



# Uptake of Fuel Saving Technologies in Canada's Trucking Sector

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This questionnaire is designed to collect information on the uptake of fuel saving retrofit technologies. Please complete the questionnaire and return it to John Cameron (jcameron@cheminfoservices.com) by February 26, 2020. Your inputs will be combined with others and reported to Transport Canada at the aggregate level.

## Part A: Company and Trucking Operations

*A.1 Please provide contact information for yourself and your company.*

Company Name	
Contact Name	
Contact E-Mail	

*A.2 What kind of trucking operation is your company?*

For-hire trucking company (yes/no)	
Private trucking company (yes/no)	
Owner-operator (yes/no)	

*A.3 What percentages of your trucking operations involve the following activities?*

Urban	%
Regional	%
Long-haul	%
<b>Total</b>	<b>100%</b>

*A.4 Approximately what share of your operations is in each of the following five regions?*

Western Canada (BC, AB, SK, MB)	%
Central Canada (ON, QC)	%
Atlantic Canada (NB, PE, NS, NL)	%
Territories (YT, NT, NU)	%
U.S. and Other	%
<b>Total</b>	<b>100%</b>

*A.5 On a scale of 1 (low) to 10 (high), to what extent are fuel savings a priority for your company?*

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## Part B: Uptake of Fuel Saving Technologies on Heavy Trucks

B.1 Which of the following fuel saving technologies have been installed on your heavy trucks as retrofits (i.e., after the time of original purchase)?

	Fuel Saving Technology	# of Trucks with Technology Installed as a Retrofit
<b>Tires &amp; Wheels</b>	Low rolling resistance dual tires	
	Single wide tires	
	Tire pressure monitoring systems	
	Tire pressure inflation systems	
	Aluminum wheels	
	Other (please specify)	
<b>Aerodynamic Technologies</b>	Aerodynamic tractor bodies	
	Cab roof fairings	
	Fuel tank / full side fairings	
	Aerodynamic bumpers, mirrors, etc.	
	Adjustable 5th wheel (to optimize gap)	
	Tractor wheel covers	
	Tractor vented mud flaps	
	Other (please specify)	
<b>Anti-Idle Technologies</b>	Anti-idle electronic engine controls	
	Engine start/stop for HVAC	
	Battery APU	
	Diesel APU	
	Engine coolant heat recovery system	
	Diesel engine heaters and cab heaters	
	Thermal storage systems	
	Enhanced cab insulation	
	Other (please specify)	
<b>Powertrain Technologies</b>	Engine downsizing	
	Engine and transmission programming	
	Predictive cruise control	
	Direct drive transmission	
	Gear down protection	
	Down speeding	
	Automatic/automated transmission	
	6x2 or 4x2 axles	
	Alternative fuels	
	Other (please specify)	



B.2 *What fuel saving technologies are you considering as retrofits for your heavy trucks, and what are the major barriers to adopting them? For example, these barriers may include the size of initial capital costs, payback period, uncertainty over fuel savings, technology availability, etc.*

<b>Technology</b>	<b>Major Barriers</b>

### **Part C: Uptake of Fuel Saving Technologies on Trailers**

C.1 *Which of the following fuel saving technologies have been installed on your trailers as retrofits?*

<b>Fuel Saving Technology</b>	<b># of Trailers with Technology Installed as a Retrofit</b>
Low rolling resistance dual tires	
Single wide tires	
Tire pressure monitoring and inflation systems	
Aluminum wheels	
Trailer aerodynamic devices	
Wheel covers	
Vented mud flaps	
Other (please specify)	

C.3 *What fuel saving technologies are you considering as retrofits for your trailers, and what are the major barriers to adopting them? For example, these barriers may include the size of initial capital costs, payback period, uncertainty over fuel savings, technology availability, etc.*

<b>Technology</b>	<b>Major Barriers</b>



## Part D: Overall Considerations

*D.1 On a scale of 1 (low) to 10 (high), to what extent is information on the size of potential fuel savings available when purchasing retrofit technologies?*

*D.2 How many more trucks and trailers in your fleet would benefit from the fuel-saving retrofit technologies noted in Sections B and C?*

	<b>Total Number in your Fleet</b>	<b>Number that Would Benefit from a Retrofit</b>
<i>Class 5 trucks</i>		
<i>Class 6 trucks</i>		
<i>Class 7 trucks</i>		
<i>Class 8 trucks</i>		
<i>Trailers</i>		

*D.3 What are the key factors that would increase your uptake of available fuel-saving retrofit technologies? Some examples include commercial availability of the technology, availability of information about potential fuel savings from each technology, calculator tools, incentives, etc.*

*D.4 What are the operational and regional considerations in deciding on your uptake of available aftermarket fuel saving technologies (e.g. short-haul trucks may require different technologies than long-haul trucks)?*

**-- Thank you for your assistance --**