

# **Changing the Climate** on Global Warming



## **Edmonton's Community-Wide Greenhouse Gas Emissions Reduction & Energy Strategy**

**7th Annual Pollution Prevention Round Table  
Canadian Council of Ministers of the Environment  
Calgary, Alberta  
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***Mark Brostrom  
Senior Environmental Engineer  
Office of the Environment  
City of Edmonton***

## **Presentation Outline**

- **Policy Framework**
- **Strategy Development**
- **Highlights of the Strategy**
- **Approach to Sectors**
- **Observations & Challenges**

# Policy Framework

## **Policy Framework**

- **Plan Edmonton (Municipal Development/Strategic Plan)**
  - Focus on 'Quality of Life'
- **Environmental Strategic Plan**
  - 19 environmental topics
  - Climate Change a priority area
- **EMS - as one implementation tool**
- **City Operations Plan - Approved 1999**
- **Community Plan - CO<sub>2</sub>RE Initiative**

# Strategy Development

## History & Progress to Date

<b>Dec. 1999</b>	<b>CO<sub>2</sub>RE Team begins work</b>
Mar 2000	Initial discussion document
Aug 2000	Consultation Document
May 2001	Draft strategy developed
July 2001	Leadership Group formed
Sept 2001	Expert Review completed
<b>Dec. 2001</b>	<b>Council endorses strategy</b>
Jan 2002	Official launch of strategy to stakeholders
May 2002	Interim Secretariat Coordinator
June 2002	Business Model Analysis
July 2002	Stakeholders review/inputs
Sept 2002	Initial business plan completed
<b>Oct. 2002</b>	<b>Council endorses Business Plan</b>
Jan 2003	Request for Provincial and Federal Funding
Jan - Jun 2003	Workplan development
<b>Fall 2003</b>	<b>Public Launch of CO<sub>2</sub>RE</b>

## **CO<sub>2</sub>RE Team**

- **Alberta Environment**
- **Alberta Environmental Network**
- **ATCO Gas**
- **Celanese Canada - Edmonton**
- **City of Edmonton**
  - **Asset Management and Public Works**
  - **Office of the Environment**
  - **Community Services**
  - **Transportation and Streets**
- **EcoCity**
- **Environmental Advisory Committee (City)**
- **Green Communities**
- **Inland Cement - Edmonton**
- **Toxics Watch Society**
- **Sierra Club**
- **Urban Development Institute**
- **University of Alberta**
  - **Facilities Management**
- **Natural Resources Canada**
- **Worthington Properties**

## **CO<sub>2</sub>RE Leadership Group**

- Alberta Capital Region Alliance
- Alberta Environmental Network
- Government of Alberta
- Alberta Research Council
- ATCO Gas
- Alberta Motor Association
- Building Owners and Managers Association
- Capital Health
- Celanese Canada - Edmonton
- City of Edmonton
- Climate Change Central
- Economic Development Edmonton
- Edmonton Catholic School Board
- Edmonton Public Schools
- Enbridge Pipelines Inc.
- Environmental Resource Centre
- Environment Canada
- EPCOR
- Greater Edmonton Home Builders' Association
- Toxics Watch Society
- Telus
- Sierra Club
- Urban Development Institute
- University of Alberta
- The Pembina Institute
- Northern Alberta Institute of Technology
- Inland Cement - Edmonton
- Natural Resources Canada

# Strategy Highlights

## CO<sub>2</sub>RE Community Vision

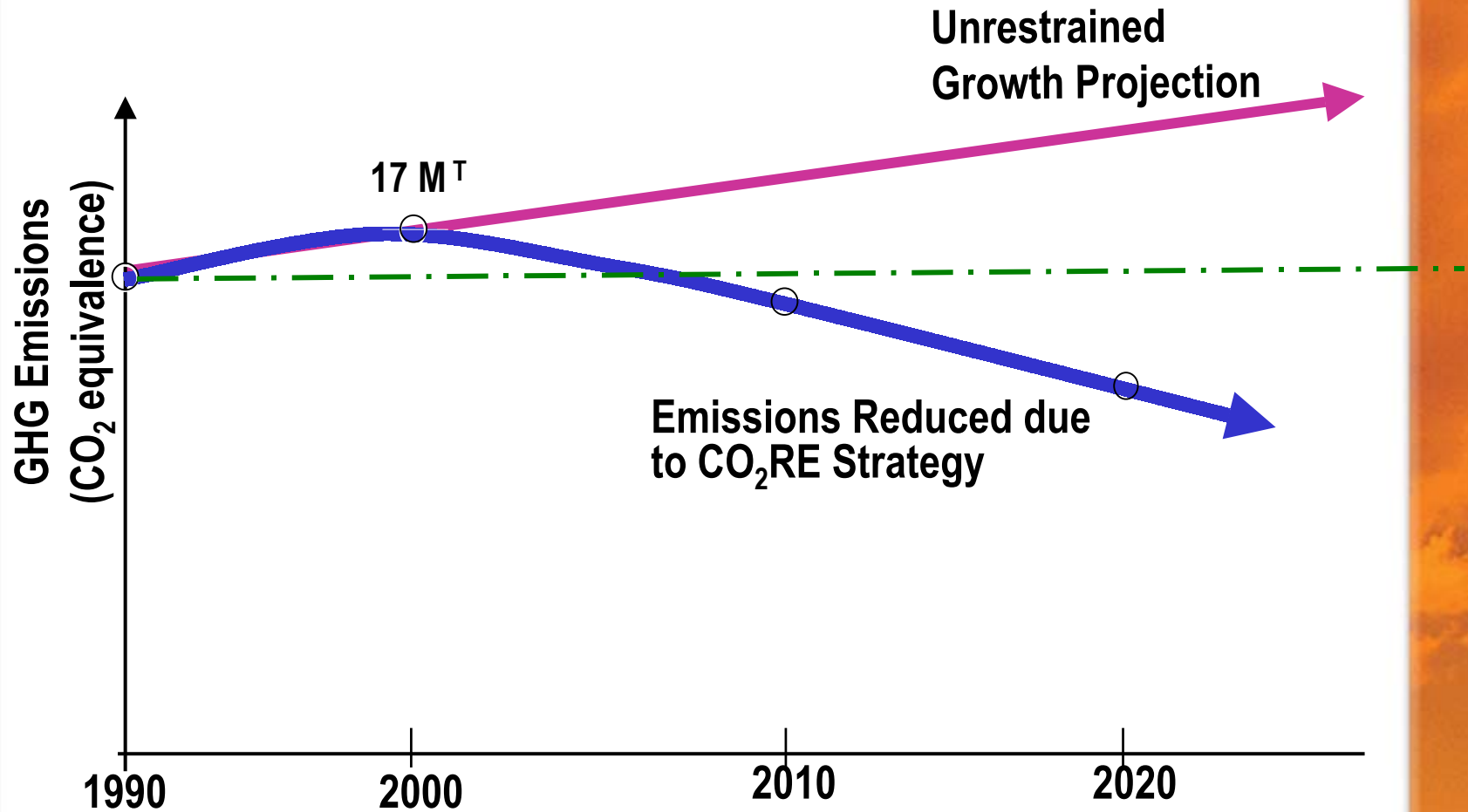
“Edmontonians have accepted the challenge of reducing greenhouse gas emissions and are adopting measures and lifestyles that significantly reduce the production of greenhouse gases.

Greenhouse gas emissions reduction is being achieved beyond Canada’s international commitments and the long-term transition toward sustainable energy use will have been completed by 2050.”

## CO<sub>2</sub>RE Goals

- By the year 2010:
  - A general reduction of up to 6% of GHG emissions (from 1990 levels) will be attained.
- By the year 2020:
  - A general reduction of 20% of GHG emissions (from 1990 levels) will be attained.

## GHG Emissions Reduction Potential

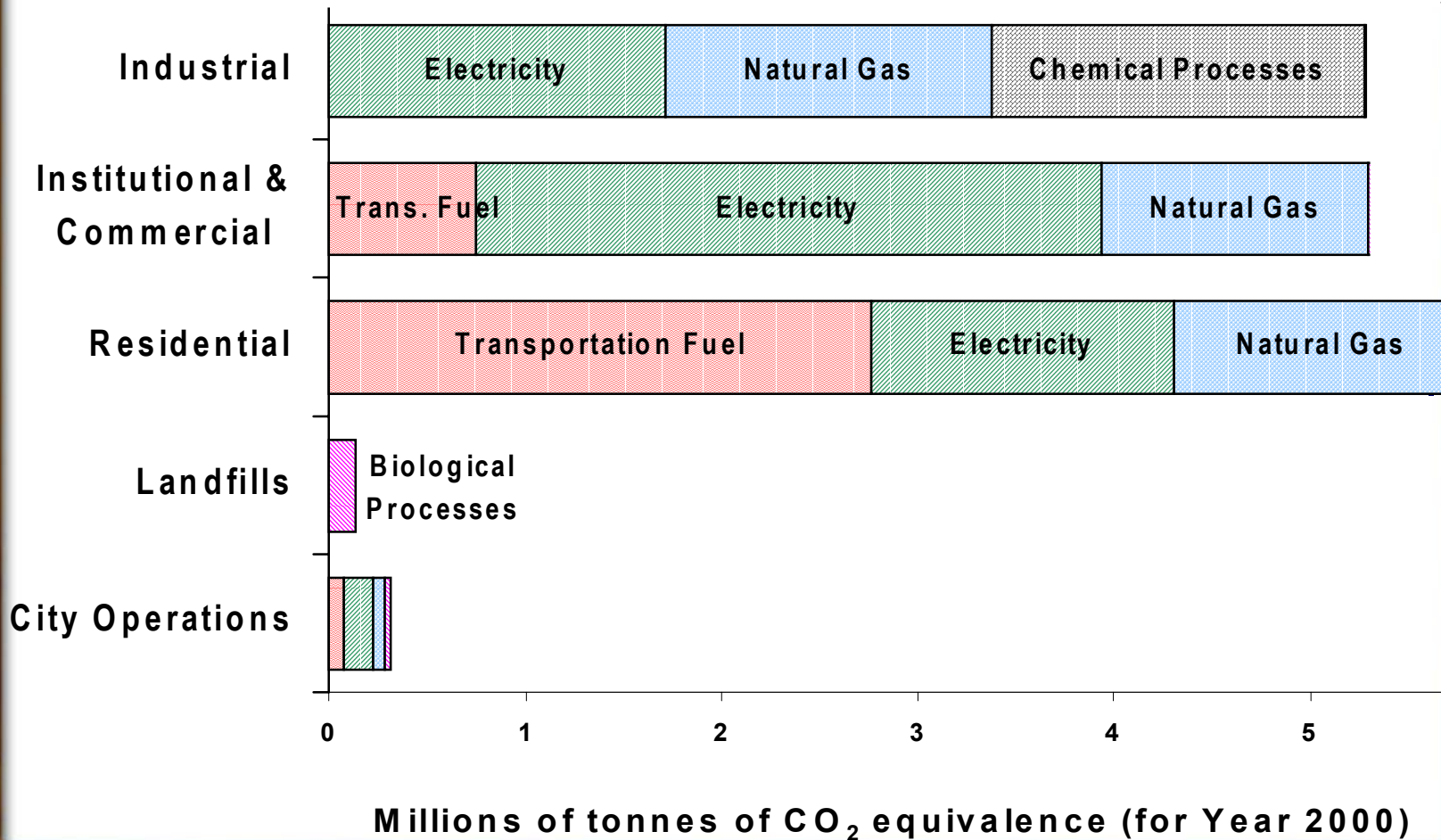


**Approach to  
Commercial & Institutional,  
Industrial and  
Residential  
Sectors**

# Changing the Climate

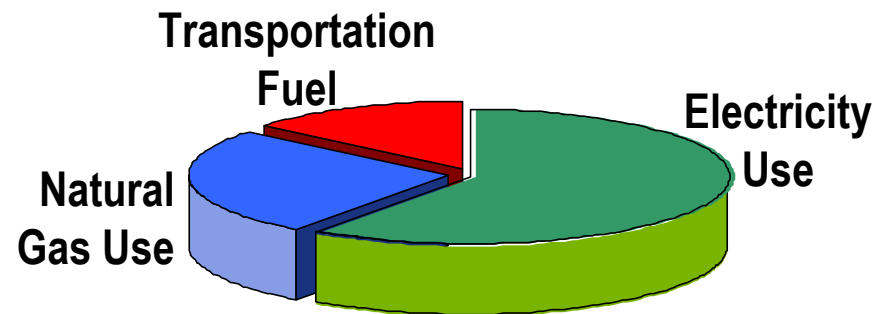
on Global Warming

## Energy/Fuel Type & Use by Sector



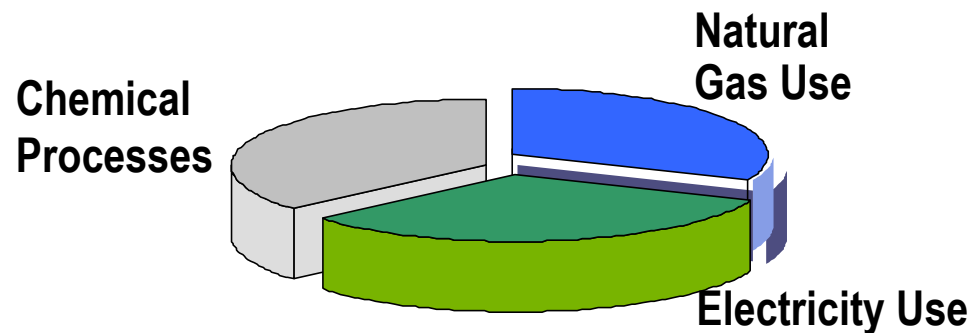
## Focus of Commercial and Institutional Sector

Greenhouse gas emissions reduction will be maximized for Edmonton's commercial and institutional buildings and fleets. This will be achieved through increased efficiencies from comprehensive retrofit programs and conversion to alternative technologies/fuels, leading to appropriate cost-efficiencies.



## Focus of Industrial Sector

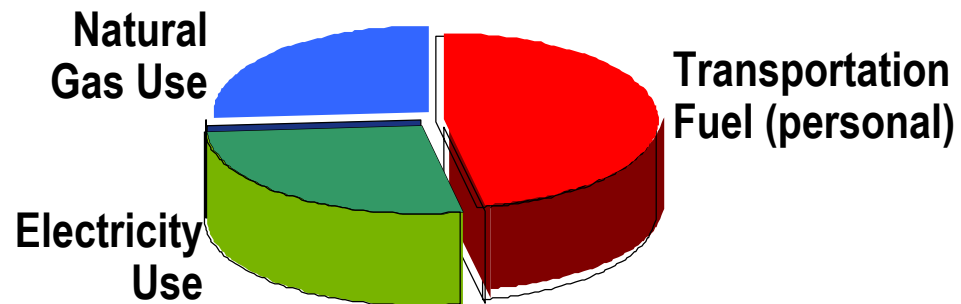
Industry focus will be on improving energy efficiency and researching alternative technology in the short term. In the medium term, industry will continue to improve efficiency and start to incorporate more alternative energy sources for long-term sustainable resource use, leading to appropriate cost-efficiencies.



## Focus of Residential Sector

Residents will be encouraged, through information and tools, to make wise energy choices and to contribute to a sustainable lifestyle that will systematically increase the resource efficiency of homes, communities, and lifestyles.

Communities will also be key in influencing suppliers of appliances and vehicles for cost-efficiency over the full life cycle of all components.



## Planned Residential Initiatives

- Promotion of Home Audits
  - Representative EnerGuide Audits
  - Broad promotion at fall Home Show
- Website Information
  - Residential 'How To' Section
  - Linkage to local suppliers and installers
- CO<sub>2</sub>RE Membership
  - Promotion of programs, products and services
  - GHG registry (aggregate carbon credits)
- Potential CFL Promotion

# Challenges & Observations

## **Challenges**

- **Must engage residential commercial & institutional, and industrial sectors**
  - different approaches required for each sector
- **Some initiatives require minor behavior changes & investment ... while others require a shift in paradigm & larger investments**
- **To make and maintain this ‘Strategy’ as a community priority**

## **Closing Observations**

- **GHG Reduction is a Pollution Prevention and Sustainability Initiative**
- **Vision development provides for good discussion of issues**
- **Building consensus through this process is important**
- **But it is also time for action ... the public is expecting action and political leadership**

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## **Contact Information:**

**City of Edmonton  
Office of the Environment  
2nd Floor, Century Place, 9803-102A Avenue  
Edmonton, Alberta, T5J 3A3**

**Mark Brostrom - Phone: (780) 496-5992  
Email [Mark.Brostrom@edmonton.ca](mailto:Mark.Brostrom@edmonton.ca)**

**Website: [www.co2re.ca](http://www.co2re.ca)**