



ULEMCo's primary product is a globally unique hydrogen dual-fuel approach, H2ICED®.

This allows hydrogen to be mixed with diesel directly in a conventional engine, supplied via onboard gas tanks, in volumes that displace between 30-50% of the energy from diesel. This gives a direct tailpipe CO₂ emission savings based on the comparative use of zero carbon hydrogen instead of diesel.

- **Average displacement** for of HGV in urban cycle 20-40% giving direct CO₂ tailpipe emission savings
- **Addition of on-board hydrogen storage** - 350 Bar EC79 approved
- **Air inlet modified** to allow for the addition of hydrogen gas injectors
- **Customer bespoke** post conversion calibration
- **Hydrogen system engine control** (ECU) and safety systems
- **Specific calibration** to optimise hydrogen use in relation to duties, location, driver behaviour etc.
- **Driver and maintenance** team training
- **Duty cycle** optimisation
- **Supplied with** individual vehicle approval
- **Warranty** and maintenance support

SCAN QR CODE TO SEE MORE



Dual Fuel Technology

We don't change the base engine so both performance and operational reliability of a converted vehicle is assured; it will continue to run on diesel if no hydrogen is available and the engine calibration is set so that when using dual fuel, the driver doesn't notice a difference.

Back-to-Base Performance

The key to making renewable "green" hydrogen viable is to maximise volumes through the refuelling infrastructure; heavy-duty, back-to-base operations are ideally suited to scaled volumes for on-site generation and maximum carbon emission reductions.

Cost-effective Solution

By using existing engine technology, the cost of becoming hydrogen enabled is minimal in comparison to other low emission options, which provides a great first step into achieving substantial emission reduction, now, whilst other technologies are still in development or too expensive.

Multi-vehicle Applications

Our dual fuel technology can be applied to any engine, and any vehicle can be hydrogen enabled depending on the space on board for hydrogen storage. This means that whole fleets can be considered for conversion.

ULEMCo

ultra low emission mileage company limited

www.ulemco.com