

# Think FLEETWISER

## 10 Fleet feats you need to know:



### Policy

Define your organizational commitments: reduce idling, preference for hybrids and green energy, participation in fuel efficiency programs, receptiveness to emerging technologies.

### Collaboration

Open communication between management and fleet operators along with incentives for efficiency will encourage buy in from fleet staff.

### Awareness

Foster lasting change. Seek efficiency training and consultations for fleet managers and operators. Sponsor events like a Clean Air Challenge; promote idling reduction and competitions for fleet efficiency.

### Management

Best management practices include vehicle and fuel tracking, fleet utilization management and right-sizing, vehicle pooling, ride sharing, telecommuting and route planning.

### Technology

Technological improvements such as hybrid cars and trucks, alternative fuels, electronic engines and transmissions, auxiliary cab heaters, power units, battery packs and remote shutdown devices each trim fuel costs and lower emissions.

#### 1. Fuel and Mileage Tracking

It is essential to know how much fuel is used and, more importantly, to identify the fuel being wasted. Monitor mileage and fuel consumption per vehicle every month.

#### 2. Develop a Fleet Action Plan

Fleet efficiency strategies will depend on your fleet mix, duty cycles and operating practices. Professional consultations and the FLEETWISER Tool Kit support fleet action planning.

#### 3. Training and Consultation:

For fleet managers and operators is available and suppliers are eager to showcase the latest efficiency products. FLEETWISER will connect you with the experts!

#### 4. Fleet and Vehicle Right-sizing

Vehicles should be the right size for the tasks they perform 90% of the time, considering passengers, storage capacity and work-related supplies. Vehicles that are too large or over-powered for their tasks will burn more fuel and produce more emissions.

#### 5. Preventive Maintenance

A poorly maintained vehicle wastes fuel by up to 50% and is even worse for emissions. Professional inspections are a must and operators need to be familiar with the vehicle features and inspect them daily.

#### 6. Route Optimization

Telecommunications can eliminate travel for meetings. Plan ahead, streamline daily job routes and locate vehicle depots to minimize travel distances and avoid rush hours, hills and traffic jams.

#### 7. Fuel Efficiency

Regular measurement of vehicle fuel consumption and evaluation of your fleet efficiency strategy allows for rapid adjustment. Fuel waste is effectively reduced.

#### 8. Idling Reduction


Sometimes engine idling is necessary to get the job done safely and on time, however, solutions to eliminate engine idling are available today.

#### 9. Greenhouse Gas (GHG) Reductions

Mileage and fuel savings translate directly to reduced GHG and smog forming emissions. FLEETWISER evaluates your fleet performance to produce measurable GHG reductions and efficiency improvement.

#### 10. Green Procurement Plans

Help to acquire the efficient work equipment you need, fostering long-term energy savings and emissions reduction. Fleet action reduces fuel and maintenance costs, savings that can be re-invested into your fleet, appreciating as global fuel and emissions prices increase.



New equipment and technology in the fleet mix will overcome existing fuel 'leaks' such as workplace idling, fuel draw for power tools and safety equipment, cold weather starts, poor engine performance and cab comfort.

## Why FLEETWISER?

- ▶ Lower fuel bills
- ▶ Control wasteful idling costs
- ▶ Reduce maintenance costs
- ▶ Reduce environmental impacts
- ▶ Reduce GHGs and harmful emissions
- ▶ Enhance your corporate image
- ▶ Improve existing training efforts
- ▶ Improve safety, reduce collisions
- ▶ Avoid fines
- ▶ Enhance fleet tracking and monitoring
- ▶ Promote trip and route planning
- ▶ Keep employees healthy
- ▶ Reward and retain employees

### FLEETWISER will provide:

**Assistance**  
Establish a fleet baseline  
Develop fleet action plans

**Consultation**  
Efficiency tools  
Expert connections  
Procurement plans

**Tracking Tools**  
Fleettool.ca  
AVL/GPS providers

**Training**  
Fleet management  
Fleet support  
Fleet operators

**Resources**  
Tools and technology  
Rebates and incentives



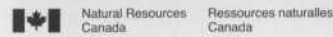
Solutions are available today that greatly reduce vehicle fuel consumption and harmful emissions, what's needed is the will to make the change.

Questions about fuel efficiency or your vehicle's impact on the environment? Call us at 1.800.665.5377 or visit us online at [fleetwiser.ca](http://fleetwiser.ca) or [clean.ns.ca](http://clean.ns.ca) or contact:

**Derek Gillis** T 902.420.7944  
Program Coordinator F 902.424.5334  
Clean Nova Scotia E [dgillis@clean.ns.ca](mailto:dgillis@clean.ns.ca)

FLEETWISER is funded by Natural Resources Canada (NRCan) ecoENERGY for Fleets.

NRCan offers resources and tools for fuel efficiency online at: <http://oee.nrcan.gc.ca>



Canada



## Get in gear and save... money and the environment.

▶ Little steps, big change

**FLEETWISER**  
Fostering Long-term Energy Efficient Transport

**Clean Nova Scotia**  
inspiring environmental change



**FLEETWISER**  
Fostering Long-term Energy Efficient Transport

[fleetwiser.ca](http://fleetwiser.ca)

# I CAN BE



# IDLE FREE

### Did you know?

Reducing fuel consumption by just 10 tanks a year can save you hundreds of dollars and reduce your personal emissions by almost a tonne.

Visit [drivewiser.ca](http://drivewiser.ca) for more information.

**Drivewiser**  
drive, maintain and buy for fuel efficiency

**conserve**  
NOVA SCOTIA

**Clean Nova Scotia**  
inspiring environmental change

## Idling on the job?

> Cut the engine & start cutting costs.



Sometimes engine idling is necessary to get the job done safely and on time. However, idling should be avoided whenever possible – for the health of vehicle operators, fellow workers, the public and environment.

**Trucks burn up to 4L/hr** when idling and each liter of fuel burned produces 2.3 kg of carbon dioxide.

Visit [fleetwiser.ca](http://fleetwiser.ca) to discover the many solutions available to eliminate workplace idling

*Idling can reduce the life of engine oil by 75%; accelerating engine-wear, excess waste-oil and risk of spills. 1 liter of oil can contaminate 2 million liters of water.*

**FLEETWISER**  
Fostering Long-term Energy Efficient Transport

# Idling Gets You Nowhere

10 seconds of idling uses more fuel than restarting.

If every driver in Canada avoided idling for 5 minutes a day, it would be like removing **520,000 cars** from the roads for 1 year.

Your engine requires no more than 30 seconds of idling to warm up the oil on a cold day. The best way to warm up your car is to drive it!



## Take Action. Turn Off Your Engine.

### How can you decrease unnecessary idling?

- Reduce "warm-up" idling to 30 seconds max.
- Turn your engine off if parked for more than 10 seconds.
- Avoid using a remote car starter.
- Spread the word to family and friends.



## Idling gets you nowhere.

Drive your fleet to be idle-free:

**Policy:** define your organizational commitment to reduce vehicle idling. For example, shut-down engines when stopped for more than 10 seconds and restrict fleet use of drive-thru services.

**Awareness:** of idling impacts and best practices drives change. Avoid idling to save fuel and money, while reducing pollutants, greenhouse gases, and particulate matter. Prolonged idling contaminates oil, increases engine deposits, and clogs fuel injectors. The costs of idling are greater than the benefits.

**Best management practices:** improve vehicle monitoring systems and provide tools and incentives for operators to reduce idling and maximize fuel efficiency.

### TECHNOLOGICAL IMPROVEMENTS:

Eliminate the need to idle on the job:

**Block heaters** warm the engine coolant, block and lubricants prior to job departure.

**Cab heaters** maintain comfort in pick-ups to transport trucks.

**Auxiliary power units** can replace idling to run safety lights and equipment on site.

**Hybrid vehicles**, light and heavy duty, improve fuel efficiency and reduce idling even in traffic.

*Heavy duty engines will actually stay warmer longer, even in winter, when turned-off rather than at idle.*

**FLEETWISER**  
Fostering Long-term Energy Efficient Transport

**Clean Nova Scotia**  
Inspiring environmental change



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



**Mixed Sources**  
Produced from well-managed  
forests and other controlled sources.  
www.fsc.org Cert no. SA-COC-1078  
© 1996 Forest Stewardship Council



**To:** Law Amendments Committee  
**From:** Derek Gillis, Fleetwiser Coordinator  
**Date:** December 2, 2010  
**RE:** Bill 114, An Act to Require an Anti-idling Policy for the Government of Nova Scotia and Public Passenger Vehicles

---

As Clean Nova Scotia's Fleetwiser Pilot Project Coordinator, I applaud the Nova Scotia government for introducing Bill 114, "The Anti-idling Act", on Friday, November 26, 2010.

I also applaud and support the Idling Law Amendments brought forth today, December 3, 2010 by the Ecology Action Centre and the Sierra Club of Canada.

**Background:**

The Fleetwiser pilot project is working with Nova Scotia municipalities and utilities to improve vehicle fleet efficiency; to reduce fuel consumption, greenhouse gas emissions, and business costs. Short and long-term strategies are underway, such as anti-idling and efficient driving promotion and education, in-car training, preventive maintenance and green procurement planning to optimize fleet equipment, technology, and vehicles.

**Experience:**

Working with municipal fleets, large and small, it is evident that fleet managers and operators are willing and able to effectively eliminate unnecessary idling, and many, if not most municipalities already have an anti-idling policy in place. In addition, many idle reduction technologies are available today; and vehicle and technology manufacturers are ready and willing to adapt, assist, and demonstrate solutions to fleets and vehicle owners upon request. Solutions proven to reduce vehicle engine idling, fuel consumption and harmful emissions include:

Active transportation, advanced battery technologies, automated vehicle tracking systems (GPS/AVL), auxiliary power units, cab heaters, block/coolant heaters, hydraulic fluid heaters, Engine Control Modules (ECM), LED lights, car sharing models, hybrid & electric vehicles, and more.

These solutions are designed and adaptable to address a range of idling scenarios such as cold-starts, engine and equipment warm-up, driver behavior, operation of on-board equipment and electronics, safety lights, and reduce risks of engine battery drainage.

All of these idle reduction solutions are available now and are evidence to an emerging idle-free culture - as expressed with the Idling Law Amendments put forth by the Ecology Action Centre, Sierra Club of Canada, and informed public citizens - including reports of an increasing number of people who contact municipal offices, police departments, and private businesses everyday to remind them of the importance to address and reduce unnecessary idling.

A strong, widespread Anti-idling Act will increase the uptake of fleet and vehicle efficiency programs and lead to greater support to expand such capacity building initiatives. The Act will help to further strengthen partnerships between vehicle and technology manufacturers and encourage the industry to fully engage with, and add incentive for, fleets to request and adopt more idle reduction solutions.

Thank you for your time, I am happy to offer insight, resources, and contacts.

Derek Gillis  
Clean Nova Scotia  
Fleetwiser Coordinator  
902.420.7944  
[dgillis@clean.ns.ca](mailto:dgillis@clean.ns.ca)  
126 Portland St. Dartmouth NS B2Y 1H8

