



Hebburn Tri Station

One of the UK's first carbon neutral emergency service tri-stations.

**5No Ground
Source Heat
Pumps**

12No Boreholes

**1500L Skid
Mounted Domestic
Hot Water System**

The Project:

In September 2024, His Royal Highness The Duke of Edinburgh officially opened a new innovative emergency services tri station at Hebburn, South Tyneside.

The UK's first carbon-neutral tri-station – home to Tyne and Wear Fire and Rescue Service, Northumbria Police, and North East Ambulance Service – has set a new standard for sustainable emergency services infrastructure with 345 solar panels and Ground Source Heat Pumps providing the heating and hot water.



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Hebburn Tri Station is a groundbreaking facility, serving as the first carbon-neutral emergency services station in the UK. Home to fire, police, and ambulance services, the station sets a new standard for sustainability in public sector buildings. A core component of achieving carbon neutrality are the Ground Source Heat Pumps providing the efficient heating and hot water.

To meet the station's environmental and operational requirements, Ebtech, in partnership with Kensa Contracting installed a bespoke GSHP system. The design focused on extracting renewable energy from 12No boreholes to minimise carbon emissions and maximise efficiency. The installation process was carefully managed to align with the station's operational demands and construction schedule, ensuring a smooth transition to the new system.

The GSHP system has significantly contributed to the Hebburn Tri Station's carbon-neutral status by reducing reliance on fossil fuels. The station now benefits from a reliable and sustainable heating and hot water solution, offering long-term environmental and economic advantages.

Ebtech are proud to have played a key role in this landmark achievement & the success of this installation underscores the viability of ground source heat pumps as an integral component of the UK's transition to a low-carbon future

