Production & Supply of Bio-LNG for the Commercial Vehicle Sector
Gasrec is a producer and supplier of Bio-LNG used as a fuel for commercial vehicles and power generation.

Bio-LNG is cheaper than diesel in UK/EU; has the lowest emissions of any comparable biofuel and reduces the carbon intensity of vehicle fuel by more than 50%.

Gasrec's first production plant has been in operation since June 2008 and has a growing list of high profile customers including Tesco, J Sainsbury, Coca Cola, Waitrose, UPS, DHL & B&Q.

Gasrec can source fossil LNG from the National Grid or elsewhere to meet increasing demand for Bio-LNG from truck fleets while it develops more Liquid Bio-methane sources.

Gasrec has closed a multi-million pound investment to rollout Strategic Refuelling Sites to meet its customers demand.
Best Biofuel

Gasrec’s biomethane and Bio-LNG blends have lower NOx and particulate emissions than any other biofuel.

UK Government believes these toxic emissions contribute to 50,000 early deaths per year in the UK.

Bio-LNG is cheaper than diesel or any other commercially available biofuel (most of which are sold at a premium to diesel).

CO2 emissions are also market leading in Bio-LNG. Blends of up to 75% fossil content can be made and still be class leading.
Gasrec Technology & IPR

A Gasrec plant can clean, purify and liquefy landfill gas and other waste methane streams.

The process removes contaminants to produce biomethane which is ~96% methane and 4% nitrogen.

Gasrec owns IPR relating to the front-end clean-up technology and the overall process for separating and liquefying waste gas.

No other company outside the US has technology to clean, upgrade and liquefy biogas.

Gasrec has committed 8 years and £20m to technology development
The Gasrec Business Plan

Through the plan Gasrec will support the major adopters of liquid gas road fuel - HGV Logistics. The model needs to provide fuel security and availability.

As well as having supplies of Liquid Natural Gas (LNG), Gasrec will expand its unique capability to convert bio sources of liquid gas fuels through multi million pound investments in new facilities in the next three years.

The major adopters of Gasrec's offer want their fuel provider to deliver;

- **Access to regional refuelling Infrastructure**
  - Supporting their multi location logistics business

- **Resilience in the supply chain**
  - Replacing the unreliable and ineffective existing logistics and refuelling market offer
  - Continued access to bio product as a key enabler for decarbonisation of their operations
  - Ensuring strategic access to LNG as a driver for volume and resilience in the supply chain
85% of the UK Population can be reached within 4 hours of the refuelling network of sites
The Gasrec Business Plan – Current Status

The land rights in the 7 most important locations for the refuelling infrastructure have been secured.

A Planning Application has been submitted for the first site to be built which will be at Junction 18 of the M1.

Construction will begin July 2012 and the site will be operational November 2012.

Further planning applications will be submitted later this year.
Each site will be between 1 and 2 hectares
Each site will be well located on key distribution nodes with ready access to the main arterial road network
Strategic Capacity

Five Lanes
- Two Dispensers per Lane

Diesel Fill Experience
- Less than 10 minute fill
- “Smart Key” Service
- All Fuelling Under Cover
- Built for Growth
  - 30 - 40 vehicles per hour
  - 550 - 700 per day
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