



Where the Future Comes From?



2 Policy 3
Regulations
Zoning/Guidelines





If you don't know the destination ... any path will get you there!

Zoning ordinance Guidelines Capital improvements Plan (CIP)
Redevelopment Plan



Stages of Sustainability

1.0 Think

2.0
Policy
&
Plans

3.0 Implementation

On the Ground

Benchmark Best in The World

Act

Capital improvements Plan (CIP) Redevelopment Plan Public and Private Sector investments eXtreme implementation Measurable Results





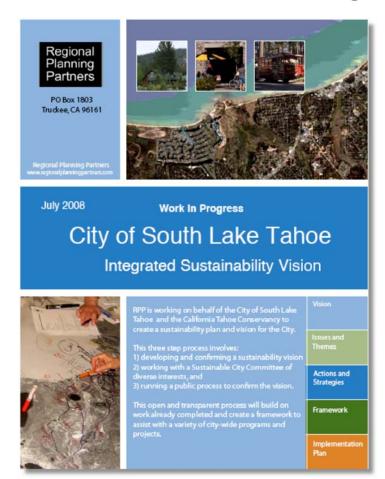


Key Elements of Sustainability 1.0



- 1. Vision
- Results orientation
- 3. Strategic financing orientation
- 4. Adaptability to changing conditions
- 5. Broad base of community support
- 6. Key champions
- 7. Strong internal systems
- 8. Sustainability plan with baseline condition

Sustainability Principles for the City of South Lake Tahoe





- 1) Green Infrastructure
 - Energy/Resource Usage
 - Waste Reduction & Recycling
 - Water and Stormwater Infrastructure
- 2) Complete Community
 - Neighborhoods, town centers
 and nodes, gateways & enhanced Places
- 3) Environmentally-Friendly Transportation
- 4) Vibrant Economy
- 5) Diverse Housing
- 6) Forest Health and Functional Open Space
- 7) Community Facilities and Programs
- 8) Healthy Food System
- 9) Green Buildings
- 10) Regeneration/Restoration





Vision for a Sustainable City of South Lake Tahoe

Looking back from the year 2028 – South Lake Tahoe has become a national story – successful because communities and public agencies made a concerted effort to invite investment that improved the region's competitive position and image while moving the City toward a more sustainable future. Gateways and places have been enhanced and Highway 50 has been transformed into an interconnected series of pedestrian-oriented mixeduse districts served by efficient and convenient transit and connected to adjacent neighborhoods. South Lake Tahoe has become nationally recognized as a bicyclefriendly community.

In 2028, South Lake Tahoe is an exceptional place where the prosperous year-round community thrives in harmony with the natural environment. The overwhelming presence of nature is apparent. The Lake is blue and clear, the air is clean, the ecosystem is healthy, and natural

ral sounds are evident. The City has increased its livability and prosperity, reduced the ecological footprint of its residents and improved human and ecological health by implementing key sustainability strategies. Within communities, the economy is strong and sustainable, the population diverse and vital, and the richness of everyday life is obvious. A vibrant and sustainable regional food system connects fresh, healthy, and local food to residents, grocers, casinos, and restaurants.

By 2028, the City has made significant advances toward sustainability that meets the needs of the present community without comprising the needs of future generations.

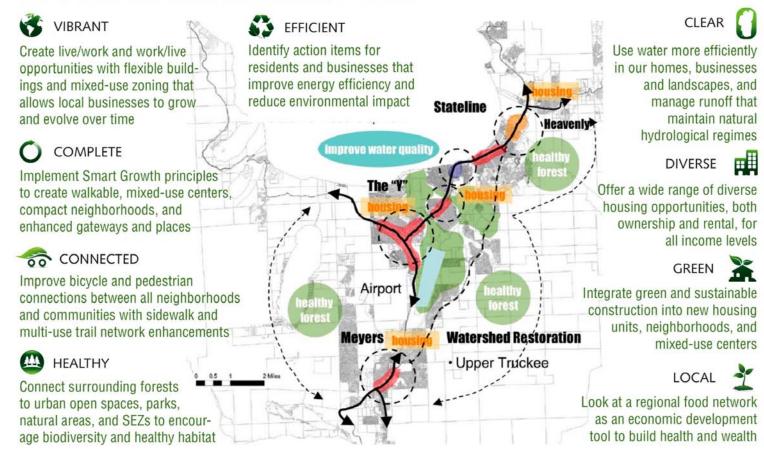
"Equity, Education, and Awareness will be the result of a partnership between the City, local organizations, and community leaders."







City of South Lake Tahoe Sustainability Priorities













DRAFT Tahoe Sustainability Framework - Climate Action Plan



Truckee, CA 530-277-0196

www.regionalplanningpartners.com

The Regional Climate Action Plan Framework includes programs focused on reducing greenhouse gas (GHG) emissions and climate change impacts. The concept of moving toward local and regional sustainability will emissions and crimate charge impacts. The contests of moving invaries occur and requires assistantially quide Regional policy, the EIP programs and projects. The long-term impacts of policy choices and projects will be considered to ensure a sustainable legacy and the necessary reduction in GRG. The following concepts are intended to provide significant benefits to multiple environmental threshold areas. By implementing these concepts, the Region will increase its livability and prosperity, reduce the ecological footprint of its residents and visitors, and improve human and ecological health.

Reducing GHG emissions is a shared responsibility involving both public land managers, local jurisdictions transportation agencies, land use planning jurisdictions at a regional and local level, businesses, visitors to the area, nonprofit organizations, and residents working together to minimize their impact. The public and private sector will need to work together to take action and make appropriate investments and changes in behavior. By implementing these priorities and actions the region may become a national leader in sustainability and proactive environmental planning



For Discussion Purposes Only

CLIMATE CHANGE ACTION PLAN

Critical areas related to climate change include awareness, protection, prevention, and adaptation. The EIF will create a broad framework of actions with supporting programs and projects to reduce GHG Emission and the impacts of climate change. The programs and projects are designed to guide and direct early action

The Regional Climate Action Plan framework outlines nine concepts that provide a starting point for sustainable decision making. The concepts were adapted from past visioning efforts, including Place-based Planning and Regional Visioning, the Regional Plan update, and the EIP. These concepts for dealing with climate change will help to inform regional planning, the EIP, and become a framework for decision making

Priorities include:

- preventing catastrophic wildfires, maintaining healthy forests, and harnessing forests to store carbon
 implementing adaptation strategies for water and vegetation to protect Lake clarity
- . creating a redevelopment and infill focus on more compact and walkable communities
- · improving environmentally-friendly transit
- · reducing energy use and increasing efficiency
- · reducing waste and improving recycling programs . focusing on sustainable site design, and green buildings.

New investment in the Region should "set the green bar high" and demonstrate leadership in sustainable design. Investment and redevelopment should be designed to last and encourage a focus on environmentally

- sensitive planning, including: Supporting "Green" transit (low and zero-emission transit)
- . Focusing on a mix of land uses that support transit use
- Emphasizing infill instead of Greenfield development . Using alternative energy sources and infrastructure investment
- Incorporating "Cradle to cradle" design solutions and green building for new construction
- . Planning for infrastructure that improves water and air quality
- . Developing a "Green" solution for undesirable forest fuels

Maintain Healthy Forests



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Watershed Restoration. Stormwater Management and Lake Clarity

DRAFT 3-17-09

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- emote the development and testing of innovative approaches to pollutant insure that capital funds open on evelet quality improvement are dedicated to priority projects that demonstrate the potential for the greatest pollutant

Invasive Species and Vegetation Management



China's Divisite to prevent aqualic invasive appoints from entering the Lake (e.g. boat proportion) and there evaluate approaches from the removal in extending aquatic measurement of the entering aquatic measurement of the entering application and the detail control and application and the detail of the entering and the detail of the entering and the detail of the entering and the entering and the entering and the entering and the vention to the financial control and the entering moved that the vention to the entering t

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Lake Tahon is currently impacted by inc squetic species that are likely to be favored by surmer water temperatures. Examples include base, Asian clams and Eurasian watermittel. The

Redevelop Existing Communities



Green Johs and Innovation to The designation of which the second of the s logery our urbanized areas with compact, walkable Support a Vibrant Year-round Economy



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- technology, ecotourism, energy efficiency, green building technology, arts, and science Continue philanthropic porsults that focus on solutions and
- Partner to establish green jobs lied to energy efficiency, and
- Parties to establish geen jobs tod to energy efficiency, and crimines change.
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 Expecial events that their properties with, science, humans and doubtables alterophics and for create a new for facilities.
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Reduce Energy and Resource Use

UPDATE MAP Main Street Transit

wal building and Resis businesses may want to Now the lead of the City of South Lake Tahos that is established a priority goal to

representation up to nine centers with improved pades and transf-ociented urban design that reduces dependency on the automobile Design for improved connectivity, walkability, and

dependancy Provide attendable housing solutions and a work-housing balance that reduces the need for comm

Reduce Green House Gas Emissions (GHO) and the City's Carbon Footprint by reducing energy doe in City facilities 15% by 2012. The City will complete an energy west and develop an action plan that will accomplish this goal.

- NOTE away from reliance on con-renewable sources of energy Develop a comprehensive strategy to reduce SHIS environments and climate impacts increase energy efficiency, reduce sensitions and support local, these and referenable energy sources shall away from reliance on non-renewable coverses.
- ncorporate climate change into general plans





Concept
in more rural destinations within proximity to a large population transportation in the largest contributor to the release of GHG. Dasso operatuables and recreational destinations should be servicially improved transportation system. Consolitation of auto-travely-improved transportation system. Consolitation of auto-travelly for both visitors and communities should be lacilitated by: orielated mised-use centers, codes, an neighborhoods. These streets would be tableved to make the needs of each community. Other neighborhood specific solutions would include improved sidewalks and trail connections. This shift is travel patterns would provide multiple endocramental improvements to as and water quality, and reduced GHG. Improved connections and mobility options would help.

- emissions and OMT.

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Urban Environmental Improvements

Lower Intensity

- Action

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 and recycling

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 and concepting of non-membrale insources

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- Use water more afficiently in our homes, busin
- and indeposages, and manage rands that meanment natural hydrological regimes. Develop an innovative water and weate water management strategy that considers water supply and breatment system. Reduce demand for postable water through water recycling.

Sustainably Besigned Communities, Places,

and Buildings

Vatershed

- Highway

- Promote efficient use of land and redevelopment infall with
- nodes
 Devision a green building strategy with local partners to
 encourage releversperient, compact heighthorhoods, relevaless centres and advisors energy efficiency, solid resign,
 hadder are quality, green roots, nater efficient flusters, est.
 Work with local county and city municipalities to:

 Insprived design reviews and and for specific said design
 performance manual excluding studies to demonstrate
 Personne green building skellers and incorporate energy
 efficiency are positive buildings and less proposed
 Promote inergy-efficient attached buildings in baren centers
 onder.

- node:

 Provide clear incentives for green buildings and considering phasing in the given rating system or LEED sentification.

 Create a Tahoe Specific Green Building program focusion key goints of certification important to the region.



Key Elements of Sustainability 2.0

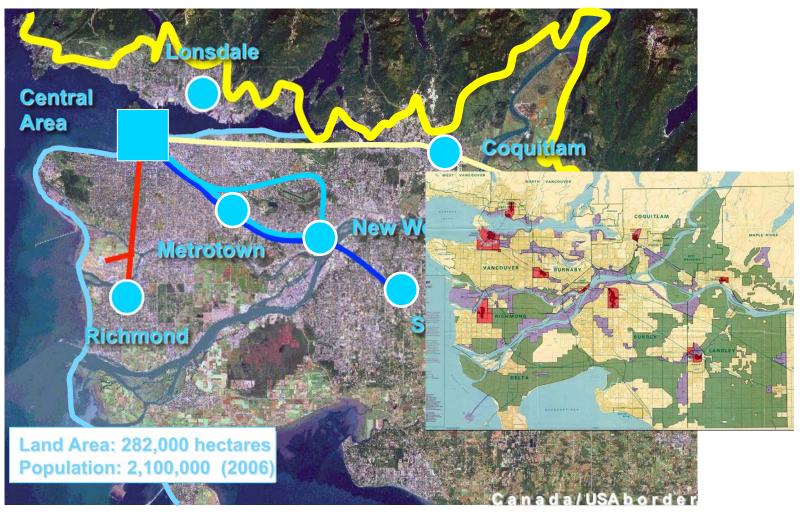
- 1. On the ground implementation
- 2. Integrated Systems and Decision Making
- 3. Government Restructuring?
- 4. Completed Cost Effective GHG reductions
- 5. Metrics and Tracking Systems in Place
- 6. Benchmarking
- 7. Living Documents that learn and evolve
- 8. Incentives and Competitions







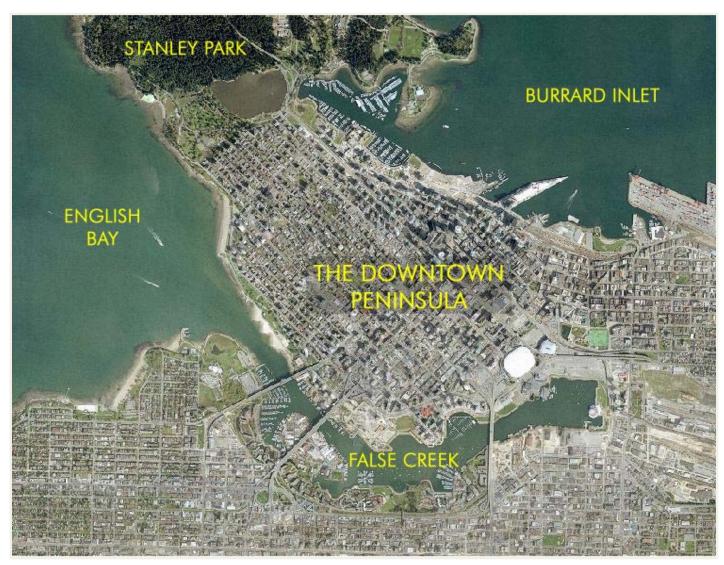
GVRD Regional Town Centres













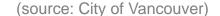


Vancouver

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EcoDensity Policy

"In order to become a truly sustainable city, we must do more to increase the densification of our neighbourhoods, and I am inviting all Vancouverites to participate in this initiative"





EcoDensity



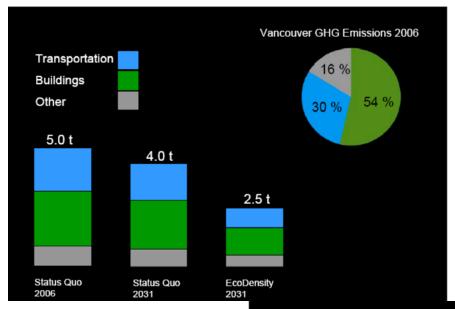
EcoDensity: The Three Wheels

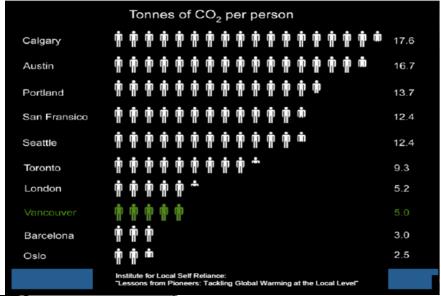


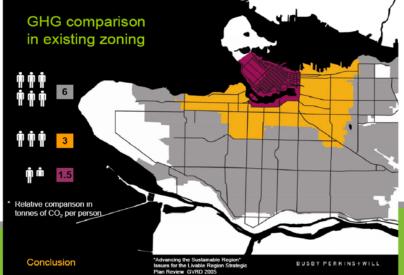




Total GHG Emissions with EcoDensity







(source: City of Vancouver)

Brent Toderian, MCIP Director of Planning

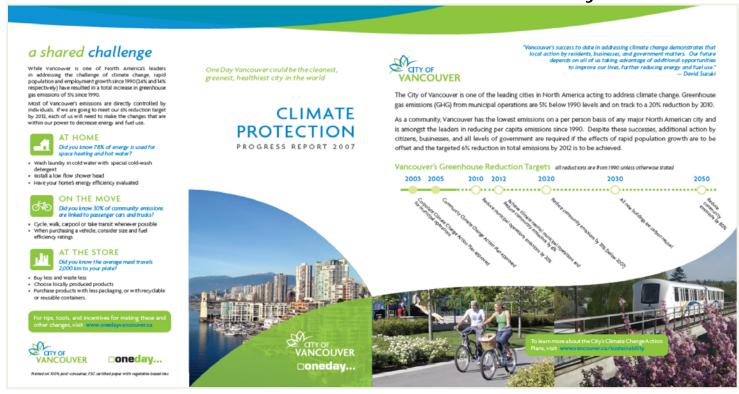


Community Climate Change Action Plan 2012 carbon neutral city

2012 carbon neutral city operations

2030 carbon neutral buildings

2050 community GHG emissions reduced by 80%





Ecological Footprint









One Planet Living

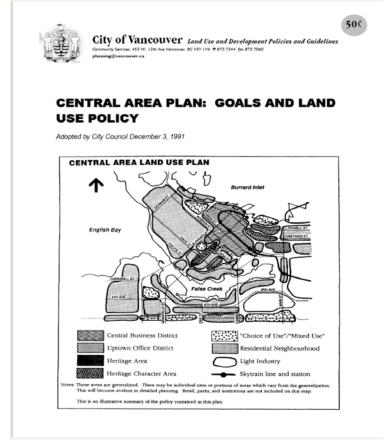




"Living First" and the Central Area Plan





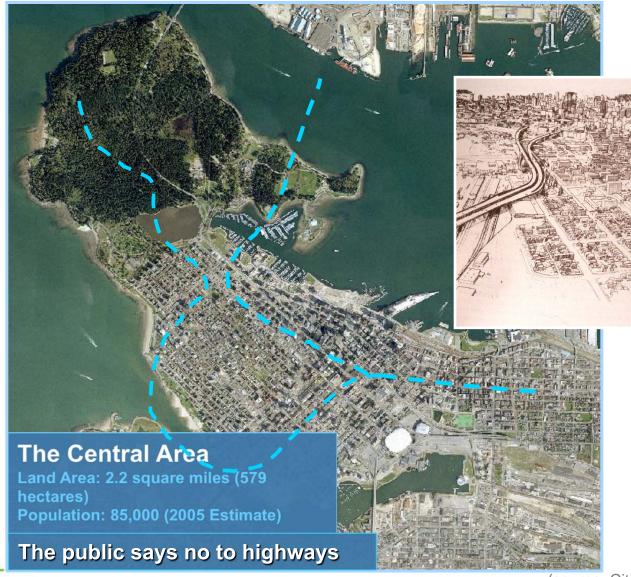








Sustainability through Livability





Livability is density done well







Movement







Livability is density done well









Amenities



(source: City of Vancouver)





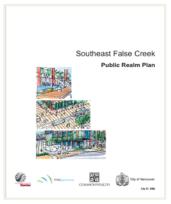
Surprise! Downtown living's fine for families - as good as the suburbs, these folks say



Meet the Huntleys, living happily in north False Creek. From left, mom Tanya; Simon, 13; Johnny, 6; Charlie, 2; Emma, 10; and dad Robert. They love the lifestyle and they're far from alone: Many say the mix of people - singles, seniors and families — as well as the amenities and the slow pace of life make downtown their choice. Find out why: Story, B1



New Project















Livability is density done well Done well, density can enable...

- Reduced energy use in buildings, getting around
- More green design options
- Less sprawl
- More affordable housing choices
- Public health
- Vitality, diversity, safety
- Etc

















Densify and Modify: Vancouver's Green Dream

By ALLISON GAGNON Special to the Foods Times

At a time when the concept of cli-mate change is endorsed by politicians and government officials, the word sus-tainability has become the catch-phrase

It seems just about everyone agrees thus something has to change. On February 22, the Cay of Vancout, and the other of the Cay of Vancout, and the other of the Cay o

aimed at strengthening the density in pre-existing residential neighborhoods with the added boms that both industrial and agricultural then will be protected from further development. "Vancouver's not a sustainable city. We need to stop pretending that we are gustainable and take action towards Vancouver's future itsobility," the city's Director of Pfanning, Beent Toderson, told reporters during a tour of Vancouver has Friede.

reporters curring a tour of vancou-lists Friday.

The plan outline states that if every-in the world were to live the way noouver residents presently do, the th's population would need four nets to sustain itself. According to





A map made for the EcoDensity initiative shows density is the lowest in the city's southwest

Density of Vancouver neighbourhoods

III High High medium WESTCOAST NEWS

City begins 4-month public discussion on density

VANCOUVER | Initiative will gather ideas, set new policies for neighbourhoods

southwest single-family neighbourhoods—its wealthies, idea fairs, and then policy precouncil-electing neighbourhoods—that are the going to be a focus
of Vancouver's efforts to reduce its ecological fortprint through
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Vancouver residents are about to find out what EcoDensity means for them, as the city launches its four-month public process to gather ideas and set new policies.

But if the map included in the city's EcoDensity package by the southwest single-family neighbourhoods — its wealthiest, cloancil-electing neighbourhoods.

or more suites results in more moderate-density housing, and the southwest. aim at the large amount of space devoted to single-family neigh-bourhoods as one of the biggest

square kilometres is dedicated to single-family zones.
"We are not a sustainable city and we can no longer pretend we are one." he said. "We do not have urban densities in the vast

majority of our city."

But he stayed away from talking specifically about the southwest, although it is the least dense and has a long history of

WESTCOAST HOMES ___

Vancouver city hall concerns shift dramatically



Regulators will be asking developers what their proposals will contribute to helping save the planet

Where's the affordability, livability?

EcoDensity politicization distracts from its merits

We're beginning to get the 'Eco' but what's Density?

Vancouver has head start on higher density



Smart growth must become more demanding, more community-oriented, and greener (literally)



Kaid Benfield
Director, Smart Growth Program, Washington, DC
Blog | About
Posted August 18, 2009 in Green Enterprise , Living Sustainably , Solving Global Warming













Actions

- Secondary suites within buildings (invisible density)
- Backyard laneway infill housing (hidden density)
- Ground oriented housing (gentle density)
- Arterial mid-rise housing







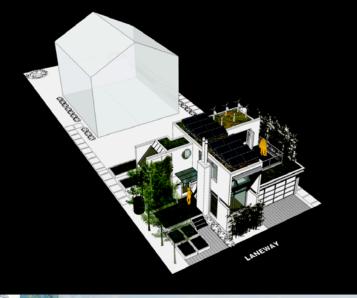
(source: City of Vancouver)

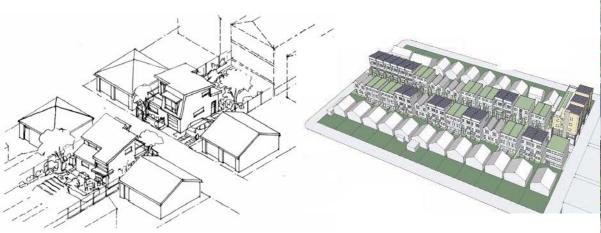




Laneway Housing











The Greenest City in the World by 2020:

Think you can do better?

- Urban agriculture
- District Energy
- Burrard Bridge traffic trial
- Car-free streets
- Bike sharing
- Green jobs
- Etc.











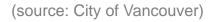






A Carbon Neutral City by 2030?







Stages of Sustainability

1.0 Think

2.0
Policy
&
Plans

3.0 Implementation

On the Ground

Benchmark Best in The World

Act

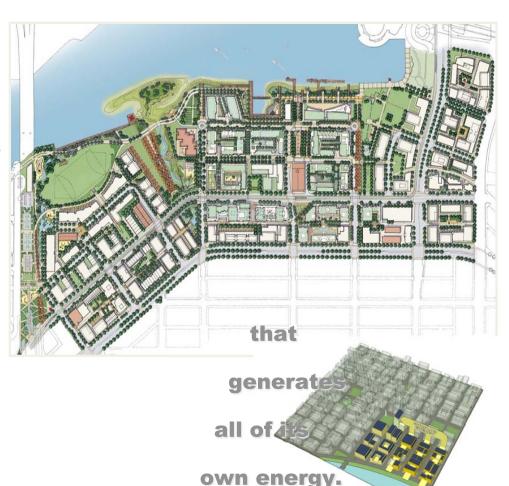
Capital improvements Plan (CIP) Redevelopment Plan Public and Private Sector investments eXtreme implementation Measurable Results



EcoDistrict Benefits - Sustainability 3.0

- District energy
- Solar orientation
- Passive energy solutions
- Urban agriculture
- TDM prioritizing sustainable modes
- Sustainable rainwater management plan
- Solid waste diversion strategy
- Affordability





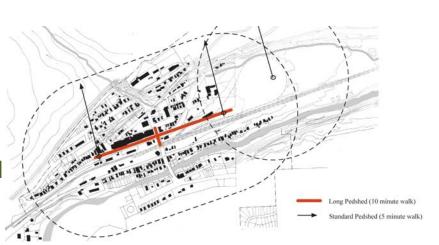


EcoDistrict Projects – Truckee Railyard

- District energy?
- Solar orientation by design
- Passive energy solutions
- Community based planning and design
- Sustainable Building Types preapproved
- Sustainable rainwater management plan & snow storage Plan
- LID
- Affordability







EcoDistrict Projects - Truckee Railyard

- Urban stream restoration
- placemaking
- 3 districts
- Brownfield cleanup
- Transit center
- Infill Redevelopment
- Expansion of grid
- Model LEED ND







EcoDistrict Projects - Nevada City, CA

- Downtown innovation center
- Commercial retrofit project
- Leadership





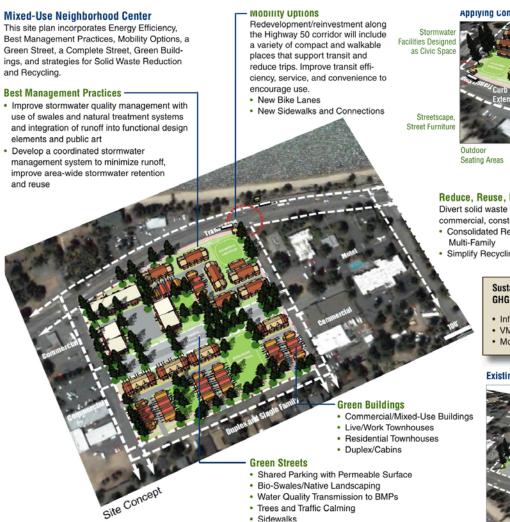
EcoDistrict Projects – UC Davis Expansion

- West Village
- Supported by a California Energy Commission grant
- West Village will integrate sustainable design into the site plan, infrastructure, and building designs to achieve a Zero Net Energy Goal
- energy-saving measures "smart grid" for generating, storing and distributing energy
- renewable electricity generated on-site
- Research, Demonstration and Leadership
- New Curriculum
 - Sustainability by Design April
 - Creating a Culture of Sustainability Fall
 - The Business of Sustainability 2011



EcoDistrict Projects — LTCC

Solar, geothermal placemaking 3 districts



Applying Complete Street Concepts to Highway 50

Lighting (low)

Reduce, Reuse, Recycle

Divert solid waste from the landfill including household, commercial, construction and site/forest clearing waste.

- · Consolidated Refuse/Recycling Facilities for Commercial/
- · Simplify Recycling with Curbside Household Pickup

Sustainable Planning and Design to Reduce **GHG** Emissions and Climate Change Impacts.

- · Infill/Redevelopment · Energy Efficiency
- VMT Reduction
- Green Buildings
- Mobility Options

Existing Conditions along Highway 50



EcoDistrict Projects - sandag?

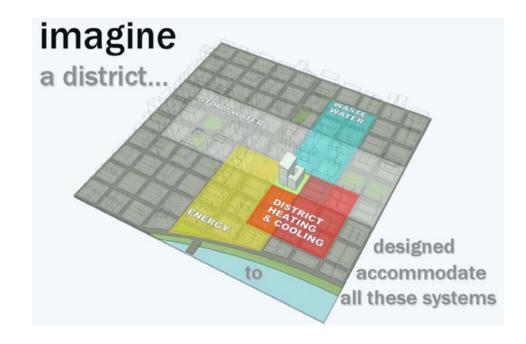
The EcoDistricts Program could implement mixed use and energy efficient redevelopment in a variety of your place types, including:

- Metropolitan Center
- Urban Center
- Town Center
- Community Center
- Rural Village
- Mixed Use Transit Corridor
- Special Use Center



EcoDistrict Projects — Vision California

- High Speed Rail Locations
- New and Retrofit
- High Performing districts and Neighborhoods
- 47 Pilot LEED ND projects in CA
- Only 3 Certified Stage 3
- Only 3-4 would meet Ecodistrict requirements as planned
- Integrated Systems approach





Sustainability Implementation

Finance model and feasibility

- Political feasibility
- Market feasibility
- Financial feasibility
- Microecodistricts built on the co-Housing finance model
- Small scale build to suit
- How do we create the systems for green infrastructure now to support projects that evolve over time?
- Sustainability by Site Design
- Cost effective green building solutions
- Phase in green building requirements going for gold - LEED certification





Cost Effective Green Building



PACIFIC GAS AND ELECTRIC COMPANY NET ENERGY METERING ELECTRIC STATEMENT THIS IS NOT A BILL

Service Dates: May 01, 2008 to June 02, 2008

Includes True-up period from Jul 2007 to Jun 2008

MCCAMANT, KATHRYN 507 REDBUD WY NEVADA CITY, CA. 95959



Rate Schedule: E W7PB/NEMS Account ID: 6653884881 Service ID: 6653884666

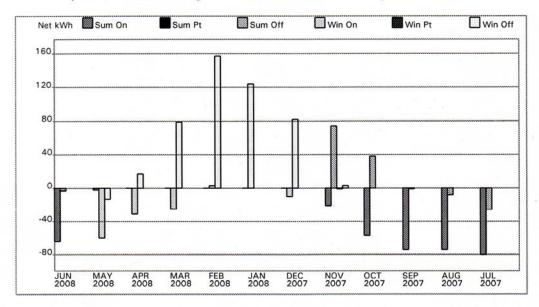
PAGE 3

ENERGY TRUE-UP HISTORY:

| ENERGY IRU | DE-UP HISTOR | (1: | | | | | |
|--|--|--|--|--|--|--|--|
| BILLING MONTH | BILL TO DATE | SUMMER ON | SUMMER OFF | WINTER ON | WINTER OFF | TOTAL ENERGY | ENERGY CHARGES /CREDITS |
| JUN 2008 MAY 2008 APR 2008 MAR 2008 FEB 2008 JAN 2008 DEC 2007 NOV 2007 OCT 2007 SEP 2007 AUG 2007 JUL 2007 | 06/02/08 05/01/08 04/02/08 03/04/08 01/31/08 01/03/08 12/03/07 11/01/07 10/04/07 09/04/07 08/06/07 07/05/07 | -64 -2 -21 -57 -74 -74 -80 | -3 0 74 38 -1 -8 -26 | -60 -31 -25 3 0 -10 -1 | -13 17 79 157 124 82 3 | -67 -75 -14 54 160 124 72 55 -19 -75 -82 -106 | \$-18.27 \$-7.54 \$-1.83 \$3.40 \$12.01 \$9.20 \$5.10 \$-45 \$-13.15 \$-20.68 \$-21.17 |
| TOTALS | | | | | | 27 | \$-77.50 |

\$-77.50

**Energy Charges/Credits (-) include all energy related amounts and taxes. Any negative amounts been in the "OTALS" row will not be applied to your next true-up period. This is because the net metering program was designed by the legislature for systems sized to customer usage on an annual basis. Currently approved tariffs and legislation provide that any financial credit associated with the program be used to offset current year bills, but neither result in a negative annual bill, nor be carried forward from one year to the next.





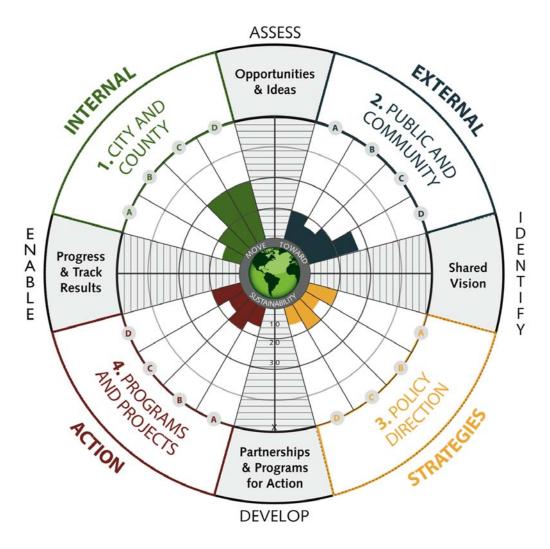


EcoDistrict Innovations - SymbioCity

- Design By Sweden
- Green Jobs
- Implementation Expertise
- What if we are successful?
- What does success look like?
- How far do we need to go and how fast?



SCS Adaptive Management Tool Implementing SB 375 – A Collaborative Approach





SCS Adaptive Management Tool



1.Internal



2. External





3. Strategies





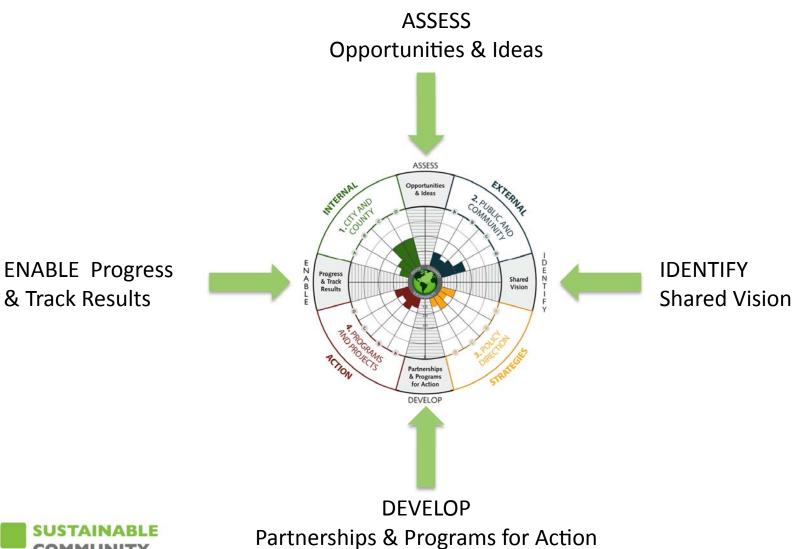


4. Program & Projects

- + Integrated Collaboration
- Assess Opportunities & Ideas
- Identify Shared Vision
- Develop Partnerships & Programs
- Enable Progress & Track Results



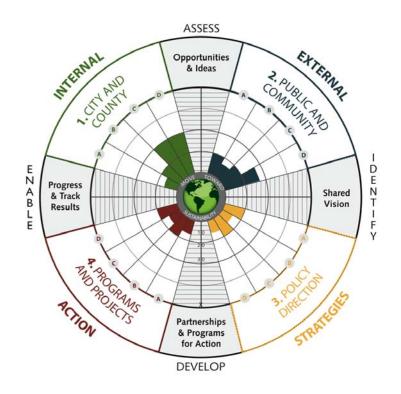
A Focus on Collaboration





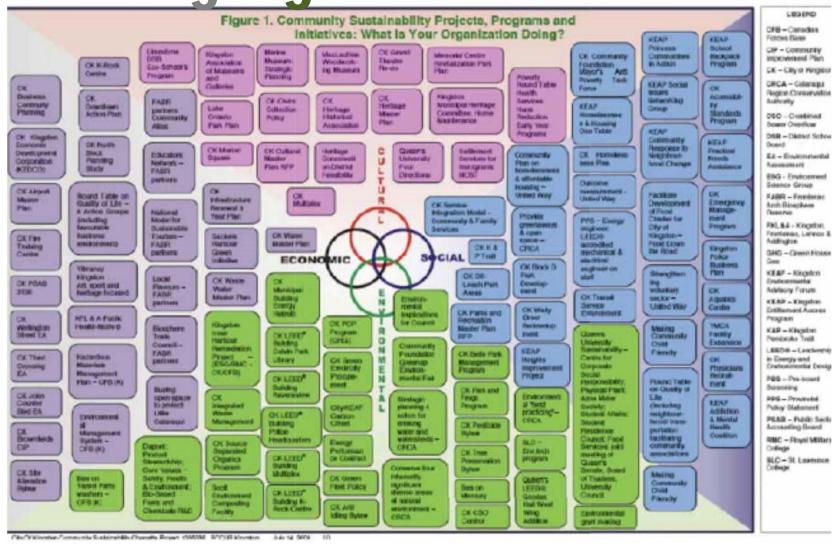
Creating a Culture of Sustainability

- Challenge: creating more cost effective sustainability in communities and organizations
- Challenge: shifting the organizational culture while developing and implementing the plan
- Opportunity: organizational alignment and potential restructuring of departments to be more efficient and effective



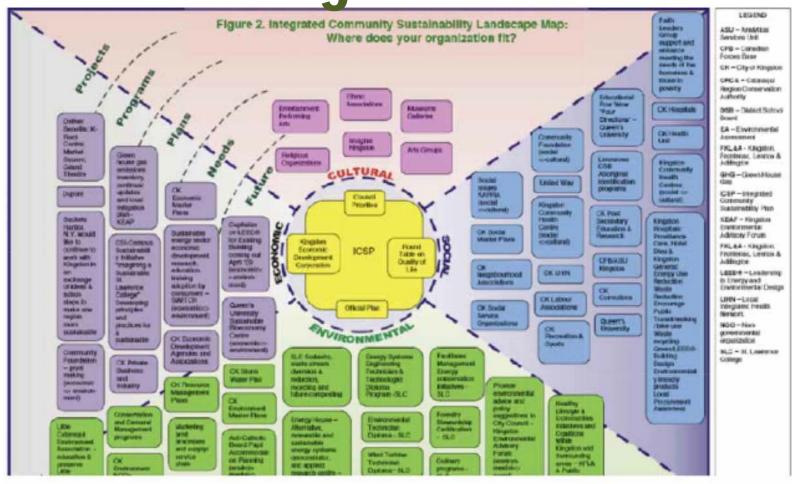


Existing Organizational Structure



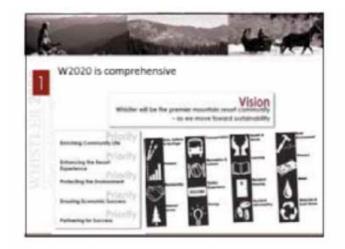


Streamlined Organizational Structure

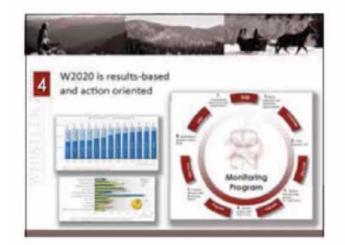


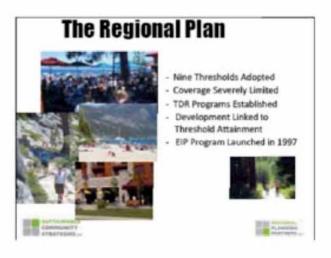


Metrics and Monitoring: Action Planning











SCS Sustainability Dashboard SM

A Comprehensive Sustainability Implementation Framework for cities, counties and regions which includes:

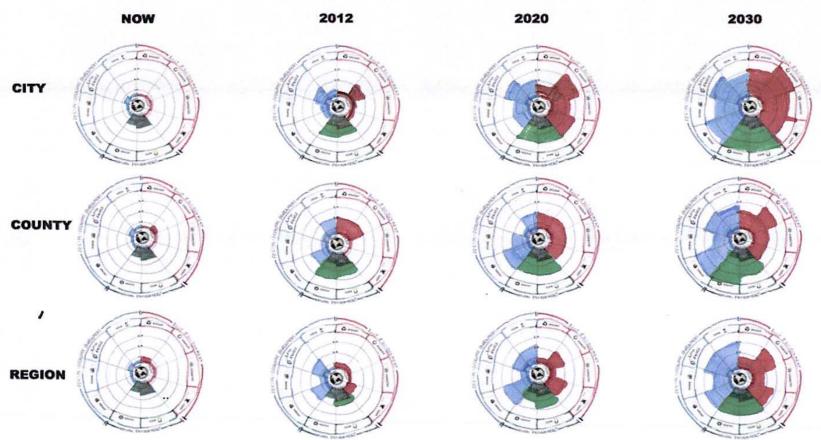


- adaptive management tools
- collaboration tools
- tracking and monitoring system
- benchmarking program



Progress Toward a Sustainable California An Integrated Approach to Implementing SB375

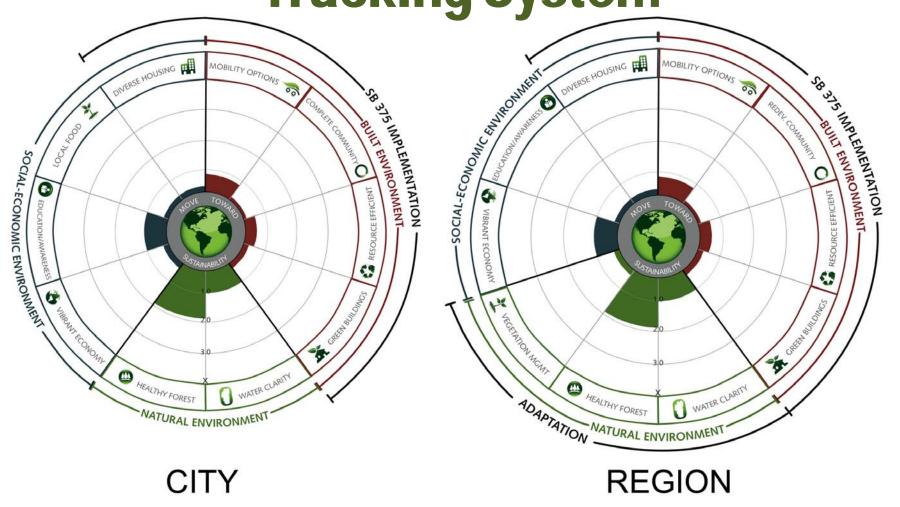




SCS Sustainability Dashboard SM



Implementation Framework & Tracking System





Stages of Sustainability

1.0 Think

2.0
Policy
&
Plans

3.0 Implementation

On the Ground

Benchmark Best in The World

Act

Capital improvements Plan (CIP) Redevelopment Plan Public and Private Sector investments eXtreme implementation Measurable Results

