



# SmartWay Fuel-Saving Technology Packages for Trucking Companies



**The Small Business Loan program provides low-interest loans to Arkansas small businesses to institute pollution prevention measures.**

## Eligible Businesses

For a business to be eligible for these low-interest loans it must employ 100 or fewer individuals and provide proof of profitable operations and a demonstrated ability to repay the loan.

## Loan Process

First, the applicant submits a completed loan application with all attachments, including a complete description of and cost estimate for the eligible project. Then, ADEQ Business Assistance staff review the application and visit the site to determine eligibility.

After the loan is approved, ADEQ provides the loan monies to the applicant. ADEQ will follow-up and verify that the project has been completed.



ADEQ and the U.S. EPA's SmartWay Transport Partnership have teamed up to help Arkansas trucking companies finance projects to save fuel and reduce pollution through the ADEQ Small Business Loan Program.

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

- Idle reduction devices
- Single wide tires
- Trailer aerodynamics
- Emission control devices

Your company will become more attractive to environmentally-minded shippers who are looking to work with cleaner freight carriers.

## Features:

- **Flexible** – Custom design a package with technologies that best match your operations.
- **Attractive Return on Investment** – Depending on technologies selected and the operation of your trucks, for many packages fuel savings may range from 10-15%.
- **Attractive Loan Terms** – Loans available up to \$45,000 at 80% of Prime Interest Rate, with loan terms of up to 10 years.

## Need more information?

**ADEQ Business Assistance Program**  
Phone: (501) 682-0709 or (888) 233-0326  
Fax: (501) 682-0880  
[www.adeq.state.ar.us](http://www.adeq.state.ar.us)

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, and are based on a number of assumptions. Actual fuel savings and emission reductions may be higher or lower, and will depend on a variety of factors, including equipment type, driver performance, distances traveled, vehicle speed, etc.

Technology	Description	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>	Approx. \$1,000	Approx. 5% fuel savings assuming 1,200 hours idling per year.  Additional reduction in engine wear-and-tear.
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>	Approx. \$6,000 - \$8,000	Approx. 8% fuel savings assuming 2,400 hours idling per year.  Additional reduction in engine wear-and-tear.
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>	Approx. \$3,000	Approx. 4% fuel savings.
Trailer Aerodynamics	 <p>Fairings added to the front and underside of the trailer to reduce drag.</p>	Approx. \$2,400	Approx. 5% fuel savings.
Emission Control Device – Oxidation Catalyst	 <p>A device added to the tractor's exhaust system to reduce the emissions of particulate matter and other pollutants.</p>	Approx. \$1,000	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.

## Monthly Loan Payments and Cash Saved for Fuel-Saving and Emission-Reduction Technologies

The following tables show just how much money you can save through the use of selected technologies. Best of all, you start seeing these savings as soon as you put the equipment on your trucks. Be sure to visit the SmartWay website at <http://www.epa.gov/smartway> to use our interactive tool to calculate your own savings.

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Technology	Average Cost	Loan Period (months)	Monthly Fuel Savings <sup>2</sup>	Monthly Loan Payment (at 5% interest rate) <sup>2</sup>	\$\$\$ in Your Pocket Each Month Beginning Immediately With Equipment Installation <sup>2</sup>
Idle Reduction Device – Bunk Heater (Heater)	\$1,000	60	\$176	\$19	\$157
		36		\$30	\$146
Idle Reduction Device – Auxiliary Power Unit (APU)	\$7,000	60	\$270	\$132	\$138
		36		\$210	\$60
Aluminum Wheels for Single Wide Tires (Wheels)	\$3,000	60	\$135	\$57	\$78
		36		\$90	\$45
Trailer Aerodynamics (Aero)	\$2,400	60	\$169	\$45	\$124
		36		\$72	\$97
Emission Control Device – Oxidation Catalyst (DOC)	\$1,000	60	---	\$19	---
		36		\$30	---

### Sample Technology Packages

Equipment	Total Package Cost	% Fuel Savings	Monthly Fuel Savings <sup>2</sup>	Monthly Loan Payment (@ 5% interest rate) <sup>2</sup>		\$\$\$ in Your Pocket Each Month from Time of Installation <sup>2,3</sup>	
				36 month	60 month	36 month	60 month
APU, Wheels, Aero, DOC	\$13,400	16%	\$540	\$402	\$253	\$138	\$287
Heater, Wheels, Aero, DOC	\$7,400	13%	\$446	\$222	\$140	\$224	\$306
APU, Wheels, DOC	\$11,000	12%	\$405	\$330	\$208	\$75	\$197
APU, DOC	\$8,000	8%	\$270	\$240	\$151	\$30	\$119
Heater, DOC	\$2,000	5%	\$176	\$60	\$38	\$116	\$138

<sup>2</sup> Calculations are for a Class 8B tractor-trailer consuming 18,000 gallons of diesel fuel per year at a cost of \$2.25/gallon, and idling 2,400 hours per year.

<sup>3</sup> Note that for all equipment, after the loan period expires, the total monthly fuel savings is a benefit to the owner.