



EDMONTON'S GREEN BUILDING PLAN

Supporting

THE WAY WE GREEN

Water Conservation

Sustainability

Global Equity

Biodiversity

Climate Change

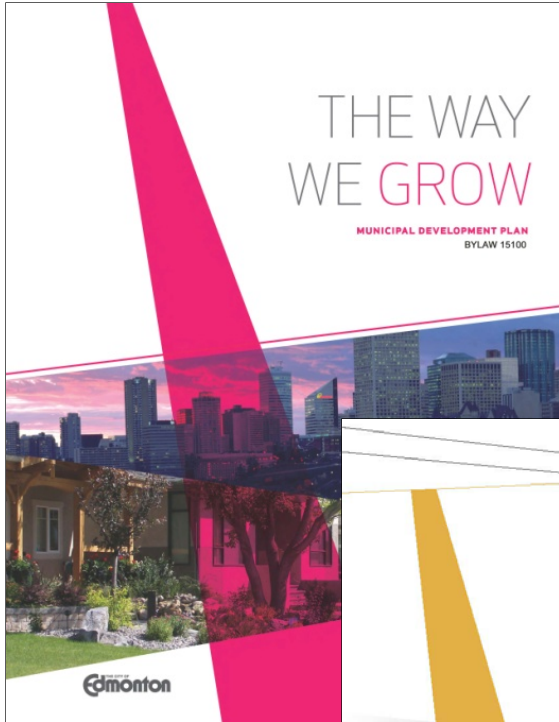
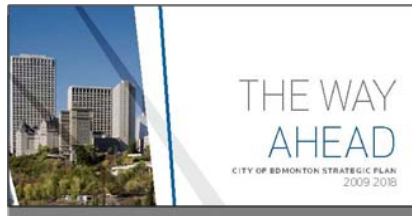
Jobs

Energy

Household costs

Economic Diversification

Resilience



- In Development...
- THE WAY WE PROSPER
 - THE WAY WE FINANCE



THE WAY WE GREEN

THE CITY OF EDMONTON'S ENVIRONMENTAL STRATEGIC PLAN

DRAFT

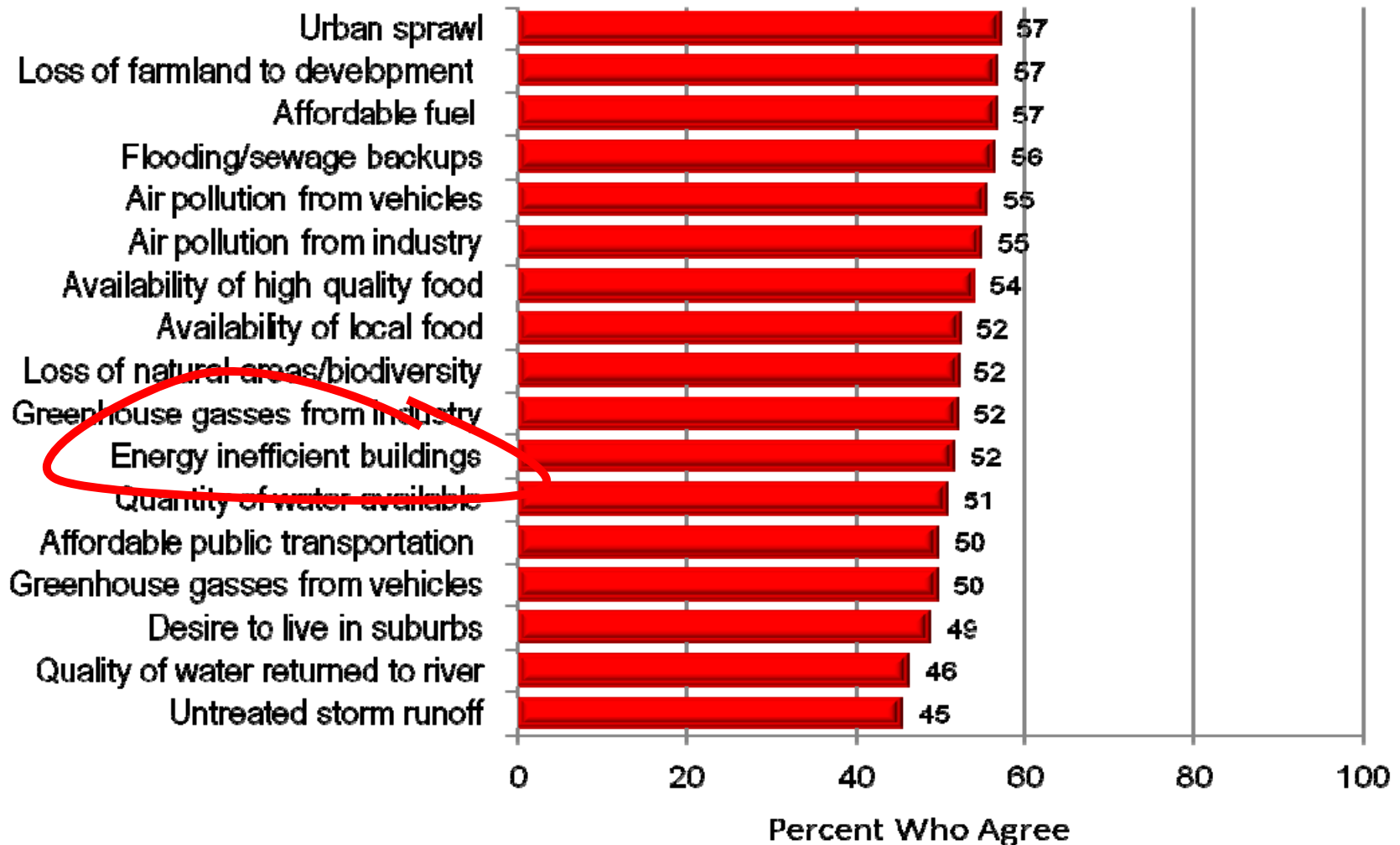
THE CITY OF
Edmonton

TRANSFORMING | EDMONTON
BRINGING OUR CITY VISION TO LIFE

- Sustainability Challenges
- Where are we now with respect to addressing these challenges?
- Where do we need to be? (Sustainable End-States)
- Strategic Policy Directions
- Framework for success (implementation)

(1,000 Person Survey)

Expect a Problem in 30 Years



THE WAY WE GREEN GOALS

The Way We Green sets 12 long-term goals that describe a sustainable and resilient Edmonton.

Healthy Ecosystems — Land

1. **Goal:** Edmonton's communities are full of nature — a place where in the course of everyday life, residents experience a strong connection with nature.

Healthy Ecosystems — Water

2. **Goal:** Water quality in the North Saskatchewan River sustains healthy people and healthy ecosystems.
3. **Goal:** Edmonton's water supply meets its needs.

Healthy Ecosystems — Air

4. **Goal:** Edmonton's air sustains healthy people and healthy ecosystems.

Energy and Climate Change

5. **Goal:** Edmonton's sources and uses of energy are sustainable.
6. **Goal:** Edmonton is resilient to disturbances that could affect its energy supplies and distribution system.

7. **Goal:** Edmonton is a carbon-neutral city.

8. **Goal:** Edmonton is resilient to disturbances from climate change.

Food

9. **Goal:** Edmonton has a resilient food and agriculture system that contributes to the local economy and the overall cultural, financial, social, and environmental sustainability of the city.

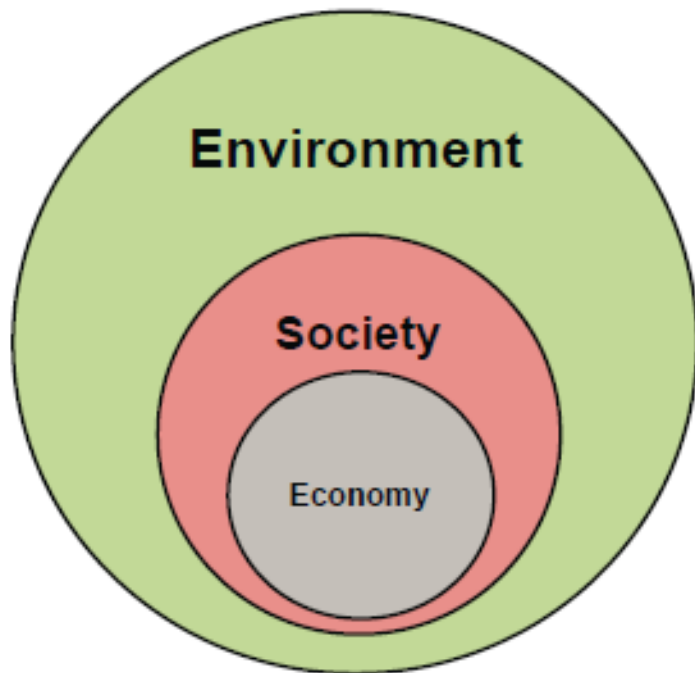
Solid Waste

10. **Goal:** Edmonton generates zero waste.

Foundation for Success

11. **Goal:** The City of Edmonton strives for sustainability and resilience in all it does.
12. **Goal:** Lifestyles of Edmontonians contribute significantly to the city's sustainability and resilience.





CITY DECISIONS

- Growth/Development
- Transportation
- Programs
- Infrastructure
- Economic development
- City operations
- Use of resources



Sustainability and Resilience Principles

The Greenhouse Effect

Some of the infrared radiation passes through the atmosphere but most is absorbed and re-emitted in all directions by greenhouse gas molecules and clouds. The effect of this is to warm the Earth's surface and the lower atmosphere.

Solar radiation powers the climate system.



Some solar radiation is reflected by the Earth and the atmosphere.

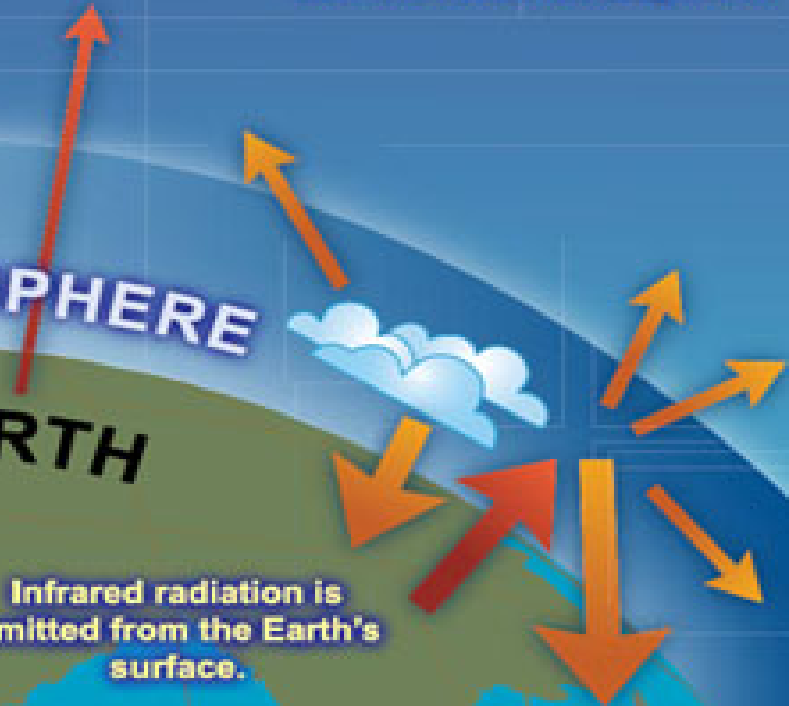


About half the solar radiation is absorbed by the Earth's surface and warms it.

ATMOSPHERE

EARTH

Infrared radiation is emitted from the Earth's surface.



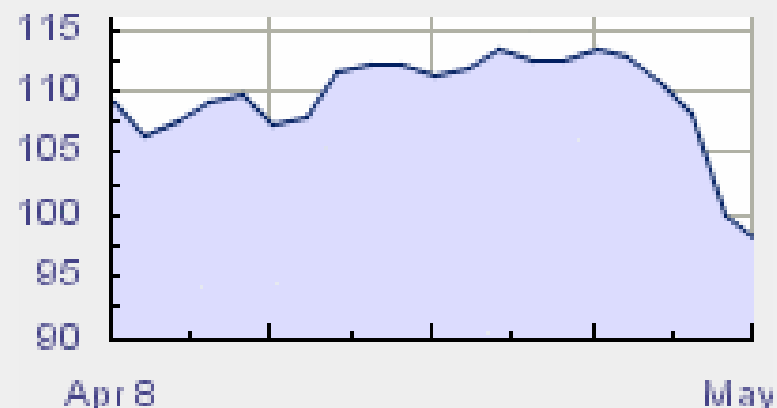
Crude Oil and Commodity Prices

May, Monday 9 2011 - 15:13:13

WTI Crude Oil

\$102.53 ▼ **0.02** **0.02%**

15:13 PM EDT - 2011.05.09



1m

1q

1y

5y

Brent Crude Oil

\$115.75 ▲ **6.62** **6.07%**

15:13 PM EDT - 2011.05.09



1m

1q

1y

5y

Crude Oil Price by OIL-PRICE.NET ©

Price		Change	Trades	Volume
15:13 - \$ 102.53		↓ 0.02 0.02% ↓	220,551	420,431
Range	Open	52 Wk Range	1 Year Forecast	
97.42 - 103.40	100.83	68.01 - 114.18	\$118 / Barrel	

OBJECTIVE 6.3

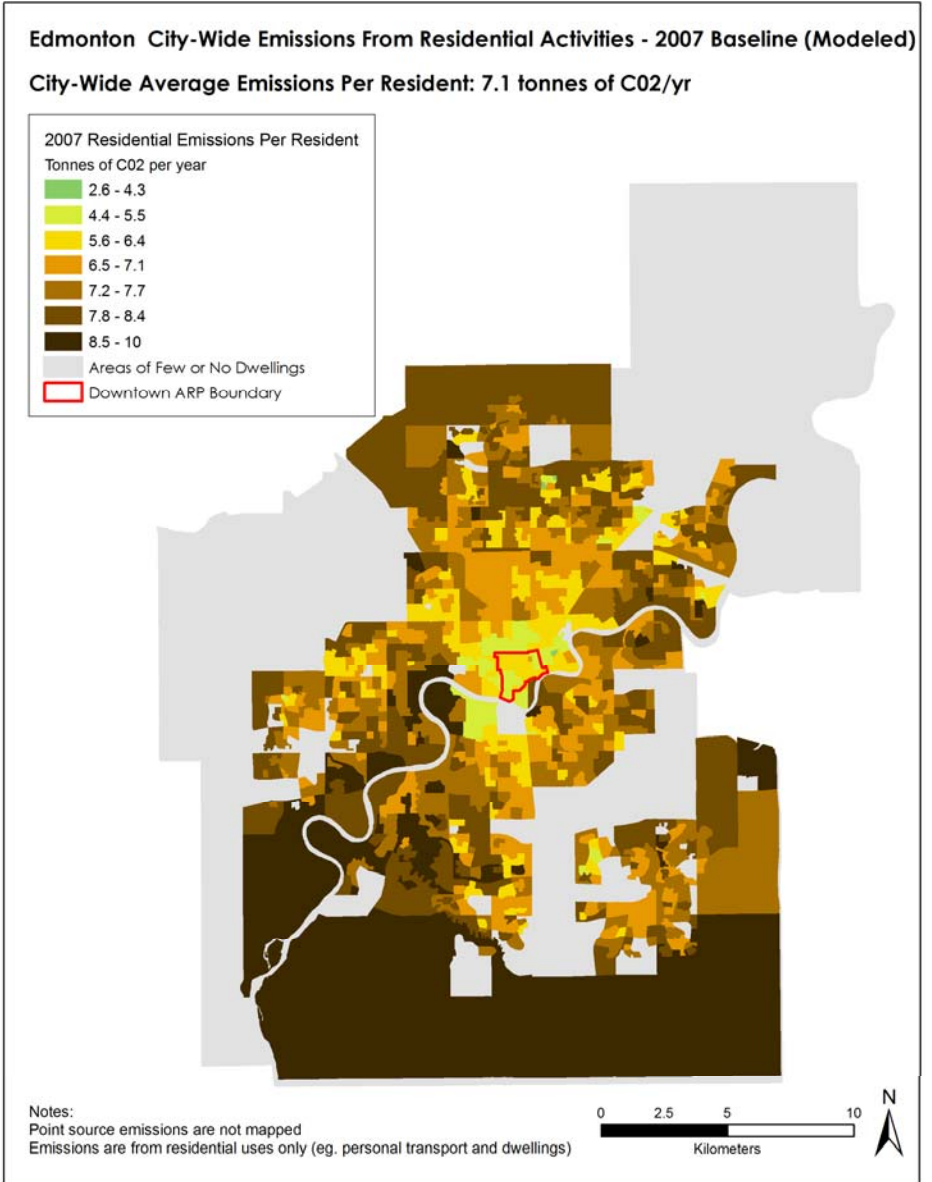
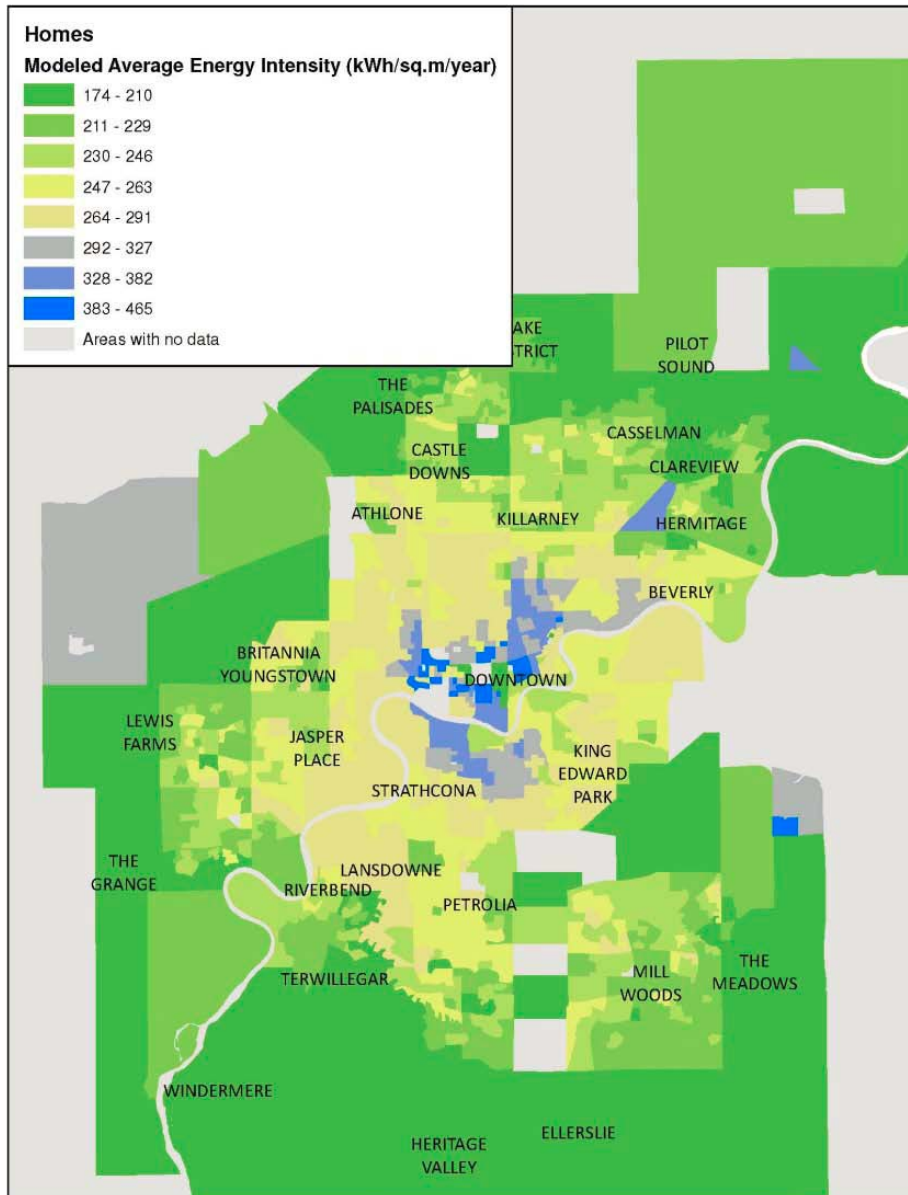
Edmonton's building stock is energy-efficient.

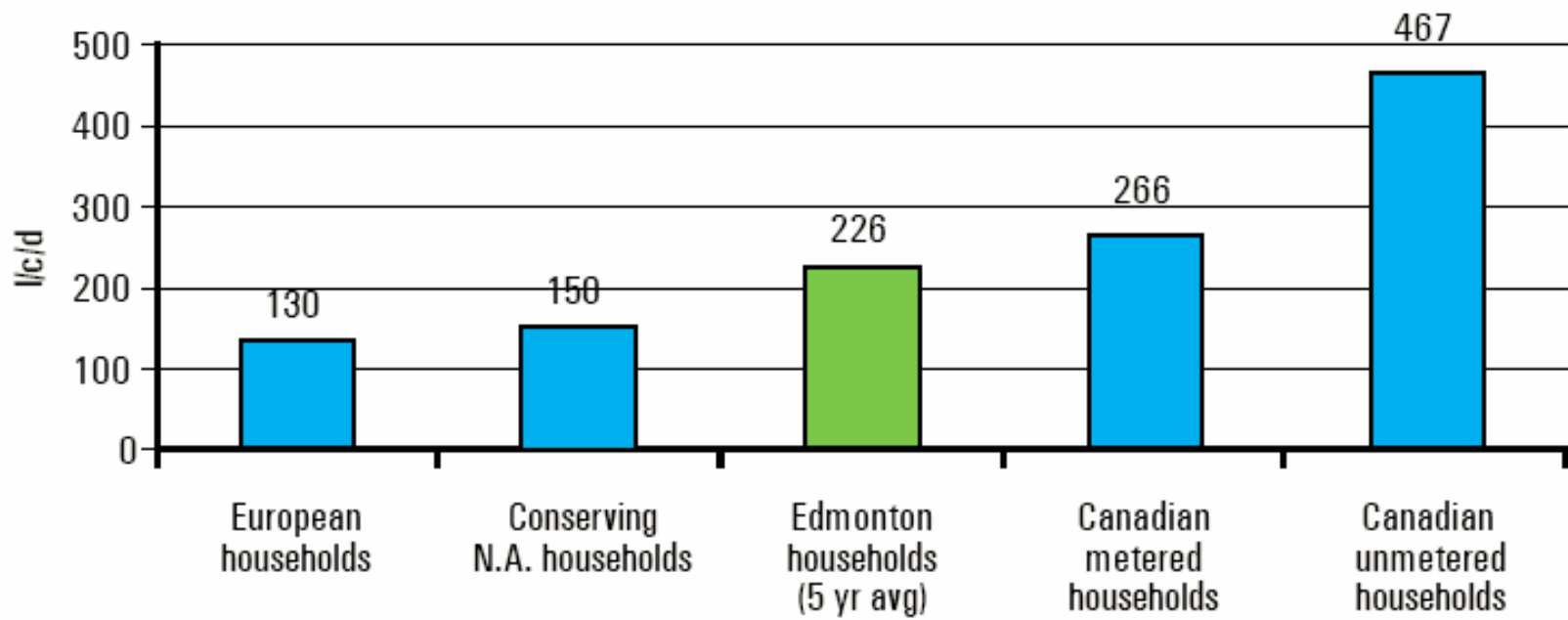
STRATEGIC POLICY DIRECTIONS:

The City of Edmonton:

- 6.3.1 Establishes, implements, and maintains a Green Building Plan to improve energy efficiency and reduce the environmental footprint of Edmonton's building stock.
- 6.3.2 Collaborates with other orders of government to legislate higher energy performance standards in and around new and existing buildings.
- 6.3.3 Establishes, implements, and maintains high energy efficiency standards for City-owned buildings and properties that use significant amounts of energy.
- 6.3.4 Strives for high energy efficiency standards in buildings it leases for City operations.
- 6.3.5 Encourages high energy efficiency standards for all new buildings constructed in Edmonton.
- 6.3.6 Leads, promotes, and encourages programs that significantly improve the energy efficiency of Edmonton's existing building stock.
- 6.3.7 Encourages green building design and development standards as a condition of sale when selling City-owned properties that will be privately developed or redeveloped.
- 6.3.8 Encourages and assists community partners who operate facilities on City-owned land to achieve high standards of energy efficiency (e.g., community leagues, seniors' centres, recreation organizations).
- 6.3.9 Encourages and facilitates builders and developers who want to apply new and innovative building standards to their projects, and designs the City's development approval process so that innovative builders and developers will not face unusual barriers.
- 6.3.10 Encourages the treatment of green space and the use of plantings to reduce energy use.

Residential (Single-family and small multi-family)



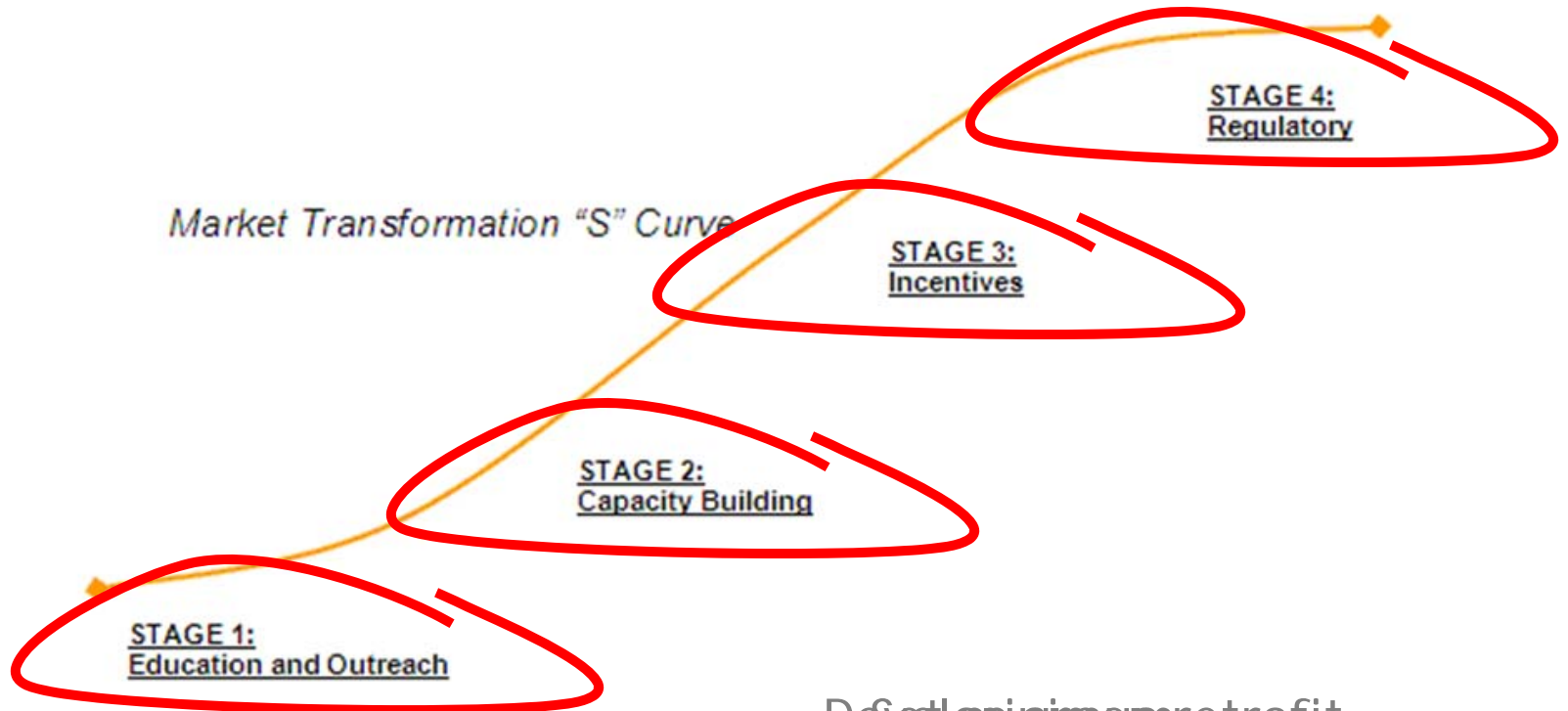


EPCOR 2010

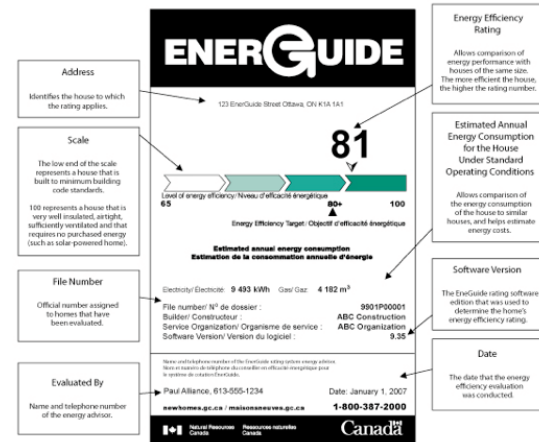
BUILT GREEN

	Bronze	Silver	Gold	Platinum	Total
Edmonton	151	437	1434	24	2046
	7%	21%	70%	1%	
Calgary	574	1206	2520	66	4366
	13%	28%	58%	2%	

Role of Municipality



- • Set performance standards for non-profit and for-profit
- • Develop and enforce performance standards in zoning
- • Approve and enforce building codes
- • Enforce building codes by law
- • Develop and enforce rating systems



**Renewable Energies Task Force
&
Green Building Strategy Committee**

Open House

Recommendations will be made to City Council about adopting renewable energies and creating more green building options in Edmonton. Share your thoughts and feedback at the open house.

Monday, June 13, 2011
2pm to 7pm

Edmonton City Hall
1 Sir Winston Churchill Square

Questions

Contact

Mike Mellross, P.Ag.
Senior Environmental Project Manager
Land Use and Environmental Planning
Sustainable Development
City of Edmonton

mike.mellross@edmonton.ca

(780) 442-6975