ANALYZING THE ISSUES AND OPTIONS

Issues	Options										
	Tax-Driven Marke	t Incentives			Industry Re	gulatory Cont	rols		Diminishing Fossi		
	Fossil Fuel Tax on	Fossil Fuel		Fossil Fuel Emiss	sion Controls		Process	Product Controls	Fuel Supplies		
	the Canadian	Tax on	Prohibit	Cap But	Allow Emissi	ons	Controls				
	•	Emissions in	Emissions	No Trade in	Carbon	Trading					
	World Wide Emissions	Canada		Emission Savings Below the Cap	Trade in Emission Savings Below the Cap	Trade in Emission Savings Below the Cap Plus Offsets					
EFFECTIVEN	IESS		•			•	•				
Emission Reduction Coverage	sources, (The percentage of current emissions is not known, but probably in line with the next option i.e. about 82 percent of total.) Does not cover Canada's emissions from non-fossil fuel sources (18.3 percent) e.g. industrial processes,	fossil fuels (81.7 percent of total). Does not cover approximately 18.3 percent of Canada's emissions from non-fossil fuels sources	Covers all emissions produced in Canada from the combustion of fossil fuels by industry for energy through the combustion fossil fuels from stationary sources (35.8 percent). Would probably not include combustion of	Covers a portion of emissions produced in Canada from the combustion of fossil fuels by industry for energy through the combustion fossil fuels from stationary sources (35.8 percent). Current thinking limits the application of controls to major emitters and reduces the percentage below 35.8 percent. Would probably not include combustion of fossil fuels from stationary sources by	sources (35.8 percent). Current thinking limits the application	of fossil fuels by industry for energy through the combustion fossil fuels from stationary sources (35.8 percent). Current thinking limits the application of controls to major emitters. and reduces	fossil fuel production, mining, oil and gas extraction and manufacturing (18.4 percent); fugitive emissions related to fossil fuel extraction	Covers products that would be controlled. Likely candidates would be major consumer products that involve substantial emissions for which viable alternatives exist e.g. light duty gasoline vehicles and trucks (11.4 percent), residential furnaces and hot water heaters (5.8 percent).	Covers all emissions produced in Canada from the combustion of fossil fuels (81.7 percent of total). Does not cover approximately 18.3 percent of Canada's emissions from non- fossil fuels sources e.g. industrial processes, agriculture, waste management, land- use changes.		

Emission	Efficiency depends	waste, land- use changes.	fossil fuels from stationary sources by construction, commercial, institutional, residential, agriculture and forestry (11.3 percent). Does not cover approximately 18.3 percent of Canada's emissions from non- fossil fuel sources e.g. industrial processes, agriculture, waste, land- use changes. Does not cover combustion for transportation (25.9 percent).	construction, commercial, institutional, residential, agriculture and forestry (11.3 percent). Does not cover approximately 18.3 percent of Canada's emissions from non-fossil fuel sources e.g. industrial processes, agriculture, waste, land-use changes. Does not cover combustion for transportation (25.9 percent).	and reduces the percentage below 35.8 percent. Would probably not include combustion of fossil fuels from stationary sources by construction, commercial, institutional, residential, agriculture and forestry (11.3 percent). Does not cover approximately 18.3 percent of Canada's emissions from non-fossil fuel sources e.g. industrial processes, agriculture, waste, land-	probably not include combustion of fossil fuels from stationary sources by construction, commercial, institutional, residential, agriculture and forestry (11.3 percent). Does not cover approximately 18.3 percent of Canada's emissions from non-fossil fuel sources e.g. industrial processes, agriculture, waste, land- use changes. Does not cover combustion for transportation	industrial processes (7.2 percent), animal farming [enteric fermentation and manure management] (4.3 percent), and solid waste disposal (3.5 percent)	Emission reduction	Emission reduction
Reduction Efficiency within	on the amount of tax per emission. With a	depends on the amount of tax per	efficient, subject to the ability to	efficiency would depend on the cap level over time, and particularly the ability	reduction efficiency would be	reduction efficiency would be identical to the	reduction efficiency would be severely restricted due to	efficiency could be relatively high provided consumers were given	efficiency would be high in the long term if the option simply blocked investments

As emissions fall, tax rates and emission reduction efficiency would rise. As emissions fall, tax rates and emission reduction efficiency would rise.	ower ap isfor the "trade" effect. The trade effectfor the "offset" effect. Defining standardsap iseffect. The trade effecteffect. Defining standardsstandardsacross a wide erestwould make eligible offset, and monitoring business and the offset to option, to the extent thatand monitoring offset actually business against inevitableower ower owerprevious option, to the extent thatand enforcing 	
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					(i.e. replacing stationary combustion to electricity for heating purposes)				
Timing	short term following the passage of	term following the passage of legislation,	frivolous emissions,	Implementable in the medium to long term because of the necessity to coordinate implementation with the United States, for which the necessary political consensus may take years.	in the medium to long term because of the necessity to coordinate implementatio n with the United States,	in the medium to long term because of the necessity to coordinate implementation with the United States, for which the	implementable in the short term, where process control standards either exist or could be	Implementable in the short term, although the effects of implementation may not appear for some time if controls are implemented slowly.	Implementable in the short term with regard to both supply controls and related policies, and with restrictions on new investments combined with import controls.
ECONOMY					•	•		•	
Competitivene ss in International Markets	would not be subject to a fossil fuel tax. The primary disadvantage for Canadian exports may be slightly higher energy costs related to low emission energy. If markets for exports adopted an emission taxation	export related emissions would be subject to a Canadian fossil fuel tax. If markets for Canadian exports did not tax fossil fuel emissions in a similar way,	against certain exporters or export lines who have no alternative to emissions, or who have	No advantage or disadvantage to Canada, since other jurisdictions would establish regimes similar to Canada's.	or disadvantage to Canada, since other jurisdictions would establish regimes similar	or disadvantage to Canada, since other jurisdictions would establish	Could be disadvantageou s to Canadian manufacturers if actual process controls put Canadian exporters at a disadvantage relative to their foreign competitors.	No advantage or disadvantage to Canadian manufacturers if actual product controls are introduced with long lead times.	No advantage or disadvantage to Canadian exporters if the policy simply blocks future investments in fossil fuel industries. Short term supply restrictions could push up energy costs to exporters in Canada in the absence of price controls.

	exports would have a considerable long term advantage, since Canada stands to have better access to large amounts per capita of low emission energy than any other country in the world.	exporters would be at a price disadvantage because of the emission tax. If export markets relied on fossil fuels without any form of taxation, Canadian exports might face higher energy costs.	emitters to go bankrupt and block investment in those business lines.						
ss in Canadian Markets	markets would be protected against products containing high emission levels in their manufacture and transportation (e.g. China).	be at a price disadvantage, since their products would carry an emission tax on their products while products of their	against certain emitters or business lines who have no alternative to emissions, or	No advantage or disadvantage to Canada, since other jurisdictions would establish regimes similar to Canada's.	No advantage or disadvantage to Canada, since other jurisdictions would establish regimes similar to Canada's.	No advantage or disadvantage to Canada, since other jurisdictions would establish regimes similar to Canada's.	disadvantageou s to Canadian manufacturers if actual process controls put Canadian manufacturers at	No advantage or disadvantage to Canadian manufacturers if actual product controls are introduced with long lead times.	No advantage or disadvantage to Canadian manufacturers if the policy simply blocks future investments in fossil fuel industries. Short term supply restrictions could push up energy costs to manufacturers in Canada in the absence of price controls.
Energy Industry	The fossil fuel tax would significantly	The fossil fuel tax would	No impact, unless fossil	The fossil fuel industries would	The fossil fuel industries	The fossil fuel industries	Process controls applied to the	Product controls applied for fossil fuel products	Fossil fuel supply restrictions would

be unaffected, as emissions related to fossil fuel production in Canada would not be taxed. The decline of the fossil fuel industry from the loss of domestic markets	also be subject to tax. It is unclear	were subject to the prohibition of emissions. To the extent that fossil fuel industries would be affected negatively, other energy businesses would emerge to fill the gap.	presumably be subject to the cap, and would be forced to cut emissions in line with their cap. This would likely make them more emission-efficient in producing, refining and transporting fossil fuels. The caps in other lines of business would likely reduce demand for fossil fuels. This would lead to a decline in markets for fossil fuels, and the industry itself. Alternative energy businesses would emerge to fill the gap.	be forced to cut emissions in line with their cap. This would likely make them more emission- efficient in producing, refining and transporting	would presumably be subject to the cap, and would be forced to cut emissions in line with their cap. This would likely make them more emission- efficient in producing, refining and transporting fossil fuels. The caps in other lines of business would likely reduce demand for fossil fuels. This would lead to a decline in markets for fossil fuels, and the industry itself. Alternative energy businesses would emerge to fill the gap.	fossil fuel industry (e.g. strengthened controls over flaring and venting and the release of volatile organic compounds in refineries)could limit the ability of the industry to produce or make production more expensive relative to alternative energy businesses. Process controls applied to other business lines could reduce the demand for fossil fuels, and create opportunities for alternative energy businesses.		hurt fossil fuel industries, but create opportunities for alternative energy businesses.
This option is inherently fair. The burden of the taxation	This option is unfair to Canadian		This option is unfair to businesses subject to the cap	This option is unfair to businesses	This option is unfair to businesses	This option is unfair to businesses	This option is unfair to businesses whose products are subject to	This option might be perceived as unfair to the fossil fuel

	would fall on those consumers of emissions, specifically individuals who either emit themselves, or who purchase goods and services that incorporate emissions.	manufacturers trying to sell into foreign markets, or facing competition from foreign producers, since the products of Canadian manufacturers would face a fossil fuel tax.	prohibition,	subject to the cap. Normally, businesses subject to the cap would be large businesses, so small businesses would get an unfair advantage. It could also be unfair to	subject to the cap who have Canadian or foreign competitors not subject to the cap. Normally, businesses subject to the cap would be large businesses, so small businesses would get an unfair advantage. It could also be unfair to businesses that have problems getting under the cap.	subject to the cap who have Canadian or foreign competitors not subject to the cap. Normally, businesses subject to the cap would be large businesses, so small businesses would get an unfair advantage. It could also be unfair to businesses that have problems getting under the cap.	subject to process controls. The unfairness could be mitigated by long lead times from the initial warning of process controls to the implementation of the controls.	times from the initial warning of product	industry, although this industry has benefited from lack of emissions controls and has a long lead to adjust.
ADMINISTRA TIVE COSTS	There would be no additional annual administrative costs, since the fossil fuel tax would essentially replace the Goods and Services Tax or the Harmonized Sales Tax. Start up costs would be relatively minor.	There would be no additional annual administrative costs, since the fossil fuel tax would essentially replace the Goods and Services Tax or the Harmonized	Administrative costs would involve the compliance monitoring and enforcement related to the prohibition. Costs would depend on the nature and extent of the prohibition,	related to setting the cap, addressing appeals related to the cap, compliance monitoring and enforcement related to the cap. Costs would depend on the way the cap is set (i.e. a broad general	monitor and enforce the trade in	Administrative costs would be similar to administrative costs in the previous option, but higher because of the need to approve offset projects, monitor the projects to	include establishing process controls and standards (including related	controls and standards, monitoring products, and enforcing non- compliance with controls and standards. Administrative	Administrative costs are likely to be very high, since supply management implies working against basic market forces across the Canadian economy. Attempts to restrict production and limit imports will put prices up, and create windfall profits. Administrative costs will arise as

Sales Tax. Start up costs would be relatively minor.	incentives and disincentives related to compliance. Where the extent of the prohibition and incentives for non- compliance are both high, administrative costs would also be high.	versus negotiated caps on a line-of- business basis), extent of the cap (all businesses versus selected larger businesses), and the incentives and disincentives related to compliance. Generally, monitoring a cap is more difficult than monitoring a prohibition. Where incentives for non- compliance are both high, administrative costs would also be high.		ensure they generate the required offsets, enforce situations where there is non- compliance with offset rules, and manage offset trading.	compliance with controls and standards. Generally process management is technical, and requires skilled employees and site visits, both of which would add to administrative costs. Administrative costs would also depend on the extent of process controls; the more widespread process controls, the higher the administrative	the higher the administrative costs.	governments attempt to capture some of the windfall.
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