

# Global Cooling Solutions,

## Introduction

Global Cooling Solutions, Inc. has developed an affordable technology for standard combustion engines that increases fuel economy and simultaneously reduces emissions. Our patent pending technology is a non-intrusive addition to a standard combustion engine consuming diesel, bio-diesel, gasoline, bio-fuels, ethanol blends, or CNG's. Our small and self-contained system generates Hydrogen on demand from water using the engine's standard 12v or 24v charging system. Our system does not require engine replacements, retrofits, hydrogen storage, chemical fuel additives, fuel cells, or hydrogen "at the pump." Our technology has increased fuel economy 10% - 25% (depending on the engine and application) while simultaneously reducing emission outputs 25% - 75%. Our emission reduction is accomplished without robbing any horsepower or torque from the engine that would otherwise be typical with a current emission control device.

*Fleet operators, parcel companies, ports, municipalities, and the general commuting public can now enjoy lower fuel overheads with a smaller carbon footprint. Our technology has been researched, tested and proven on modern fleet engines. We have completed 3 patent filings, and have an application into the California Air Resource Board. We have completed proof of concept, full scale on-road prototype testing and are now ready for mass production. We are currently in the final stages of product development to maximize our prototype for large scale low-cost manufacturing.*

## Domestic Fleet, DOT 2006



220 Million



18 Million



3.5 Million

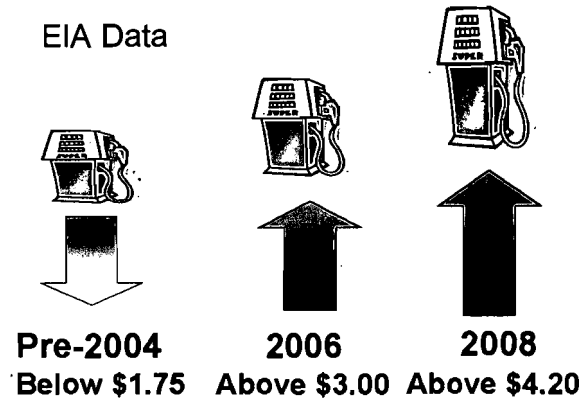


2.6 Million

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Our targets include shipping, logistics, parcel, municipal, delivery, and transportation operators in the USA and Europe. In the last 5 years their fuel overheads have risen over 200% due to the higher global demand for diesel fuel. Diesel is used to power their tractor trucks, mid-sized fleet trucks, generators, and other utility vehicles. By lowering their fuel consumption only 10%, these operators save tens of millions in fuel overhead using a product that can pay for itself inside of 8 -15 months.

*Today, diesel fuel at the pump can be priced over \$4.00/gallon domestically. This higher diesel fuel demand and cost has directly affected the operational overheads of the transportation industry that is powered by diesel fuel today. One example is a publicly traded operator, Swift Transportation (SWFT), who in 2006 posted over \$610M in fuel surcharges and fuel expenses for their 18,000 vehicles.*



#### **How is our technology different?**

Our product is designed to operate "on demand" when the vehicle or equipment is driving, sitting at idle, or running a fixed RPM (as a generator). Our non-invasive system does not require any changes to the engine, equipment, or vehicle. Other alternatives may require compressed fuel storage, pre-manufactured fuel or precious metal and toxic chemical reactions. Many natural gas and fuel-cell solutions require costly engine or drive train overhauls including special fuel storage on the vehicle. Most of these solutions include new fuel delivery infrastructure (at the pump) and the mass production of said alternative fuels that may be years away. Our solution will reduce the carbon footprint of the petroleum economy today, and into the future. Alternative fuel solutions are, as yet, far from mainstream. Many bio and natural gas solutions are powering a growing percentage of vehicles as their fuel manufacturing and distribution systems grow globally. The great news is that our proprietary technology can further enhance the performance and lower emissions of these green alternatives today and into the future as they become commonplace.

#### **Our Mission**

To increase energy efficiency for the transportation industry giving our petroleum fueled economies an affordable and clean solution today.