

BACKGROUND

enviroTruck: The Cleaner, Greener Transportation Choice

Green Fleets BC (a program of the Fraser Basin Council, funded by the BC Ministry of the Environment) is working with the BC Trucking Association to help BC trucking companies save money, improve worker health and decrease smog and greenhouse gas emissions (GHG). Green Fleets BC wants to support the industry in making good choices for best results.

Newer engines, aerodynamic enhancements, anti-idling units and high-tech tires can all help improve emission reductions, and Green Fleets BC is supporting those in the industry that wish to use “enviroTrucks” featuring these technologies. Green Fleets BC offers financial incentives to fleets interested in participating in the enviroTruck program.

What is an enviroTruck?

An enviroTruck is a Class 7 or 8 cab/chassis unit that incorporates emission reduction strategies and technologies (add-on devices) leading to a reduction of 15% or more in fuel consumption.

enviroTruck =

2007 or newer model year heavy truck engine*	+	Speed limiter activated at no more than 105km/hr	+	A combination of technologies (add-on devices)
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* Must meet or exceed this emission standard.

What trailers do enviroTrucks use?

An enviroTruck is expected to use an environmentally friendly trailer, specifically a 2005 or newer dry van, reefer or trailer unit that incorporates emission reduction technologies (add-on devices) leading to at least a 5% reduction in fuel consumption.

What is involved?

To participate in the enviroTruck program, a fleet owner/operator will be asked to identify the fleet’s standard and potential emission reduction technologies and can select from a list of approved technologies (add-on devices) to tailor an approach that fits the fleet. Green Fleets BC will use this information to calculate a potential emission reduction and incentive amount of up to \$10,000 per tractor-trailer, to a maximum of \$50,000 a fleet.

This year’s goal

In 2008 the goal of the enviroTruck program is to expand to a minimum of a 100 units (trucks and/or trailers) on the road. The enviroTrucks can reduce smog-producing emissions by 90% or more and GHG emissions by 15 to 20% over traditional models. The emissions reductions from each participating truck and trailer unit is equivalent to taking 10 to 15 cars off the road.

Example technologies (add-on devices)

<p>Truck Wind Reduction</p> <ul style="list-style-type: none"> ▪ Aerodynamic bumper (fiberglass or stainless steel-clad aluminum) ▪ Aerodynamic hood ▪ Aerodynamic headlight assembly ▪ Under hood air cleaners ▪ Aerodynamic mirrors ▪ Aerodynamic mirrors mounting assembly ▪ Full roof fairing ▪ Roof fairing side extenders ▪ Rear chassis fairings ▪ Centre chassis fairings ▪ Tractor gap fairing 	<p>Trailer Wind Reduction</p> <ul style="list-style-type: none"> ▪ Trailer side skirts ▪ Trailer tails ▪ Trailer gap fairings ▪ Radius front corner posts ▪ Radius front roof section ▪ Smooth, seamless exterior panels
<p>Truck Weight Reduction</p> <ul style="list-style-type: none"> ▪ Aluminum cab construction ▪ Aluminum fuel tanks ▪ Aluminum tool box ▪ Aluminum battery box ▪ Aluminum rims 	<p>Trailer Weight Reduction</p> <ul style="list-style-type: none"> ▪ Aluminum rims ▪ Aluminum exterior panels
<p>Truck Road Friction Reduction</p> <ul style="list-style-type: none"> ▪ Low rolling resistant tires - Front ▪ Low rolling resistant tires - Rear (dual) ▪ Low rolling resistant tires - Rear (wide-base) ▪ Tire pressure monitoring and inflation systems 	<p>Trailer Road Friction Reduction</p> <ul style="list-style-type: none"> ▪ Low rolling resistant tires (dual) ▪ Low rolling resistant tires (wide-base) ▪ Tire pressure monitoring and inflation systems
<p>Truck Emission Reduction</p> <ul style="list-style-type: none"> ▪ Hybrid electric power unit ▪ Auxiliary power unit ▪ Generator set ▪ Direct-fired heater ▪ Battery-powered HVAC system ▪ Automatic engine start/stop system ▪ Engine control module ▪ Oxidation Catalyst (DOC) 	<p>Trailer Emission Reduction Features</p> <ul style="list-style-type: none"> ▪ Hybrid (electric) trailer refrigeration unit ▪ Pure electric refrigeration unit

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