

# REDUCE FUEL CONSUMPTION AND EMISSIONS WITH HYPERSONIC TECHNOLOGY

ecomanda AG, based in Hünenberg, Switzerland, has developed X-Fuel Energizer, a unique hypersonic technology that besides improving combustion on petroleum fuel engines and increase flame temperatures it reduces emissions significantly.

X-Fuel Energizer is an innovative and unique additive technology that acts physically on liquid fuel molecules to improve the combustion process. The patented technology consists of a unique liquid chemical solution. The mixture is then charged using a hypersonic frequency before being added to fuels.

X-Fuel Energizer is an innovative additive technology that improves the combustion of liquid fuel based on a physical activation. The patented technology consists of a unique liquid chemical solution. This unique solution is physically charged by a hypersonic technology.

When mixed into fuel at a ratio of 1:10,000 the optimized combustion results in more energy output and the emissions, such as CO, HC, NO<sub>x</sub>, particles and CO<sub>2</sub> are reduced significantly.

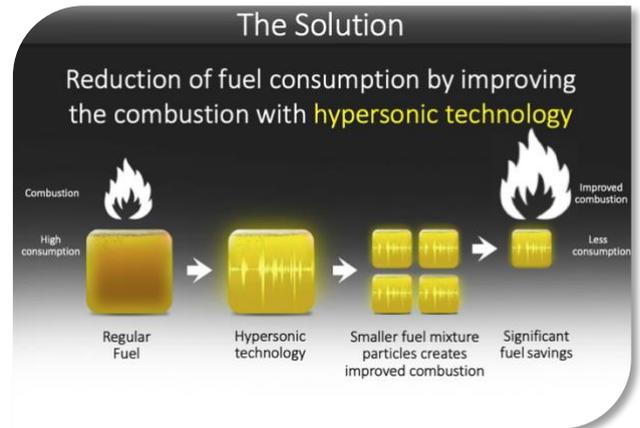
There is no such fast and highly profitable Return On Investment green solution available in the market today that can bring both economic advantages and green benefits to our environment.



Patent: PCT/EP/2016/060462.

## Benefits

- Improved combustion;
- Reduction on fuel consumption;
- Lower emissions;
- Increased flame temperature;



## Testing and key results

In engines X-Fuel Energizer leads to fewer unburned hydrocarbons, reduced particle emissions from diesel engines, better performance at start up and in cold weather, greater dynamic power and longer engine life-times.

This has been confirmed by the numerous independent organizations in the field of vehicle emissions, which showed fuels savings of 8-17%, a 8-17% fall in CO<sub>2</sub> emissions, a 43-73% fall in CO emissions, a 36-65% reduction in hydrocarbon emissions and a 10-20% decrease in NO<sub>x</sub>.

## Safe to use

Tests have proven X-Fuel Energizer to be safe to use. After the addition of X-Fuel Energizer, commercial fuels continue complying with EU standard regulations for diesel (EN 590), gasoline (EN 228), heavy fuel oil (RMG 380) and marine diesel (DMA). SGS reports stating that X-Fuel Energizer does not change the fuel parameters can be provided upon request.

