MARSHCREEK
ENERGY SYSTEMS

HYDRO-CELL

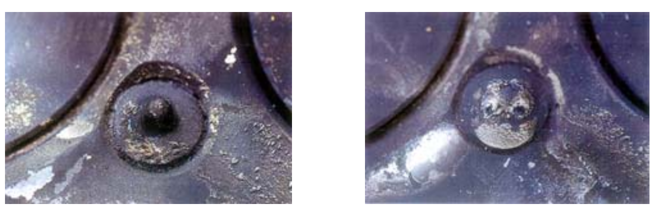
Emissions Reducer For

Diesel Powered Generator Sets

- Tested by the EPA
- Tested at California Environmental Engineering

The HYDRO-CELL reduces green house gas emissions, soot emissions, and fuel consumption of diesel engines. Testing on diesel engines consistently shows a 30% to 50% reduction in soot emissions, significant reductions of green house gas emissions, and a 2% to 4% reduction in fuel consumption.

Using electrolysis, the HYDRO-CELL creates hydrogen and oxygen from water and injects it into your diesel engine. Simple connections to your vehicle electrical system and engine air intake are all that is required to operate. Hydrogen and oxygen are mixed with your engine's combustion air at a patent-pending ratio. The HYDRO-CELL creates hydrogen and oxygen on demand, nothing is stored. Maintenance is simple, add distilled water once a month.



The injector on the left is with the HYDRO-CELL, the one on the right is without.

The HYDRO-CELL was tested on a diesel engine at California Environmental Engineering. This initial testing in California showed exceptional results. A patent application addressing the use of the HYDRO-CELL in diesel engines was submitted in 2006. This application is currently under review by the patent office.

The EPA has issued a certificate to sell the HYDRO-CELL as a fuel additive. The certificate, # 198220001 HYDRO-CELL, was issued in July 2005.

In addition to testing by California Environmental Engineering, the Hydro Cell has been proven to reduce green house gas, soot emissions, and fuel consumption. Tests on the engine oil during the durability test showed less soot in the oil, less internal metal wear, and improved oil viscosity due to less oil dilution by unburned fuel.

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- **<u>2005 LaVergne, Tennessee</u>** A truck equipped with a Series 60 Detroit diesel engine was tested on a chassis dyno. This test focused on fuel consumption. With the engine running at 87.8% power test data showed a 2.43% reduction in fuel consumption. At 50% power fuel consumption was reduced by 3.8%.

- **<u>2005 New Zealand</u>** – Applied Publications LTD, which publishes NZ Truck and Driver Magazine conducted chassis dyno and over the road tests of trucks with the HYDRO-CELL. The test results showed reductions in emissions and fuel consumption.

- **<u>2005 Anchorage, Alaska</u>** A 2000-hour test using two identical Tier II California emissions certified Northern Lights 10 KW generator sets. One generator was run with the HYDRO-CELL, the other without.

HYDRO-CELL Results

Emissions *Fuel Consumption*	*0 % Load*	*40% Load*	*80% Load*
O_2	+1.65%	+1.92%	-0.83%
CO_2	-14.29%	-7.50%	+1.54%
CO PPM	0.57%	0.00%	-1.49%
NO PPM	-6.06%	-4.42%	-1.60%
NOX PPM	-1.02%	-2.54%	-1.30%
SOOT	-66.67%	-14.29%	-31.58%
Fuel Consumption (136 hour run time)	*	-4.17%	-4.17%

***** Fuel consumed not measurable with scale used

- **<u>2004 Anchorage, Alaska</u> -** Hydro Cell tests were completed on a 2003 turbo charged electronic direct injection Dodge Cummings engine.

HYDRO-CELL Results

Emissions	*2003 Dodge (Cummins)*
O_2	-0.83%
CO_2	+1.54%
CO PPM	-1.49%
NO PPM	-1.60%
NOX PPM	-1.30%
SOOT	-66.67%

- **<u>1996 Anaheim, California</u>** - Proof of concept testing was completed at Rousch Laboratories on gasoline engines. Based on test results, a patent application for use of the device on gasoline engines was filed in 1996. Patent #5,733,421 was granted to HYDRO-CELL thirteen months later.

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HYDRO-CELL Payoff

ENGINE			Gallons	GPH	Fuel Cost		Fuel Savings		HYDRO-CELL	Investment
HP	kW	Displacement	Per Year		$/Gal.	$/Year	Gallons	$$$	Price	Recovery
15	10	1.4 Liters	11,650	1.33	$3.00	$34,950	233	$699	$750	13 Mos.
					$4.50	$52,425	233	$1,049	$750	8.5 Mos.
					$6.00	$69,900	233	$1,398	$750	6.5 Mos.
295	200	13 Liters	131,400	15	$3.00	$394,200	2,628	$7,884	$7,500	11 Mos.
					$4.50	$591,300	2,628	$11,826	$7,500	7.6 Mos.
					$6.00	$788,400	2,628	$15,768	$7,500	6 Mos.
744	500	18 Liters	315,360	36	$3.00	$946,080	6,307	$18,921	$12,000	5 Mos.
					$4.50	$1,419,120	6,307	$28,382	$12,000	4 Mos.
					$6.00	$1,892,160	6,307	$37,842	$12,000	2.5 Mos.

Gregory Monette, the President of HYDRO-CELL Systems International, started the development of the HYDRO-CELL concept in 1995. HYDRO-CELL Systems International, an Alaskan based company, has forty seven investors that have invested over $300,000 researching, developing, and testing the HYDRO-CELL.

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The HYDRO-CELL has been designed and tested, by HYDRO-CELL Systems International and manufactured by HYDRO-CELL Alaska. The HYDRO-CELL is distributed through Marsh Creek Energy Systems.