

Analysis - Government of Manitoba and Climate Change

Source: *Climate Change: Leading Practices by Provincial and Territorial Governments in Canada*

Council of the Federation, August 3, 2007

http://www.councilofthefederation.ca/pdfs/CCIInventoryAug3_EN.pdf

Product of Manitoba Wildlands

As of October 2007

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Government Operations			
page 3	GHG emissions reduced by 8% from 1990 levels by 2002, largely by reducing use of fuel oil in favour of natural gas for building heating (based on a 2002 study of a significant number of government buildings)	<p>ANALYSIS: No information available to document this assertion</p> <p>VERIFICATION: There is information to suggest the government collected some baseline information regarding GHG emissions and government buildings, "The Demand Side Energy Use baseline audit of 85 Manitoba government buildings was completed in 2003 and claims 2001/02 greenhouse gas levels in government buildings was already 8% below 1990/91 levels." (http://www.gov.mb.ca/greenandgrowing/greening.html). However, no actual baseline information, or GHG reduction data, is available for government departments and agencies.</p>	Unable to verify this statement, as study to document this reduction in GHG emissions is not publicly available

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page 3	Green Building Policy: all new buildings and major renovation projects by government or other organizations receiving provincial funding must be at least 33% better than Model National Energy Code for Buildings and be certified LEED Silver or better.	<p>ANALYSIS: Policy is in place</p> <p>VERIFICATION: Green Building Policy (April 2007) - http://www.gov.mb.ca/est/energy/green_bldg.html</p>	Green Building Policy was initiated April 2007. We recommend public reporting.

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page 3	Alternative fuels: promotion and support for purchase of flex fuel and alternative fuel vehicles for government fleets; biodiesel procurement policy for B5 use in provincial heavy equipment fleet; E85 fuelling station in Winnipeg region; E10 procurement directive	<p>ANALYSIS: Provincial fleet changes underway. No information as to B5 and heavy equipment fleet. Status of E85 fuelling station unclear. No information available regarding E10 procurement directive.</p> <p>VERIFICATION: "The provincial light duty vehicle fleet currently includes 141 alternative and flexible fuel vehicles - 12 gas electric hybrids and 129 E85 flexible fuel vehicles what are capable of running on a blend of up to 85% ethanol. As well a further eight gas-electric hybrids, 48 E85 flexible fuel vehicles and one diesel Smart Car have been ordered to replace older fleet vehicles." (Green and growing - Greening the Provincial Government January 2006 http://www.gov.mb.ca/greenandgrowing/greening.html) No information regarding biodiesel procurement policy for B5 use in provincial heavy equipment fleet. E85 Fuelling Station announced March 2006. (http://www.gov.mb.ca/chc/press/top/2006/03/2006-03-08-03.html) Greening the Provincial Government webpage indicates "continuing to work with the federal government to establish an E85 fueling station in Winnipeg".</p>	Some of these policies/initiatives are in place with progress being made, some are still in progress, while for others information is unavailable.

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page 3	Sustainable Development Act addressing procurement policies	<p>ANALYSIS: The Sustainable Development Act includes provisions for procurement policies and reporting. 2005 Provincial Sustainability Report Appendix reports on procurement of alternative fuel vehicles, type and volume of fuel usage and GHG emissions from government buildings.</p> <p>VERIFICATION: Sustainable Development Act (http://web2.gov.mb.ca/laws/statutes/ccsm/s270e.php) includes requirements for Sustainable Development Procurement Guidelines (http://www.gov.mb.ca/gs/psb/sustainable_development_procurement_guidelines.pdf) SD Procurement Goals (May 2002) (http://www.gov.mb.ca/gs/psb/SD_Proc_Goals.pdf) (page 9), and a review of progress. Most recent report on Sustainable Development Procurement is contained in Appendix (page 65) of 2005 Provincial Sustainability Report</p>	No verification of procurement. No regular public reporting or updates available.

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and/or Energy Plan			
page 5	Climate Change Plans: "Kyoto and Beyond. Manitoba's Climate Change Action Plan" (Manitoba Science, Technology, Energy and Mines, 2002; update expected 2007) "Manitoba and Climate Change: Investing in Our Future" (Manitoba Climate Change Task Force, 2001) "Realizing Opportunities: Emissions Trading in Manitoba" (Task Force on Emissions Trading and the Manitoba Economy, 2004)	ANALYSIS: "Kyoto and Beyond" is five years old with no report on outcome. See Manitoba Wildlands' analysis of Kyoto and Beyond. <i>Manitoba's Climate Change Action Plan</i> (http://manitobawildlands.org/pdfs/Analysis-2002ActionPlan.pdf). See Manitoba Wildlands' analysis of the September 2001 Manitoba Climate Change Task Force report, <i>Manitoba and Climate Change: Investing in Our Future</i> (PART ONE - http://manitobawildlands.org/pdfs/Analysis-2001AxworthyTaskForce_FN.pdf ; PART TWO - http://manitobawildlands.org/pdfs/Analysis-PartTwo2001AxworthyRecs_FN.pdf). Although it is an important policy document, the Emissions Trading Task Force report, <i>Realizing Opportunities: Emissions Trading in Manitoba</i> (http://www.iisd.org/pdf/2004/climate_realizing_opportunities.pdf) is not a climate change plan	The Manitoba government is overdue to report to the public on progress regarding climate change plan commitments and policies. We recommend public accounting, using baseline data, for all GHG reduction actions.

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page 5	Energy Plans: "Energy in Manitoba" (Manitoba Science, Technology, Energy and Mines 2006) "2006 Power Smart Plan" (Manitoba Hydro) "Green and Growing" (Manitoba Science, Technology, Energy and Mines, 2006) "Provincial Sustainability Report for Manitoba" (Manitoba Conservation, 2005)	ANALYSIS: None of these reports fulfill the 2001 Climate Change Task Force recommendation to develop a provincial energy plan.	Manitoba Chambers of Commerce recommended a provincial Energy Plan. Election commitments in 1999 and 2003 for a provincial energy plan have not been fulfilled.

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Greenhouse Gas Emissions Target			
page 7	To work with individuals, businesses, communities and sectors of the Manitoba economy to bring emissions below 1990 levels by 2012	<p>ANALYSIS: According to publicly available information, Manitoba's emissions continue to rise and are not on track to meet this target.</p> <p>VERIFICATION: See Manitoba Wildlands' analysis of the 2002 report, <i>Kyoto and Beyond. Manitoba's Climate Change Action Plan</i> (http://manitobawildlands.org/pdfs/Analysis-2002ActionPlan.pdf). According to the National Inventory Report (http://www.ec.gc.ca/pdb/ghg/inventory_report/2004_report/ta12_14_e.cfm), 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>	Manitoba is overdue to report on progress regarding its GHG emissions reduction target. Actual reductions in relation to 1990 baseline must be supplied.

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Reporting			
page 8	"Provincial Sustainability Report" (Manitoba Bureau of Statistics, 2005)	<p>ANALYSIS: This report does not constitute reporting on climate change or GHG emissions in Manitoba.</p> <p>VERIFICATION: "Provincial Sustainability Report" (Manitoba Bureau of Statistics, 2005) (http://www.gov.mb.ca/conservation/sustainabilityreport/pdf/sust_report_2005.pdf) - contains three pages dedicated to climate change that could be considered reporting (page25): "In 2002, Manitoba ranked sixth among the provinces and territories with total greenhouse gas releases of 21,600 kilotonnes of CO2 equivalent."</p>	Document does not contain reporting on climate change or GHG emissions. We recommend future Provincial Sustainability Reports provide detailed information regarding GHG emissions by sector over time, and that sources for all data be provided. Reporting needs to be in relation to 1990 baselines/data.

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page 8	"Climate Change Action Plan" (Manitoba Science, Technology, Energy and Mines, 2002) includes reports on actions taken and reductions achieved	<p>ANALYSIS: The 2002 "Climate Change Action Plan" refers to actions already taken to address climate change but does not include reporting on reductions achieved. No sources to support projections are provided.</p> <p>VERIFICATION: 2002 report, <i>Kyoto and Beyond. Manitoba's Climate Change Action Plan</i> (http://www.gov.mb.ca/est/climate/pdf/final-mccap-sep-16-02.pdf) See Manitoba Wildlands' analysis of <i>Kyoto and Beyond. Manitoba's Climate Change Action Plan</i> (http://manitobawildlands.org/pdfs/Analysis-2002ActionPlan.pdf).</p>	This document does not contain reporting on GHG emissions.

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page 8	Climate change legislation to include regular reporting on GHG emissions and emission reduction actions (announced April 2007)	ANALYSIS: No draft legislation to date. Baseline data essential.	Legislation is not a reporting mechanism, should contain standards for reporting emissions.
page 8	Cross-border, multi-jurisdictional collaboration: Western Climate Initiative (states and provinces working together to identify, evaluate and implement ways to collectively reduce GHG emissions in the region and to achieve related co-benefits)	ANALYSIS: Western Climate Initiative commits members to report through The Climate Registry, which is not yet functional in terms of reporting - see above. No reporting through this initiative to date. VERIFICATION: Western Climate Initiative (http://www.westernclimateinitiative.org/)	No reporting in place to date.

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page 8	Climate Registry (mechanism for measuring, tracking, verifying and publicly reporting GHG emissions accurately, transparently and consistently across borders and industry sectors)	ANALYSIS: The Climate Registry is not yet operational; it is scheduled to begin accepting data in January 2008 VERIFICATION: The Climate Registry (http://www.theclimateregistry.org/) & (http://www.theclimateregistry.org/The_Climate_Registry_FAQs.pdf)	The Climate Registry is not yet operational - no reporting to date.
Public Education and Outreach			
page 10	Climate Change Connection: Public Awareness and Outreach hub	ANALYSIS: The Climate Change Connection is in place; established in January 2002. VERIFICATION: The Climate Change Connection (http://www.climatechangeconnection.org/)	Social enterprise model recommended with less government control.

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page 10	Projects and community actions: Manitoba Climate Change Action Fund (MCCAF), Green Manitoba, Manitoba Climate Change Community Challenge, Commuter Challenge	<p>ANALYSIS: These programs have strong uptake. MCCAF has ended and is currently being redesigned; The Commuter Challenge is an initiative of Resource Conservation Manitoba that is funded by Government of Manitoba</p> <p>VERIFICATION: Manitoba Climate Change Action Fund (MCCAF) launched 2001 - was a component of Sustainable Development Innovations Fund (SDIF), allocated only \$1 million over four years; program ended, webpage no longer functional (http://www.gov.mb.ca/est/climatechange/mccaf.html) MCCAF currently being redesigned (http://www.gov.mb.ca/est/climate/mb_doing/action_fund.html) Green Manitoba (http://www.greenmanitoba.ca/cim/1001.dhtm), Manitoba Climate Change Community Challenge (2004) - http://www.gov.mb.ca/chc/press/top/2004/04/2004-04-21-01.html, Commuter Challenge (http://www.resourceconservation.mb.ca/gci/CC/)</p>	Programs ended. Additional funding recommended.

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page 10	Publications aimed at community leaders and business	<p>ANALYSIS: Too vague for analysis.</p> <p>VERIFICATION: Unable to verify this statement.</p>	
page 10	Incorporation of climate change into school curricula	<p>ANALYSIS: Unable to locate any information on climate change curricula for schools.</p> <p>VERIFICATION: Search for curricula online did not result in materials.</p>	Unable to verify - but this is an important component of public education and outreach.
Rural			
page 12	Project support: support for projects including anaerobic digesters and ecological goods and services; biofuels, soil GHG mitigation	<p>ANALYSIS: Too vague for analysis.</p> <p>VERIFICATION: Unable to verify this statement.</p>	We recommend all project outcomes, reports, etc. be made publicly available - for example through a clearing house for case studies, successful goods, innovations.

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page 12	Planning and Outreach: nutrient management plans and buffer zones (limits on fertilizer application); Soil Testing Awareness Program; Manitoba Zero Tillage Research Association	<p>ANALYSIS: Nutrient management zones are specific to water quality protection zones. Outcomes from these programs specific to GHG reductions not available.</p> <p>VERIFICATION: Manitoba Water Stewardship (http://www.gov.mb.ca/waterstewardship/wqmz/index.html)</p>	GHG emissions reductions from initiatives such as these need to be quantified, and data methods made public.

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page 12	Loans and Incentives: Riparian Tax credit; Livestock Manure and Mortalities Management Regulation; carbon trading/offset systems opportunities for Manitoba agricultural producers; Retail Sales Tax Exemption for manure treatment equipment; BMP enhancement loans; environmental farm planning and associated Canada-Manitoba Farm Stewardship Program; controlled stubble burning	No carbon trading/offset system for agricultural procedures in place. Unclear how some of these programs reduce GHG emissions.	Certain of these are environmental management programs; relevance to GHG reductions not clear.

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Forestry			
page 14	Efforts to increase scientific and traditional knowledge (carbon storage, calculating credits)	<p>ANALYSIS: This statement is vague; specific information, outcomes about initiatives to increase scientific and traditional knowledge in relation to climate change not accessible.</p> <p>VERIFICATION: 2002 policy document - <i>Next Steps: Priorities for Sustaining Manitoba's Forests</i> (http://www.gov.mb.ca/conservation/forestry/reports/prioritiesdoc.pdf) commits to several initiatives to address objective to increase scientific and traditional knowledge. No reporting on outcomes from this policy.</p>	Need for explicit focus on forest management policies and research that address climate change. Standards for forest plan environmental licenses should include carbon inventory, tracking of carbon budget, and no net loss policy.
page 14	Increasing of co-management, employment and economic development opportunities for	<p>ANALYSIS: This is not a climate change policy.</p>	

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page 14	Forest Renewal Standards (to promote a sustainable forest economy)	ANALYSIS: No clear climate change standards or reporting in Forest Renewal Standards. VERIFICATION: Forest Renewal Standards (http://www.gov.mb.ca/conservation/forestry/forest-renewal/fr2-standards.html)	GHG emissions reductions from forest initiatives need to be quantified, and data methods made public. GHG accounting includes forest emissions and carbon inventory.
Transportation			
page 15	Biofuels: Biofuel legislation mandating 10% ethanol in 85% of gasoline products; biodiesel tax incentive; RFP support package to biodiesel producers	ANALYSIS: Policies and legislation confirmed, in place. No system to verify any emissions reductions from whole production and use cycle. www.gov.mb.ca/finance/taxation/bulletins/2006budget.pdf The Biofuels Amendment Act doesn't have specific targets: http://web2.gov.mb.ca/bills/38-5/b020e.php	These are essentially economic policy and legislation.

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page 15	Increased investments in public transit, biking and walking trails including: transit improvements including real-time electronic bus departure system; demonstration of hydrogen bus, refueling technology; demonstration of hybrid diesel-electric buses; urban freight practices; community-based travel marketing program pilot; Navigo on-line; and biodiesel French Fry	<p>ANALYSIS: These initiatives are in place. Considerably more public investment in transportation needed.</p>	No information available as to climate change impacts for these actions.

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 15	Emissions reduction programs including: Hybrid Car Rebate; Idle Free Zone program; electrified truck stop pilot project; 5% biodiesel in trucking fleet pilot project; and construction of a biodiesel fuelling station to provide B10 fuel to municipal fleet vehicles	ANALYSIS: Programs in place - except biodiesel fuelling station (status unknown). VERIFICATION: Hybrid Car Rebate (http://news.gov.mb.ca/news/index.html?archive=&item=1758); Idle Free Zone program (http://www.climatechangeconnection.org/Solutions/Idling.htm); 5% Biodiesel pilot project took place Oct 2006-March 2007 (http://www.naftc.wvu.edu/eNews/May07/aroundtheworld.html) - report not available online; March 2006 news release announces launch of model ethanol fuel station for government fleet. (http://www.gov.mb.ca/chc/press/top/2006/03/2006-03-08-03.html)	See recommendations for clearing house of successful innovations and programs. No reporting of outcomes as yet.
page 15	University of Winnipeg hosts Centre for Sustainable Transportation	ANALYSIS: Website outlines mission, activities, outcomes and provide access to research reports. VERIFICATION: Centre for Sustainable Transportation (http://cst.uwinnipeg.ca/)	This program is delivering results; Manitoba needs more websites like this designed to inform, provide access to information

Analysis - Government of Manitoba and Climate Change

Source: *Climate Change: Leading Practices by Provincial and Territorial Governments in Canada*

Council of the Federation, August 3, 2007

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
Primary Energy			
page 17	Achievement of status as North American leader in geothermal (ground source heat pumps) installations; training of over 50% of Canada's geothermal installers	ANALYSIS: Done, ongoing. VERIFICATION: Government of Manitoba - Earth Energy (http://www.gov.mb.ca/est/climate/mb_doing/earth_energy.html)	Similar programs needed for northern heating issues.
page 17	Loan program for geothermal installations	ANALYSIS: Done, ongoing. VERIFICATION: Residential Earth Power Loan (http://www.hydro.mb.ca/earthpower/loan.shtml)	See above.
page 17	Shutdown of 4 coal-fired units and conversion of 2 coal units to natural gas	ANALYSIS: Done VERIFICATION: Selkirk Generating Station (http://www.hydro.mb.ca/corporate/facilities/gs_selkirk.shtml); Brandon Generating Station (http://www.hydro.mb.ca/corporate/facilities/gs_brandon.shtml)	No public reporting as to emissions reductions.

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 17	Assisting off-grid communities to reduce reliance on fossil fuels (Manitoba Hydro)	ANALYSIS: Done VERIFICATION: 2006 Performance Report (http://www.hydro.mb.ca/environment/greenhouse_gas/performance.shtml) - number of communities served by diesel generation reduced to four from twelve	
Electricity			
page 19	96% of electricity is hydroelectric; new dams are low impact	ANALYSIS: There are no new dams yet; last dam completed in 1990s. (Wuskwatim still in construction stage)	Recommend clear distinction between actions taken and intended in all reporting.
page 19	Legislation that allows profits from export sales of renewable energy to be targeted toward energy efficiency for low income and First Nation housing	ANALYSIS: Unable to locate legislation or regulation that allows profits from export sales of renewable energy to be targeted toward energy efficiency for low income and First Nation housing.	Unclear. No verification.

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 19	Wind energy development including 100 MW wind farm and targets for 1 000 MW of production	<p>ANALYSIS: One wind farm in operation, others licensed.</p> <p>VERIFICATION: See Wind section of Manitoba Wildlands' Energy Development page (http://manitobawildlands.org/develop_hydro.htm#energy)</p>	Manitoba is actively promoting wind energy projects; there are no public guidelines or environmental licensing standards for wind projects.
page 19	Variety of industrial, institutional and residential energy efficiency programs (PowerSmart)	<p>ANALYSIS: Energy efficiency programs in place.</p> <p>VERIFICATION: PowerSmart Home Programs - residential and Commercial http://www.hydro.mb.ca/savings_rebates_loans.shtml</p>	Outcomes to date point to new targets, further programming success.

Analysis - Government of Manitoba and Climate Change

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Non-Energy Industry			
page 21	Manufacturing Tax Credit includes energy conservation equipment as eligible asset	<p>ANALYSIS: Unable to verify this statement</p> <p>VERIFICATION: Unable to access content on webpage re: Manufacturing Tax Credit (http://www.gov.mb.ca/iedm/invest/busfacts/govt/manuf_taxc.html)</p>	
page 21	Green Manufacturing Tax Credit	<p>ANALYSIS: Introduced as part of 2007 Budget, largely economic policy.</p> <p>VERIFICATION: Manitoba Government press release June 8, 2007 (http://news.gov.mb.ca/news/index.html?archive=2007-06-01&item=1764)</p>	No data as to emissions reductions.

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 21	Enhanced Oil Recovery Strategy	<p>ANALYSIS: This is an economic policy intended to "promote investment and increase oil production". GHG emissions reductions are theoretical only and are envisioned through injection for enhanced oil recovery and "storage of CO2 in oil reservoirs that would otherwise be released into the atmosphere".</p> <p>VERIFICATION: Manitoba Government press release July 17, 2006 (http://www.gov.mb.ca/chc/press/top/2006/07/2006-07-17-01.html)</p>	Storage of CO2 is unproven technology.
page 21	Cool Shops Manitoba (energy, waste, water conservation)	<p>ANALYSIS: No evidence of this program on the Government of Manitoba website.</p> <p>VERIFICATION: Cool Shops is an initiative of the Clean Air Foundation and targets retailers in Ontario (http://www.cleanairfoundation.org/coolshops/index.asp) Web search yielded no information about a Manitoba Cool Shops program.</p>	Not a Manitoba program.

Analysis - Government of Manitoba and Climate Change

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Construction			
page 22	Green Building Policy: all new buildings and major renovation projects by government or other organizations receiving provincial funding must be at least 33% better than the Model National Energy Code for Buildings and be certified LEED Silver or better	ANALYSIS: Policy is in place. VERIFICATION: Green Building Policy, April 2007 (http://www.gov.mb.ca/est/energy/green_bldg.html)	No reporting as to emissions reduction.
page 22	Information, guidelines, technical assistance and financial incentives for new construction and retrofits through Manitoba Hydro's PowerSmart programs	ANALYSIS: PowerSmart programs in place. VERIFICATION: PowerSmart Home Programs - Residential and Commercial http://www.hydro.mb.ca/savings_rebates_loans.shtml	See above.

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 22	New green buildings including Red River College and Winnipeg Airport Authority Terminal Redevelopment to be LEED Silver, and new Manitoba Hydro building designed to be among greenest corporate headquarters in world.	ANALYSIS: Red River College downtown campus building includes many energy efficiency features and reused and recycled building materials. Red River College Main Campus is <i>not</i> to LEED standards, needs extensive upgrade. Other buildings still under construction. VERIFICATION: Manitoba Government press release May 15, 2002 (http://www.gov.mb.ca/chc/press/top/2002/05/2002-05-15-02.html)	Recommend energy efficiency retrofit of Red River College main campus.
page 22	Photovoltaic demonstration projects	ANALYSIS: No analysis VERIFICATION: Unable to verify - statement not specific	
Waste Management			
page 24	Extended Producer Responsibility Strategy	ANALYSIS: Program in place; no information regarding GHG emissions reduction results, outcomes VERIFICATION: EPR - Green Manitoba (http://www.greenmanitoba.ca/cim/1001C1_1T94T3T285.dhtm)	

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 24	New regulations out for consultation	<p>ANALYSIS: 2007 public review, no public registry for comments or response. Not clear which regulation.</p> <p>VERIFICATION: Proposed Packaging and Printed Paper Stewardship Regulation (http://www.gov.mb.ca/conservation/pollutionprevention/waste/steward_reg_draft.pdf)</p>	Not yet in place.

Analysis - Government of Manitoba and Climate Change

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page 24	Landfill methane capture study	<p>ANALYSIS: Manitoba Hydro working with City of Winnipeg and Natural Resources Institute on study. Government indicates potential to reduce emissions by 350,000 tonnes per year; study not public.</p> <p>VERIFICATION: Climate and Green Initiatives (http://www.gov.mb.ca/est/climate/mb_doing/biofuels.html#biogas) Manitoba Hydro (http://www.hydro.mb.ca/environment/emerging_energy/emerging_energy_bioenergy_landfill_gas.shtml) Manitoba Government October 18, 2006 press release (http://news.gov.mb.ca/news/index.html?archive=2006-10-01&item=162)</p>	No details on outcomes.

Analysis - Government of Manitoba and Climate Change

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Land Use and Local Government			
page 26	Sustainable planning based on climate change adaptation and impacts on boreal forest and First Nations communities on east side of Lake Winnipeg	<p>ANALYSIS: Climate change is referenced in the East Side 2007 WNO Accord, only once. Planning at very early stages; only one land use plan completed to date.</p> <p>VERIFICATION: April 2007 WNO Accord (http://www.gov.mb.ca/conservation/wno/pdf/accord_april_3_2007.pdf) recognizes "that the boreal forest eco-system and communities in the region will face</p>	Election commitment 2007 (http://manitobawildlands.org/web_docs/election_mb07_main.htm#cc) shows understanding of boreal ecosystem as CO2 sink.
page 26	Watershed planning/evaluation of best management practices project	<p>ANALYSIS: No references to climate change, carbon, warming or greenhouse gas emissions in Water Protection Act or in sections pertaining to watershed management plan content. Watershed management plans have potential to help avoid climate change impacts. Watershed planning processes not public.</p> <p>VERIFICATION: Watershed management plans (http://www.gov.mb.ca/waterstewardship/reports/#watershed) Water Protection Act (http://web2.gov.mb.ca/laws/statutes/ccsm/w065e.php)</p>	Not clear if carbon retention a goal.

Analysis - Government of Manitoba and Climate Change

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page 26	Best management practices for managing manure on forage land project		Not clear relevance to climate change.
Adaptation			
page 27	Prairie Adaptation Research Collaborative (PARC)	Manitoba participates in collaborative (PARC) http://www.parc.ca/	Outcomes must be public. See clearing house recommendations.
Adaptation Planning			
page 28	Expansion of flood management infrastructure to include floodway around capital	Floodway currently surrounds Winnipeg, has for 50 years. Relevance to climate change adaptation not clear.	Potential climate change measures during expansion of floodway ignored. No carbon or emissions inventory.
page 28	Moving winter roads onto land	In progress. This is a safety issue due to thinner ice and shorter season.	
page 28	Integrated Watershed Management Planning	Stephenfield Lake and Swan Lake Basin (http://www.gov.mb.ca/waterstewardship/reports/#watershed)	Climate change criteria for watershed plan not clear.

Analysis - Government of Manitoba and Climate Change

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Adaptation Risk Assessment and/or Project Implementation			
page 30	Investment in research in funding for Prairie Adaptation Research Collaborative (PARC), a Climate Change Research Professor at University of Winnipeg, Centre for Earth Observation at University of Manitoba, Churchill Northern Studies Centre, private researchers, and Manitoba Climate Change Action Fund (MCCAF)	Certain of these funding investments are shared, including with Manitoba Hydro. Outcomes difficult to verify. MCCAF outcomes should be public.	All reports, outcomes from research investments need to be public. See recommendation for clearing house funding. Considerably more funding needed with cohesion for research objectives, access to outcomes.
page 30	Host of Centre for Applied Research in Sustainable Infrastructure (Red River College)	ANALYSIS: Centre opened April 2, 2007 VERIFICATION: Red River College April 2, 2007 press release (http://www.rrc.mb.ca/index.php?pid=2384&mid=3588&rid=133)	

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 30	Red River Floodway expansion initiative; Assessment of temperature trends affecting winter road season	<p>ANALYSIS: Reference to Red River Floodway expansion unclear, though flood patterns may be exacerbated by climate change.</p> <p>VERIFICATION: No information available regarding study to assess temperature trends and effects on winter roads; province has committed to converting winter roads to permanent roads (http://www.gov.mb.ca/est/climate/mb_doing/transportation.html)</p>	Emission reduction options and carbon inventory not part of environmental impact statement for Red River Floodway Expansion
Adaptation Support Tools			
page 31	Water Protection Act	<p>ANALYSIS: Act does not refer to climate change, although water protection plans have the potential to help avoid climate change impacts. Regulation or policy needed for water protection plans to address climate change</p> <p>VERIFICATION: Water Protection Act (http://web2.gov.mb.ca/laws/statutes/ccsm/w065e.php)</p>	Recommend regulation or policy to require watershed plans to address climate change.

Analysis - Government of Manitoba and Climate Change

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page 31	Water Stewardship Fund	<p>ANALYSIS: Fund priorities do not refer to climate change, although watershed protection has potential to help avoid climate change impacts.</p> <p>VERIFICATION: Water Stewardship Fund (http://www.gov.mb.ca/waterstewardship/water_info/wsf/)</p>	Recommend Fund priorities be expanded to addressing climate change.
page 31	Manitoba Climate Change Action Fund	<p>ANALYSIS: Program has ended - climate change projects still accepted by Sustainable Development Innovations Fund, but no funds dedicated for climate change projects. MCCAFA currently being redesigned.</p> <p>VERIFICATION: Manitoba Climate Change Action Fund (MCCAFA) launched in 2001 - component of the Sustainable Development Innovations Fund (SDIF) and allocated \$1 million over four years; program ended, webpage no longer functional (http://www.gov.mb.ca/est/climatechange/mccaf.html) MCCAFA currently being redesigned (http://www.gov.mb.ca/est/climate/mb_doing/action_fund.html)</p>	Funding for MCCAFA needs to be expanded; \$1 million over 4 years inadequate level of funding

Analysis - Government of Manitoba and Climate Change

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page 31	Waste Reduction and Pollution Prevention Fund	ANALYSIS: Fund priorities do not specify climate change, pollution prevention is one priority area. VERIFICATION: Waste Reduction and Pollution Prevention Fund (http://www.gov.mb.ca/conservation/pollutionprevention/wrapp/index.html)	Adequate air pollution reporting needed in Manitoba.
Monitoring and Reporting of Climate Change Impacts			
page 32	"Kyoto and Beyond. A Plan of Action" (Manitoba Science, Technology, Energy and Mines, 2002, update expected 2007)	No reporting in this report, no reporting of outcomes to date.	No monitoring or reporting since 2002.

Analysis - Government of Manitoba and Climate Change

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Type of Action / Sector	Council of the Federation Report (Manitoba)	Analysis - Manitoba Wildlands	Summary Comments - Manitoba Wildlands
page 32	"Provincial Sustainability Report for Manitoba" (Manitoba Conservation, 2005)	<p>ANALYSIS: This report does not constitute substantive reporting on climate change or GHG emissions in Manitoba.</p> <p>VERIFICATION: "Provincial Sustainability Report" (Manitoba Bureau of Statistics, 2005) (http://www.gov.mb.ca/conservation/sustainabilityreport/pdf/sust_report_2005.pdf) - contains three pages dedicated to climate change and only one general statement that could be considered reporting on climate change / GHG (page25): "In 2002, Manitoba ranked sixth among the provinces and territories with total greenhouse gas releases of 21,600 kilotonnes of CO2 equivalent."</p>	This document does not contain reporting on climate change commitments or GHG emissions. We recommend future Provincial Sustainability Reports provide detailed information regarding GHG emissions by sector over time and sources for all data be provided.

Analysis - Government of Manitoba and Climate Change

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page 32	Sustainable Development Procurement and Reporting, undertaken by each department on annual basis	<p>ANALYSIS: The Sustainable Development Act includes provisions for procurement policies and reporting. Appendix within 2005 Provincial Sustainability Report reports on procurement - procurement of alternative fuel vehicles, type and volume of fuel usage and GHG emissions from government buildings. No evidence of public annual reports.</p> <p>VERIFICATION: Sustainable Development Act (http://web2.gov.mb.ca/laws/statutes/ccsm/s270e.php) includes requirements for Sustainable Development Procurement Guidelines (http://www.gov.mb.ca/gs/psb/sustainable_development_procurement_guidelines.pdf) SD Procurement Goals (May 2002) (http://www.gov.mb.ca/gs/psb/SD_Proc_Goals.pdf) (page 9), and review of progress. Most recent report on Sustainable Development Procurement is contained in Appendix (page 65) of 2005 Provincial Sustainability Report (http://www.gov.mb.ca/conservation/sustainabilityreport/pdf/sust_report_2005.pdf)</p>	Annual reporting by department needed. We recommend Manitoba investigate intranet posting, and Budget Papers requirements used by other jurisdictions.

Analysis - Government of Manitoba and Climate Change

Source: *Climate Change: Leading Practices by Provincial and Territorial Governments in Canada*

Council of the Federation, August 3, 2007

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Research and Innovation			
page 33	Investment in research in form of funding for Prairie Adaptation Research Collaborative (PARC), Climate Change Research Professor at University of Winnipeg, Manitoba Hydro/NSERC Alternative Energy Chair at University of Manitoba; Centre for Earth Observation at the University of Manitoba; Churchill Northern Studies Centre; private researchers; and Manitoba Climate Change Action Fund	Repeat information. All outcomes should be public.	See our recommendations for climate change clearing house - making innovations, new best practices , methods available.

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page 33	Electric energy and vehicle to grid technology (Manitoba Hydro and NSERC Chair in Alternative Energy)	Manitoba Hydro research activities.	Outcomes needed.
page 33	Promotion of hydrogen technology: Hydrogen Transit Bus Cold Weather Testing (Vehicle Technology Centre); "Preliminary Hydrogen Opportunities Report" – Manitoba Energy Development Initiative, 2003; Hydrogen Centre of Expertise; MOU with Iceland	ANALYSIS: These are economic energy strategies: climate change outcomes not as yet clear.	
page 33	Manitoba Zero Tillage Research Association, mitigation of GHG emissions from Agriculture (Department of Soil Science, University of Manitoba)	ANALYSIS: In place. Reduction of tillage results in less fossil fuel usage. It increases chemical use, where full life emissions analysis is needed to determine net GHGs impact.	

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Energy Efficiency and Conservation			
page 35	Manitoba Hydro PowerSmart plan to achieve electricity savings of 616 MW and 1 669 GWh plus natural gas savings of 86 million cubic meters in residential, commercial and industrial sectors by 2017/2018 (since 1999, about 150 000 Manitobans participated in PowerSmart, reducing energy bills and saving 300 MW of power)	<p>ANALYSIS: Base year not provided. One half this objective realized by 2007. This indicates considerably more electricity savings are feasible. Full reporting that provides residential vs. commercial savings needed. Commercial sector goals/targets need to define and report on pollution reduction also.</p> <p>VERIFICATION: PowerSmart (http://www.hydro.mb.ca/your_home/what_is_power_smart/index.shtml) PowerSmart energy savings (http://www.hydro.mb.ca/your_home/what_is_power_smart/energy_savings.shtml)</p>	We recommend independent analysis of savings to date and new targets. All reporting needs to include specific GHG reductions, using baseline.
page 35	Small commercial incentive program (Green Manitoba/Manitoba Hydro)	<p>ANALYSIS: Various commercial incentive programs under PowerSmart</p> <p>VERIFICATION: PowerSmart - Commercial (http://www.hydro.mb.ca/your_business/savings_commercial.shtml)</p>	No data.

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page 35	Low Income Energy Efficiency program: retrofits including insulation, caulking and high efficiency showerheads and toilets	<p>ANALYSIS: This program is In place, underway.</p> <p>VERIFICATION: Manitoba Government November 29, 2006 press release (http://www.gov.mb.ca/chc/press/top/2006/11/2006-11-29-115500-523.html) & July 27, 2007 press release (http://news.gov.mb.ca/news/index.print.html?archive=&item=2023)</p>	Low income Manitobans pay the most for energy. Expansion of these pilot projects should be a priority.
page 35	Manufacturing Tax Credit includes energy conservation equipment as eligible asset	<p>ANALYSIS: Unable to verify this statement</p> <p>VERIFICATION: Unable to access content on webpage re: Manufacturing Tax Credit (http://www.gov.mb.ca/iedm/invest/busfacts/govt/manuf_taxc.html)</p>	

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Recently Announced Government Commitments on Climate Change			
page 37	Hydro development commitments to: build Conawapa dam, resulting in 1 250 MW additional power; develop 1 000 MW wind power over next decade.	ANALYSIS: This is a 2007 commitment, not in place yet (Conawapa not built or licensed, wind development in progress). These are economic strategies and do not result in emissions reductions.	These are energy development commitments. Loss of carbon from transmission corridors must be part of climate change accounting.

Analysis - Government of Manitoba and Climate Change

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page 37	Climate registry portal: establishment of recognized carbon credit registry through partnership agreement with Canadian Climate Exchange and Canadian Standards Association	<p>ANALYSIS: Climate Registry not yet operational; scheduled to begin accepting data in January 2008. This is a 2007 commitment, not in place yet.</p> <p>VERIFICATION: The Climate Registry (http://www.theclimateregistry.org/) & (http://www.theclimateregistry.org/The_Climate_Registry_FAQs.pdf)</p>	Public registries in Manitoba are in disarray. This registry will need to use baseline/base year data, carbon inventory, and clear reporting. Public access essential. Manitoba Hydro emissions data must be included.
page 37	Development of a "Made-in-Manitoba" vehicle standard: a vehicle emissions advisory board will receive recommendations (the board must look to California model in formulating recommendations)	<p>ANALYSIS: 2007 commitment, not in place yet.</p> <p>VERIFICATION: Manitoba Government Press Release, August 30, 2007 (http://news.gov.mb.ca/news/index.html?archive=&item=2219)</p>	Vehicle emissions standards are federal jurisdiction. Unclear how Manitoba would enforce. Insurance/licensing of vehicle present mechanisms.