Country Brief: CANADA



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National Round Table on the Environment and the Economy (NRTEE)



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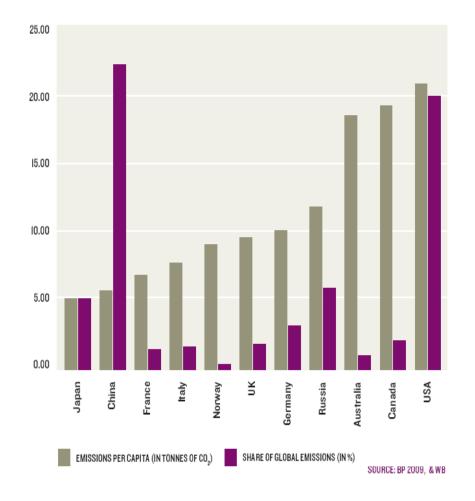
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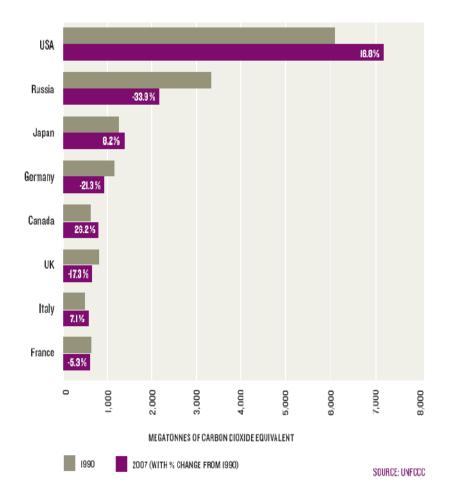
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Emissions Profile



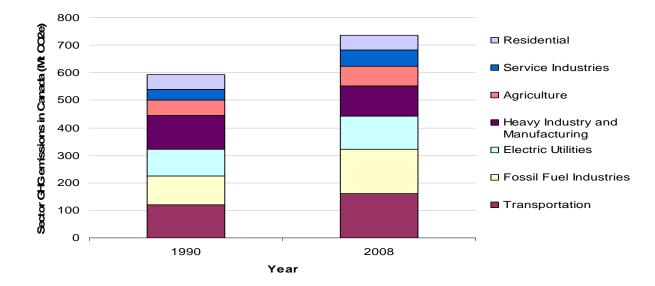
EMISSIONS PROFILES BY COUNTRY, 2008

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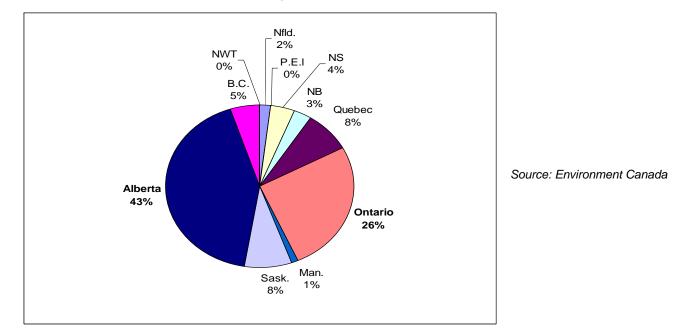


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Share of GHG Emissions by Sector in Canada , 1990 and 2008



Reported 2008 Emissions by Province, in Canada (as a %)



Federal Government



Targets

2002 - Ratified Kyoto Protocol

- Canada to reduce its GHG emissions by 6% below 1990 levels by the five-year commitment period (2008 2012)
- ... ↓
- 2007 Government of Canada commits to
- reducing total GHG emissions by 20% below 2006 levels by 2020 and by 60 to 70% by 2050
- ... Į
- 2010 Minister of Environment announces
- GHG emission by 17% below 2005 by 2020;
- Aligned with U.S. climate change approach;
- Increase electricity from non emitting sources (i.e. Hydro-electricity, Clean coal, Nuclear and Wind Power) to 90% of Canada total electricity production by 2020 ⁷

Federal Government Strategy for Low-Carbon Economy

- 2009 Canada-US Clean Energy Dialogue
- 2009 advancement of clean technology for energy security and economic prosperity
- Funding renewable energy projects, development of clean technology -in particular Bio-fuels, and Carbon Capture and Storage (CCS)Technology

Federal Government: Programs and Funding

- Renewable Energy and Clean Technology
 Investment:
 - Clean Energy Fund (~795 M, 2009-2015)
 - Large-Scale CCS projects (446M for three projects), as well as small-scale projects
 - 2009, through APPP announced 19 new clean-tech projects

• Programs managed by Natural Resources Canada aimed at energy efficiency and renewable energy:

ecoENERGY for Biofuels program (\$1.5 billion, 2008-2017); ecoENERGY for Renewable Power (\$1.48 billion, 2007-2011), ecoENERGY Home Retrofit (\$801 million, 2007-2011); ecoENERGY Industry (\$18 million, 2007-2011); ecoENERGY for Renewable Heat (\$36 million, 2007-2011).

Environment Canada lead on Climate Change policies coordinated through the following:

Clean Air Agenda initiatives (45 programs) with other federal departments through its horizontal management, accountability and reporting framework. The Clean Air and Climate Change Trust Fund (\$1.5 billion)

- Transportation Canada's Eco-Transport Strategy
- Sustainable Development Technology Canada's Technology Fund and NextGen Biofuels Fund

Challenges to Moving toward a Low-Carbon Society: Federal Level

- National low-carbon economy strategy not yet established, and only have short-term timeframes
- Harmonization with the U.S. could present delay, although Canada has harmonized with the U.S. on vehicle emissions standards
- Canada's unique circumstances as major energy producer
- Lack of federal-level economy-wide carbon pricing policy but provincial governments are pursuing independent climate change plans

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Canada is a Federation: Provincial Action on LCS

- Constitutional Authority over environmental issues divided between Federal and Provincial Government
- Some provincial plans complemented their climate change plan with: an energy plan, green technology promotion, and a "green" skills and jobs strategy
- Some provincial plans are complemented by a carbon pricing element



Provincial Example Ontario's Key Initiatives

- Target: reduce its GHG emission by 15% below 1990 by 2020, and of 80% by 2050
- Green Energy and Green Economy Act (2009)
- MoveOntario 2020 (\$11.5 billion, rapid transit action plan)
- Phasing out Ontario's coal-fired generating plants by 2014
- Agreement with Samsung C&T Corporation and the Korea Power Electric Corporation (\$7 billion)
- Next Generation Jobs Fund (\$1.15 billion)

Municipal Example City of Calgary's Key Initiatives

- Target: reduce corporate GHG emissions by 20% by 2020 and 80% by 2050, based on 2005 levels, and to pursue parallel strategies within the community
- imagineCALGARY: public engagement project to produce a 100-year vision for sustainable future
- The World Energy Cities Partnership (WECP) Calgary Climate Change Accord
- Sustainable Building Policy
- Vehicle Idling Reduction Policy
- EcoFuel Biodiesel Project
- Low Carbon Future Community Action
- PlanDowntown district energy



Challenges to Moving toward a Low-Carbon Society: Provinces and Municipalities

- Although most provinces have adopted lowcarbon strategies there is a lack of an overarching integration
- Provinces and territories have jurisdiction over generation, transmission and distribution of electricity within their boundaries. Differential regulating scheme may be a challenge for an over-arching integration.
- At the municipal level, the main challenge is lack of resources and fiscal tools. Major cities have greater ability to implement low-carbon society plans than smaller municipalities.

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