Less fuel, Less CO2, More power
Hi-TEC dual fuel systems

The Diesel/Natural Gas Dual Fuel system is an innovative sequential injection system for conversion of diesel engines on commercial and public transport vehicles into engines capable of running on a blend of diesel and natural gas. The system’s sophisticated special electronics blend the two fuels, giving preference to use of natural gas with the economic benefits this brings. The Diesel Dual Fuel Electronic Control Unit calculates in real time the amount of diesel fuel it can decrease and the amount to be injected, ensuring the same power output and fewer pollutants compared to the original engine, thus reducing consumption and running costs while retaining the same lifespan and performance of the original engine.

Hi-TEC dual fuel systems suitable for every diesel engine

Hi-TEC systems are suitable for all types vehicles or machinery with a diesel engine, the newest (Euro 6), as well as the less advanced, which do not have advanced engine control systems. Hi-TEC dual fuel system is the first dual fuel system with automatic calibration and correction of gas injection. Full synchronization of gas injection frequency with engine speed and the number of cylinders, which ensures a uniform supply to all cylinders, better engine smoothness and increase in the efficiency of gas as additional fuel.

Why to choose for a Hi-TEC dual fuel system?

- Our systems: are LPG CNG LNG compatible
- Increase in power & torque
- Easy Conversion Technology
- No Diesel Remapping
- No engine modifications
- Self Calibration Modes
- 2D & 3D gas injection mapping

- High precision injection control
- Electronic gas injectors
- Reliable use of MAP & EGT sensors
- Compatible with SAE J1939 (CAN)
- J1708 (RS485)
- All systems are tested and certificated
Cleaner energy

(NOx) - 8.52%
(CO2) - 4.5%
(PM) - 85%

Dual Fuel systems for less Carbon Dioxide

Hi-TEC, professionals offering professional solutions

Hi-TEC consists a flexible, high competent team of experts with backgrounds in engine manufacturing and applications. We provide project management, specialist services, engineering and equipment for engine based power plants worldwide. This experience is applied in Hi-TEC’s supply, design, service and operation.

Practical implementation

Based on your general information regarding engine type, conditions and fuels, you will be presented the estimated costs, requirements and benefits of dual fuel conversion. After this has shown to be feasible, we can conduct site inspection for a detailed technical proposal, quotation and advise.

Dual fuel saves more

Hi-TEC universal Dual Fuel gas systems for diesel engines utilize the potential of LPG and CNG. to obtain a 20-70% lower Diesel consumption. And replacing Diesel with cheaper LPG or CNG is also the best method to save us from tons of harmful carbon dioxide, to improve our air quality. In doing so, we obtain maintenance-friendly, smoother running engines.

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_Diesel and gas mixture allows diesel fuel to be almost completely burned up, which results in reduction of emissions of harmful substances (CO2, NOX and solid particles)_.

_Above original test results from HAN University of Applied Sciences from the Netherlands_