

Low-carbon lifestyles and behaviours in Sustainable Communities

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Award-winning solutions to climate change























THE WAST'S NEW MAGAZINE

AIR BAGS: Will They Help You Survive "Fatal" Car Crashes?















Do we fit on the planet?













If everyone lived the lifestyle of the average American we'd need **5 planets** to support our consumption.











The average Canadian















ONE PLANET LIVING

is a 21st century lifestyle. Healthier. More social. Living within our fair share of earth's resources.

BioRegional can help you get there













Emissions Summary (tons CO₂/yr)



OK.

Why do we focus ALL our attention on buildings...

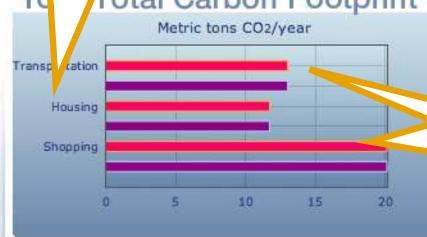
AL carbon footprint is 100% of comparable households, and 496% of the global average.

Output

Description:

I nese emissions are the equivalent of burning 104 barrels of oil, or driving 9 typical 25 mpg cars 10,000 miles per year.

Your Total Carbon Footprint



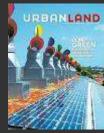
(metric tons CO2e/yr) compare?

When combined impact of Food+Transport+Shopping is 3x larger?

How does my Carbon Footprint

World Average Household





"BedZED's environmental achievements suggests that neighborhood-scale sustainable development can go much further than has been imagined in the USA."

Urban Land





These projects around the world have used the One Planet Communities framework in their design and construction. Developments with this logo are endorsed ONE PLANET COMMUNITIES. ENDORSED

Healthy eco-lifestyles. Zero carbon buildings.





"One Planet Communities will allow us to make a difference on a scale - and with the urgency - that all of us now know is absolutely necessary."

- Achim Steiner, Executive Director, UNEP



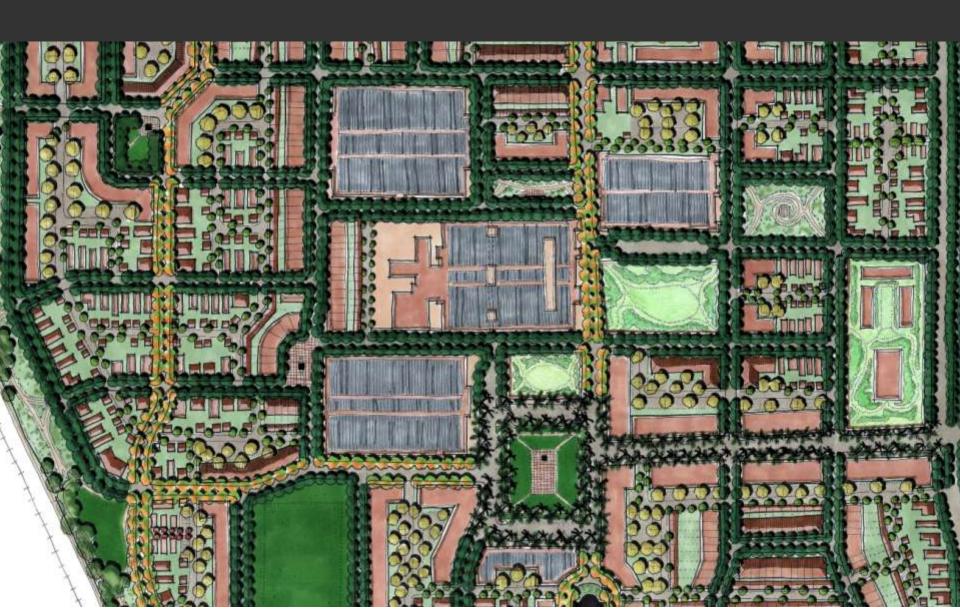








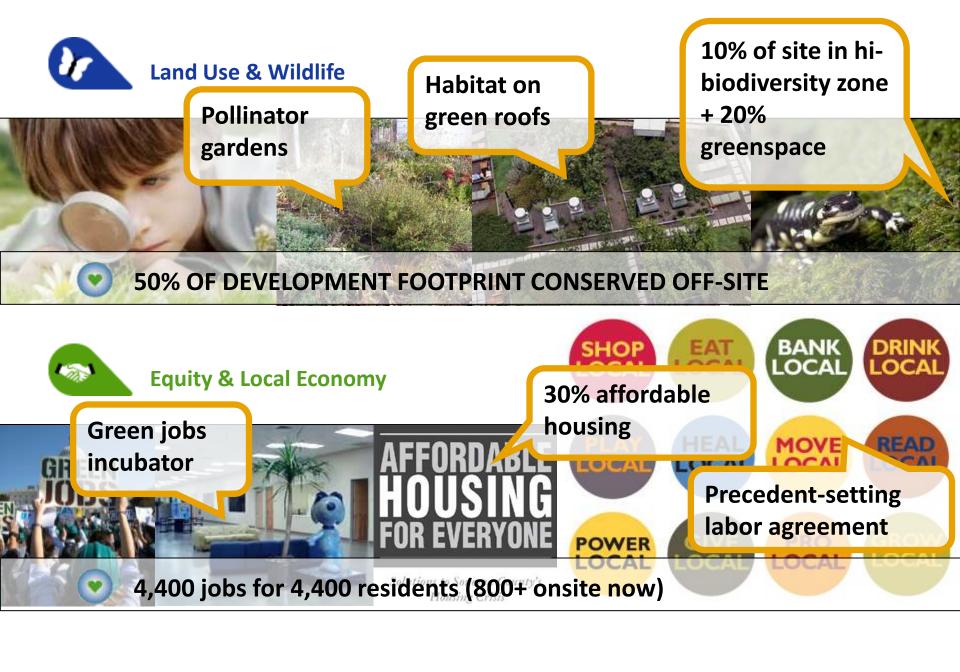
"Codding Enterprises, originally a developer of shopping malls, has reinvented itself into an innovative, large-scale green builder." - Forbes











How do we take low-carbon behaviors to massive scale?









Framework for ecoConcierge Program

- 1. Design for Sustainable Behaviors:Building Assessment + Enabling retrofits
- 2. Oversee hiring and training of EcoConcierge
- 3. Supporting partnerships with green service providers
- 4. Enabling "Delegated" Actions
- 5. Build Social Capital & promote fitness/wellness
- 6. Social Marketing & Education
- 7. Household Coaching and Formation of eco-teams
- 8. VERIFICATION : monitoring, assessment + feedback



Establishing new "defaults" in the built environment. Supporting sustainable behaviors with services & facilities. Target: 80% participation



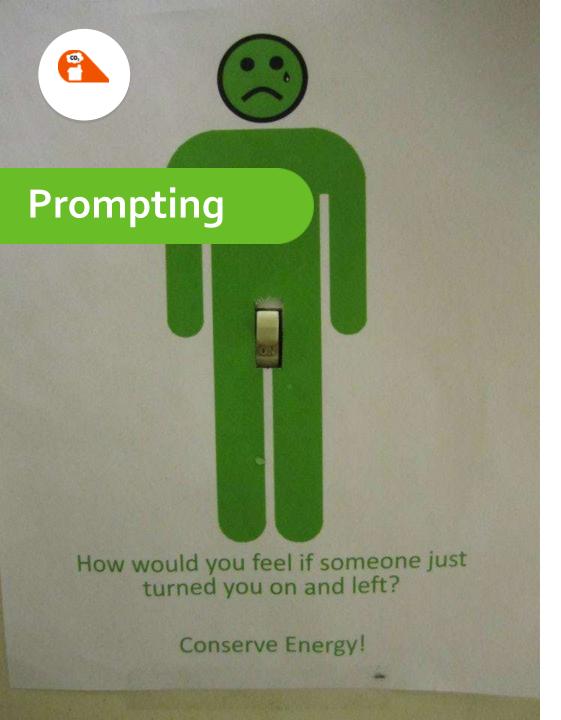
Building social capital, establishing new cultural "norms" and actively coaching for sustainable behaviors. Target: 25% participation



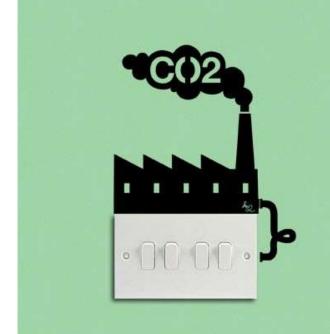


Elevators: the new "town hall"















hydroponic edible gardens for urban windows windows arms.org





Shifting 1 day per week from red meat and dairy to chicken, fish, eggs, or veg achieves more GHG reduction than buying 100% locally sourced food.

Changes in diet can save up to 1.6 tons of GHGs each year per person and protect against heart disease, cancer, obesity – and death!



MEAT EATER'S GUIDE

TO CLIMATE CHANGE + HEALTH

July 2011

By Kari Hamerschlag, EWG Senior Analyst www.ewg.org/meateatersguide





Low-Carbon Lunch

	ACEEE Conference Standard	BECC 2007	BECC 2009
Meat-Based Lunch	90-95%	83%	20%
Veg. Lunch	5-10%	17%	80%

















Making it as easy as possible to know what is allowed in recycling, composting

food · paper · napkins · paper plates · tea bags milk/juice cartons · paper cups · coffee grounds

compost







Finally, easy ways to dispose of CFLs, batteries, electronics, etc – the ecoConcierge takes care of it.

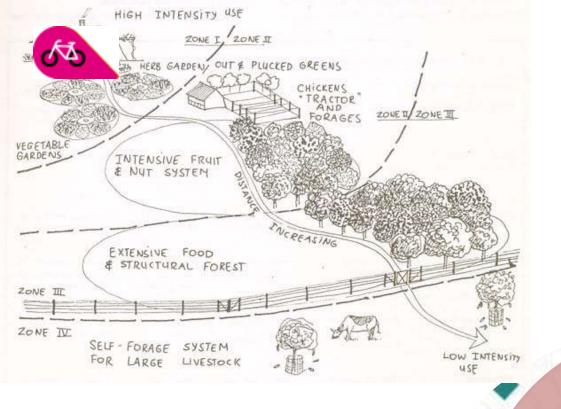




Cycle storage as art

Bike tools in parking garage makes maintenance easy





Make urban car-sharing more convenient than owning a private vehicle

Proximity!



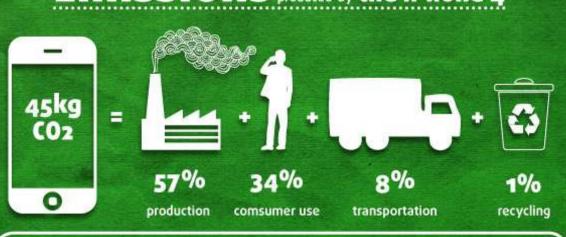
Monthly car & truck tire inflation by the ecoConcierge reduces wear & tear, extends life of tires & helps save the planet





3.3% efficiency increase in 200 automobiles = 36 tons CO2 saved

Emissions produced by the iPhone 4





iPhones purchased in 2010 contributed to 2350 million kg of CO2 being released into the atmosphere.

If all the iPhones sold in 2010 were charged once it would be equal to leaving a normal light bulb on for over 357 years.



The end of shopping?



Lo-tech infrastructure to get unwanted items to neighbors, charities and businesses that will put them to good re-use



Bent a car from someone nearby.

ient hourly rentals. Full insurance included.

Join Now

Or take the tour







NobHillMatrix
Toyota Matrix
San Francisco, California
\$8.75 / hour



isho
Subaru Impreza
San Francisco, California
\$10 / hour

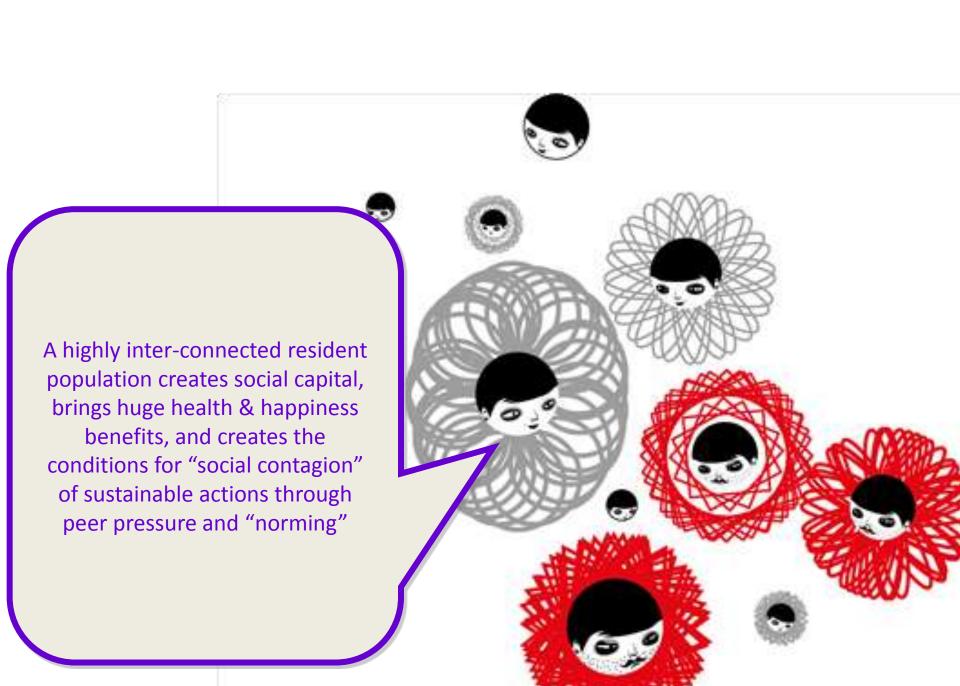






Lo-tech & hi-tech tools to get people sharing, participating in "collaborative consumption".





Film Night Monday 13th December 6-10 pm %

EcoConcierge helps organize and enlist residents in group activities.





Formation of eco-Teams

Groups of households that meet regularly





BioRegional employs the Empowerment Institute methodology for creating "Eco-Teams" which has been developed over 25 years of research. It has helped over 20,000 people reduce their environmental footprint by 25% and trained dozens of communities to implement this methodology.

Outcome: Projected GHG Savings

(sample 200 unit building)

ECOCONCIERGE

	Avg Footprint/unit (mt) Units	Parti	cipation Rate	Avg savings	Tons GHG Saved (mt)
General	49	200	25%	25%	612.5
Tires	0.18	300	80%	100%	43.2

655.7

ECOCONCIERGE YEAR 3

	Avg Footprint/unit (mt) Un	its Partio	cipation Rate A	vg savings	
General	49	200	66%	25%	1617
Tires	0.18	300	90%	100%	48.6

1665.6

BUILDING RETROFIT (CRUDE)

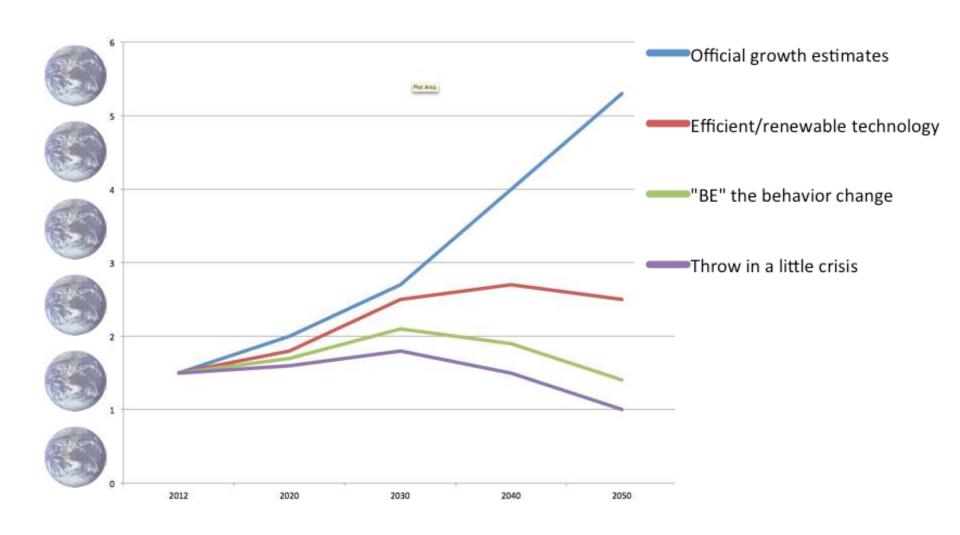
GHGs avoided /unit (mt) Units

General 4 200 800

800

1665 tons GHG saved = 300 cars off road

Imagine a global economy in 2050 that is 3-4 times larger than today...









www.oneplanetcommunities.org

