

Meeting: Metro Council Work Session
Date: Tuesday, March 29, 2011

Time: 2 p.m.

Place: Council Chambers

CALL TO ORDER AND ROLL CALL

2 PM 1. DISCUSSION OF AGENDA FOR COUNCIL REGULAR

MEETING, MARCH 31, 2011/ADMINISTRATIVE/ CHIEF OPERATING OFFICER COMMUNICATIONS

2:15 PM 2. SEVEN RULES FOR SUSTAINABLE COMMUNITIES -

15 MINUTE PRESENTATION FOLLOWED BY O&A

UNTIL 3:00

Patrick Condon, University of British Columbia

3 PM 3. COUNCIL BRIEFINGS/COMMUNICATION

ADJOURN

Agenda Item Number 2.0

SEVEN RULES FOR SUSTAINABLE COMMUNITIES

Metro Council Work Session Tuesday, March 29, 2011 Metro Council Chambers

METRO COUNCIL-DRAFT

Work Session Worksheet

Presentation Date:	March 29, 2011	Time: 2:15 p.m	Length: 45 minutes
(15 minutes of pres	entation followed by	y 30 minutes of discussion)	

Presentation Title: Seven Rules for Sustainable Communities

Service, Office, or Center:

Planning and Development in conjunction with the Sustainability Center

Presenters (include phone number/extension and alternative contact information):

Patrick Condon, University of British Columbia Professor of Landscape Architecture and author of several books on sustainability, design and development. His latest book is Seven Rules for Sustainable Communities.

ISSUE & BACKGROUND

Purpose: The purpose of this agenda item is to prepare Council specifically for the April 1 Climate Leadership Summit with the Metro Policy Advisory Committee (MPAC), the Joint Policy Advisory Committee on Transportation (JPACT), other elected officials and business and community leaders. The April 1 summit is the next step in a series of discussions and actions surrounding climate change and land use and transportation.

Background: In 2009, the Legislature passed House Bill 2001, directing Metro to "develop two or more alternative land use and transportation scenarios" by January 2012 designed to reduce greenhouse gas (GHG) emissions from light-duty vehicles. The legislation also mandates adoption of a preferred scenario after public review and consultation with local governments, and local government implementation through comprehensive plans and land use regulations that are consistent with the adopted regional scenario. The Climate Smart Communities Scenarios effort is Metro's way of implementing the policies these mandates require while also enhancing the region's already identified policy aspirations and goals included in the 2040 Growth Concept. With Senate Bill 1059, the Legislature in 2010 expanded scenario planning to include other MPOs in Oregon.

Metro's Making the Greatest Place initiative includes a set of policies and investment decisions adopted in the fall of 2009 and throughout 2010. These policies and investments are focused on six desired outcomes for a successful region, endorsed by the Metro Council and MPAC in 2008: vibrant communities, economic prosperity, safe and reliable transportation, environmental leadership, clean air and water, and equity. Making the Greatest Place includes the adoption of the 2035 Regional Transportation Plan and the designation of urban and rural reserves. Together these policies and actions provide the foundation for better integrating land use decisions with transportation investments to create prosperous and sustainable communities and to meet state climate goals.

The presentation by Patrick Condon and the ensuing discussion will provide an opportunity for a detailed conversation about how pursuing our well-established strategies and policy goals can help us meet carbon reduction goals. In fact that is the

focus of his latest book, *Seven Rules for Sustainable Communities: Design Strategies for the Post-Carbon World*. Condon writes specific, well-researched points accompanied by interesting historical context to create his argument: Changes in the design of our communities can achieve dramatic reductions in carbon emissions, improved livability, and the reduction of the cost of building and maintaining infrastructure systems.

Condon dedicates a chapter to each one of the seven rules:

- *Rule #1:* Restore the Streetcar City.
- Rule #2: Design an Interconnected Street System.
- Rule #3: Locate Commercial Services, Frequent Transit, and Schools within a Five-minute Walk.
- Rule #4: Locate Good Jobs Close to Affordable Homes.
- Rule #5: Provide a Diversity of Housing Types.
- Rule #6: Create a Linked System of Natural Areas and Parks.
- Rule #7: Invest in Lighter, Greener, Cheaper, Smarter Infrastructure.

Through a detailed description of each of his "rules," Condon demonstrates that it is indeed possible to create more compact, energy-efficient, pedestrian-friendly, and transit-served regions with green infrastructure systems that reduce resource consumption and pollution of all kinds.

Patrick Condon is a professor at the University of British Columbia's School of Architecture and Landscape Architecture and is senior researcher at the Design Center for Sustainability at UBC. He has practiced and taught in both the U.S. and Canada. He is the author of several books including *Design Charrettes for Sustainable Communities* (Island Press 2008).

OPTIONS AVAILABLE

Consider Condon's perspective and suggestions in scenarios policy discussions.

SUGGESTIONS

One chapter of Condon's book, "Restore the Streetcar City" can be found by following this link:

http://www.ubcpress.ca/books/pdf/chapters/2010/CondonSevenRulesForSustainableCommunitiesCh2.pdf

QUESTION(S) PRESENTED FOR CONSIDERATION

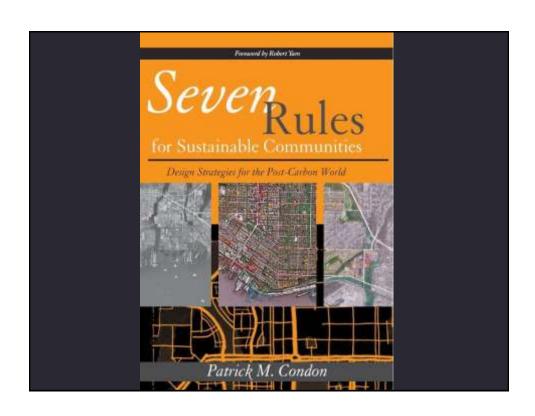
Possible questions for Patrick Condon:

- 1. How do your rules for sustainable cities apply to post World War II communities that are dependent on automobile transportation?
- 2. Can you recommend financial strategies for funding this work that you have deemed to be the most successful and explain why?
- 3. What development strategies have you seen that seem to offer the biggest bang for the buck? (Or the biggest impact for the effort required?)
- 4. What is your opinion on Metro's role in all this for the region?
- 5. What have you observed to be the biggest political challenges for implementing your rules? How were they overcome?

6. Are there success stories that you know of as a result of implementing some or all of your rules?

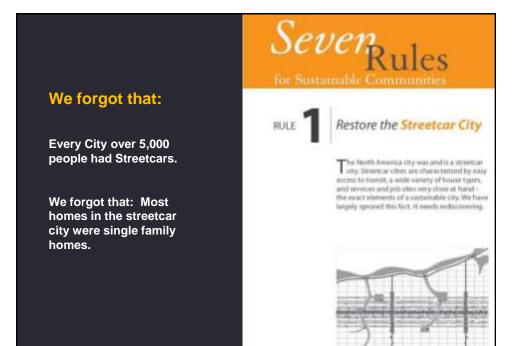
LEGISLATION WOULD BE REQUIRED FOR COUNCIL ACTION __Yes X__No DRAFT IS ATTACHED ___Yes ___No

Materials following this page were distributed at the meeting.



Ordering
Principles for
Sustainability:

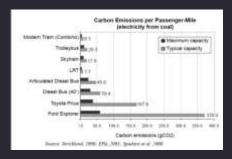




Restore the Streetcar City

To save the planet, transportation must be (nearly) zero GHG.

It also must be affordable.





We forgot that:

Interconnected streets provide many alternative routes if congested

Only two types of streets:

Residential streets

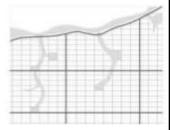
Streetcar arterials

Seven Rules

for Sustainable Communities



Fine-grain interconnected street networks ensure that all trips are as short as possible, dispense congestion, and are compatible with walking, taking, and transit.



We forgot that:

Five minute walking distance is a key feature of the streetcar city.

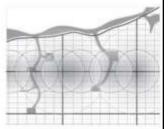
In the streetcar city the five minute walk merges into continuously accessible corridors.

Seven_{Rules}

for Sustainable Communities



People will walk if there is something to walk to. The most important walking destinations are the corner store and a transit stop. A minimum gooss density of ten dwelling units per acre is required for this is work.



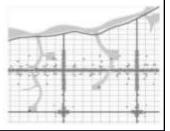
We forgot that:

The Streetcar city concept allows for many jobs close to corridors.

Seven Rules

Locate good Jobs close to affordable homes

The found toward ever longer commute distances for workers must be reversed. 'Good jets close to home' is a fundamental requirement. The west respority of new jobs in the United States and Canada are compatible with complete community districts.



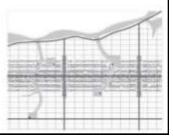
We accept that:

For slower transit to make sense affordable housing must be more evenly distributed in regions.

*Seven*Rules



Zoring laws have tended to segregate communities by income. Communities designed for only one income cannot be complete, and when repeated throughout the region, they add to transportation problems.



We know that:

Preserved Nature provides a natural interface to the streetcar city grid

Why?

For zero impact

For access to nature

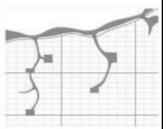
To bound and protect neighborhoods

Seven Rules

for Sustainable Communities



Reeping our streams and rivers healthy equities a rethinking of urban drainage systems and stream grutection. Maintaining the integrity of these systems must be a first design move when planning new communities. Far from protecting these systems through restriction, these systems must form the public space amature of new and estored communities.



We forgot that:

We spend too much on infrastructure.

Every dollar's worth of pavement produces a dollars' worth of environmental damage.

Work with natural systems not against them.

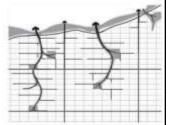
Seven Rules

for Sustainable Communities

RULE 7

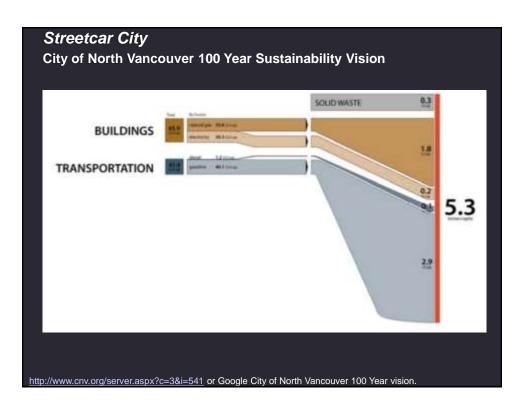
Invest in lighter, greener, cheaper, and smarter infrastructure

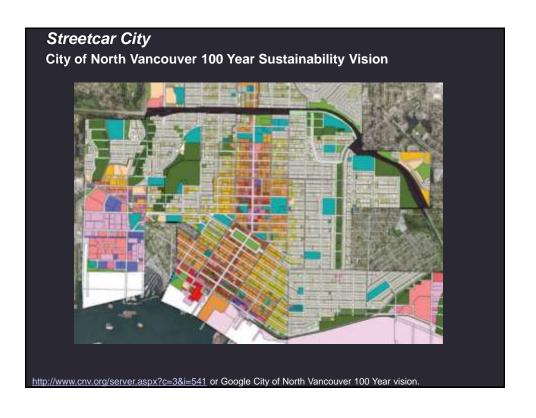
Suburban developments have at least four times more infrastructure per dwelling unit than do walkable streets; neighbourhoods. Exaggerated municipal standards for roack and utilities cost too much to build and maintain, and they destroy watershed function. Smartes cheaper, and greener strategies are required.

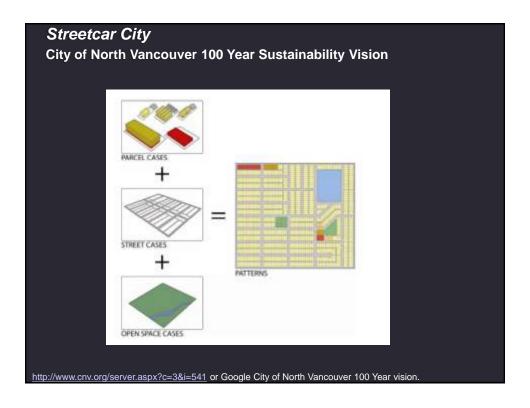


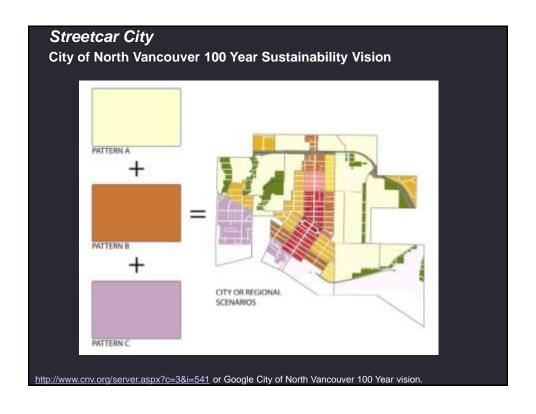




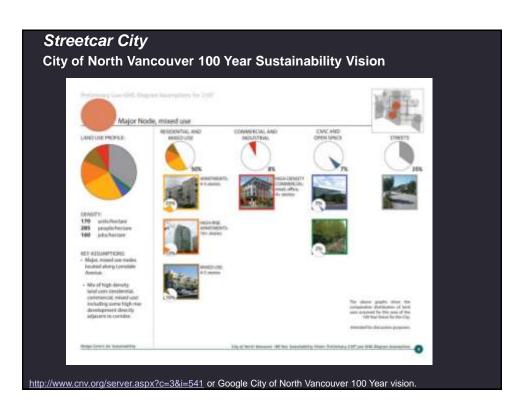






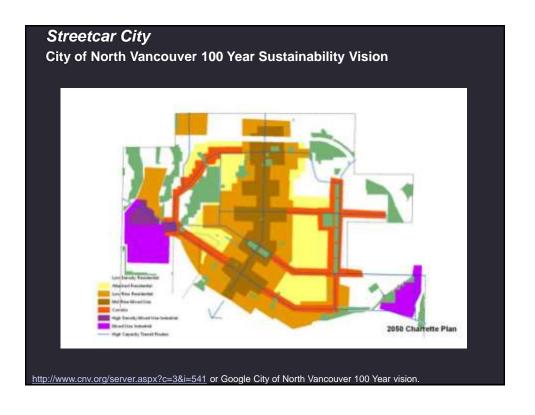






Streetcar City City of North Vancouver 100 Year Sustainability Vision http://www.cnv.org/server.aspx?c=3&i=541 or Google City of North Vancouver 100 Year vision.







Streetcar City

City of North Vancouver 100 Year Sustainability Vision

Table 3: Population and Employment - Baseline, Preliminary and Charrette Scenarios

Papalution Statistics	2007 Busclew	Proliminary 2059 Scenario	Prolledsary 2107 Sumario	Charrette 2107 Scenario
Population	40311	T2394	13000	141270
Employment Population	31760	46660	7167	(64490)
Population Deswiy (persona function)	39	61	107	134
Total Houselisids	22998	34322	25100	79563
Residential Density (units becture)	14	29	10	47
Assumed Assessi Growth Rate (%) (2007 - Turget Date)	24	1.1	1.3	1.1

Table 4: Residential Dwellings - Baseline, Preliminary and Charrette Scenarios

Residential Dwellings	2007 Benths			Treliminary 2050 Scenario			Profesion	ny 3107	Scenario	Charrette 2107 Scenario		
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Attached Boretonee	.1560	47	10.00	2528	. 1	86	5752		323	5579	4	163
Aparament «5 etonies	10261	46	nie	20277	.59	98	50017	47	387	45223	.57	341
Agention>5-mine	4636	21	11/0	8298	24	.79	17693	24	288	30008	39.	541
Total	22,698	700		34,322	750	- 55	75,734	7.00	240	79,565	100	268

http://www.cnv.org/server.aspx?c=3&i=541 or Google City of North Vancouver 100 Year vision.

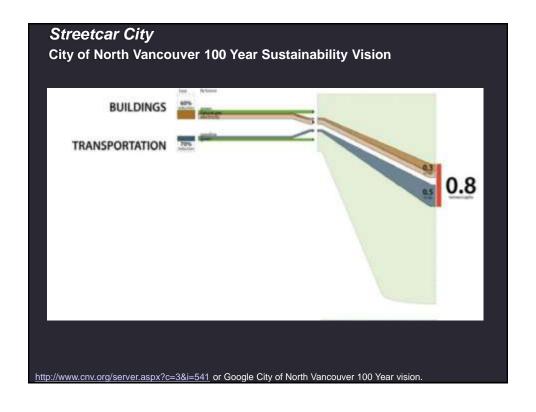
Streetcar City

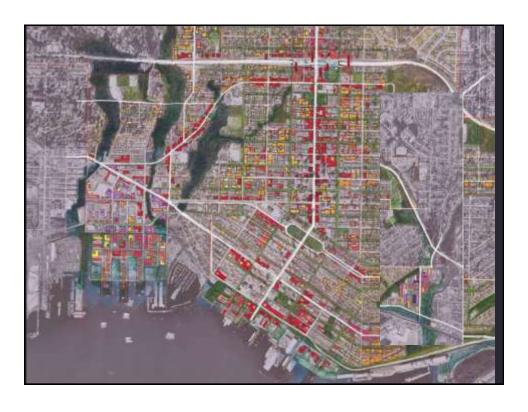
City of North Vancouver 100 Year Sustainability Vision

Table 5: Building Energy an	d Emissions Summary -	- Baseline and Preliminary	Scenarios.

Energy and Embalons	7	2107	Baseline	2020 Preliminary Securio					2307	307 Preliminary Scanario		
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Southwest	38585	2000	7552	47,599	3574	44957	513	91594		68220	4	
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Aparente of states	187926	71112	4000	4		87897	1.00	*	-	79.729		
Contractal	489,772	THT/933	39,111	276,685	75,456	293,433	6,233	418,319		300,211		
Sometimenal	209,316	194,250	11,441	60,829	33,316	45,212	1,317	64,713		7,890		
Industrial	30,004	(18,430)	0.210	18,647	- 0	60,599	179	1440	- 6	39		
Total	1.442.641	LAVEAST	95,574	A25,676	214,915	545,464	16,337	172,736	7,310	286,607	- 29	

http://www.cnv.org/server.aspx?c=3&i=541 or Google City of North Vancouver 100 Year vision.





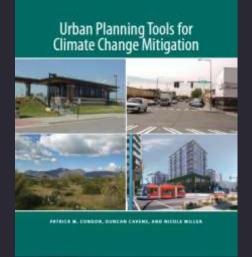
Streetcar City

City of North Vancouver 100 Year Sustainability Vision



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Planning for Climate ChangeModeling Tools for Public Officials.



http://www.lincolninst.edu/pubs/1573_Urban-Planning-Tools

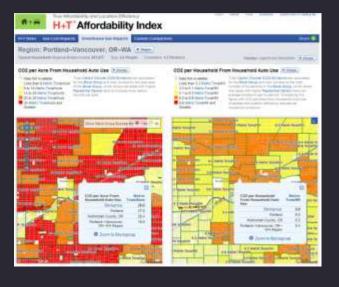
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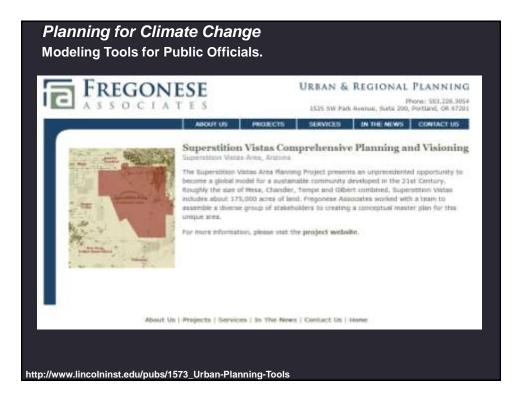


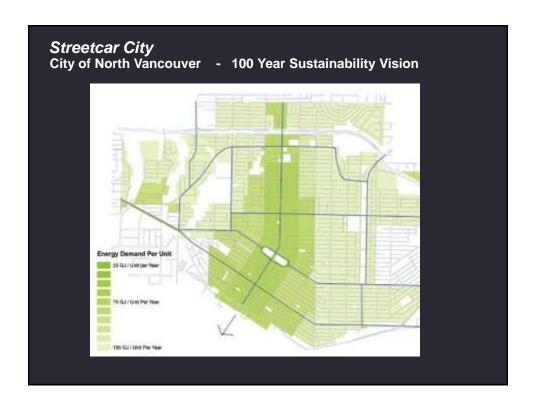
http://www.lincolninst.edu/pubs/1573_Urban-Planning-Tools

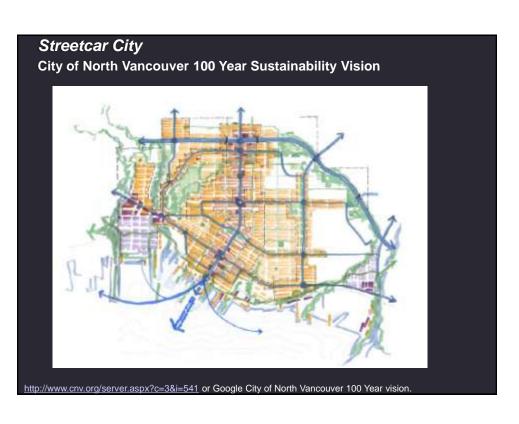
Planning for Climate ChangeModeling Tools for Public Officials.

Thank you.

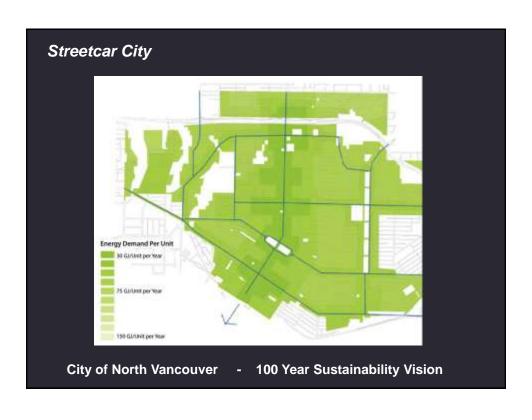
http://www.lincolninst.edu/pubs/1573_Urban-Planning-Tools











Basic Design Principles for Sustainable Cities:



Restore the Streetcar City



"Tax Lots" were economic place holders.

In Vancouver it took 80 years to realize planned density on streetcar arterials.





Design an Interconnected Street System

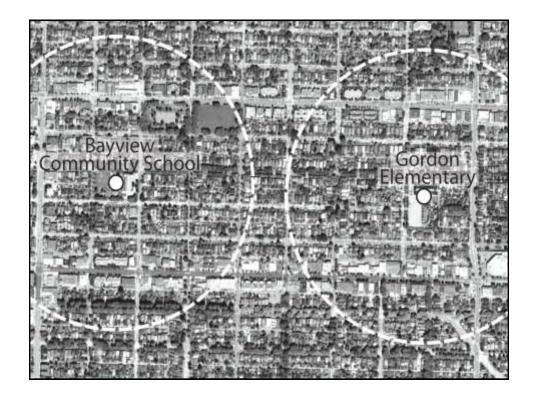
Intersections impossible to cross on foot.

Big Box magnets at overloaded intersections.

400% more traffic through intersection.

60% more pedestrian fatalities.





Different Dwelling Types on the Same Street.

Density doesn't need to look dense.

Vancouver architects have re learned this lesson.

5458 Larch Street

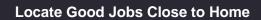
Project is 28 DU per acre. One level of underground parking.







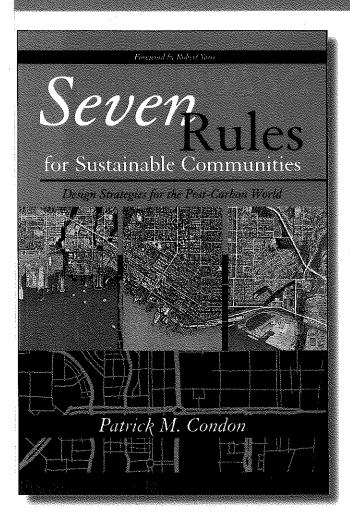






Speeds on congested freeways now approaching jogging pace.

The quest for speed is hopeless.



Patrick M. Condon is a Professor at the University of British Columbia, and Senior Researcher at the Design Centre for Sustainability at UBC. He is the author of numerous books including *Design Charrettes for Sustainable Communities* (Island Press).

for more information:

www.jtc.sala.ubc.ca

Seven Rules for Sustainable Communities

Design Strategies for the Post Carbon World

Patrick M. Condon

Questions of how to green the North American economy, create a green energy and transportation infrastructure, and halt the deadly increase in greenhouse gas buildup dominate our daily news. Related questions of how the design of cities can impact these challenges dominate the thoughts of urban planners and designers across the U.S. and Canada. With admirable clarity, Patrick Condon discusses transportation, housing equity, job distribution, economic development, and ecological systems issues and synthesizes his knowledge and research into a simple-to-understand set of urban design rules that can, if followed, help save the planet.

No other book so clearly connects the form of our cities to their ecological, economic, and social consequences. No other book takes on this breadth of complex and contentious issues and distills them down to such convincing and practical solutions. And no other book so vividly compares and contrasts the differing experiences of U.S. and Canadian cities.

Of particular new importance is how city form affects the production of planet-warming greenhouse gases. The author explains this relationship in an accessible way, and goes on to show how conforming to seven simple rules for community design could literally do a world of good. Each chapter in the book explains one rule in depth, adding a wealth of research to support each claim. If widely used, Condon argues, these rules would lead to a much more livable world for future generations—a world that is not unlike the better parts of our own.

Distributed in Canada by UBC Press

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