

Driving green growth in the UK haulage industry

Business Incubator Scheme

G-Volution's duel fuel technology offers a unique and proven approach to help transport operators lower their fleet's running costs and carbon emissions. While G-Volution is currently focused on and has established a strong presence in the commercial haulage market the company is looking to the rail and maritime sectors for future expansion into new markets.

Green Growth key statistics

- G-Volution's patented OPTIMISER technology is proven to reduce carbon emissions from commercial vehicles
- The company has established a strong presence in the HGV market and is now considering expansion into new markets including maritime and rail haulage.
- The company was founded as part of the Carbon Trust business incubator programme in 2006 and has received broad industry recognition for innovation.

G-Volution's duel fuel technology reduces the amount of diesel used to run HGVs and other commercial vehicles by mixing it with cleaner and less expensive fuels.

By installing this technology businesses can save approximately 10-15% on fuel costs and reduce the carbon emissions from their exhausts by between 7-10%, with more carbon savings possible as cleaner fuels come on to the market. It can be easily fitted to a vehicles engine cylinder with no need for expensive engine modifications.

What differentiates G-Volution's product from the rest of the duel fuel market is its patented OPTIMISER technology. It enables an engine's management control system to be effectively mapped and managed to deliver a precise fuel mix. Today, the fuels usually mixed are Diesel and Liquid Propane Gas (LPG). However, as the fuel market further develops, and new even cleaner alternatives to LPG become more widely available, the G-Volution Optimiser will provide the ready and proven path to market for next generation fuels such as LNG, Bio-ethanol, Bio-butanol, Methanol and Hydrogen.

The technology was developed by a team of engineers at Cranfield University. Extensive testing shows that it can deliver a 30% reduction in diesel fuel consumption. G-Volution was established in 2006 as part of the Carbon Trust business incubator programme. Since then the Carbon Trust has helped G-Volution to secure investment and provided expert advice to help commercialise its product. In 2008 G-Volution's OPTIMISER was recognised as Winning Idea in Shell's Springboard competition.

“The Carbon Trust support of our business came at a very critical time for us. It enabled all our stakeholders to understand that we have a unique technology with real carbon reducing potential – and that as a business we had the potential to be world beating. It is hard to overstate the immense value of this to all of us: management team, shareholders, customers, both in terms of professional support and assistance in becoming investment ready, and in terms of the belief Carbon Trust helps to sustain – I see it as absolutely critical in its importance to our business then and now.”

Chris Smith,
Managing Director, G-Volution