





ANNEX TO CANADA'S SECOND BIENNIAL REPORT

TABLE 3: PROGRESS IN ACHIEVEMENT OF THE QUANTIFIED ECONOMY-WIDE EMISSION REDUCTION TARGET: INFORMATION ON MITIGATION ACTIONS AND THEIR EFFECTS

Table 3 of Canada's Second Biennial Report provides an overview of key policies and measures affecting Canada's greenhouse gas (GHG) emissions. Given the shared jurisdiction on climate change and energy issues in Canada, the table includes information on provincial and territorial policies and measures in addition to federal measures.

The methodology for estimating expected emissions reductions from individual measures may vary by implementing entity, and estimates of mitigation impact in 2020 have been included on an 'as provided basis' from the implementing entity (e.g., federal department, province or territory). Emission reduction estimates may not be available where there is insufficient detailed information about the measure to estimate the impact, where the measure has not been modeled individually and/or for supporting measures in cases where emission reductions are not the primary objective of the initiative. The mitigation impacts in 2020 have been estimated using a number of different methodologies that are not necessarily comparable.

Policies and measures in the planning stage are included and these are clearly distinguished from implemented policies and measures throughout the table. Emissions reduction estimates may not be available for planned measures as regulations or agreements have not yet been finalized and important elements of the measure such as stringency, timeframe for implementation, coverage and compliance flexibility may not be established.

Emissions estimates for individual measures cannot be added together to obtain total reductions and cannot be directly linked to Canada's integrated emissions projections in the "with current measures" scenario (presented in Section 5 of Canada's Second Biennial Report), given the interactive effects that may occur between different measures. There are interactive effects between federal and provincial measures, sectoral measures and between sectoral and cross-cutting measures. For example, the impact of energy efficiency regulations will be different when estimated individually than when estimated with regulations to reduce emissions from coal-fired electricity generation.

Canada's policies and measures are organized by economic sectors as follows: Electricity; Transportation; Oil and Gas; Buildings; Emissions-Intensive and Trade-Exposed Industries; Waste and others; Agriculture; Cross-cutting; and Land Use and Land-Use Change and Forestry (LULUCF).² Within the sectoral groupings, federal measures appear first, followed by provincial and territorial measures from west to east.

Table abbreviations include: Greenhouse gas (GHG), Kilotonne of carbon dioxide equivalent (kt CO2 eq), Megatonnes (Mt), Not estimated (NE), To be determined (TBD). Asterisk (*) indicates that the policy or measure has been incorporated into modeling of emission projections under the "with current measures" scenario of Canada's Second Biennial Report (presented in Section 5 of the report) using Environment and Climate Change Canada's energy, environment, and economy model (E3MC) and included in Canada's projections.

¹ The table may not reflect recent announcements from all jurisdictions.

Canada's 2015 National Inventory Report provides a detailed cross-walk of IPCC and economic sectors and further explains how adjustments are made between the two sectoral breakdowns.

Name of Mitigation Action	Sector(s) Affected	GHG(s) Affected	Objective and/or Activity Affected	Type of Instrument	Implementation Entity	Status of Implementation	Start Date of Implementation	Estimate of Mitigation Impact in 2020 (kt CO2 eq)		
ELECTRICITY										
Reduction of CO ₂ Emissions from the Coal-Fired Generation of Electricity Regulations*	Electricity	CO ₂	To reduce GHG emissions from coal-fired electricity generation	Regulatory	Environment and Climate Change Canada	Implemented	2015	3,100		
Brief Description	Regulations under the Canadian Environmental Protection Act, 1999 apply a performance standard to new coal-fired electricity generation units and to existing units once they reach a defined period of operating life (generally 50 years). The performance standard of 420 tonnes of CO2 per gigawatt hour came into force July 1, 2015. GHG reductions are estimated at 3,100 kt of CO2 emissions in 2020, and 24,300 Kt in 2030, relative to 2005 levels. The regulations are projected to result in a net reduction of approximately 214 Mt CO2 eq of GHG over the period 2015–2035.									
ecoENERGY for Renewable Power program	Electricity	CO ₂	To reduce GHG emissions by increasing renewable electricity supply in Canada	Economic	Natural Resources Canada	Implemented	2007	6,240		
Brief Description	The program off project built before		ve of 1¢ per kilowatt-hour of 2011.	electricity prod	uced over a period of ten y	ears from a qualifying	g low-impact renewab	le energy		
British Columbia Clean Energy Act: Clean or renewable electricity requirement*	Electricity	CO ₂ , CH ₄	To maintain low carbon electricity supply	Regulatory	British Columbia	Implemented	2010	3,000		
Brief Description			s that British Columbia will s by 3,000 to 3,700 kt in 2020		t 93% of their electricity fr	om clean or renewab	le sources. It is estima	ted that this		
British Columbia Clean Energy Act: Demand Side Management	Electricity	CO ₂	Reduce electricity demand	Regulatory	British Columbia	Implemented	2010	130		
Brief Description		BC Hydro is required to meet 66% of its incremental electricity demand through demand side management. Approximately 130 kt CO2 eq (at emissions intensity of 13 tonnes/GWh) will be reduced in 2020.								

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SaskPower Electricity Initiatives	Electricity	CO ₂	To reduce GHG emissions from fossil fuel electricity generation and enhance the supply of renewables	Voluntary Agreement	Saskatchewan	Implemented	2007	260		
Brief Description	SaskPower: technology CO2 reduct Renewables generation of hydro proje of its electri Customer S will have be CO2e intens 10-year Win to offset CO	20+ Year Supp or natural gas ions from med Plan (2015): I demand that v cts (50 MW ir city generation ervice Program en offset duri sity). This pro d Plan (2007) to emission gr	several initiatives to reduce oly Plan (2012): SaskPower's generation, either of which eting compliance obligation Programs for flare gas power would otherwise result in ac a 2019) to further reduce the on capacity from renewable m: SaskPower Demand Side ing the period 2005 to 2020 gram is estimated to result : SaskPower's plan is to impowth that would have other power to account for 9% of	current plan is to a would meet the as are estimated or generation, net dditional emission e share of fossil f energy by 2030. Management pr and 626 kt CO2 in a reduction of olement wind porwise resulted ha	o replace five conventional e established 420 t/GWh st to be 1818 kt inclusive to the metering (solar, wind), sm ons. Imports contracts with uel generation. In 2015, Sas romotes energy efficiency, eq will have been offset during 35.3 kt Co2eq in 2020, wer by 100 MW segments ind the capacity been met by	coal-burning general candard for new coal general general power producer (a Manitoba Hydro (10 katchewan announce gecause of its programing the period 2005	ting units with either generating units. Cum 836 kt inclusive to the biomass, landfill gas) o MW in 2015, 125 MV ed that it would have a to 2030 (based on estimated that it would section 2030). These initiatives are	clean coal nulative net e end of 2030. reduce the W by 2022) and a target of 50% at ~353 kt CO2e mated system expected		
Manitoba Emissions Tax on Coal and Petroleum Coke Act *	Electricity		To reduce GHG emissions from coal and petroleum coke	Regulatory	Manitoba	Implemented	2013	NE		
Brief Description	plans must be in	nplemented b	oke for space heating effect y June 2017. Funds from Ma aining coal facility by 2019.							
Manitoba Coal and Petroleum Coke Heating Ban Regulation	Electricity		To reduce GHG emissions from coal and petroleum coke	Regulatory	Manitoba	Implemented	2013	NE		
Brief Description		Ban on the use of petroleum coke for space heating effective December 31, 2012. Coal users must submit plans for converting away from coal in June of 2014, plans must be implemented by June 2017. Funds from Manitoba's emissions tax on coal are redirected to support transition from coal to biomass.								
Manitoba Coal Fired Emergency Operations Regulation	Electricity	CO ₂	To restrict Manitoba Hydro's use of coal	Regulatory	Manitoba	Implemented	2009	NE		
Brief Description			toba Hydro's use of coal to g Brandon, Manitoba.	generate power t	o emergency operations. M	Ianitoba Hydro's last	remaining coal-fired f	facility is		

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Ontario Coal Phase- Out*	Electricity	CO ₂	To eliminate coal-fired electricity generation and the associated GHG emissions	Regulatory	Ontario	Implemented	2007	30,000	
Brief Description	gas, refurbished up to 30 Mt anni	Ontario eliminated coal-fired electricity generation in April 2014. Ontario replaced coal with increased conservation and cleaner energy sources like natural as, refurbished nuclear, solar, biomass and wind. The Ontario government estimates that this policy reduced GHG emissions from the electricity sector by 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003. Ontario enshrined its commitment in the Cessation of Coal Use Regulation (2007), which set an end date of December 31, 10 to 30 Mt annually since 2003.							
Ontario Feed-In Tariff Program and Large Renewable Procurement*	Electricity		To support the development of renewable and clean energy sources	Economic	Ontario	Implemented	2009	NE	
Brief Description	solar photovolta procurement con had received cor 4,000 MW of ca In 2014, Ontario greater than 500 photovoltaic, wa renewable proce be considered for The contract off and include: 5 wind cont 7 solar cont	ic, bioenergy ntracts for eligitracts, representation of the launched and with the launched and with the launched and the launched and the launched and comparement including a contract.	am was developed in 2009 to and hydroelectricity for electricity for electrici	ctricity generating ects, under a state (MW) of capa own as Large Reproducement have reproduced average price of average price of ed average price eighted average	ng projects in Ontario. This indard set of rules. As of Secity. This includes approximate a procurement, for it is a procurement target of rocurement process introduces in the procurement process introduces in the procurement process in the procure of the procurement process in the procure of the procurement process in the procure of	s program provides lo ptember 30, 2015, mo mately 200 large-scale procuring electricity (565 MW, and was ope luced strong competi a price bid for their p ; only projects priced	ng-term fixed price el re than 3,200 Feed-in e projects that accoun from renewable project en to onshore wind, so tion between develop proposed projects. The at or below those price	lectricity Tariff projects It for over cts generally olar eers of large e Large ce caps would	
New Brunswick - Electricity Act Renewable Portfolio Standard Regulation*	Electricity		To achieve 40% of renewable energy	Regulatory	New Brunswick	Planned	2014	630	
Brief Description	The Electricity fi Blueprint Policy		le Resources Regulation rec	juires 40% of ele	ctricity supply to be from 1	renewable sources by	2020, consistent with	the Energy	

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Nova Scotia Electricity Sector Regulations*	Electricity	CO ₂ , HFCs, CH ₄ , N ₂ O, SF ₆ , PFCs	To reduce GHG emissions from the electricity sector and to increase the share of clean energy in the province's energy use	Regulatory	Nova Scotia	Implemented	2009, 2010	2,500	
Brief Description	• Greenhouse facilities. Fr and further in An Agree in Nova Sco Regulations	Nova Scotia has implemented two separate regulations to address emissions from the electricity sector and enhance the supply of renewables, which are together expected to result in emission reductions of 2,500 kt Co2eq in 2020: Greenhouse Gas Emissions Regulations (2009): Nova Scotia has implemented a mandatory declining cap on GHG emissions from electricity generation facilities. From a baseline of 10.2 MT (2007) the decreases are scheduled in progressive steps so the emissions will decline to 7,500 kt or below by 2020 and further to 4,500 kt or below by 2030. Total electricity GHG reduction in Nova Scotia for 2007 to 2030 will be at least 5,500 kt CO2 eq. As outlined in An Agreement on the Equivalency of Federal and Nova Scotia Regulations for the Control of Greenhouse Gas Emissions from Electricity Producers in Nova Scotia, the provisions of the Government of Canada's Reduction of Carbon Dioxide Emissions from Coal-Fired Generation of Electricity Regulations do not apply in Nova Scotia because the Nova Scotia Greenhouse Gas Emissions Regulations achieve an equivalent outcome. Renewable Electricity Regulations (2010): These Regulations require 25% of electricity supply to be generated from renewable sources by 2015 and 40% by 2020. This will involve the adoption of a diverse mix of energy sources including wind, tidal, solar, hydro and bioenergy.							
Nova Scotia Electricity Efficiency Regulations*	Electricity		To use energy more efficiently	Regulatory	Nova Scotia	Implemented	2009, 2014	1,300	
Brief Description	lower cost than pand residential comitigation impa	producing povensumers. Ta ct is provided	servation Restructuring Act ver. Efficiency resources are argets for electricity efficien because GHG reductions a Emissions Regulations.	provided by an cy are guided by	independent franchise ("E a periodic Integrated Reso	fficiency Nova Scotia ource Plan required b	or ENS) for commercy the Utility Board. No	cial, industrial, o estimate for	
Newfoundland and Labrador Lower Churchill Project (Muskrat Falls)*	Electricity	CO ₂ , CH ₃ N ₂ O	To increase the share of clean energy in the province's energy use	Economic	Newfoundland and Labrador	Planned	2018	1,200	
Brief Description	the province's Gl provincial enviro	HG emissions onmental app	the 824 megawatt Muskrat . The second phase of the I roval. The project will also o l exports sales may also resu	Lower Churchill i contribute to an o	Project includes the 2200 Project includes the 2200 Project includes the 2200 Project in the 2200 Project includes the 220	MW Gull Island Proje	ct that has received fe	ederal and	

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Prince Edward Island Renewable Energy Act	Electricity		To pursue cleaner sources of energy and reduce reliance on imported energy	Regulatory	Prince Edward Island	Implemented	2005	NE		
Brief Description	The province has Act also establish	s achieved thi ned minimum d homeownei	quires utilities to acquire at s target. Currently about 25 purchase price utilities mu s, small businesses or farm	% of PEI's electri st pay for power	icity consumption is source produced by large-scale re	ed from on-island wir newable energy gene	nd farms. The Renew rators and makes it e	able Energy conomically		
Northwest Territories Arctic Energy Alliance	Electricity		To educate, raise awareness and help residents of the Northwest Territories adopt energy saving best practices	Education	Northwest Territories	Implemented	2007	NE		
Brief Description		and hosts an	nce provides free informati nual Energy Actions Award							
Yukon Independent Power Production Policy	Electricity	CO2, CH4, N2O	Reduced diesel consumption for electricity and heat generation	Information, Economic	Yukon	Implemented	2015	NE		
Brief Description	non-utility elect	ricity produce	The Government of Yukon lars to sell electricity to Yuko photovoltaic) systems.							
Yukon Microgeneration Policy	Electricity	CO ₂ , CH ₄ , N ₂ O	Reduced diesel consumption for electricity and heat generation	Information, Economic	Yukon	Implemented	2014	41		
Brief Description	and connect the	imall scale power producers: The Government of Yukon's Microgeneration Policy enables individuals and businesses to install electrical generating systems and connect them to the grid. The electricity generated is consumed on site and any surplus can be sold into the grid. Since it was announced in October o13, 12 microgeneration systems have been installed which are expected to generate 41,000 kWh per year.								

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			TRANS	SPORTA	ATION			
Light-Duty Vehicle GHG Regulations:	Transportation	CO2, CH4, N2O	To reduce GHG emissions from the on-road transportation	Regulatory	Environment and Climate Change Canada	Implemented	2011	13,000
Phases 1 and 2*			sector		Curiuuu			
Brief Description	The regulations Canada for model model years.	establish prog el years 2011-2	gressively stringent GHG en 2016. The regulations were a	nission standard mended in 2014	s to new passenger automo to extend progressively str	biles and light trucks ingent GHG emissior	s manufactured or imposs standards to includ	ported into e 2017-2025
Heavy Duty Vehicle GHG Regulations*	Transportation	CO ₂ , CH ₄ , N ₂ O	To reduce GHG emissions from the on-road transportation sector	Regulatory	Environment and Climate Change Canada	Implemented	2014	3,000
Brief Description			ncreasingly stringent annua he years 2014–2018.	l GHG emissions	s standards to new on-road	l heavy-duty vehicles	and engines imported	d or
Federal Renewable Fuels Regulations*	Transportation	CO ₂	To regulate renewable content in fuel	Regulatory	Environment and Climate Change Canada	Implemented	2010	4,000
Brief Description	Provinces such a include the Albe Renewable Diese	s Alberta, Brit rta Renewable el Program, O	e 5% renewable fuel conten ish Columbia and Ontario a e Fuel Standard Regulation, ntario Ethanol in Gasoline l grams for renewable fuels, i	also have renewa British Columbi Regulation and C	ble fuel regulations in their a Renewable and Low Carb Ontario renewable fuel requ	r respective jurisdictio oon Fuel Requirement uirements for gasoline	s Regulation, Saskato and diesel. Certain o	hewan ther provinces
Carbon Dioxide Standards for Aviation	Transportation	CO ₂	To reduce GHG emissions from new airplanes	Regulatory	Transport Canada	Planned	TBD	NE
Brief Description			development of a new inter nce it has been finalized and				ivil Aviation Organiza	ntion. Canada
Canada's Action Plan to Reduce GHG Emissions from Aviation	Transportation	CO ₂ , CH ₄ , N ₂ O	To reduce GHG emissions from the aviation sector	Voluntary Agreement	Transport Canada	Implemented	2012	NE
Brief Description	A comprehensive voluntary approach that includes all segments of the Canadian aviation sector, from airlines and airports to air traffic navigation and aircraft manufacturers, the Action Plan sets an aspirational goal to improve fuel efficiency from a 2005 baseline by an average annual rate of at least 2% per year until 2020. The Action Plan forms the basis for the Government of Canada's response to the International Civil Aviation Organization's Assembly Resolution A37-19, which encouraged Member States to submit national action plans by June 2012 setting out measures each state is taking or will take to address international aviation emissions.							

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Regulatory Cooperation Council Locomotive Emissions Initiative	Transportation	CO2, CH4, N2O	To reduce GHG emissions from locomotives operating in Canada and the U.S.	Voluntary Agreement	Transport Canada	Adopted	ТВО	NE		
Brief Description		missions fron	itiative is a joint voluntary and locomotives. The initiative n locomotives.							
Memorandum of Understanding between Transport Canada and Rail Industry for Reducing Locomotive Emissions	Transportation	CO2, CH4, N2O	To reduce GHG emissions from railway locomotives operated by Canadian railway companies in Canada	Voluntary Agreement	Transport Canada	Implemented	2011	NE		
Brief Description	A Canadian indu GHG emission ii Memorandum w	ntensity from	nent Memorandum of Under rail operations and help pro April 2013.	erstanding, for the otect the health a	e 2011-2015 time period, wl and environment for all Ca	nich includes measur nadians as well as add	es, targets and action dress climate change.	s to reduce The		
Energy Efficiency Requirements for Marine Vessels	Transportation	CO2, CH4, N2O	To reduce GHG emissions from international shipping	Regulatory	Transport Canada	Implemented	2013	366		
Brief Description	the Prevention o above to have a S Additionally, und energy efficiency	f Pollution fro Ship Energy Ef der the regula by 30% by 20	egulations to implement ne om Ships administered by the ficiency Management Plan- tions, new vessels of 400 gro 125. The Energy Efficiency D tternational standards to the	ne International loon board, stating oss tonnages and Design Index requ	Maritime Organization. Th how each vessel will incre above must meet Energy E iirements do not apply to d	e regulations require ase energy efficiency Efficiency Design Inde omestic vessels voyag	all vessels of 400 gros to reduce greenhouse ex requirements that v ing only in Canadian	s tonnage and gas emissions. vill increase waters, as it		
Energy Efficiency Requirements for Canadian Marine Vessels that Serve Domestic Trade	Transportation	CO2, CH4, N2O	To reduce GHG emissions from domestic shipping	Regulatory	Transport Canada	Planned	TBD	NE		
Brief Description	Design Index red domestic service The technical re	New Canadian ships that serve domestic trade within Canada are currently exempt from the International Maritime Organization's Energy Efficiency Design Index requirements. A technical review found that when the international Energy Efficiency Design Index standard is applied to Canadian ships on domestic service, which are smaller and use shorter routes, the results would reduce the energy efficiency of these ships and increase their CO ₂ emissions. The technical review recommended ways to apply the Energy Efficiency Design Index to yield the intended results; Transport Canada plans to implement adjusted domestic Energy Efficiency Design Index standards in the future.								
Shore Power Technology for Ports Program	Transportation	CO2, CH4, N2O	To reduce GHG emissions from docked ships	Economic	Transport Canada	Implemented	2011	7		

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Brief Description			for Ports Program provides g into the local electrical gr					an ports. This		
ecoTECHNOLOGY for Vehicles Program	Transportation	CO ₂ , CH ₄ , N ₂ O	To support the development of low-emission vehicle regulations, standards, codes, protocols, guidelines, and related instruments	Research, Information	Transport Canada	Implemented	2011	NE		
Brief Description	advanced light-ovehicle emission development of not expected to overhicle advanced to overhicle advanced light-overhicle emission.	luty vehicle ar s regulations; non-regulator directly result	hicles program tests, evaluand heavy-duty vehicle techn to guide the proactive devery industry codes and stand in emission reductions; ho more low-emission vehicle	nologies. The eco elopment of new lards to help inte wever, it will info	TECHNOLOGY program s or revised safety regulation grate new vehicle technolo orm the development of Ca	shares technical findi ns, standards, codes a gies into Canada. Th nnada's light-duty veh	ngs to inform the dev and guidelines; and to e ecoTECHNOLOGY	elopment of support the program is		
Truck Reservation System Program	Transportation	CO2, CH4, N2O	To reduce GHG emissions associated with port-related trucking activity at Canada's major container ports	Economic	Transport Canada	Implemented	2013	NE		
Brief Description	improve port-tru The Truck Reser truck movement	cking efficien vation System s within port	s Program provides funding cy and environmental performance Program is currently work areas to better measure GH aroughout the course of ind	ormance (e.g., red ing with project IG emissions on	ducing truck idling, wait tin proponents (notably Cana an ongoing basis and also i	mes at port terminals, dian Port Authorities	and congestion on acs), to gather more con	cess roads).		
British Columbia Clean Energy Vehicles Program	Transportation		To reduce GHGs in transportation	Economic	British Columbia	Implemented	2011	18		
Brief Description	infrastructure fo	r these vehicle	m December 2011-March 20 es. A \$10.6 million phase 2 0 March, 2016 for \$6.9 millio	of the Clean Ener						
British Columbia's Renewable and Low Carbon Fuel Requirements*	Transportation	CO2, CH4, N2O, PFCs, HFCs, SF6, NF3	Reduce GHG emitted from fuels, on lifecycle basis	Regulatory	British Columbia	Implemented	2008	NE		
Brief Description		ne Regulation requires a minimum renewable fuel content for the fuel supplied in British Columbia (5% for gasoline, 4% for diesel) and requires fuel ppliers to reduce the average carbon intensity of transportation fuels by 10% by 2020.								

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Alberta GreenTRIP	Transportation		To increase the accessibility and use of public transit in Alberta	Economic	Alberta	Implemented	2010	50
Brief Description	This is a \$2 billio	n one-time ca	pital funding program that	supports new a	nd expanded public transit	in Alberta. To date, 1	3 projects are receivir	ng funding.
Metrolinx: The Big Move: Transforming Transportation in the Greater Toronto and Hamilton Area (Ontario)*	Transportation	CO ₂ , CH ₄ , N ₂ O	A range of goals, including but not limited to increasing range of options for transportation, safe and secure mobility, and a smaller carbon footprint and lower GHG emissions	Economic	Ontario	Implemented	2008	3,900
Brief Description	Released in 2008, The Big Move is a 25-year Regional Transportation Plan that aims to improve regional transportation, bolster global competitiveness, protect the environment and enhance quality of life in the Greater Toronto and Hamilton Area. There are already over \$16 billion worth of transit expansion and improvement projects underway in the Greater Toronto and Hamilton Area in support of The Big Move, including the Union-Pearson Express, Eglinton Crosstown Light Rail Transit and the York VIVA Bus Rapid Transit projects. Expansion of the existing transit network and the implementation of new transit projects/initiatives will result in GHG reductions by managing congestion and attracting new transit riders who would otherwise drive. Some of the goals of The Big Move include lowering GHG emissions and creating a smaller carbon footprint through the creation of a transportation system that will operate sustainably within the capabilities of, and in balance with, the Greater Toronto and Hamilton Area ecosystems. In addition to these earlier investments, the Province is committed to building an integrated transportation network across the province through the Moving Ontario Forward plan, which will invest \$31.5 billion over 10 years for transit, transportation and other priority infrastructure projects across Ontario. Investing in new transit and transportation initiatives will help to manage congestion and improve mobility, thus improving quality of life for residents and supporting GHG emission reductions. Emission reductions for Ontario's transportation sector are combined. Combined estimated mitigation impact of 3.9 Mt applies to initiatives related to: The Big Move Regional transportation plan and Growth Plan for the Greater Golden Horseshoe; passenger vehicle efficiency regulations; truck speed limiter regulation; municipal hybrid bus purchase and Green Commercial Vehicle Program; Ontario ethanol regulation; other related transportation initiatives.							

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Ontario Electric Vehicle Incentive Program	Transportation	CO ₂ , CH ₄ , N ₂ O	To accelerate the uptake of electric vehicles in the province	Economic	Ontario	Implemented	2010	NE
Brief Description	plug-in hybrid el Vehicles wit of the vehicles Vehicles wit Vehicles wit Vehicles wit Leased vehic 124 12 Vehicles wit an incentive Purchase in date of the p Applicants that is	h a battery ca le. h a battery ca le. h a battery ca h five or more h a Manufact tooo. cle incentives months lease months lease months lease emonths lease centives are no purchase or le received an El le purchase ar electric vehicle Chargers Onta	ectric Vehicle Incentive Pro ad installation of an eligible e stations in cities, along hi ario program. This is an ena	the of the incent -hours are eligible h are also eligible h additional \$1,00 e of \$75,000 to \$1 th of the lease: e incentive value incentive value e greater than \$1 nufacturer's Sug gram incentive a Level 2 charging ghways and at w	ive is based on the vehicle's le for incentives ranging be e for an additional \$3,000 in the form of the date of put is a second of the date of the d	s battery capacity and etween \$6,000 to \$10,000 neentive. The relative are elicated after February and the Electric Vehicle Class investing up to \$2 and ominiums, and pulled the Electric Went and pulled and and pulled the Electric Went and Electri	I includes the following the batte ooo based on the batte ooo based on the batte of	ery capacity incentive ger eligible for the MSRP on gram for up to tte a network ario under the
Ontario's Drive Clean program	Transportation	CH ₄ , N ₂ O CO ₂	To reduce smog-causing pollutants from vehicles	Regulatory	Ontario	Implemented	1999	NE
Brief Description	Ontario's Drive Clean Program is a mandatory vehicle emissions inspection and maintenance program for light-duty and heavy-duty vehicles. Light-duty vehicles registered in the program area are required to be tested biennially, and all heavy-duty vehicles registered in the province must be tested annually unless a biennial testing incentive is earned. Carbon dioxide emissions are reduced by improved vehicle fuel efficiency from program-mandated repairs.							

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Quebec Transportation Electrification Initiatives*	Transportation	CO ₂ , CH ₄	Reduce GHG emissions in the transportation sector. Accelerate the deployment of electric vehicles and associated infrastructure	Economic	Quebec	Implemented	2012	150
Brief Description	electric tranfor 2020: - Re - Re - Ha - The Drive E wish to acque bought or re - The Branch The financia	- Reach 100,000 electric vehicles and rechargeable hybrids;						
Quebec Eco trucking program	Transportation	CO2, CH4, N2O	Reduce the GHG emissions from the transportation sector.	Economic	Quebec	Implemented	2013	NE
Brief Description	This program aims to promote the use of equipment and technology to improve energy efficiency while reducing greenhouse gases in the transportation of goods. The Eco-trucking program is divided into four components: 1. Technology acquisition: Through this component, the program financially supports applicants to allow them to acquire a technology that has been evaluated and is on the list of technologies eligible for funding. 2. Approval of a technology: The program financially supports applicants to allow them to approve technology so it can be on the list of technologies eligible for financing. 3. Demonstration of a technology: The program aims to increase the means available to companies in the transportation of goods in order to reduce their greenhouse gas emissions. To do this, it supports the completion of various projects related to trucking that show potential in reducing greenhouse gas emissions. 4. Logistics: The program supports the completion of projects that will improve the logistics of companies in the transportation of goods logistics with the objective of reducing greenhouse gas emissions.							

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Quebec energy efficiency program for marine, air and railway transportation	Transportation	CO ₂ , CH ₄ , N ₂ O	Reduce GHG emissions in the transportation sector	Economic	Quebec	Implemented	2013	NE		
Brief Description			or avoid GHG emissions by i ularly through the use of m							
Quebec program aiming to reduce or avoid greenhouse gas emissions through the development of intermodal transportation	Transportation	CO ₂ , CH ₄ , N ₂ O	Reduce GHG emissions in the transportation sector.	Economic	Quebec	Implemented	2013	NE		
Brief Description	The program ain marine and railw	ns to reduce o vay services.	r avoid GHG emissions gene	erated by the tra	nsportation of goods or pe	ople by installing into	ermodal projects and	by promoting		
Quebec regulation on the activation of speed limiters with a maximum of 105 km/h	Transportation	CO ₂	Reduce GHG emissions of heavy vehicles	Regulatory	Quebec	Implemented	2009	NE		
Brief Description			eed limiters must be activa nywhere whose trucks use			nt vehicles from exce	eding 105 km/h. This	measure is for		
			OII	AND (GAS					
Regulations to address methane in the oil and gas sector	Oil and Gas	CH4	To reduce emissions from methane in the oil and gas sectors in Canada	Regulatory	Environment and Climate Change Canada	Planned	TBD	NE		
Brief Description		by 2025. To i	on March 10, 2016, Canada mplement this commitmen ources.							
British Columbia Flaring and Venting Reduction Guideline	Oil and Gas	CH ₄	To reduce flaring and venting in the oil and gas sector; routine flaring eliminated	Regulatory	British Columbia	Implemented	2010	125		
Brief Description		Applies to the flaring, incineration and venting of natural gas at well sites, facilities and pipelines. The 2020 estimate of mitigation impact for this regulation assumes a drop of 80 million cubic meters of flaring annually.								

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British Columbia Liquefied Natural Gas Benchmark	Oil and Gas	CO ₂ , CH ₄	To reduce GHG emissions	Fiscal	British Columbia	Implemented	2013	900	
Brief Description	using clean ener the Greenhouse Regulation, GHO into consideration	The LNG facilities are required to meet the emissions intensity benchmark of 0.16 t CO2e/t LNG either through adopting more efficient technologies, using clean energy, investing in offsets, or purchasing "funded units" at CA\$25/tonne that contribute to clean technologies. Three regulations brought the Greenhouse Gas Industrial Reporting and Control Act into force, effective January 1, 2016. These include: Greenhouse Gas Emission Reporting Regulation, GHG Emission Control Regulation and GHG Emission Administrative Penalties and Appeals Regulation. The 2020 mitigation estimate takes into consideration each 10 Mt facility with a business-as-usual emissions intensity of the global average (0.25 t CO2e/t LNG) and the 0.16 t CO2e/t LNG benchmark for British Columbia.							
Alberta Carbon Capture and Storage Investments*	Oil and Gas	CO ₂	To fund carbon capture and storage projects in Alberta	Economic	Alberta	Implemented	TBD	2,760	
Brief Description	and the Alberta Oil Sands Upgra be sold for inject the Government	Two large-scale carbon capture and storage demonstration projects currently under development will capture CO2 from upgrader facilities: the Quest project and the Alberta Carbon Trunk Line project. Beginning in 2015, the Quest project is expected to capture and store over 1Mt CO2 per year from Shell's Scotford Oil Sands Upgrader. In addition, the Alberta Carbon Trunk Line project will collect CO2 from the North West Redwater Oil Sands Upgrader which will then be sold for injection into mature oil fields, after which it will be permanently stored. This project is expected to capture up to 1.2 Mt of CO2 per year. To date, the Government of Alberta has invested \$1.3 billion in carbon capture and storage technologies. The 2020 mitigation estimate for these investments are included under the Specified Gas Emitters Regulation.							
Alberta Directive o6o Upstream Petroleum Industry Flaring, Incinerating and Venting*	Oil an Gas	CH ₄ ,CO ₂	To reduce flaring and venting in the oil and gas sector, goal of working toward elimination of all nonroutine flaring and venting	Regulatory	Alberta	Implemented	1999	4,000	
Brief Description	these activities a	nd to ensure t ts are also alig	loped in consultation with that public safety concerns ned to ensure compliance v	and environmen	tal impacts are addressed l	pefore beginning to fl	are, incinerate, or ven	t. Directive	
Saskatchewan: Directive S-10 Saskatchewan Upstream Petroleum Industry Associated Gas Conservation Directive & Directive S-20 Upstream Flaring and Incineration Requirements	Oil and gas	CH4	To reduce flaring and venting in the oil and gas sector. Goal is to eliminate all routine flaring and venting (>900 m³/day).	Regulatory	Saskatchewan	Implemented	2012	NE	

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Brief Description	Applies to the fla	aring, incinera ls and facilitie	ation and venting of natural es was July 1, 2012 for new we	gas at oil well si ells and facilities	tes and facilities. This regu and July 1, 2015 for wells ar	latory directive is sup nd facilities existing p	oported by Minister's prior to 2012.	Order. Start
Manitoba: Implementation of World Bank Voluntary Standard for Gas Flaring	Oil and gas	CH4	Reduce flaring and venting of gas	Voluntary agreement	Manitoba	Implemented	2005	NE
Brief Description	associated with of and to work in co September 2005,	Voluntary Standard for Global Gas Flaring and Venting Reduction provides guidance on how to achieve reductions in flaring and venting of gas ociated with crude oil production worldwide. The parties supporting this Standard voluntarily chose to endorse the principles laid out in the Standard to work in cooperation with Global Gas Flaring Reduction Partners to seek solutions to overcome barriers that result in gas flaring and venting. In tember 2005, Manitoba endorsed the Global Gas Flaring Reduction. The Department of Since, Technology, Energy and Mines will be the province's lead necy for monitoring and reporting on flaring and venting in Manitoba's upstream oil and gas sector.						
Newfoundland and Labrador: Implementation of World Bank Voluntary Standard for Gas Flaring	Oil and gas	CH ₄	Reduce flaring and venting of gas	Voluntary agreement	Newfoundland and Labrador	Implemented	2007	NE
Brief Description	associated with o	crude oil prod ooperation wi	lobal Gas Flaring and Venting uction worldwide. The part th Global Gas Flaring Redumit conditions for each faci	ies supporting the ction Partners to	his Standard voluntarily ch seek solutions to overcom	ose to endorse the pr e barriers that result	rinciples laid out in th	e Standard
			BU	ILDIN	GS			
British Columbia Building Green Code*	Buildings		To improve energy efficiency in new houses and buildings	Regulatory	British Columbia	Implemented	2008	NE
Brief Description	In September 2008, British Columbia adopted new energy and water efficiency objectives and requirements for all buildings in the British Columbia Building Code. Further efficiency updates to the Code are proposed but not yet adopted. In 2013, B.C. adopted stronger requirements for large residential, industrial, and commercial buildings. In 2014, the BC Building Code introduced stronger energy efficiency requirements for houses and small buildings. Work on additional improvements is ongoing. For example, 48 communities in BC have been added to a provincial regulation that requires all new single family homes to be built to accommodate solar hot water systems.							

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Ontario's Energy Efficiency Standards for Products and Appliances	Buildings	CO2, CH4, N2O	To reduce GHG emissions in the buildings sector	Regulatory	Ontario	Implemented	2013, 2014, 2015, 2016	NE
Brief Description	industrial sector efficiency standa and new buildin estimated to red	s. Enhanced of ords allow for gs, especially uce GHG emi	04/12 sets efficiency require vodes and standards play a s market transformation towa from natural gas and oil spa ssions in 2030 by 2 Mt CO2: to Ontario's energy efficienc	ignificant role in ards more efficie ace and water he e (this includes 1	meeting Ontario's Long-T nt products and have signi ating equipment. The mos .4 MT CO2e reduction resu	erm Energy Plan con ficant impact in redu t recent amendments alting from natural ga	servation target. New cing GHG emissions is s to energy efficiency i as and oil fired produc	and enhanced in existing regulation are
Ontario Building related initiatives*	Buildings	CO2, CH4, N2O	To establish standards, promote improvements in energy efficiency of existing buildings, to plan for growth, and to reduce natural gas consumption throughout Ontario	Regulatory	Ontario	Implemented	2007	1,890
Brief Description	Energy Plan. Combined estim Growth Plan Building Co Home Energy The Building Co targets for 2022 a Building code wastoreys to six sto allows for m fewer emiss supports ur Ontario has star	n for the Greated changes gy Savings Prode phased in the greatest are expected the greatest are reys. This amonore sequestrations from high ban redevelopted the process	higher efficiency requireme o be included in future Cod lended by O.Reg. 191/14 to it	s to: nts for new consections to garner or co	stationary combustion truction in 2012 and will re r continual improvement, litted height of wood frame practices), teel, and awl and support transit-frie	quire enhancements but these targets hav e buildings for reside endly development	in 2017. Further enha e not yet been determ ntial and office uses fi	ncement ined. The om four

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Ontario Natural Gas Demand Side Management Programs	Buildings	CO ₂	To reduce natural gas consumption in the residential, commercial and industrial sectors	Regulatory	Ontario	Implemented	2003	5,706	
Brief Description	industrial, comm Ontario Energy 2015 to 2020. The estimated G • GHG saving	abridge Gas Distribution and Union Gas, Ontario's main natural gas utilities, have been delivering natural gas energy efficiency programs to their dustrial, commercial, institutional and residential customers for over 20 years under the Demand Side Management Framework which is overseen by that are expected to persist in 2020. The Demand Side Management Programs have been implemented from 2003 to 2014, with the next phase of the plan planned from 15 to 2020. The estimated GHG mitigation impact of 5.7 Mt accounts for: GHG savings from historic programs (2003-2014) that are expected to persist in 2020. GHG savings from planned programs (2015-2020), under the new 2015-2020 Demand Side Management Framework, that are expected to persist in 2020.							
Ontario Supporting Biomass Heat Project	Buildings	CO2, CH4, N2O	To reduce GHG emissions from residential and commercial/ institutional heating	Information	Ontario	Implemented	2014	NE	
Brief Description	investment and	market develo	ing on improving the busin pment, outreach, and resea al/institutional and residen	irch and innovat	ion. The project expected t				
Ontario Social Housing Apartment Retrofit Program	Buildings	CO ₂	To reduce greenhouse gas emissions from high-density social housing apartments buildings, and increase energy efficiency.	Fiscal	Ontario	Implemented	2016	NE	
Brief Description	(150+ units per b include high-effi	uilding), and ciency buildi	Green Investment Fund, the will fund specific retrofits to the heating and/or cooling ems (LED lighting, lighting)	hat will reduce g quipment, addit	reenhouse gas emissions, a tional interior and/or exter	ınd improve energy e	fficiency. Funded ret	rofits will	
Ontario Social Housing Electricity Efficiency Program	Buildings	CO ₂	To improve efficiency in electrically-heated low-density social housing dwellings.	Fiscal	Ontario	Implemented	2016	NE	
Brief Description	detached, semi- retrofits to impro	detached, tow ove electricity	Green Investment Fund, the nhouses and row houses) the efficiency, such as more eff ng. The program will not all	hat are primarily iciency heating	electrically heated and wh (e.g. heat pumps), high-effi	ere tenants pay the u iciency hot water hea	tility costs. The prog ters, increased exterio	ram funds or and/or	

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Quebec Program Réno-climat	Buildings	CO ₂	Reduce GHG emissions in the building sector	Economic	Quebec	Implemented	2013	NE	
Brief Description	by Quebec resid The Program is I I. Improving 6 Heating wit The Heating wit heater using oil,								
Quebec Construction Code*	Buildings	CO2, CH4, N2O	Reduce GHG emissions and energy consumption in the building sector	Regulatory	Quebec	Implemented	2012	NE	
Brief Description	Construction Co	de must be ar	nended in August, 2012 in onended again soon to intro ew measures will improve t	duce new requir	ements for energy efficienc	cy for commercial, ins	stitutional, industrial	and tall	
Quebec Novoclimat Programs and Novoclimat 2.0	Buildings	CO2, CH4, N2O	Reduce GHG emissions and energy consumption in the building sector	Economic	Quebec	Economic	1999	NE	
Brief Description	specific construction according to the approved house. The Novoclimat of 3 stories or less	tion requiren Quebec Cons The Canadia 2.0 program i s and 600 m2 the main ene	House component (impler nents. We estimate that a net truction Code. Financial as in Mortgage and Housing Cos also for small multiple dwor less. The first Novoclimrgy source is electricity, nat	ew Novoclimat 2 ssistance of \$1,00 orporation (CMI relling building v aat program (imp	.o house will save its occup o from the Department is p HC) offers a discount of 10% which applies to duplex, tri blemented in 1999) still app	pants 20% on their en paid exclusively to the 6 on the insurance pr plex and quadruplex blies to properties of 1	ergy costs compared to the first owner of the No temium of an energy of as well as multiple-ur more than 600 m ² and	to a home built ovoclimat 2.0 efficient home. nit complexes d up to 10	
Quebec Éconologis Program	Buildings	CO ₂	Reduce GHG emissions in the building sector	Economic	Quebec	Economic	2013	NE	
Brief Description	Éconologis is an energy efficiency awareness program intended for modest income households. It consists of a home visit by a service provider mandated by the MERN to inform and raise awareness of the participating household through personalized suggestions on energy efficiency and improvement of the comfort of their home. The program can support minor work sealing and installation of energy saving products, if applicable.								

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Nova Scotia Energy Efficiency Measures for non-electrically heated homes, with a focus on low-income households	Buildings	CO2, CH4, N2O	To use energy more efficiently	Voluntary agreement, economic	Nova Scotia	Implemented	2011	NE
Brief Description	Since 45 per cent insulation can ke those who qualif	ners on a low income can qualify for no-charge home efficiency upgrades through Efficiency Nova Scotia's Low Income Homeowner Service. per cent of the heat loss in a typical home occurs through the walls, floors and roof, a primary focus is on insulation and draft proofing. Improving n can keep the house warmer in the winter and cooler in the summer, reducing heating and cooling bills while improving occupant comfort. For o qualify for the program, a certified energy advisor will conduct a home-energy assessment and energy efficient upgrades are provided all at no cost meowner. Program participants who heat with non-electrical heat sources save, on average, \$900 per year.						
New Brunswick Efficiency Measures	Buildings		To improve the energy efficiency of buildings	Voluntary agreement	New Brunswick	Implemented	2014	205
Brief Description	Reduce GHG em	issions throu	gh fuel switching to renewa	bles & natural ga	as; and improvements in ap	opliance efficiencies		
Prince Edward Island Residential and Commercial Building Efficiency programs	Buildings		To support residential, commercial and institutional energy efficiency	Fiscal	Prince Edward Island	Implemented	2008, 2009	NE
Brief Description	 Prince Edwarthe energy of Efficiency. Solutions to 1,77 PEI Program building to Office of Enerovation of PEI Multi UResidential 	rince Edward Island (PEI) has implemented several programs to enhance efficiency in the residential and commercial building sector: Prince Edward Island's Residential Energy Efficiency Program (2008): This is an incentive program for residential property owners who wish to upgrade the energy efficiency of their properties, consisting of a grant program for eligible upgrades. This program is run through the PEI Office of Energy Efficiency. Since opening in 2008, the Office of Energy Efficiency has provided \$5 million in grants to almost 6,000 residential clients; \$9.4 million in loans to 1,775 residential clients; a free weatherization service for 2,900 low-income homes (resulting in an average heat cost savings of \$350 annually). PEI Program for Energy Savings Incentives (2009): The Office of Energy Efficiency provides financial incentives to help retrofit existing commercial building to its maximum energy efficiency potential. It includes financial assistance for an energy evaluation and towards energy upgrade costs. The Office of Energy Efficiency has also assisted over 500 businesses in reducing their energy consumption and generated over \$50 million in building renovation expenditures for local contractors. PEI Multi Unit Residential Buildings grant program (2009): Run by the Office of Energy Efficiency, this is an incentive program to assist with the implementation of eligible upgrades.						

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Northwest Territories Building Efficiency programs	Buildings		To support upgrades to more energy efficient technologies; To support commercial energy and water efficiency	Fiscal	Northwest Territories	Implemented	2007	NE
Brief Description	 Energy Efficience Alternative businesses, wind turbin Capital Assemprove the Commercial 	iency Incenti d new homes Technologies and residents es. et Retrofit Fur ir energy effic	put in place several building ve Program (2007): the Eneranging from \$50 to \$4500. Program (2007): The program to convert to renewable and (2008): Through energy a ciency. The program tracks a servation and Efficiency Prom of \$10,000.	rgy Efficiency In am will support d clean energies audits, building actual financial s	centive Program provides in Aboriginal and community Technologies eligible for its surveys and energy benchrowings from retrofits and reconstructions.	y governments, non-foncentives include solunarking, buildings are einvests them into th	or-profit organization ar, hot water heating e identified and retro e Capital Asset Retro	s, commercial systems, and fitted to fit Fund.
Yukon Residential Energy Incentive Program	Buildings	CO2, CH4, N2O	Reduced diesel consumption for electricity and heat generation	Economic	Yukon	Implemented	2015	NE
Brief Description	and retrofit hom	es to a high st	ew Residential Energy Ince andard in energy efficiency ngs are 176,800 kWh with an	. Between Janua	ry and July 2015, the progra			
Yukon Commercial Energy Incentive Program	Buildings	CO ₂ , CH ₄ , N ₂ O	Reduced diesel consumption for electricity and heat generation	Economic	Yukon	Implemented	2015	NE
Brief Description	The Government of Yukon's Commercial Energy Incentive Program is aimed at improving energy use in multi-family dwellings and commercial buildings. Launched May 1, 2015, the program helps building owners retrofit their buildings to improve energy performance and reduce energy consumption, costs and emissions. It also encourages owners to upgrade to energy-efficient and long-lasting LED lighting systems. In its first summer, the program has led to upgrades to LED lighting in 10 commercial buildings and should result in future annual energy savings estimated at 1,188,000 kWh and annual cost savings estimated at \$142,500. The program is a 2 year pilot, ending March 31, 2017.							
Yukon Government Green Building Standards	Buildings		To increase energy efficiency of new buildings within the City of Whitehorse	Regulatory	Yukon	Implemented		NE
Brief Description	Increased minim	um insulatio	n values, requirements for a	Blower door tes	t on all new construction,	and requirements for	heat-recovery ventila	tors.

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	EMISS	IONS-	INTENSIVE	AND T	RADE-EXP	OSED (E)	ITE)	
Regulations to Address Emissions from the Chemicals and Nitrogen Fertilizers Industry	Emissions- Intensive and Trade-Exposed	CO ₂	To reduce emissions from the chemicals sector	Regulatory	Environment and Climate Change Canada	Planned	TBD	NE
Brief Description	In May 2015, the industries in this		of Canada announced its in	tention to regul	ate emissions from chemic	als and nitrogen ferti	lizers, two of the high	est emitting
British Columbia Cement Low Carbon Fuel Program	Emissions- Intensive and Trade-Exposed	CO ₂ , CH ₄ , N ₂ O	Support increasing long term use of low carbon fuels to displace coal, reduce GHG emissions and support development of a low carbon fuel industry	Economic	British Columbia	Implemented	2016	NE
Brief Description	Over the five yea new emissions ir		ogram, British Columbia w nmarks.	ill offer up to \$27	million in conditional inc	entives to encourage	cement producers to	meet or beat
Saskatchewan Management and Reduction of Greenhouse Gases Regulation	Emissions- Intensive and Trade-Exposed		To reduce GHG emissions from large final emitters	Regulatory	Saskatchewan	Planned	2013	NE
Brief Description	Compliance opti	ons include p e technology	inal emitter facilities that e ayments into a non-profit to fund for 5 years and then to a, and is available to anyone	echnology fund ransfers into the	only accessible to regulated Climate Change Foundatio	d emitters for low car on which is accessible	bon investments. Moi	nies not used
Ontario Regulatory Changes for 'Reducing Coal Use in Energy- Intensive Industries'	Emissions- Intensive and Trade-Exposed	CO ₂	To reduce GHG emissions, and coal and petroleum coke use, from major emitting industrial sectors	Regulatory	Ontario	Implemented	2015	NE
Brief Description	Regulatory changes have been developed for major-emitting industrial sectors (including cement, lime and iron and steel manufacturers) that would help facilities use alternative, less carbon-intensive fuels (such as biomass and waste materials) in place of coal and petroleum coke, and stay competitive with other jurisdictions that similarly allow the use of alternative fuel, such as Quebec and Michigan.							

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Quebec Manufacturing Sector Support Program	Emissions- Intensive and Trade-Exposed	CO ₂	To reduce GHG emissions	Economic	Quebec	Implemented	2008	43	
Brief Description	and paper compa improved energy	This \$1-billion program, which was in effect from June 2009 to March 2012, funded environmentally beneficial capital projects carried out by Canadian pulp and paper companies. Although the program was not designed specifically as a climate change mitigation mechanism, by funding projects that resulted in improved energy efficiency and the adoption of new fuels and increased renewable electricity production capacity, it was a catalyst for direct and indirect GHG emissions reductions.							
			WASTE	AND C	OTHER				
British Columbia Landfill Gas Management Regulation*	Waste and other	CH ₄	To increase methane capture rate at landfills	Regulatory	British Columbia	Implemented	2009	NE	
Brief Description	Requires larger r Regulations will		d waste landfills (>1000 ton 2016.	nes methane/ye	ar) to install approved land	lfill gas capture syste	ms with a capture rate	e target of 75%.	
Manitoba Prescribed Landfills Methane Gas Capture Regulation	Waste and other	CH ₄	To reduce methane emissions from landfills	Regulatory	Manitoba	Implemented	2009	195	
Brief Description	largest landfills -	- the Eastview	ng to Manitoba's Climate Ch Landfill in Brandon, the Br pected to result in emission	rady Landfill sou	ith of Winnipeg, and the C	nbination with s.15 of anada Prairie Green	the Act, requires Mar Landfill – to capture o	nitoba's three or flare excess	
Ontario Waste and Agriculture-related actions*	Waste and other	CO ₂ , CH ₄ , N ₂ O, PFC ₅ , HFC ₅ , SF ₆ , NF ₃	To reduce GHG emissions from the waste sector	Regulatory, fiscal	Ontario	Implemented	2008	1,800	
Brief Description	 Landfill Gas Biogas Fina Other polic In 2008, Ontario generating systemillion funding The Ontario Bio 	Emission reductions for Ontario's waste and agriculture sectors are combined. Combined estimated mitigation impact of more than 1.8 Mt applies to nitiatives related primarily to: Landfill Gas Capture and Control Regulations Biogas Financial Assistance Program Other policies and programs in the waste and agricultural sectors n 2008, Ontario introduced regulations requiring all landfills larger than 1.5 million cubic metres to install landfill gas collection and flaring or electricity generating systems. Currently, most of the largest landfills are now collecting landfill gas in Ontario. This was accompanied by a 3-year (2008-2011) \$10 nillion funding program to support small municipalities in meeting the regulatory requirements. The Ontario Biogas Systems Financial Assistance Program supports the reduction of GHG emissions from farms. Completed in 2010, it successfully led to more than 11 megawatts of installed electrical capacity — enough power for 10,000 homes. It supported GHG emission reductions by promoting on-farm							

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Quebec Residual Materials Management Policy 2010-2015	Waste and other	CH4	To reduce emissions from the waste sector	Regulatory	Quebec	Implemented	2010	NE	
Brief Description	 Recycle 70% Recycle 60% Recycle or r Source sepa Ban the land In addition to in 	Reduce waste disposal per capita to 700 kg, i.e., a 100-kg per capita reduction from 2008. Recycle 70% of residual paper, cardboard, plastic, glass and metal. Recycle 60% of putrescible organic matter. Recycle or reuse 80% of concrete, brick and asphalt material. Source separate 70% of construction, renovation and demolition waste from the buildings sector or send it to a sorting plant. Ban the landfilling of organic matter by 2020. Addition to improving the management of residual materials, the policy aims to contribute to reducing Quebec's GHG emissions, particularly those om the decomposition of organic matter.							
Quebec Royalties (regular and extra) for residual material disposal	Waste and other	CH4	Reduce emissions in the waste sector	Regulatory	Quebec	Implemented	2006	NE	
Brief Description	The royalties also Policy on Residu for organic mate	o fund the pre al Waste Man rial (Program	rial disposal aim to reduce t paration, implementation a agement (Politique québéco me de traitement des matièn while ensuring that approac	and revision of re oise de gestion de res organiques pa	sidual material manageme es matières résiduelles) and ar biométhanisation et con	ent plans as well as the d the Biomethanization postage). The accepto	measures arising from and compost treatned approach directly of	n the Quebec nent program liscourages the	
	The regular roya	lty was imple	mented in 2006 and the ext	ra royalty was im	plemented in 2010.				
Quebec Biomethanization program	Waste and other	CH ₄	Reduce emissions in the waste sector	Regulatory	Quebec	Implemented	2009	NE	
Brief Description	compostage) off	ers financial s	mpost treatment program f upport to municipalities an ims to reduce GHG emissio	d the private sec	tor for the installation of i	nfrastructure to treat			
Quebec program to support composting in small municipalities	Waste and other	CH ₄	Reduce emissions in the waste sector	Regulatory	Quebec	Implemented	2013	NE	
Brief Description	implementation composting of p	of composter lant materials	nicipalities, Aboriginal com s, individual or shared, on t s, and community composti er of single family residence	their territory. Th ng in closed thei	ne three components of the rmophilic equipment, part	e Program, domestic o	composting, commun	ity	

Name of Mitigation Action	Sector(s) Affected	GHG(s) Affected	Objective and/or Activity Affected	Type of Instrument	Implementation Entity	Status of Implementation	Start Date of Implementation	Estimate of Mitigation Impact in 2020 (kt CO2 eq)		
Quebec Regulation respecting the landfilling and incineration of residual materials*	Waste and other	CH ₄	To reduce the waste sector's emissions	Regulatory	Quebec	Implemented	2005	NE		
Brief Description	Regulation respe	n 2005, the Government of Quebec passed a major regulation seeking mainly to minimize the impact of biogases coming from sanitary landfill sites. The degulation respecting the landfilling and incineration of residual materials requires the largest technical landfill sites (i.e. those that landfill over 50,000 connes of residual materials per year) to capture the biogases and ideally make use of them or even eliminate them.								
Nova Scotia Solid Waste Resources Management Regulations*	Waste and other	CH4	To increase the rate of waste diversion from landfills in Nova Scotia	Regulatory	Nova Scotia	Implemented	1996	NE		
Brief Description	Implemented in 1996, this major regulation resulted in Nova Scotia having the highest waste diversion rate in Canada, and includes a ban on organics entering landfills in NS. Currently 55% of Nova Scotia organic waste is diverted from all landfills into aerobic processing, converting the potential methane from these organics to CO ₂ emissions (25 times lower global warming potential).									
New Brunswick Landfill Gas Management	Waste and other	CH ₄	To increase methane capture rate at landfills	Voluntary agreement	New Brunswick	Adopted	2008	49		
Brief Description	Six municipal so Brunswick and t		lfills have or will install app ommissions.	roved landfill ga	s capture systems. This 201	4-2020 voluntary agre	eement is implement	ed by New		
			AGR	ICULT	URE					
Agricultural Greenhouse Gases Program	Agriculture	CH4	To support research on GHG mitigation and make new mitigation technologies available to farmers.	Fiscal	Agriculture and Agri- Food Canada	Implemented	TBD	NE		
Brief Description	The Agricultural Greenhouse Gases Program will provide Canadian farmers with technologies to manage their land and livestock in a way that will mitigate greenhouse gas emissions. A first phase of the \$27-million federally funded program ran from 2010-2015 and represented Canada's initial contribution to the Global Research Alliance on Agricultural Greenhouse Gases. In March 2016, the Government announced an additional \$27 million for a second phase of the program (2016-2021), extending Canada's commitment to support the objectives of the Global Research Alliance on Agricultural Greenhouse Gases.									
Growing Forward 2 FPT cost-shared programs	Agriculture	CO ₂ , CH ₄ , N ₂ O	To reduce GHG emissions from the agricultural sector	Economic, education	Federal, Provincial and Territorial Governments	Implemented	2013	NE		

Name of Mitigation Action	Sector(s) Affected	GHG(s) Affected	Objective and/or Activity Affected	Type of Instrument	Implementation Entity	Status of Implementation	Start Date of Implementation	Estimate of Mitigation Impact in 2020 (kt CO2 eq)	
Brief Description	Growing Forward 2 is a \$3 billion investment by federal, provincial and territorial governments over five years for strategic initiatives in priority areas including to advance environmentally sustainable agriculture in Canada. Many of these initiatives translate into multiple environmental outcomes, including some related to climate change mitigation: • Environmental Farm Plan and Environmental Stewardship Incentive Programs support on-farm actions. Examples of supported beneficial management practices with associated climate change mitigation benefits include: improved manure storage, biodigesters, energy use efficiency, cover crops, precision nutrient application, equipment for reduced tillage seeding, and enhanced irrigation efficiency.								
Growing Forward 2 Federal-only program	Agriculture	CO ₂ , CH ₄ , N ₂ O	To support the reduction of GHG emissions from the agricultural sector	Research	Agriculture and Agri- Food Canada	Implemented	2013	NE	
Brief Description	productivity, cor	npetitiveness	provides \$698 million for in adaptability and sustainab mission intensity of agricul	ility of the Cana	dian agriculture sector. Pro				
			CROS	SS-CUT	TING				
Regulations of Hydrofluorocarbons	Cross-cutting	HFCs	To reduce emissions of HFCs	Regulatory	Environment and Climate Change Canada	Planned	TBD	NE	
Brief Description			of Canada announced its in nitment to reduce use and o						
ecoENERGY Efficiency*	Cross-cutting	CO ₂ , CH ₄ , N ₂ O	To improve energy efficiency in Canada	Information, regulatory, and education	Natural Resources Canada	Implemented	2011	6,500	
Brief Description	 supports the efficiency of enables and Standard, a introduces of aids the addiscreports the provides Call talso provides provides of the exposing dress of the estimate of the estim	The ecoENERGY Efficiency program: supports the development and implementation of energy codes, benchmarking tools, training and information materials to improve the energy efficiency of commercial and institutional buildings in Canada. enables and promotes the construction and retrofit of energy efficient low-rise residential housing through the EnerGuide Rating System, the R-2000 Standard, and ENERGY STAR for New Homes initiatives; introduces or raises energy efficiency standards for a range of products, and promotes energy-efficient products through the ENERGY STAR initiative; aids the adoption and implementation of an energy management standard in Canada, accelerates energy-savings investments in industrial facilities and supports the exchange of best-practices information within Canada's industrial sector; and provides Canadians with decision-making tools for buying more fuel efficient vehicles including introducing improved vehicle fuel consumption labels. It also provides Canadians and Canada's commercial/ institutional fleet sector with information to operate their vehicles to reduce fuel consumption by exposing drivers to fuel-efficient driving techniques. The estimated mitigation impact of 6,500 kt in 2020 for the ecoENERGY Efficiency program only includes energy efficiency impacts associated with policies and measures that occurred since Canada's 5th National Communication and associated in-depth review in 2011. This figure does not include							

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ecoENERGY Innovation Initiative	Cross-cutting	CO2, CH4, N2O	To support clean energy and renewable technologies	Economic	Natural Resources Canada	Implemented	2011	NE		
Brief Description	cleanly and effic pertaining to en- unconventional can take 10-15 ye	The Government of Canada has invested \$268 million over five years (2011–2016) to support energy technology innovation to produce and use energy more cleanly and efficiently. The initiative funds research, development and demonstration projects of innovative and emerging technologies, including those pertaining to energy efficiency, clean electricity and renewables, bioenergy, electrification of transportation, and reducing the environmental impact of unconventional oil and gas. It aims to move key technologies along the innovation spectrum to bring them closer to commercialization. A new technology can take 10-15 years or more to fully develop, commercialize and deploy. Projects funded under this initiative will be tracked for five years after they are completed to assess their impact.								
ecoENERGY Technology Initiative	Cross-cutting	CO ₂ CH ₄ , N ₂ O	To increase clean energy supply, reduce energy waste, and reduce pollution from conventional energy	Economic	Natural Resources Canada	Implemented	2008	200		
Brief Description	ecoENERGY Tec Weyburn-Midal two commercial Technology Initi	hnology Initia e CO2 Monito CO2-enhance ative includes ow) and Husl	ence and technology to acceptive also contributed \$7.2 m ring and Verification Project and Verification Project and recovery operations not Enhance Energy's Alberta cy's Lloydminster pilot project	nillion to the Int et which studied ear Weyburn, Sa Carbon Trunk Li	ernational Energy Agency CO2 geological storage in skatchewan. Other carbon ine (1.8 Mt of CO2 per year	Greenhouse Gas Rese depleted oilfields. It v capture and storage beginning in 2017 – a	earch and Developme was conducted in confunding through the oncounted for under the	nt Program junction with ecoENERGY he Clean		
ecoENERGY for Aboriginal and Northern Communities	Cross-cutting	CO ₂	Reduced GHG emissions in Aboriginal and northern communities	Economic	Indigenous and Northern Affairs Canada	Implemented	2011	70		
Brief Description	communities, in heat recovery, bi projects integrat diesel generation displace natural for all projects futhe feasibility sta	The ecoENERGY for Aboriginal and Northern Communities Program is investing \$20 million over five years to support Aboriginal and northern communities, including off-grid communities, to reduce GHG emissions through the integration of proven renewable energy technologies such as residual heat recovery, biomass, geothermal, wind, solar and small hydro. The program provides funding support for the design and construction of renewable energy projects integrated with community buildings, and for the feasibility stages of larger renewable energy projects, thereby displacing natural gas, coal and diesel generation of electricity and heat. The objective of the ecoENERGY for Aboriginal and Northern Communities Program (2011–2016) is to reduce or displace natural gas, coal and diesel generation of electricity thereby reducing greenhouse gas emissions by a projected 1.5 Mt over a 20-year project lifecycle for all projects funded by March 31, 2016. The ecoENERGY for Aboriginal and Northern Communities program funds larger renewable energy projects at the feasibility stages. As a result, it is possible that not all of the funded projects will reach the implementation phase and realize greenhouse gas emission reductions. In some cases, greenhouse gas reductions may be not be realized until after 2020.								
Carbon capture and storage investment in Canada's Federal Budget 2008*	Cross-cutting	CO ₂	To support the SaskPower Boundary Dam clean energy technology project	Economic	Government of Canada	Implemented	2014	1,000		
Brief Description			time allocation of \$240 mil kt CO2 per year from 2014 0			ndary Dam carbon ca	pture and storage pro	ject which will		

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Clean Energy Fund	Cross-cutting	CO ₂	To support clean energy technology research, demonstration and development	Fiscal	Natural Resources Canada	Implemented	2009	2,800
Brief Description	scale carbon cap	ture and stora	as allocated \$317.6 million on age projects, and renewable ons reductions of up to 2,80	energy and clea	n energy systems demonstr	ration and research a		
Sustainable Development Technology Canada - Sustainable Development Tech Fund	Cross-cutting	CO2, CH4, N2O	Support for renewable and clean energy technologies as part of a broader mandate to support the development, demonstration and commercialization of clean technologies	Economic	Sustainable Development Technology Canada	Implemented	2001	NE
Brief Description	including an injo across Canada, l an indirect and l	ection of \$325 everaging an a ong-term obj	as allocated a total of \$915 n million in Budget 2013. To o additional \$1.5 billion mostl ective. It is estimated that S CO2 eq by 2020. As of 2012,	date, the Sustain ly from industry. Sustainable Deve	able Development Tech Fu GHG emissions reduction lopment Technology Cana	and has allocated \$592 s (as well as other pos da's efforts will have r	2 million to support 2 sitive environmental c resulted in a total cum	45 projects outcomes) are
British Columbia Carbon Tax*	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, HFC _s , PFC _s , SF ₆	To introduce a cost for GHG emissions from fossil fuels	Economic	British Columbia	Implemented	2008	3,000
Brief Description	started at a rate	based on \$10 p 2012 where it	ies to virtually all fossil fuel: per tonne of associated carb will remain. The revenue go	on or carbon-eq	uivalent emissions, and wi	ll rise by \$5 each year	over the next four yea	ırs, reaching
British Columbia Innovative Clean Energy Fund	Cross-cutting		To support advancement of clean energy technologies	Economic	British Columbia	Implemented	2008	NE
Brief Description	environmental a supported initia	nd greenhous tives include t	Fund is a Special Account, for gas reduction priorities, the Clean Energy Vehicle Pr B-2014 technology pre-comi	o advance BČ's c ogram, Public S	lean energy sector. Under i ector Energy Partnerships,	ts current spending p	olan for 2015/16 to 201	7/18,

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British Columbia Carbon Neutral Government Operations	Cross-cutting		To achieve carbon neutrality in government operations	Regulatory	British Columbia	Implemented	2007	NE
Brief Description	health authoritie	es and Crown	on Targets Act required the corporations, to become cance announced that it achieves	rbon neutral by	2010 and to make public a 1	report every year deta		
Alberta Climate Leadership Plan	Cross-cutting		To reduce GHGs across the economy	Regulatory	Alberta	Planned	TBD	NE
Brief Description	 Coal and eleprojects will renewable set. Carbon levy based on an per tonne of The Govern households business increnewable set. Capping oil with a legisle. 	ectricity: Pollul be made over ources by 203 are Alberta will be emissions per f CO2 and will ment of Albert will be eligible come tax rate energy, bioene sands emission ated maximu	planned new policy responsition from coal-fired source or time. Retired coal will be a so. replace its emissions intensifered from the standard, covering the source of the form of the f	s of electricity we replaced with at sity carbon pricing 78-90% of pron 2018, implement to offset the income of households ed through the carbonology.	ill be phased out complete least two-thirds renewable ag program under the Specovincial emissions. This canned through a carbon levereased costs for low- and rewill receive either a full or earbon levy will also fund in arbon price for oil sands factors.	ly by 2030. Greater in energy sources resul- ified Gas Emitters Re rbon levy will be phase y on purchases of train middle-income house partial rebate. In add investments in green i	evestments in renewal ting in up to 30% of g egulation with a carbo sed in beginning in 20 asportation and heati sholds. In total, 60% of ition, Alberta will red anfrastructure, energy	n levy 17 at \$20 ng fuels. of Alberta luce the small efficiency,
Alberta Specified Gas Emitters Regulation*	Cross-cutting	CO ₂ , CH ₄	To limit intensity from the industrial sector, promote investment in green projects and technologies, and incent production of lower GHG intense electricity.	Regulatory, economic	Alberta	Implemented	2007	10,000

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Brief Description	Alberta's Specified Gas Emitters Regulation (SGER) currently requires that industrial facilities that emit more than 100,000 tonnes of CO2 eq reduce their emissions intensity by 12% using a baseline based on past emissions and production. Regulated facilities have four compliance options: improve the GHG intensity of their operations; buy emissions performance credits from other regulated facilities that achieve reductions beyond their requirement; buy Alberta-based offsets; or pay \$15 per tonne of CO2 eq (to be increased to \$30 per tonne in 2017) to the Climate Change and Emissions Management Fund. As of 2013, the regulation covers 108 facilities from 15 industrial sectors (about half of Alberta's GHG emissions). This regulation also encompasses the following:								
	including re one of the fo million has SGER estime Natural Gas gas emission SGER to inc impact of the	newable form our compliance been invested ate). Cogeneration is (the largest rease the upta is incentive in	ssions Management Fund (one of energy and cleaner energy end cleaner energy end cleaner energy entry in 59 clean technology produced in the comparison of th	ergy developmer ndustrial Regula jects. The estim nt method of pre e and potentially rta. New action v ncluded in SGER	nt. Funds come from compations. Since 2007, \$503 mile ated mitigation impact of to ducing heat and electricity slightly lower land disturbing focus gaining further received.	anies who have chose lion has been paid in these projects in 2020 ry, with the environmonance. Alberta has im eductions from cogen	n to pay for their exce to the CCEMF, of that is 1,500 kt Co2eq (inc ental benefit of reduc plemented an incenti	ss emissions, amount \$226 cluded in ed greenhouse ve under the	
Alberta Carbon Capture and Storage Funding Act	Cross-cutting	CO ₂	To enable government support for carbon capture and storage projects	Economic	Alberta	Implemented	2008	2,760	
Brief Description	capture and stord Trunk Line project addition, the AC after which it wil	age demonstr ct. Beginning TL project wil l be permane	no8, enables Alberta to admation projects currently und in 2015, the Quest project i Il collect Co2 from the Nort ntly stored. This project is e s. The 2020 estimate of mit	ler development is expected to ca h West Redwate expected to capto	will capture Co2 from upg pture and store over 1MT C r Oil Sands Upgrader which ure up to 1.2 MT of Co2 per	rader facilities: the Q o2 per year from Shel h will then be sold for year. To date, the Go	Quest project and the A ll's Scotford Oil Sands r injection into matur vernment of Alberta l	Alberta Carbon Upgrader. In e oil fields,	
SaskPower demonstration and implementation of carbon capture technology	Cross-cutting	CO ₂	To reduce GHG emissions from goal energy	Voluntary agreement	Saskatchewan	Implemented	2014	NE	
Brief Description	With funding support from the federal government, Saskatchewan has invested upwards of \$17 million in capture and storage projects and projects that reduce flaring. Together with industry and government partners, it has several capture and storage projects underway, including the Aquistore project and the Carbon Capture Test Facility. The Weyburn-Midale project is the largest capture and storage demonstration site in the world. Saskatchewan is continuing to fund research related to the Weyburn reservoir through the Saskatchewan CO2 Oilfield Use for Storage and EOR Research Project. Saskatchewan has implemented the approximately \$1.35 billion, 115 megawatt project at Boundary Dam, with a \$240 million federal government contribution. The Boundary Dam facility began commercial operation in October 2014 and is expected to capture up to 1MT of CO2per year, reducing emissions by 7.2 per cent from 2002 levels. These emission reductions are not listed to avoid double counting since the Boundary Dam emission reductions are listed by the federal government. Saskatchewan has been injecting carbon dioxide into the subsurface since 1984.								

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Manitoba Cap-and- Trade system	Cross-cutting		To reduce GHG emissions across the Manitoba economy	Regulatory	Manitoba	Planned	TBD	NE		
Brief Description	made during cor	nsultations, ar	on implementing a cap and nd outlined in new provinci rican jurisdictions.							
Ontario Cap-and- Trade System	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFC _s , HFC _s , SF ₆	To reduce GHG emissions across Ontario's economy	Regulatory	Ontario	Planned	TBD	NE		
Brief Description		sdictions, inc	nne announced that Ontari luding Quebec and Califori ing program.							
Ontario Conservation First Framework (electricity) and Demand Side Management Framework (natural gas)	Cross-cutting	CO ₂	To reduce electricity and natural gas demand, including at peak times, from the residential, commercial and institutional, as well as industrial sectors, to assist the province in achieving its GHG reduction objectives.	Regulatory	Ontario	Implemented	2015	NE		
Brief Description	electricity and n	atural gas con	y needs for the next 20 year servation frameworks prov Ontario plans to invest \$2	ide a long-term o	commitment and funding t	o conservation initia	tives and programs, b	rince's uilding on past		
Ontario Places to Grow Act, 2005, and plans	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFCs, HFCs, SF6, NF ₃	To reduce GHG emissions from land use and transportation	Regulatory, information	Ontario	Implemented	2006, 2011	NE		
Brief Description	These help limit It complements currently undert which is expecte	The Growth Plan for the Greater Golden Horseshoe, 2006 (the Growth Plan), is designed to support greater density and transit-supportive communities. These help limit growing traffic congestion and urban sprawl. The Plan also promotes for the protection and conservation of water, energy and air quality. It complements Ontario's Greenbelt Plan by focusing growth in existing built up areas in order to protect the region's natural areas. The Government is currently undertaking a coordinated review of the Growth Plan and the Greenbelt Plan (see below); climate change is one of the key themes for the review, which is expected to be completed later in 2016. The Growth Plan for Northern Ontario (2011), established under the Places to Grow Act, 2005, includes policies to incorporate climate change mitigation and								
		derations into	o planning and decision ma							

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Ontario Far North Act, 2010	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFC _s , HFC _s , SF ₆ , NF ₃	To provide for community-based land use planning in the Far North	Regulatory, information	Ontario	Implemented	2010	NE
Brief Description	To help ensure s	ustainable de	velopment, the Ontario gov	ernment and Fir	st Nations are working tog	ether on community-	based land use plann	ing.
Ontario Greenbelt Act, 2005, and plan	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFCs, HFCs, SF6, NF ₃	To permanently protect prime agricultural land and environmentally sensitive areas	Regulatory	Ontario	Implemented	2005	NE
Brief Description	protection for protecting valua	ime agricultu ble water and	n identifies approximately 2 ral land and environmental natural features while help lt Plan (see above); climate	lly sensitive area ing to curb urba	s. It complements the Grown sprawl. The Government	vth Plan for the Great t is currently underta	er Golden Horseshoe king a coordinated re	e, 2006, by view of the
Ontario Planning Act and the Provincial Policy Statement, 2014	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFC ₅ , HFC ₅ , SF ₆ , NF ₃	Provides policy direction on matters of provincial interest in land use planning	Regulatory, information	Ontario	Implemented	2014	NE
Brief Description	a key role in Ont decisions and pl policies to incor Provincial Policy	ario's land us ans, municipa porate climate Statement su as, encourages	ont (2014) provides policy di e planning system by provice elities and some other author e change mitigation and ada apports compact forms of de s green infrastructure and e	ding the policy for prities are require aptation conside evelopment and	oundation for regulating the ed to be consistent with the rations into land use plann transit-supportive develop	e development and use policies. The Provining and decision-manent, protects provi	se of land. In making cial Policy Statement king, where appropria ncially significant nat	planning includes ate. The ural heritage
Quebec Regulation respecting mandatory reporting of certain emissions of contaminants into the atmosphere	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, SF ₆ , HFC, PFC	Accountability of the emissions of major emitters.	Regulatory	Quebec	Implemented	2010	NE
Brief Description	Through its appl comprehensive J	ication, the Mortrait of ma	n mainly reporting contam finistère de Développemen jor atmospheric emissions,) are subject to regulation. T	t Durable, Envir which allows the	connement et Lutte contre em to ensure an increase in	les Changements Clir surveillance of the st	matiques can trace an tate of the environme	nt. The major

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Quebec 2013-2020 Climate Change Action Plan	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFC _s , HFC _s , SF ₆ , NF ₃	To reduce GHG emissions by 20% from 1990 levels by 2020	Regulatory, economic	Quebec	Implemented	2013	NE		
Brief Description	use, R&D, govern plan by funding plan. The GHG	nment procur the majority o emission redu	nted budget of \$3.3 million of ement, energy efficiency, bi of its GHG reduction measu ctions are expected to be 20 A and the programs, mainly	oenergy, agriculures through the 1998 below the 1998	ture and waste management sale of units of GHG emiss o level in 2020 within the	nt. The GHG cap and ions. This plan is the Western Climate Init	trade system is key to successor to the 2006 lative's carbon market	the action 5-2012 action		
Quebec Technoclimat Program	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFCs, HFCs, SF6, NF ₃	To develop new innovative technologies or processes in the areas of energy efficiency, emerging energy and GHG emissions reduction.	Economic	Quebec	Implemented	2013	NE		
Brief Description	GHG emissions	reduction by j	romotes the development of providing financial support tion, measurement, pre-cor	to project propo	nents at various stages of t					
Quebec Duty on Non-Renewable Fossil Fuels Payable to the Green Fund	Cross-cutting		To reduce emissions from gasoline and other fossil fuels	Regulatory	Quebec	Implemented	2007-2014	NE		
Brief Description			tors of gasoline and fossil fu illion a year that are directed							
Quebec's Cap-and- Trade System for Greenhouse Gas Emission Allowances*	Cross-cutting	CO ₂ , CH ₄ , N ₂ O, PFC _s , HFC _s , SF ₆ , NF ₃	Quebec's Cap-and-Trade System for Greenhouse Gas Emission Allowances	Economic, regulatory	Quebec	Implemented	2013	NE		
Brief Description	January 2013. In Since 2015, the s sectors. The join of Quebec held	One of the key aspects of Quebec's climate change approach is the cap-and-trade system for greenhouse gas emission allowances implemented in January 2013. In 2013 and 2014, the entities to which it applied were those in the field of electricity production and distribution, and large industrial facilities. Since 2015, the system has extended to distribution of the fuels and fossil fuels used in the transportation, building, and small- and medium-sized business sectors. The joining of Quebec's and California's cap-and-trade systems for greenhouse gas emission allowances has been official since 2014. The Government of Quebec held four auctions within its territory in 2013-2014, and held its first joint auction sale with California in November 2014. All auctions are now joint auctions. The GHG emission reductions are expected to be 20% below the 1990 level in 2020 within the Western Climate Initiative's carbon market.								

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Quebec Heavy Fuel Oil Use Reduction Program	Cross-cutting	CO ₂	To reduce GHG emissions	Economic	Quebec	Implemented	2008	580	
Brief Description	and to improve t	heir competit	nce de l'efficacité énergétiqu tiveness by reducing consur l oil and for the conversion (nption. Financia	l assistance is available for	the implementation	of analyses and energ		
Quebec EcoPerformance Program*	Cross-cutting	CO ₂ , HFCs	To reduce GHG emissions	Economic	Quebec	Implemented	2013	NE	
Brief Description	and greenh A) Improvii home owne system that (heat pump • EcoPerform • EcoPerform	 EcoPerfomance Buildings: Encouragement for exoergic residential renovation and for heating system conversions intended to reduce the energy use and greenhouse gas emissions of Quebec homes, while enhancing their occupants' comfort. The Program hinges around the following two components: A) Improving energy efficiency; B) Heating with Green Power – The Heating with Green Power component seeks to provide financial assistance to home owners who replace their central heating system or water heater that uses fuel oil, propane or any other fossil fuel (except natural gas) with a system that runs exclusively on electricity or one or more sources of renewable energies such as geothermal, wind, solar and thermo-aerodynamic (heat pump) energies. EcoPerformance Halocarbons: This program also promotes substituting refrigerants with substances that have a lower global-warming power. EcoPerformance Industrial: This program seeks to reduce greenhouse gas emissions and energy use in the industrial sector by funding projects or measures connected with energy use and production, as well as with process improvement. ÉcoPerformance is aimed at both small and large energy 							
Quebec Regulation respecting halocarbons	Cross-cutting	HFC	To reduce halocarbon emissions	Regulatory	Quebec	Implemented	2008	NE	
Brief Description			n is to reduce halocarbon en ect connected with the hun					ize the	
New Brunswick Energy Efficiency Regulation	Cross-cutting		To improve energy efficiency and energy conservation	Regulatory, education	New Brunswick	Implemented	2005	300	
Brief Description	Efficiency New Brunswick is a Crown Corporation Agency established in 2005. Its mandate is to provide advice and solutions to help residents use energy more efficiently, make better energy choices, manage energy expenses and lessen the impact of energy use on the environment, More specifically, the agency's mandate is to: • Promote energy efficiency measures in the residential, community and business sectors; • Develop and deliver programs and initiatives in relation to energy efficiency; • Promote the development of an energy efficiency services industry; • Act as a central resource for the promotion of energy efficiency; and, • Raise awareness of how energy efficiency measures can lead to a more reliable energy supply for New Brunswick.								

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New Brunswick's Air Quality Regulations	Cross-cutting		To limit GHG emissions from industrial sectors	Regulatory	New Brunswick	Planned	2014	NE		
Brief Description		is sets the context for all industrial sectors operating in the province and includes a strong industrial approvals program which generally incorporates ility level emission caps, as well as monitoring and reporting programs.								
Yukon Government Sector Specific Targets	Cross-cutting		To minimize growth in overall Yukon emissions	Regulatory	Yukon	Adopted	2012	NE		
Brief Description	 By 2020, red By 2020, me Transportation S By 2015, red By 2015, red Electricity Sector By 2020, red By 2016, red Industrial Sector By 2016, red By 2016, red By 2014, esta In addition, in 20 Reduce GHO 	et 20% of gove the emissions uce emissions uce the emissions uce on-grid electrollish reporting the follows:	age energy efficiency of newsions intensity of existing beernment buildings' space he from Yukon government list in the transportation sectorical usage by 5 gigawatical energy intensity of inding protocols for stationary fiving government sector targy 20 per cent by 2015 (based carbon neutral by 2020)	uildings across Yeating needs wit ght fleet operation by 10% sel power generates per hour throu strial operation facilities emitting	Tukon by 5% Th clean energy sources The clean		d to 2011 standards			
Nunavut's Energy Strategy	Cross-cutting		To reduce fossil fuel consumption	Other	Nunavut	Adopted	2006	NE		
Brief Description	As part of the En development of		the Nunavut Government ergy sources.	stated a goal to r	reduce the Territory's depe	ndency on imported	fuel through conserva	tion and		
L.	AND US	E, LA	ND-USE CH	ANGE	AND FORES	TRY (LU	LUCF)			
British Columbia Forest Carbon Offset Protocol	LULUCF	CO2, CH4, N20	To enhance removals and reduce emissions associated with forest- related projects	Economic	British Columbia	Implemented	2011	NE		
Brief Description	and verification of Act. The protocol Carbon Neutral (related projects 2011, the Government of British Columbia released the Forest Carbon Offset Protocol which was drafted to guide the design, development, quantification d verification of B.C forest carbon offsets to the BC Emission Offsets Regulation established under the authority of the Greenhouse Gas Reduction Targets t. The protocol applies to a broad range of forest activities on private and public land in BC Offsets generated were used toward British Columbia's rbon Neutral Government Regulation, which establishes the goal to achieve carbon neutrality of government operations. The Forest Carbon Offset otocol is currently being updated to be consistent with the requirements of the new Greenhouse Gas Industrial Reporting and Control Act.								

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British Columbia Great Bear Rainforest Forest Management Act	LULUCF	CO ₂	To increase carbon stocks through sustainable forest management and conservation	Regulatory	British Columbia	Planned	2016	2,000		
Brief Description	The Great Bear F hectare area.	Rainforest For	est Management Act suppo	rts a strict new e	cosystem-based managem	ent regime and prote	cts 85 per cent of the	6.4-million-		
Alberta Forestry Offset Protocol	LULUCF	CO2 CH4, N20	To enhance removals and reduce emissions associated with forestry	Economic	Alberta	Implemented	2011	NE		
Brief Description	from other activi protocols that er Alberta Emission	ities that have nsure emission n Offset Regis	l emitters to comply with the voluntarily reduced their ense reductions are real, demo try. Alberta has established st Practices; and (2) Affores	missions in Albe onstrable, and qu two offset proto	erta. To qualify for offset cre nantifiable, additional to w cols related to LULUCF: (1)	edits, projects must for hat would have occur Direct Reductions in	ollow government app red otherwise and reg	oroved gistered on the		
SaskPower Shand Greenhouse Seedlings	LULUCF	CO ₂	To mitigate GHG emissions from SaskPower's use of fossil fuels to produce electricity	Voluntary agreement	Saskatchewan	Implemented	1992	111		
Brief Description	station. Typical a growth. It is estin	nnual produc mated that 134	ouse grows and distributes ction is 500, 000 seedlings. 48 kt CO2 eq will have been nave been sequestered in th	Each production sequestered du	cycle is estimated to contr to seedling production ar	ribute 3.3 to 5.6 kt of	CO2 eq. sequestratior	per year of		
Ontario 50 Million Tree Program	LULUCF	CO ₂	To sequester carbon and improve adaptive capacity of the settled landscape	Fiscal	Ontario	Implemented	2007	NE		
Brief Description			s the goal of planting of 50 n private lands across the p		2025 on the settled landsca	ape of Ontario that w	ill sequester 6.6 Mt of	CO2 by 2050		
Quebec Forestation and Reforestation Offset Protocol	LULUCF	CO ₂	To enhance removals and reduce emissions associated with forest- related projects	Economic	Quebec	Planned	TBD	NE		
Brief Description	Purchasing offse credits as a mear Only offset credi	The purpose of the offset credit component is to decrease compliance costs borne by an emitter without undermining the system's environmental integrity. Purchasing offset credits can enable an emitter subject to Quebec's cap-and-trade regulation to meet regulatory compliance obligations. The use of offset credits as a means of regulatory compliance has been limited to 8% in order to maximize emission reductions by entities and sources covered by the system. Only offset credit projects that are voluntarily implemented by a promoter (individual, organization or company) wishing to reduce or sequester GHG emissions in sectors of activity or sources other than those subject to the Regulation's compliance obligations are eligible to receive offset credits.								

Name of Mitigation Action	Sector(s) Affected	GHG(s) Affected	Objective and/or Activity Affected	Type of Instrument	Implementation Entity	Status of Implementation	Start Date of Implementation	Estimate of Mitigation Impact in 2020 (kt CO2 eq)
Quebec residual forest biomass program	LULUCF	CO2 CH4, N20	Reduce GHG emissions from heating buildings.	Economic	Quebec	Implemented	2013	84
Brief Description	This program air	ns to reduce (GHG emissions and the con	sumption of foss	sil fuels by funding specific	energy conversion pr	rojects to residual fore	est biomass.
Quebec assistance program for the use of forest biomass in heating	LULUCF	CO ₂	Reduce GHG emissions associated with heating of buildings	Economic	Quebec	Implemented	2009	2
Brief Description	The program ain biomass.	ns to reduce g	reenhouse gas emissions an	d fossil fuel cons	sumption by funding speci	fic projects involving	energy conversion to	residual forest