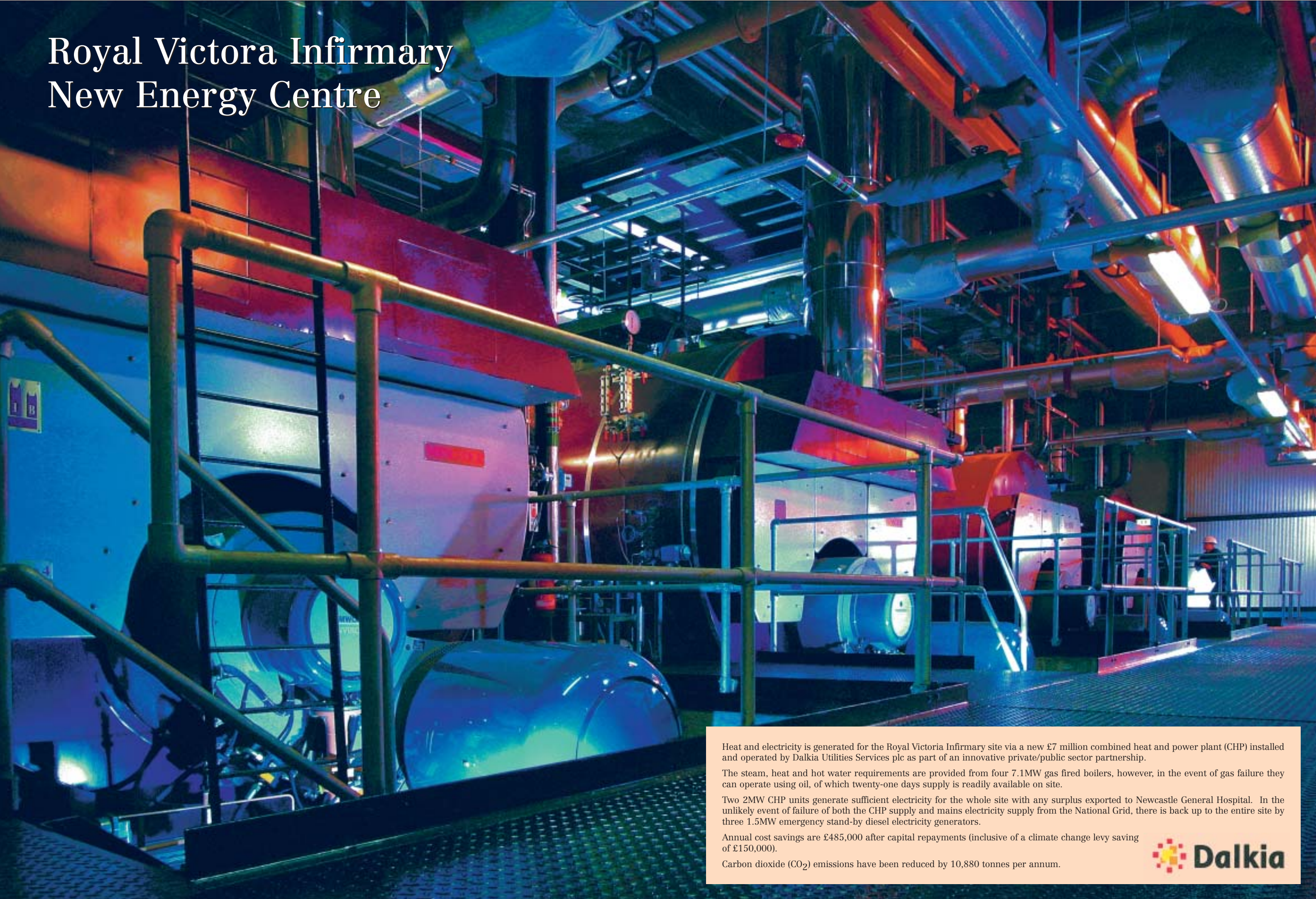


# Royal Victoria Infirmary New Energy Centre



Heat and electricity is generated for the Royal Victoria Infirmary site via a new £7 million combined heat and power plant (CHP) installed and operated by Dalkia Utilities Services plc as part of an innovative private/public sector partnership.

The steam, heat and hot water requirements are provided from four 7.1MW gas fired boilers, however, in the event of gas failure they can operate using oil, of which twenty-one days supply is readily available on site.

Two 2MW CHP units generate sufficient electricity for the whole site with any surplus exported to Newcastle General Hospital. In the unlikely event of failure of both the CHP supply and mains electricity supply from the National Grid, there is back up to the entire site by three 1.5MW emergency stand-by diesel electricity generators.

Annual cost savings are £485,000 after capital repayments (inclusive of a climate change levy saving of £150,000).

Carbon dioxide (CO<sub>2</sub>) emissions have been reduced by 10,880 tonnes per annum.

