

# SmartWay<sup>SM</sup> Transport Fuel-Saving Technology Packages for Trucking Companies



**The Minnesota Pollution Control Agency (MPCA) and the U.S. Environmental Protection Agency's (EPA) SmartWay Transport Partnership have teamed up to help Minnesota trucking companies save fuel and reduce pollution.**

The MPCA is partnering with EPA and other organizations to provide trucking companies with the technical and financial tools needed to achieve their environmental goals. Voluntary efforts such as the SmartWay Transport Partnership play an important role in reducing emissions from diesel engines.

## Financial Assistance

While the MPCA is actively seeking funding opportunities for all businesses, one tool that is currently available is the Small Business Environmental Improvement Loan Program. This program provides low interest loans to Minnesota's small businesses for equipment that meets or exceeds environmental regulations.

## Small Business Environmental Improvement Loan Program

To qualify, a business must employ less than 50 full-time employees, have an after-tax profit of less than \$500,000, have a net worth of less than \$1,000,000, and demonstrate an ability to repay the loan.

The MPCA evaluates a loan application based on an applicant's financial need and ability to secure and repay the loan, as well as the project's expected environmental benefit. A screening committee composed of financial and environmental professionals reviews the applications and awards the loans on a competitive basis.

**SmartWay Fuel-Saving Technology Packages –** Transform your trucks into low-emission, high-efficiency vehicles with:

- Idle reduction devices
- Low rolling resistance tires
- Tractor and/or trailer aerodynamics
- Exhaust aftertreatment devices

You'll also become more attractive to environmentally-minded shippers, who are looking to work with cleaner freight carriers. To compare costs and estimate fuel savings from various technologies, visit the SmartWay Technology Package Savings Calculator at [www.epa.gov/smartway/calculator/loancalc.htm](http://www.epa.gov/smartway/calculator/loancalc.htm).

## Features:

- **Flexibility** – Custom design a package including technologies that best match your fleet operations and achieve the greatest environmental benefit. Preference will be given to those loan applications containing emission control devices.
- **Attractive Return on Investment** – Depending on technologies selected and the operation of your trucks, fuel savings may range from 10-15% for many packages.
- **Exceptional Loan Terms** – Loans are available for up to \$50,000 at an interest rate of 4 % or one-half of Prime Interest Rate (whichever is greater), with loan terms of up to 7 years.

## Need more information?

### MPCA's Small Business Ombudsman

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[www.pca.state.mn.us/programs/sbomb\\_loan.html](http://www.pca.state.mn.us/programs/sbomb_loan.html)

**For information on the SmartWay Transport Partnership, visit [www.epa.gov/smartway](http://www.epa.gov/smartway)**

# Overview of Fuel-Saving and Emission-Reduction Technologies

**Disclaimer:** The benefits described in this document are estimations only, which are based on a number of assumptions. Actual fuel savings and emission reductions may be higher or lower; they will depend on a variety of factors, including equipment type, driver performance, distances traveled, and vehicle speed.

Technology	Description	Approx. Cost	Benefits <sup>1</sup>
Idle Reduction Device – Bunk Heater	 <p>Small, lightweight, diesel fuel-fired device mounted in the cab that provides heat for cab comfort. Does not include any air conditioning capabilities.</p>	\$1,500	<p>Approx. 5% fuel savings assuming 1,200 hours of idling per year</p> <p>Additional reduction in engine wear-and-tear</p>
Idle Reduction Device – Auxiliary Power Unit	 <p>Small diesel-powered generator mounted outside the cab that provides heat, air-conditioning, and electrical power to run appliances.</p>	\$6,000 - \$8,500	<p>Approx. 8% fuel savings assuming 2,400 hours of idling per year</p> <p>Additional reduction in engine wear-and-tear.</p>
Aluminum Wheels for Single Wide Tires	 <p>Traditional dual tires are replaced with one single wide tire and aluminum wheel. Can be applied to all tractor and trailer tire positions except for the steer tires.</p>	\$5,600	Approx. 4% fuel savings
Trailer Aerodynamics	 <p>Fairings added to the front and underside of the trailer to reduce drag.</p>	\$2,400	Approx. 5% fuel savings
Emission Control Device – Oxidation Catalyst	 <p>A device added to the tractor's exhaust system to reduce the emission of particulate matter and other pollutants.</p>	\$1,200	Approx. 20 – 50% reduction in particulate matter

<sup>1</sup> All savings assume a Class 8B tractor-trailer traveling approximately 100,000 miles per year.