

# ECO SYSTEMS, LLC

Fuel Enhancer

(866) 374-0002

Do You Want To:

- Reduce Diesel REGEN Cycles (+/-70%)
- Reduce DPF Maintenance (+/-70%)
- Lower Emissions 40% - 70%+
- Save Fuel - Increase MPG *10% to 24%*

***Keep Your Vehicle on the Road  
NOT in the Shop!***

Easy to install, No Chemicals, No Maintenance  
Will NOT affect an Engines Warranty

# Are You Having REGEN Problems? Are You Interested in Saving Fuel?



Looking for a low cost solution to Reduce Maintenance?

*Independent EMS Test Results:  
Regen Reduction 72% - Increased MPG 13%*



*Would You Spend +/- \$390 to Save Thousands?  
90 Day No-RISK Money Back Guarantee*

*Keep Your Bus on the Road, Not in the Shop!*

# REGENS

- Stop and Go Driving and excessive idling causes frequent Regeneration Cycles.
- The more REGEN Cycles the more Soot is trapped in the DPF.
- A DPF Filter cannot clean itself at low speeds or cold temperatures.
- For a few hundred dollars the ECO System can Enhance Fuel; Helping it burn cleaner reducing rEGEN Cycles & fuel consumption.
- Cleaner Burning fuel means increased Fuel Efficiency, a smoother ride more Horsepower and Less Maintenance.
- Reduce DPF Maintenance, From Weeks to +/-1 YR.

# REGEN Test/Emissions

Hundreds have been done.

Independent Report done on EMS Vehicles w/Turbo-Diesels  
December 2014

## Reductions in REGENS consistent with Emission reductions

Fleet Fuel/ Regen Data 10/28/14								Final Download 12/15/14							
Ecosystem unit								Non-Ecosystem unit							
Unit #	Mileage	Hours	HSLR	GSLR	MSLR	Regen completed	Avg MPG	Reg/Dif.	Mileage	Hours	HSLR	GSLR	MSLR	Regen completed	Avg MPG
70	211196	21751	9.9	9.5	44	1499	7.2	15.8	217042	22399	9.6	10.16	119	1340	9.4
54	142092	14568	16.4	19.3	126	1066	7.5	25.1	15272	15272	1.8	1.8	13	1094	8.2
38	199449	20288	9.7	5.8	43	126	8	16	206147	20976	9.6	13.9	127	169	8.5
24	19773	2022	7.13	7.9	66	158	8.1	13.6	26682	2690	23.16	26.9	235	207	8.6
26	159157	16385	8.3	9.5	101	1127	7	13.68	166025	17124	3	3.2	26	1181	8.1
39	128011	12904	1.86	2.4	13	1189	6.6	11.74	134413	13585	0.6	0.5	1	1247	6.7
58	148367	14999	1.02	1.3	15	1622	6.8	6.45	153908	15586	0.47	0.5	4	1713	7.9
56	2096	74	11.86	11.6	98	14	8	17.7	6629	729	14.46	19.7	179	51	8.3
29	151455	15524	1.5	1.1	11	1170	7.4	13.76	137168	16116	2.3	2.1	9	1213	7.6
36	582	38	2.33	2.4	14	13	5.4	21.83	4213	431	11.87	11.9	165	31	8.1
								AVG MPG 7.2 Average 15.5 Hour/ Regens 72% Reduction in Regens							
								AVG MPG 8.14 13% Increase in Fuel Economy							
Ecosystem unit								Non-Ecosystem unit							
Unit #	Mileage	Hours	HSLR	GSLR	MSLR	Regen completed	Avg MPG	Reg/Dif.	Mileage	Hours	HSLR	GSLR	MSLR	Regen completed	Avg MPG
34	186449	19084	7.6	10	63	1178	6.8	0.96	191563	19594	6.9	9	99	1709	6.9
60	119648	12225	2.11	2.1	6	1118	6.3	9.75	126489	12976	3.28	5.3	41	1195	6.7
601	70320	4408	7.4	8.4	101	127	6	1.92	74120	4819	9.4	11.9	88	341	7.6
37	233603	23947	7.6	7.1	78	1580	6.4	15.48	140525	24675	14.5	18.2	174	1627	6.4
23	46156	4355	0.26	0.3	0	242	7.6	21.23	51568	4907	17.02	21.1	184	268	7.5
55	147198	14880	1.97	2.4	28	1603	6.3	0.94	155711	15291	6.1	6.1	47	2037	7.5
28	136821	16816	12.07	15.3	117	380	6.9	15.6	167771	16910	18	8	89	386	7.2
57	194076	19839	2.5	3.2	29	1358	7.4	15.42	200664	20564	4.6	4	44	1405	7.5
74	214243	21964	1.1	1.8	27	2301	7.1	7.5	220006	22586	3.6	5.8	87	2384	6.1
31	137145	16132	9.22	15.8	135	124	7.2	1.27	163682	16859	1.9	2.1	12	695	7.1
								AVG MPG 6.8 Average 9 Hour / Regens							

### Results:

**72% Reductions in REGENS**

**13% Improvement in Fuel Economy**

*Excessive Idling and Stop & Go Driving*

# Fuel Savings

- On average our units save 10% to 12% in fuel.
- We have seen Higher (40%) and Lower (6.5%) numbers, much depends on the condition of the engine, driving habits, and type of work done.
- When you introduce a better quality of fuel to your engine it will result in better fuel economy, better performance and lower emissions.
- 10 to 12 gallons of fuel saved every 100 gallons pumped into your fleet is a huge savings!



# Reduce the Cost of Maintenance

- Less Re-Gen cycles on engines with Particulate traps. A cleaner burn produces less soot.
- A more complete burn means less carbon going into your oil increasing the life of your engine.
- Less carbon build up on injectors.
- Less carbon build up on EGR valves and O2 sensors.
- Engine runs smoother and at a cooler thermal temperature.
- Run smoother, cleaner with more power.

# IF YOU'RE SERIOUS ABOUT:

- Lowering Your Operational Cost.
- Reducing problems from EGR's and REGENS.
- Putting money back in your budget
- Increasing Your MPG 10% to 24%.
- Reducing Your Carbon Footprint.
- Lowering maintenance from carbon buildup.
- Help clean the Air We All Breathe?
- **Not waiting for Government Mandates?**

**WE WILL DO ALL THIS FOR YOU!**

*ECOFuelMaximizer is Patented & Proven*

# How Does It Work?

- ECO Systems Fuel Enhancers work by enhancing the fuel you are currently using, helping it to burn cleaner.
- Works on Gasoline, Diesel, Propane, Biofuels, Ethanol Blends, and Natural Gas.
- Savings in fuel consumption, with cleaner burning fuel you can increase MPG from 6.5% to over 24%. On average, 10%.





# How ECO's Work Continued

- ECO-Systems work as a catalyst to enhance fuel by increasing it's ability to Vaporize creating a better Air – Fuel ratio.
- This process causes a more complete burn in the combustion chamber.
- A more complete burn means increased horsepower, fuel efficiency & less Pollution.
- Reduced Particulate emissions emitted from the exhaust system reduces REGENS and Expenses.
- Less fuel needed to create the same performance as before equals fuel savings. Call it profit!

# Installation & Warranty

- Installation should be done by a certified technician familiar with fuel lines.
- Fleets with their own maintenance shops to do their own installations.
- 5 year manufacturer's limited warranty against any defects.
- Units life expectancy +/-40 Years!
- Those that have been using ECO products for years, remove and reinstalled them on new replacements.

# Installations



Installation of an ECO #4 with a 005 kit on a Cummins engine. Disconnect the quick disconnect from the fuel filter. Then connect the male and Female 3/8's fittings from our unit to the engines male & female fittings, tie strap the ECO #4 securely.

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# Warranty

## RISK FREE! 90 Day Money Back Guarantee.

### Can an automotive dealership void your warranty?

#### Understanding the Magnuson-Moss Warranty Act of 1975.

Nearly everyone has heard about someone who has taken a vehicle that has been modified with aftermarket parts to a dealer for warranty service, only to have the dealer refuse to cover the defective items. The dealer usually states that because of the aftermarket parts the warranty is void, without even attempting to determine whether the aftermarket part caused the problem.

This is illegal.

Vehicle manufacturers are not allowed to void the vehicle warranty just because aftermarket parts are on the vehicle. To better understand this problem it is best to know the differences between the two types of new car warranties and the two types of emission warranties.

When a vehicle is purchased new and the owner is protected against the faults that may occur by an expressed warranty - an offer by the manufacturer to assume the responsibility for problems with predetermined parts during a stated period of time. Beyond the expressed warranty, the vehicle manufacturer is often held responsible for further implied warranties. These state that a manufactured product should meet certain standards. However, in both cases, the mere presence of aftermarket parts doesn't void the warranty.

There are also two emission warranties (defect and performance) required under the clean air act. The defect warranty requires the manufacturer to produce a vehicle which, at the time of sale, is free of defects that would cause it to not meet the required emission levels for its useful life as defined in the law. The performance warranty implies a vehicle must maintain certain levels of emission performance over its useful life. If the vehicle fails to meet the performance warranty requirements, the manufacturer must make repairs at no cost to the owner, even if an aftermarket part is directly responsible for a warranty claim, the vehicle manufacturer cannot void the performance warranty. This protection is the result of a parts self - certification program developed by the Environmental Protection Agency (EPA) and the Specialty Equipment Market Association (SEMA).

In cases where such a failed aftermarket part is responsible for a warranty claim, the vehicle manufacturer must arrange a settlement with the consumer, but by law the new - vehicle warranty is not voided.

Overall, the laws governing warranties are very clear. The only time a new vehicle warranty can be voided is if an aftermarket part has been installed and it can be proven that it is responsible for an emission warranty claim. However, a vehicle manufacturer or dealership cannot void a warranty simply because an aftermarket equipment has been installed on a vehicle.

If a dealership denies a warranty claim and you think the claim falls under the rules explained above concerning the clean air act (such as an emission part failure), obtain a written explanation of the dealers refusal. Then follow the steps outlined in the owners manual. However, if this fails, then phone your complaint in to the EPA at (202) 233-9040 or (202) 326-9100.

If a dealer denies a warranty claim involving an implied or expressed new car warranty and you would like help, you can contact the Federal Trade Commission (FTC). The FTC works for the consumer to prevent fraudulent, deceptive and unfair business practices in the marketplace and to provide information to help consumers spot, stop and avoid them. To file a complaint, you can call toll-free, 1-877-FTC-HELP (1-877-382-4357), or use the [online complaint form](#). The FTC enters Internet, telemarketing, and other fraud-related complaints into Consumer Sentinel, a secure, online database available to hundreds of civil and criminal law enforcement agencies worldwide.

#### WHAT IS THE MAGNUSON-MOSS WARRANTY ACT?

On January 4, 1975, President Ford signed into law the Magnuson-Moss Warranty Act, Title 1, ...101-112, 15 U.S.C. ...2301 et seq. This act, effective July 4, 1975, is designed to "improve the adequacy of information available to consumers, prevent deception, and improve competition in the marketing of consumer products. . . ." The Magnuson-Moss Warranty Act applies only to consumer products, which are defined as "any tangible personal property which is distributed in commerce and which is normally used for personal, family, or household purposes (including any such property intended to be attached to or installed in any real property without regard to whether it is so attached or installed)." Under Section 103 of the Act, if a warrantor sells a consumer product costing more than \$15 under written warranty, the writing must state the warranty in readily understandable language as determined by standards set forth by the Federal Trade Commission. There is, however, no requirement that a warranty be given nor that any product be warranted for any length of time. Thus the Act only requires that when there is a written warranty, the warrantor clearly disclose the nature of his warranty obligation prior to the sale of the product. The consumer may then compare warranty protection, thus shopping for the "best buy." To further protect the consumer from deception, the Act requires that any written warranty must be labeled as either a "full" or a "limited" warranty. Only warranties that meet the standards of the Act may be labeled as "full." One of the most important provisions of the Act prohibits a warrantor from disclaiming or modifying any implied warranty whenever any written warranty is given or service contract entered into. Implied warranties may, however, be limited in duration if the limitation is reasonable, conscionable, and set forth in clear and unmistakable language prominently displayed on the face of the warranty. A consumer damaged by breach of warranty, or noncompliance with the act, may sue in either state or federal district court. Access to federal court, however, is severely limited by the Act's provision that no claim may be brought in federal court if: (a) The amount in controversy of any individual claim is less than \$25,000; (b) the amount in controversy is less than the sum or value of \$50,000 computed on the basis of all claims in the suit; or (c) a class action is brought, and the number of named plaintiffs is less than 100. In light of these requirements it is



# WARRANTY

Adding an ECO Fuel Systems Fuel Enhancer will not affect your vehicles warranty. It is specifically against the law to prohibit after market devices.

The ECO System alters fuel not the engine. If you are told Installing our ECO System will void your warranty, call us. Please ask them to put it in writing.

If they won't put it in writing, you know their concerns are not applicable. In fact is illegal!

We are here to HELP! (866) 374-0002

*Magnuson-Moss Warranty Act*



# Diesel Trucks

## Purchase Price Recovery

### 20 days/2.7 weeks



**Reduce REGEN Cycles +/-70%**  
**Increase MPG 10% (average)**  
**Spend \$390 & Save Thousands**  
**Money Back GUARANTEE!**  
**NO RISK! ROI: +/-20 Days**



### ECO Fuel Savings

(877) 374-0002



**Reduce REGEN Cycles +/-70% & increase MPG +/-10%**  
*No Risk - Money Back Guarantee*

Type of Vehicle:	Tractor Trailer	Type of Engine:	Diesel <400HP
# of Vehicles:	1		
Price of Fuel:	\$2.85	(per US Gallon)	
Gallons per week:	500	(per vehicle)	
Fuel Savings:	10%	Savings \$:	\$142.50/wk. - \$570/mo.
DPF Maint. Savings:	50%-70%+	Savings \$:	\$230.80/wk. - \$923.20/mo. - \$3k/yr.
Miles per week:	2,500	(your mileage may vary)	

#### Fuel Savings

Calculations were done featuring a full sized Tractor Trailer Truck using 500 gallons of fuel per week, MPG base is 5 MPG. The cost of fuel per gallon is \$2.85, with a 10% reduction in fuel consumption the estimated savings is \$142.50 per week or \$570 per month.

#### MPG

With a 10% reduction in fuel the Miles per Gallon would increase from 5 MPG to 5.5 MPG.

#### DEF - Diesel Particulate Filter reductions:

By reducing the Regeneration Cycles on a vehicle, DPF maintenance and down time can be reduced 50% to +/-70%. DPF maintenance savings +/- \$3,000/truck annually and reduced down time.

*Keep your Trucks on the road, not in the shop.*

#### Purchase Price Recovery:

*With a fuel savings of \$570 per month, the ECO Unit can pay for itself in +/-20days. Thousands more can be saved in maintenance and down time.*

#### Carbon Emissions:

EPA [Carbon Footprint calculator](#), older (<2007) diesels without DPF: for every gallon of diesel fuel burnt the Carbon Dioxide 22.38/gal. or +/-11,190 pounds of Carbon Pollution per 500 gallons of diesel. Newer Diesel engines with DPF reduce Carbon Pollution, but may require costly maintenance and down time.

**ECO Fuel System products will not affect an engines warranty. They have a 5 year manufacturers Warranty and a life expectancy of +/- 40 years.**

*The ECO Fuel Enhancer can be Re-installed to a new similar engine.*

*Would You Spend \$390 to save Thousands?*

# U.S.I. Test Results



6.5% Fuel Savings  
8.75mpg to 9.31mpg

ROI: 2.7 weeks or less



## TRANSPORTATION

The following tests were conducted on a bobtail 2007 Peterbilt Conv. 379 with a C-15 Cat. set up with Multi-torque 435 h.p. 1550/1750 with 460,374 miles and a 10 speed manual transmission. The test runs were conducted on highway at the same speed with the same amount of cruise. All information was gathered thru reading the ECM and using Cat. Electronic Technician.

### Controlled Test Run 1

Length	Driving MPG
23 miles	8.76

### Controlled Test Run 2

Length	Driving MPG
23 miles	8.71

95% consistant

Average:	
<b>23 Miles</b>	<b>8.74</b>

### • Ecosystems Eco 4 installed

### Controlled Test Run 1

Length	Driving MPG
23	9.15

### Controlled Test Run 2

Length	Driving MPG
23	9.47

Average:	
<b>23 Miles</b>	<b>9.31</b>

<u>Change in tenths</u>	<u>.57</u>
<u>Overall change %</u>	<u>6.5%</u>

Javier Salazar  
R&D

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800-733-6606 - Inbound WATS  
956-781-6608 - FAX Machine  
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Laredo, Texas 78045  
956-725-0700 - Office  
956-725-9511 - FAX Machine

# School Buses

*BlueBird, Thomas & International*

Entire Fleets with ECO-Systems

*Over 200 School Districts on 38,000+ Buses*

Bluebird School Bus with Cummins 6.7 turbo diesel engine ECO-4



**Proven Track Record**  
ECO Systems has a long (14+ yrs.) and proven track record of working with (200+) school district transportation departments of all sizes.

Thomas School Bus with Cummins 6.7 turbo diesel engine using the ECO-4



**Proven Track Record**  
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International School Bus with a DT-466 International inline 6 turbo diesel engine - ECO-4



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BlueBird

Thomas

International

**Thousands of Gallons of Fuel Saved Annually!**



# Entire Fleets Have Proven Effects of ECO's



Northeast ISD San Antonio, Texas



Uvalde Consolidated ISD Uvalde, Texas

Entire Fleets throughout Texas are enjoying the Benefits of using  
ECO-Systems and have proven to themselves the Return On  
Investment is measured in just a few short months.  
Call for references.

# Buses

## Entire Fleets with ECO-Systems



### Star shuttle & Coaches

**130 Eco Systems currently installed in our fleet, of 100 Minivans and 30 Motor-Coaches. Average fuel savings 10-14%. Overall less maintenance needed, savings directly attributed to the Eco System Enhancer.**

**Easy to install between fuel filter and engine fuel intake.**

**No Maintenance**

**No Chemicals**

**No Magnets**

**No Problems**



**Thousands of Gallons of Fuel Saved Annually!**



# Police unit with an ECO # 2



**Increased Performance**

**Quicker Throttle Response**

**Less Maintenance Cost**

**Increased Miles Per Gallon**





# Fuel Savings

- On average our units save 10% to 12% in fuel.
- We have seen Higher (40%) and Lower (6.5%) numbers, much depends on the condition of the engine, driving habits, and type of work done.
- When you introduce a better quality of fuel to your engine it will result in better fuel economy, better performance and lower emissions.
- 10 to 12 gallons of fuel saved every 100 gallons pumped into your fleet is a huge savings!

# Question to Ask Yourself ?

If you had an employee that you knew was “stealing” 7 to 12 gallons of fuel, out of every 100 gallons pumped into your fleet would you “Terminate” their employment? Is it worth it to you to continue losing money?

Choosing Not to use ECO-Systems on your fleet is like stealing from yourself. You are blowing dollars out the exhaust systems every day as un-burnt fuel. 2007 and newer diesels un-burnt fuel it is caught in the DPF.

This does not include the savings of less DPF maintenance and Downtime due to Excessive Regens.

# Expensive Carbon Build Up



6.0 EGR Valve



EGR Cooler with Carbon Build Up

# Emissions Reduction

By Reducing Particulates from the exhaust ECO-Systems is able to Reduce Frequent Regen Cycles keeping your fleet on the road and not in the shop.

Your employees will waist less time doing DPF maintenance and can do more productive work.

# Maintenance of ECO-Systems

- **Maintenance is Simple: There is None!**
- Install it and let it work.
- **No Chemicals & No Maintenance** for the unit.
- When you trade, remove and install on another similar engine.
- You may need to change the installation kit & adapters if engine fittings are different.
- 5-Year Limited Warranty
- Expected Working Life: 40 Years



# Which ECO System?

## **ECO #2      5 Liter engine, or less**

Small trucks, most passenger vehicles, ATV, motorcycles, generators, and most engines under 5 liters.

## **ECO #4      5+ Liter engine, up to 400 HP**

School buses, buses, full size pickup trucks, long haul trucks, large diesel engines, and off-road equipment. ECO Unit fuel line size may require a larger ECO Fuel Enhancer.

## **ECO #5      Big engines 400+ HP**

Heavy equipment, including large generators, and earth moving equipment, large yachts, boats, etc.

Quick connect fittings and Install Kits available for most applications.



# Contacts

[www.ECOFuelMaximizer.com](http://www.ECOFuelMaximizer.com)

We are here to answer any questions and help you select and purchase the proper ECO System.

Call us for references from customers

*Factory Warehouse Distributor*

Cary Nagdeman, Director

(866) 374-0002

[Info@ECOFuelMaximizer.com](mailto:Info@ECOFuelMaximizer.com)

Proud Sponsor of TAPT, TASBT and FAPT Member

# 10 Reasons Not to Buy ECO Systems

1. You own oil wells.
2. You don't care about saving fuel.
3. You need to spend your whole fuel budget.
4. You are not worried about air quality.
5. You like buying DPF units for your diesels.
6. You don't care about children breathing soot.
7. You want to wait until cleaner air is mandated.
8. Data for 10+ years, 38,000 buses, in 200+ School Districts is not sufficient.
9. You don't believe in aftermarket products even if they are proven to work.
10. Your Crazy! You have nothing to lose & much to gain.