

In it for the long haul LNG for logistics







Keep your bills and CO₂ emissions down but your tank topped up

With rising fuel costs and increasing focus on reducing emissions, the transport industry is under pressure to find alternative solutions to address these concerns.

For decades diesel has been the default option for vehicle fleets, and Heavy Goods Vehicles in particular. But with the advent of commercial vehicles powered by liquefied natural gas (LNG) all that is changing. Mainstream manufacturers including Iveco, Scania and Volvo now offer a choice of dedicated LNG-powered trucks that have comparable performance to diesel vehicles in terms of power, acceleration, and cruising speed.

Earlier this year, the EC unveiled draft legislation that would require LNG fuelling stations to be installed every 400 km (about 250 miles) on the roads that make up the trans-European core network by 2020. When approved, this infrastructure will support the predicted demand for gas-powered vehicles.

However, there are already almost thirty LNG refuelling stations strategically located around the UK, six of which are Calor sites¹. This nationwide network means transport planners and drivers need not worry about being stranded, regardless of whether they run a back-to-base or trunking operation. As the market grows Calor is looking to build upon this network by offering both public and private LNG refuelling stations across the country.

Looking further afield, in conjunction with our sister company PrimaLNG, we offer a pan-European network of LNG refuelling stations with sites currently in France, Belgium, Holland and Italy and more coming online.

LNG trucks are already in widespread use throughout the UK and mainland Europe. In fact, as the fastest-growing fossil fuel², natural gas-powered vehicles are predicted to account for 20% of HGVs sold by the early 2020s³.

Calor LNG UK refuelling stations





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² EIA International Energy Outlook 2016

³ Martin Flach - Iveco Product Director







Ready and waiting

Back-to-base refuelling

For larger operations that have space for bunkering fuel on site*, it may be viable for Calor to install an on-site refuelling station for businesses that operate ten or more LNG trucks.

Calor can offer a full turnkey solution from design to build and ongoing maintenance of the system.

The system deployed on a back-tobase site is part of an integrated solution from Calor whereby you get access to the network to support your gas fleet movements.

As part of the Calor solution, LNG stocks are remotely monitored by Calor and deliveries scheduled 24/7 by our National Operations Team based in Immingham.

Quick and easy refuelling

While drivers must wear Personal Protective Equipment (PPE) while taking on fuel that has been chilled to -260°F (-162°C), filling an LNG tank is otherwise as quick and easy as filling a diesel tank. LNG stations are designed in line with the latest international safety standards and include other parameters set by Calor's leading LNG design engineers who work closely with all vehicle manufacturers of gas vehicles.

All stations operated by Calor come with a fuel monitoring system that enables optimum deliveries of LNG or for refuelling data to be provided at the touch of a screen to an operator.

Analysis suggests that, on average, drivers of LNG trucks spend around 7 minutes at the fuel stop from entry to exit with the refuelling process itself taking about 4 minutes⁵.



Switch on to savings

Cost-effective – In 2017, LNG pricing was on average 30% cheaper than diesel, making the move to gas a cost-effective solution. A large contributory factor is fuel duty, currently £0.58 per litre for diesel, whereas LNG is currently at £0.18 per litre equivalent.

CO2 reductions – Predictions show that HGVs powered by LNG can reduce carbon dioxide emissions by between 10 and 20% dependent upon duty cycle and vehicle type. LNG also has significantly fewer health and safety risks than its oilbased counterpart, due to its nontoxic and non-corrosive qualities.

Opportunity to win new business contracts – by helping your customers achieve their sustainability goals.

Compliance with environmental legislation – As the latest generation of natural gaspowered vehicles is compliant with Euro VI emissions standards they automatically comply with Low Emission Zones (LEZ)

Calor offers a complete turnkey solution that makes it easy for you to switch. This encompasses design and installation, all maintenance (including replacement parts and labour), training, commissioning and an emergency callout service.

It all starts with an initial visit by one of our Transport Specialists who will review your current fleet requirements and fuel needs and advise whether you'd benefit from switching to a Calor LNG solution after taking account of your annual mileage, average fleet mpg, types of long haul routes and journey patterns.



^{*} Subject to site survey

⁵ Vos Logistics whitepaper



could be the right choice for your business.

For a free, no-obligation consultation with one of our transport experts: Call 0800 121 7816 Email contactcalor@calor.co.uk

