neighborhoods and development											
k. Increase number of neighborhood parks											
Develop a clear and reinforced urban boundary											
m. Develop more neighborhood cores											
n. Install more bike racks and diversify the styles and locations											
o. Install more public water fountains to encourage biking and pedestrians.											
p. Install more bus shelters											
q. Increase the urban forest											
Provide safer sidewalks and more pedestrian and bike friendly street lighting r. (i.e. reduce glare)											
s. Use ground level solar lighting on sidewalks and pedestrian corridors											
Develop incentives or disincentives to increase the use of alternative t. transportation											
Encourage businesses to provide delivery services or incentives to not drive to u. their stores/locations.											
v. Build/rebuild "complete" streets streets to allow safe space all users.											
x. Narrow street widths to 9 feet for motorized vehicles.											
y. Build Bicycle Boulevards one lane or shared lanes with planters etc.											

				GEN	ERAI	L PL	AN E	LEME	ENTS		
General Plan Guiding Principles and Sustainability Indicators	Target	Land Use	Community Design	Transportation	Sustainability	Economic Development	Noise	Parks Public Facilities and Services	Open Space and Environmental Conservation	Safety and Safety Services	Downtown
z. Public Education on alternative and sustainable transporation											
8. Performance Based Service Standards and Resource Allocation for Sustainab	lity.										
9. Social Services and Systems for All Chico Residents.											
											i

Indicators Page 1 of 1

Linda Herman - Indicators

From: "McNall, Scott" <SMcNall@csuchico.edu>

To: "Linda Herman" <LHERMAN@ci.chico.ca.us>, "Schwab, Ann" <ASchwab@csuchico.edu>

Date: 1/27/2009 3:02 PM

Subject: Indicators

CC: "Pushnik. James" <JPushnik@csuchico.edu>

Ann and Linda:

I'd like to add my thoughts to the discussion about the development of indicators for sustainability. There is the old saw, "you get what you measure; so choose your measures carefully." To that I would add, "if you measure it; it will cost you." (And, if you want to measure change over time, you will have continuing costs.) While brainstorming allows for members of the group to get involved, I think it also has the potential for raising unrealistic expectations about what can be measured and changed.

I say this because of my involvement in campus sustainability efforts. It has and will cost the university a substantial amount of time and money to measure determine if we are "sustainable" and if we are making progress toward our goals. One full-time staff position is being devoted to the development of a new greenhouse gas inventory, the development of benchmarks, etc. (This does not count the person hours devoted to various agencies on water use, energy use, etc.)

So, my recommendation is to focus on data you already collect for the city, with the recognition that each additional measure comes with a cost.

If we had a clear understanding of where we want to go, that will also help us to sharpen the discussions. Maybe a reminder at the next meeting of what the committee's purpose is, and what our goals are, will help.

Just a suggestion.

Scott

ADDITIONAL SUSTAINABILITY INDICATORS

(SEE ALSO: U.S. MAYORS HANDBOOK)

1. Planned and Balanced Growth and Conservation

- a. Make conservation of resources the primary consideration
- b. Growth Locations
 - i. Growth strongly discouraged beyond currently urbanized or designated areas
 - ii. Growth only in locations conducive to efficient public services and infrastructure
 - iii. Prioritize residential development in mixed-use urban centers and on traffic corridors
 - iv. Residential development only in close proximity to commercial centers
 - v. Infill development that protects quality of existing neighborhoods

c. Building types

- i. Immediate: Require disclosure of energy use and efficiency measures on sale
- ii. Intermediate: Require passive solar orientation, increased insulation, shading, etc
- iii. Long-term: Green building incentives, requirements and education
 - (1) LEED standards for commercial, industrial, and city buildings.
 - (2) Green Point or similar standards for residential

d. Housing types

- i. Prioritize changing needs of smaller households and an aging population
- ii. Emphasize conservation in design, size, orientation, and materials
- iii. Emphasize housing affordable to median and below median income households
- iv. Reduce home sizes to conserve resources, energy, cost, and prices
- v. Diversified housing in all development, serving a broader range of needs

e. Conservation

- i. Permanent protection for natural areas, sensitive habitats, and riparian and wildlife corridors
- ii. Strict protection of recharge areas for groundwater, shallow aquifers, wetlands, and streams
- iii. Permanent preservation of agricultural soils, adequately buffered to maintain viability
- iv. Mitigation fees paid to offset development impacts on food production
- v. Cluster development along single-loaded streets near protected areas and farm land

2. Healthy Environment with a Reduced Ecological Footprint

- a. Overarching Policy: Adopt the Precautionary Principle
 - i. A "first do no harm" policy toward life support systems: air, water, land, soil, natural habitat, etc.
 - (1) E.g., preserve agricultural parcels for local food production and security
 - ii. Avoiding environmental impacts is always more sustainable than mitigation

b. Air Quality

- i. Set improvement goals e.g. 5% annual reduction of pollutants and CO2 emissions
- ii. Reduced vehicle idling and stop and go traffic
- iii. Reduced burning of wood, orchard prunings, and green waste in Chico's "airshed"
- c. <u>Greenhouse Gas Emissions (ALSO INSERT Energy Use from Resource Protection 4.d., below)</u>
 - i. Reduced overall energy use citywide and per capita e.g. 3% average per year first 5 years
 - ii. Increased household and business conservation practices and efficiency measures (both)
 - iii. Increased renewable energy percentage citywide and per capita
 - iv. Increased energy efficiency and renewables in new and existing buildings
 - v. Conservation incentives, including accelerating use fees and taxes for utilities and water
 - vi. Offsite measures to offset use of fossil fuels
 - vii. Percentage of high mileage, low emission vehicles in City fleet and citywide
 - viii. Electric vehicle use and charging stations in parking lots
 - ix. Increased composting, methane generation, and co-generation

- d. Water Quality combine with Resource Protection 4.a.
- e. Resource Conservation, Reduced Consumption
 - i. Educate and promote public, business, and personal practices to reduce waste
 - ii. Bulk purchasing and reduced packaging
 - iii. Local use of 100% postconsumer recycled or tree free paper

f. Toxic materials

- i. City, residential, business, and citywide purchase, use, and disposal
- ii. Hazardous waste sites, toxic groundwater plumes, and contaminated sites requiring cleanup

g. Heat Sinks

- i. Reduced percentage of unshaded paved surfaces citywide
- ii. Reduced unshaded paving in private and public parking areas
- iii. Number of shade trees planted annually
- iv. Number of private and street trees per capita
- v. Green roofs

h. Dark Skies

- i. Avoid new sources and reduce existing sources of nighttime glare from lighting
- ii. Locate and orient street and parking lot lighting primarily for pedestrian and cyclist safety
- iii. Emphasize low lighting to avoid glare and light spillage into unnecessary areas
- iv. Avoid lighting along open spaces where wildlife and nighttime views are significant

3. Strong Local Economy with Diversified Employment Base and Reliance on Local Business

- a. (After 3a) Promote businesses providing renewable energy and high efficiency goods
- b. (Modify 3b) Increase the number of living wage jobs available
- c. (Modify 3i) Conserve productive or prime soil ag land for local food production
- d. Conserve and manage fertile soils in developed and developing areas for local food production
- e. (Modify 3j) Develop, train, and retain a skilled work force
- f. Emphasize green job training and development for a transition to a green economy
- g. Decreased income disparity
- h. City staff residing locally
- i. Increase economic diversity
- j. Prioritize services and manufacturing for a more stable economic and tax base
- k. Increase wealth generated from non-building activities or independence from outside resources
- 1. Reduce role of retail sales and consumption as a measure of economic strength
- m. Reduce reliance on sales tax as a dominant source of City revenue
- n. Enhance opportunities for neighborhood and locally owned business
 - i. Facilitate zoning, permits and fees for small retail, e.g., under 5-10,000 square feet
 - ii. Restrict concentrations of big box, auto-dependent retail to present locations
 - iii. Cap new retail size to, e.g., 50-80,000 square feet
 - iv. Require a use permit for retail stores exceeding, e.g. 30,000 square feet
 - v. Restrict retail stores exceeding, e.g., 10,000 square feet to urbanized infill sites
 - vi. Reduce dependence on physical expansion for economic health
- o. Increase locally owned business as a percentage of gross sales
- p. Increase percentage of business utilizing local "waste" for added value

4. Resource Protection and Enhancement

- a. Water quality and quantity
 - i. Minimize stormwater runoff and enhance recharge of natural shallow aquifer
 - ii. Education and promotion of water efficiency and conservation
 - iii. Eliminate passive turf for landscape
 - iv. Eliminate dry weather runoff
 - v. Efficient irrigation systems and techniques
 - vi. Waterless and low flow fixtures and reuse of graywater
- b. Solid Waste/Recycling and Reuse ("waste equals food" concept)
 - i. Reduced conveyance of used materials to the landfill
 - ii. Reduced stream of "waste" (wasted) materials leaving the local economy
 - iii. Increasing percentage of recycled and reused materials
 - iv. Reduced use of single use water bottles
 - v. Recycling bins accompany waste receptacles in all public and commercial locations
 - vi. Monthly collection days for recycling of atypical plastic materials (e.g., PVC, hoses)
- c. Energy use (from stationary sources) MOVE under Greenhouse Gas Emissions above

5. Enhance Chico's Character and Identity

- a. Preserve Chico's "sense of place" between open foothills and orchards
- b. Preserve and enhance the compactness of Chico's urban form for walkability and less traffic
- c. Preserve and emulate the diversity and quality of Chico's older traditional neighborhoods
- d. Avoid homogenous development lacking widely diverse styles, sizes and prices
- e. Increase home ownership opportunities within neighborhoods for diversity and maintenance
- f. Increase commercial diversity throughout the community, adjacent to and within neighborhoods
- g. Improve downtown housing opportunities, enhancing the diversity of retail and services
- h. Reduce role of concentrated shopping areas, isolated from homes and offices
- i. Transitional planning to convert malls to urban villages
- j. Increased acreage of parks, greenways, and open space per capita
- k. Neighborhood and regionally appropriate vegetation

6. Livable Neighborhoods as Community Foundation

- a. Neighborhoods with intimate, shaded streets designed for a sense of community and safety
- b. Diverse but compatible home styles, sizes, and price ranges to serve widely varied needs
- c. Streets as walkable, multi-functional common areas, de-emphasizing primacy of automobiles
- d. Neighborhood focal points for interaction and play
- e. Close proximity of commercial, services, and recreation for walking and interaction
- f. Active living areas and porches facing the street for interaction with the street and neighborhood
- g. Minimal front setbacks with homes close to the street
- h. Garages set behind, well back, or eliminated to avoid the isolation of a wall of garages

7. Development Patterns that Offer Alternatives to Automobile Use

Consider making this #2 or #3 above because of its dominant influence on CO2 emissions

- a. Strong emphasis on compact and mixed use development, with firm urban boundaries
- b. No further urban expansion where not currently zoned for urban uses
- c. Inhibit auto speed through neighborhoods with narrow streets and street parking
- d. Narrow lane, single lane, or shared lane local streets where auto use is low
- e. Multi-use walkable, recreational neighborhood streets, de-emphasizing auto use (Dutch Woonerts)
- f. Bicycle boulevards, restricting and slowing auto access
- g. Safe routes to schools, school participation, parental education and involvement

8. Performance Based Service Standards and Resource Conservation for Sustainability

- a. City
 - i. Departmental goals and time frames
 - ii. Purchasing and reuse policies and practices
 - iii. Infrastructure priorities based on least necessary use of materials and economic resources
 - iv. Simplified street and drainage systems, emphasizing reliance on natural systems
 - v. De-emphasize role and convenience of auto use
 - vi. Reduced use of toxic materials
 - vii. Service level standards determined by priority and necessity, maintained or improved

b. Citywide

- i. Measure, monitor, maintain and improve streamwater quality, groundwater quality and quantity, air quality
- ii. De-emphasize resource use and consumption as a measure of economic vitality
- iii. Emphasize improved quality, rather than quantity (more may not be better or feasible)

9. Social Services and Systems for All Chico Residents

(Too narrow as the 3d leg of Sustainability, Rename? E.g., Social Equity and Human Dignity)

- a. Basic Needs Shelter
 - i. Homeless numbers and services
 - ii. Percentage and distribution of home ownership
 - iii. Percentage of income for mortgage or rent payments
 - iv. Affordable housing for special needs groups
 - v. Deed restricted affordable housing units
- b. Basic Needs Food Security
 - i. Nutrition levels and education
 - ii. Percentage of foods purchased, grown locally
 - (1) Stores and restaurants providing locally grown foods
 - (2) Programs to facilitate store and restaurant purchase of local foods
 - (3) Residents buying from farmers markets
 - (4) Households with gardens
 - (5) Subscribers to community supported agriculture (CSA) services
 - (6) Institutional commitments to using local organic foods
 - iii. School garden programs
 - iv. Permanently preserved farm lands and community gardens
 - v. City composting, land trust and educational programs supporting local agriculture
- c. Basic Needs Health and Health Care
 - i. Rates of respiratory and cardiovascular disease
 - ii. Nutrition, obesity and diabetes
 - iii. Infant mortality
 - iv. Childhood pregancy
 - v. Medical service and insurance availability
 - vi. Health education
 - vii. Attainment of state and federal air quality standards

d. Basic Needs - Public Safety

- i. Pedestrian and bicycle safety
- ii. Resident perception of safety
- iii. Incidents of abuse
- iv. Emergency response times
- v. Crime rates violent, nonviolent, economic crimes
- vi. Incarceration rates
- vii. Diversion and rehab services

e. Basic Needs - Economic Opportunity

- i. Average incomes
- ii. Unemployment, underemployment
- iii. Job security and satisfaction
- iv. Jobs gained/lost in community

f. Education

- i. Education and literacy levels
- ii. Graduation/dropout ratio
- iii. College graduate retention

g. Recreation

i. Parks or recreational facilities readily accessible to all locations

h. Human Dignity

- i. Incidents of discrimination
- ii. "Happiness quotient"

i. Civic Participation

- i. Voter participation
- ii. Participation in civic affairs or neighborhood organizations
- iii. Overall sense of empowerment
- iv. Volunteering