

# Analysis - Manitoba Government and Climate Change

Source: *Kyoto and Beyond: A Plan of Action to Meet and Exceed Manitoba's Kyoto Targets*

Manitoba Science, Technology, Energy and Mines, 2002

[http://www.climatechangeconnection.org/pdfs\\_ccc/final-mccap-sep-16-02.pdf](http://www.climatechangeconnection.org/pdfs_ccc/final-mccap-sep-16-02.pdf)

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Product of Manitoba Wildlands

As of October 2007



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Type of Commitment	Description	Analysis	Comments
<b>Greenhouse Gas (GHG) Emissions Reductions Target</b>			
	<p>"Our government has expressed strong support for the ratification of the Kyoto Protocol that calls for a 6 per cent reduction of greenhouse gas emissions from 1990 levels by 2012 in Canada. We believe this to be a critical first step in reducing greenhouse gas emissions worldwide and we are committed to helping Canada meet its Kyoto targets. That is why we are presenting an action plan that will allow Manitoba to meet and exceed the Kyoto Protocol targets early, by 2010, so that we can contribute to helping Canada meet its Kyoto targets on time." (page 2)</p>	<p>Commitment to exceed Kyoto Protocol target of 6% below 1990 levels early - by 2010. Manitoba emissions are rising.</p>	<p>Manitoba has not publicly reported on emissions since 2002 Action Plan. According to National Inventory Report, Manitoba's emissions increased 11% between 1990 and 2004 (18 Mt in 1990; 20 Mt in 2004) (<a href="http://www.ec.gc.ca/pdb/ghg/inventory_report/2004_report/ta12_14_e.cfm">http://www.ec.gc.ca/pdb/ghg/inventory_report/2004_report/ta12_14_e.cfm</a>). Environment Canada reported GHG emissions from large final emitters in Manitoba increased 20% between 2004 and 2005 (<a href="http://www.ec.gc.ca/pdb/ghg/online_data/downloadDb_e.cfm#_Comparison_of_GHG">http://www.ec.gc.ca/pdb/ghg/online_data/downloadDb_e.cfm#_Comparison_of_GHG</a>)</p>

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Type of Commitment	Description	Analysis	Comments
	<p>"By 2010, Manitoba's net contribution could equal a greenhouse gas reduction of up to 18 per cent from 1990 levels — significantly more than the six per cent obligation faced by the nation as a whole. These achievements will be possible when the right conditions and market price signals are put in place to make renewable energy sources more economically attractive than fossil fuels." (page 10)</p>	<p>Projects possible reduction in GHG emissions by up to 18% below 1990 levels by 2010</p>	<p>Manitoba has not publicly reported on emissions since 2002 Action Plan. According to National Inventory Report, Manitoba's emissions increased 11% between 1990 and 2004 (18 Mt in 1990; 20 Mt in 2004) Manitoba GHG's are currently 29% above this climate plan projection.</p>
	<p>"By 2012, Manitoba's net contribution could equal a greenhouse gas reduction of up to 23 per cent from 1990 levels, provided the right conditions are in place." (page 11)</p>	<p>Projects possible reduction in GHG emissions by up to 23% below 1990 levels by 2012</p>	<p>See above Manitoba GHG's are currently 34% above this climate plan projection.</p>

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<b>Actions to Meet 2010 Target (18 percent below 1990 levels)</b>			
	<p>"Increased exports to the U.S. and elsewhere in Canada — based predominately on hydro-electricity but also on energy conservation and wind generation — could provide reductions of about 4.25 megatonnes (Mt) per year by 2010*.</p> <p>* These reductions are based on the displacement of coal and gas generation in export markets. These estimates assume Canada receives the Clean Energy Export Credit for exports to the U.S. and that Manitoba negotiates a 50 per cent share of the emission reduction credits resulting from exports to other provinces." (page 10)</p> <p>NOTE: the 4.25 Mt per year reduction assumes contribution by Wuskwatim – with 2009 in-service date providing a reduction of 1.1 Mt per year</p>	<p>Energy exports to U.S. or elsewhere have not increased. Import of dirty energy occurs in dry years.</p> <p>Manitoba has not publicly reported on emissions since 2002 Action Plan.</p>	<p>No detailed information how this reduction was calculated available.</p> <p>No system in place yet to receive emission reduction credits for exported energy. Energy exports do not reduce emissions in Manitoba.</p> <p>Wuskwatim not in-service by 2009.</p>

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Type of Commitment	Description	Analysis	Comments
	<p>"Manitoba Hydro has switched the source of fuel at its Selkirk generating station from coal to natural gas. This initiative alone will cut emissions by 0.2 Mt per year." (page 10)</p>	<p>No GHG emission information available to verify predictions.</p> <p>Manitoba has not publicly reported on emissions since 2002 Action Plan.</p>	<p>Selkirk Generating Station was converted from coal to natural gas in spring 2002, before climate plan. (<a href="http://www.hydro.mb.ca/corporate/facilities/gselkirk.pdf">http://www.hydro.mb.ca/corporate/facilities/gselkirk.pdf</a>)</p>

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Type of Commitment	Description	Analysis	Comments
	<p>"The Manitoba government has announced its intention to require the blending of ethanol at 10 per cent in all gasoline sold in the province. This initiative alone will reduce emissions by over 0.135 Mt per year" (page 11)</p>	<p>Biofuels Act - <a href="http://web2.gov.mb.ca/laws/statutes/ccsm/b040e.php">http://web2.gov.mb.ca/laws/statutes/ccsm/b040e.php</a>                      Biofuels and Gasoline Tax Amendment Act - <a href="http://web2.gov.mb.ca/laws/statutes/2003/c00503e.php">http://web2.gov.mb.ca/laws/statutes/2003/c00503e.php</a>                      No information available to verify predictions. Manitoba has not publicly reported on emissions since 2002 Action Plan.</p>	<p>The 10% ethanol standard will not be operational until early 2008, at the earliest.</p>

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Type of Commitment	Description	Analysis	Comments
	"Capturing the biogas emitted from Manitoba landfill sites could reduce emissions by 0.4 Mt per year." (page 11)	No reporting information available to verify predictions. Manitoba has not publicly reported on emissions since 2002 Action Plan.	Manitoba Hydro and City of Winnipeg working on Brady Landfill Project. Manitoba Hydro studying options for use of biogas. ( <a href="http://www.gov.mb.ca/est/climate/mb_doing/biofuels.html#biogas">http://www.gov.mb.ca/est/climate/mb_doing/biofuels.html#biogas</a> )
	"A series of targeted measures with agriculture and other sectors, cost-shared with the federal government, could offer emission reductions and sequestration or sinks credits of about 4.5 Mt per year." (page 11)	No reporting information available to verify predictions. Manitoba has not publicly reported on emissions since 2002 Action Plan.	Statement is too vague to verify.

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Type of Commitment	Description	Analysis	Comments
<b>Actions to Meet 2012 Target (23 percent below 1990 levels)</b>			
	<p>"Increased exports to the U.S. and elsewhere in Canada — based predominately on hydro-electricity but also energy conservation and wind generation — could provide about 5.55 Mt of reductions per year by 2012." (page 11)</p> <p>NOTE: the 5.55 Mt per year reduction assumes contribution by Wuskwatim (see above) and by Gull — with 2012 in-service date providing a reduction of 3.3 Mt per year</p>	<p>Exports have not increased (based on public information.)</p> <p>No GHG emission reporting information available to verify these predictions. Manitoba has not publicly reported on emissions since 2002 Action Plan.</p>	<p>No detailed information how this reduction was calculated, aside from general comments regarding displacement of emissions.</p> <p>There is no system in place to receive emission reduction credits for exported energy. Energy exports do not reduce emissions in Manitoba. Wuskwatim will not be in-service by 2009. Gull has not been filed, will not be in-service by 2012.</p>



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	<p>"Manitoba Hydro's Power Smart conservation programs alone (not taking into account changes in building codes) are expected to save 237 MW and 988 Gwh by 2011/12. These savings will result in reductions of about 0.75 Mt per year in the year 2011/12." (page 13)</p>	<p>No reporting available to verify predictions. Manitoba has not publicly reported on emission reductions since 2002 Action Plan.</p>	<p>See Power Smart website: (<a href="http://www.hydro.mb.ca/your_home/what_is_power_smart/">http://www.hydro.mb.ca/your_home/what_is_power_smart/</a>)</p>
	<p>"Manitoba production [of ethanol] is expected to reach at least 400 million litres by 2012, cutting emissions by 0.39 Mt per year." (page 13)</p>	<p>No GHG emission reporting information available to verify these predictions. Manitoba has not publicly reported on emission reductions since 2002 Action Plan.</p>	<p>Husky ethanol plant not fully operational until early 2008.</p>



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	<p>"Doubling the number of installations [of ground source heat pumps] in Manitoba by 2012 will save 0.02 Mt of greenhouse gas emissions per year." (page 13)</p>	<p>No reporting information available to verify predictions. Manitoba has not publicly reported on emissions since 2002 Action Plan.</p>	<p>Manitoba has already doubled the number of ground source heat pump installations since 2002. New targets needed. (<a href="http://www.gov.mb.ca/est/climate/mb_doing/earth_energy.html">http://www.gov.mb.ca/est/climate/mb_doing/earth_energy.html</a>)</p>