



Energy Efficient Buildings: *A Plan for BC*

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**Ministry of
Energy, Mines and
Petroleum Resources**

Today's Agenda

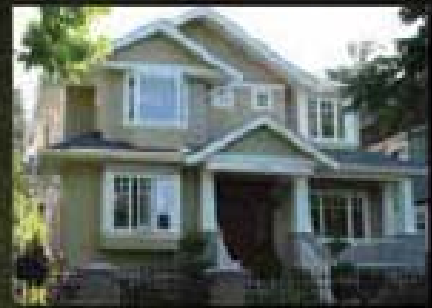
- Energy Efficiency Strategy
- Market Transformation Strategies
- Key Support Programs
- Regulatory Measures
- Estimated Impacts
- Barriers

Energy Efficient Buildings: **A Plan for BC**

Creating a Legacy of
Energy Efficient
Buildings in
British Columbia

- Minister Neufeld launched – Sept 2005
- \$1.2 billion in energy savings over 15 years
- New dedicated website:

<http://www.em.gov.bc.ca/EnergyEfficiency/>



Energy Efficiency Targets

Building Sector	Energy Efficiency Target for 2010
New SF and row	100% with EGNH 80 rating, 32% less energy
New MURBS	25% better than MNECB*, 37% less energy
New non residential	25% better than MNECB*, 20% less energy
Existing SF and row	12% of homes, 17% less energy
Existing MURBS	16% of MURBS, 9% less energy
Existing non residential	20% of buildings, 14% less energy

Market Transformation

5 KEY AREAS

- Education and Capacity Building
- Pricing and Incentives
- Harmonized Delivery
- Voluntary Measures
- Regulation

1. Education and Capacity Building

- Energy Star window “Capacity Building Coordinator”
- New Commercial / MURB & Industrial “Capacity Building Coordinator”
- Range of energy efficiency training sessions
 - Contractors and builders
 - Realtors
- Expanded Quality First programs
- Classroom course for building owners & managers
- Online programs for building owners & operators
- Windows installation contractors
- Geo-exchange installation contractors
- Online education for schools

2. OE Pricing and Incentives

- Provincial sales tax exemptions
 - Energy Star furnaces, boilers, heat pumps and oil furnaces
 - Insulation and draft proofing
 - Review of exemptions on windows and doors
- EnerGuide New Homes incentives for 80 ratings
- Existing Residential
 - Matching EnerGuide grant
 - Solar hot water
 - Heat pumps
 - Windows
 - High efficiency heating equipment
 - Low Income
- New and Existing MURBS & Small Commercial
- Commercial & Institutional Buildings



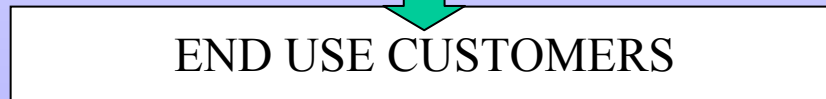
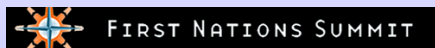
3. Harmonized Delivery

Some of our partners:



SBC

Sustainable Building Centre



4. Voluntary Measures

- Adoption of Provincial targets by:
 - Industry associations
 - Utility Companies
 - Private Sector
 - Educational Institutions
 - Non Profit Organisations
 - BC Housing
- Municipal Governments – Community Action on Energy Efficiency
- Green Buildings BC – school districts and health authorities
- Collaborative initiatives, information hubs for target audiences
- Research and development projects
- In-kind support from partner organisations

5. Regulation & Policy

1. Energy Efficiency Act reviews

- New standards proposed for:
 - Residential and commercial furnaces and boilers
 - Gas fireplace labelling
 - Manufactured windows and doors
 - Thermostats
 - Commercial lighting (under consideration)
- Compliance Monitoring

2. Review of Provincial Energy Plan

2020 Impacts

- \$1.2 billion BC wide savings

Building Sector	Reduced Energy Costs
New SF and row	\$140 million
New MURBS	\$160 million
New non residential	\$176 million
Existing SF and row	\$322 million
Existing MURBS	\$69 million
Existing non residential	\$330 million

- GHG emission reductions 2.3million of Co2 equivalent
- 52,000 person years of additional employment in BC
- Figures are over and above the capital costs

Key Barriers

- Energy efficiency is a “No Brainer”
- So most of us have no brains then!
- Markets are imperfect – people do not invest
- Industry delivery capacity
- Pricing
- Harmonization - fragmented programs
- Social inclusion – availability to all
- Sustaining momentum – beyond March 2007