

All Green Energy Solutions Inc.



All Green Energy Solution Inc. is a company dedicated to providing energy cost reduction and to the elimination or reduction of polluting carbon based fuels.

Today the transportation Industry faces an unavoidable major problem. The rising costs of Diesel fuel and costs arising from regulations to curb polluting emissions, from the usage of diesel fuel. To some companies these costs are crippling and limiting to business growth.

All Green Energy Solutions, has an elegant, clean and safe solution that utilizes the most efficient and powerful combustive fuel. Hydrogen, the same stuff that powers our sun. The most common element in the universe and on earth. We can never run out of it since it is one of the elements of our oceans. Hydrogen gas burns 9x faster than diesel, so when it is introduced to the combustion chamber of a diesel engine, together with diesel. It ensures the diesel fuel burns completely and thus reducing emissions significantly.

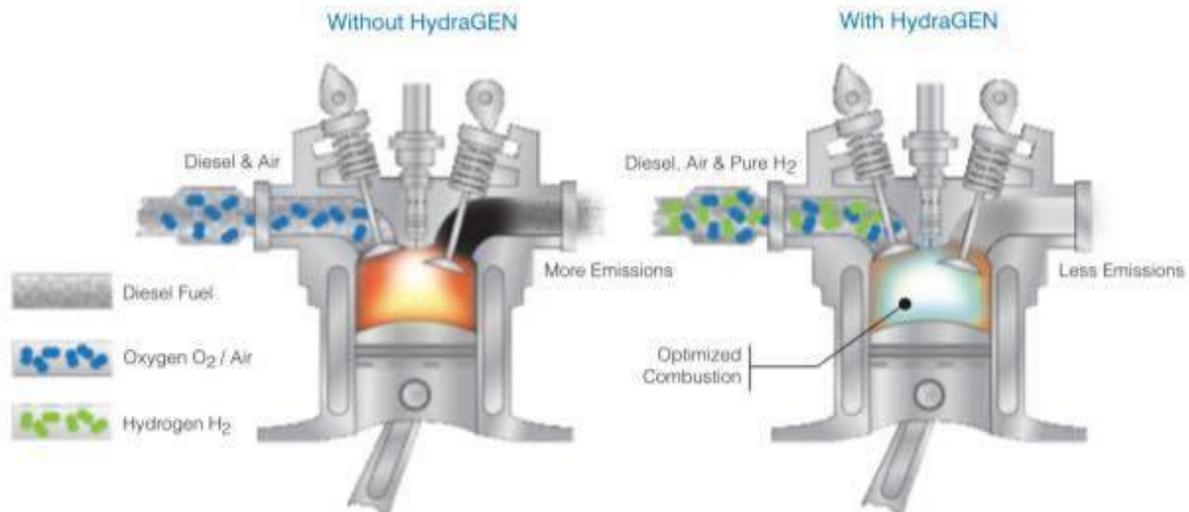
The concept is simple enough and quite obvious. The technology and process are called Hydrogen on Demand, since the hydrogen gas is not kept in pressure tanks but rather is produced by electrolysis on demand, from a tank of distilled water. As the gas is produced it is fed into the engine to enhance the diesel burn, this entire process is very safe, reliable and there is never a safety issue. The Hydrogen On Demand has been available for a few decades but unfortunately unsuccessfully, due to the fact the many attempts to bring it to market by numerous companies have failed to produce consistent results. The concept is simple but a successful execution is not.

Well that is until now.

All Green Energy Solutions is proud to introduce dynaCERT's *HydraGEN*[™] HG1. The Hydrogen On Demand technology has finally been perfected. Simply just combining hydrogen gas together with the diesel spray nozzle produces wildly variable results, which in most cases are totally ineffectual. This is what was attempted in the past by many unfortunate companies. dynaCERT Inc. pondered the problem and took the correct approach by contracting a top NASA rocket scientist specializing in hydrogen fuel usage on rockets. The solution was found. An exact amount of hydrogen and oxygen gas is blended



with an exact amount diesel spray, finely calibrated by a proprietary algorithm software residing in the *HydraGEN*[™] unit computer. This computer is in constant synchronization with the truck's computer which controls the diesel fuel flow. The results are spectacular and fully consistent.



The technology is now very successfully being introduced to the market.

The *HydraGEN*[™] HG1 unit consists of a box type structure which houses an electrolyzer reactor core. Distilled water is drawn from a 5 litre tank (externally mounted) into the reactor core. 18 amps of electricity are used from the trucks electrical system to power the electrolyzer. The distilled water is split into hydrogen gas and oxygen gas. The gases are stored in their respective tanks under low pressure. The *HydraGEN*[™] HG1's on board computer sends the exact combination of oxygen to hydrogen to the engine to achieve a fully optimized power stroke burn.

It is not common, for a product to achieve so many positive benefits with absolutely no downside whatsoever. Below are some of the major benefits.

Cost Reduction Benefits.

- A more optimized complete combustion burn requires 18% to 22% less fuel than normal. This is the largest of the cost reduction benefits, making it the most popular feature. We guarantee a minimum of 15% reduction.
- Hydrogen is produced by vehicle at almost no cost. The only consumable is distilled water, but at a litre per 1000 km, the cost is negligible.
- The engine runs cooler and so does the exhaust system, reducing the usage of DEF (Diesel Exhaust Fluid) by as much as 50% (according to current users of the *HydraGEN*[™] HG1) a notable cost reduction.

- Less frequent and thus less costly Carbon Particulate Filter replacements due to 65% reduction in particulate matter. These filters are expensive, so there is a nice cost reduction.
- Because of the significant reduction in CO₂ and particulate matter, oil quality is retained for much longer. Less frequent oil changes, yet another cost reduction.

Environmental Benefits.

- CO₂ and NO_x emissions reduced by 10-40%
- Particulate matter (soot) reduced more greater than 65%
- Lower hydrocarbons and other pollutants
- Generous government rebates per unit (where applicable)

Operational benefits and savings.

- Optimized combustion increases horsepower and torque very noticeably increased.
- Unit computer produces reports via Wi-Fi ideal for carbon credits.
- Cooler and cleaner engine result in less truck wear and tear and thus lower downtime (savings).
- *HydraGEN*[™] HG1 unit has no moving parts, 10 year life. Easily transferred to a new vehicle.
- Installation is simple, usually takes 2.5 to 3 hours (training provided).
- *HydraGEN*[™] HG1 does not void any manufacturer warranties.
- Very little driver interface required (water container refill only).
- ROI typically less than a year, various leasing or finance options available.
- No cost trials available 15% fuel reduction guaranteed.

The Diesel engine is still the most effective powerful way we can haul, move, lift or provide non electric grid power. Unfortunately, the fuel to operate these machines is expensive, and environmentally dirty. dynaCERT's *HydraGEN*[™] technology alleviates all the negatives tuning the fuel into less costly and far more environmentally friendly alternative. Your All Green Energy Solutions consultant will answer all your questions and provide you with cost free proposal.