

AN OPPORTUNITY FOR AUTOGAS

“More efficiency + Lower cost + Cleaner environment
= LPG Direct Injection engine”

DIRECT INJECTION ENGINE TECHNOLOGY



In a direct injection (DI) engine, the fuel is highly pressurized, and injected via a common rail fuel line directly into the combustion chamber of each cylinder



Shifting from port injection to direct injection engines is a growing trend in the automotive industry



The main reasons why direct injection engines were developed are to reduce tailpipe CO2 emissions from cars to fight against global warming, and to increase vehicles' fuel economy

10-20% improvement of fuel efficiency, which translates into a substantial reduction of CO2 emissions when compared to port injection (PI)



But petrol DI cars emit much more particles than petrol PI, which are classified by the World Health Organisation as harmful to human health



Petrol DI engines will therefore require particulate filters to meet Euro 6 emission standards. Such filters have a cost of about €150-€300 per car and require regular maintenance to effectively fulfil their function



LPG DI brings even higher fuel efficiency and lesser CO2 emissions than the equivalent petrol DI engine (10-15%)



Little to no particles emitted, therefore no need for filter



LPG direct injection systems are fully available on the market

LPG is an attractive option to reduce emissions at reasonable costs

ACTION



Car manufacturers to further invest to optimize LPG DI engines

Policy makers to recognize the potential of Autogas in association with the best engine technologies

ABOUT AUTOGAS



8 million vehicles in the EU



31,000 LPG refueling stations



Over 60 LPG models available from a dozen car brands



An environmentally friendly option for road transport