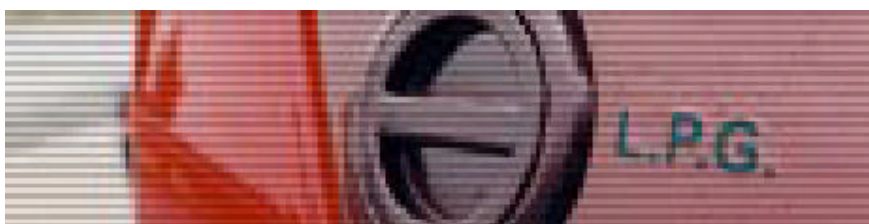


Essex Rivers Healthcare NHS Trust

Case Record



Location Essex, UK
Main Contractor Carillion Services
Client Essex Rivers Healthcare NHS Trust

Carillion has a facilities management contract to the Essex Rivers Healthcare NHS Trust.

Environmental Initiatives
Vehicles converted to run on LPG in partnership with the Energy Savings Trust.

Vehicle emissions reduction

Carillion Services provide transport as part of their contract to Essex Rivers NHS Trust. The existing fleet of nine diesel vehicles have been converted to run on liquid petroleum gas (LPG). This is thought to be both a cleaner and cheaper system.

The converted vehicles use more LPG than they would diesel, but are still more environmentally friendly as shown by the following figures:

- ♦ Carbon Monoxide emissions are around 80% less than petrol and 40% less than diesel.
- ♦ Hydrocarbon emissions are around 60% less than petrol and 50% less than diesel.
- ♦ Nitrous oxide emissions are around 80% less than petrol and 90% less than diesel.
- ♦ Particulates (PM10s) are non-existent in LPG.
- ♦ Carbon dioxide, which contributes to global warming, is lower in LPG.

There is no detriment to performance. It gives a vehicle that performs equally as well as it does on petrol. In fact the clean burning gives a quieter and smoother performance.

LPG is a third of the price of diesel. This means at Essex Carillion have saved £8,000 (net savings £5,000) a year on fuel costs. Part of the conversion cost was funded by a grant from the Energy Savings Trust, with the remaining leasing cost of the nine vehicles just £3,000 per year.

There are other financial incentives. LPG gives you fuel at around 38 pence per litre instead of 80-90 pence. Also, the UK government is firmly behind the incentive to switch to Liquid Petroleum Gas. In the 1998 budget, excise duty was raised on every fuel except LPG. There was a commitment to a 6% annual increase on road fuel duties, except LPG, which has seen no increase.

At Essex there is an LPG refuelling station conveniently installed on site. Carillion are also encouraging NHS Trust employees who have leased vehicles to choose LPG instead of conventional fuels. The advantages both environmental and economically are evident.