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HEATING TECHNOLOGY

## HEATING SYSTEMS FOR TODAY AND THE FUTURE

# Carbon Reduction in Commercial Heating & DHW Systems

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**Strebel UK Ltd**

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# Can you reduce the carbon footprint in your building?

**Case Studies** –
Northamptonshire Leisure Centres
NHS Building Oxford

**Deep Dive Project Insight** - Cheshire South College, Crewe
Importance of Public & Private sector collaboration, client considerations, funding, design, installation and outcomes

The Additional Benefits of Decarbonisation

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## Northamptonshire Leisure Centres

Major retrofit of heating and DHW supply to x4 leisure centres across the county – Towcester, Daventry, Brackley & Moulton

4.5MW of Air Source Heat Pumps, providing heating and DHW to changing rooms.

X44 ASHP's in total along with thermal stores and calorifiers.


RIDGE salix

Briggs & Forrester
Special Projects

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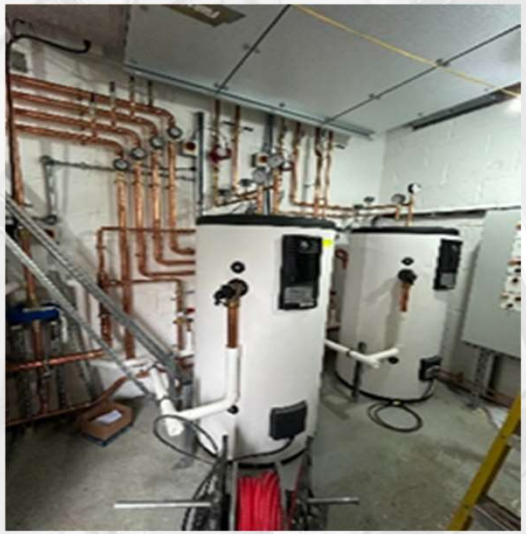
## NHS – Jordan Hill, Oxford

ASHP's providing DHW to a newly refurbished building.

The project involved a deep retrofit of the complete space, with upgrades to the entire facility.

x2 25Kw R290 ASHP
x2 500l Calorifiers



INSIDE out GROUP

CBG CONSULTANTS

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# Cheshire College South & West


## The Project –

Removal of existing 1.5MW gas fired system & installation of 1.5MW's of air source heat pumps & thermal stores

**Client** – Cheshire College South, Crewe
**Main Contractor & Design** – AA Projects (Drees and Sommer)
**Funding** – PSDS via Salix
**Detailed Design** – KGA Consultants
**Installation** – Senate Mechanical

aaprojects

KGA

salix

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## First things first

- Client requirements
- Required outcomes - decarbonisation and heating
- Funding options – source and application
- Product selection – identify system from published data
- Available power onsite – possible upgrade requirement?
- Positioning – identify useable space

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## Next steps

- Thermal stores and supply – correct capacity
- Pipe runs – detailed design
- Noise considerations – workspace and residential areas
- Test & commission – Identify snags & any parameter adjustments onsite and online before going “Live”
- Handover and ongoing servicing, maintenance and monitoring

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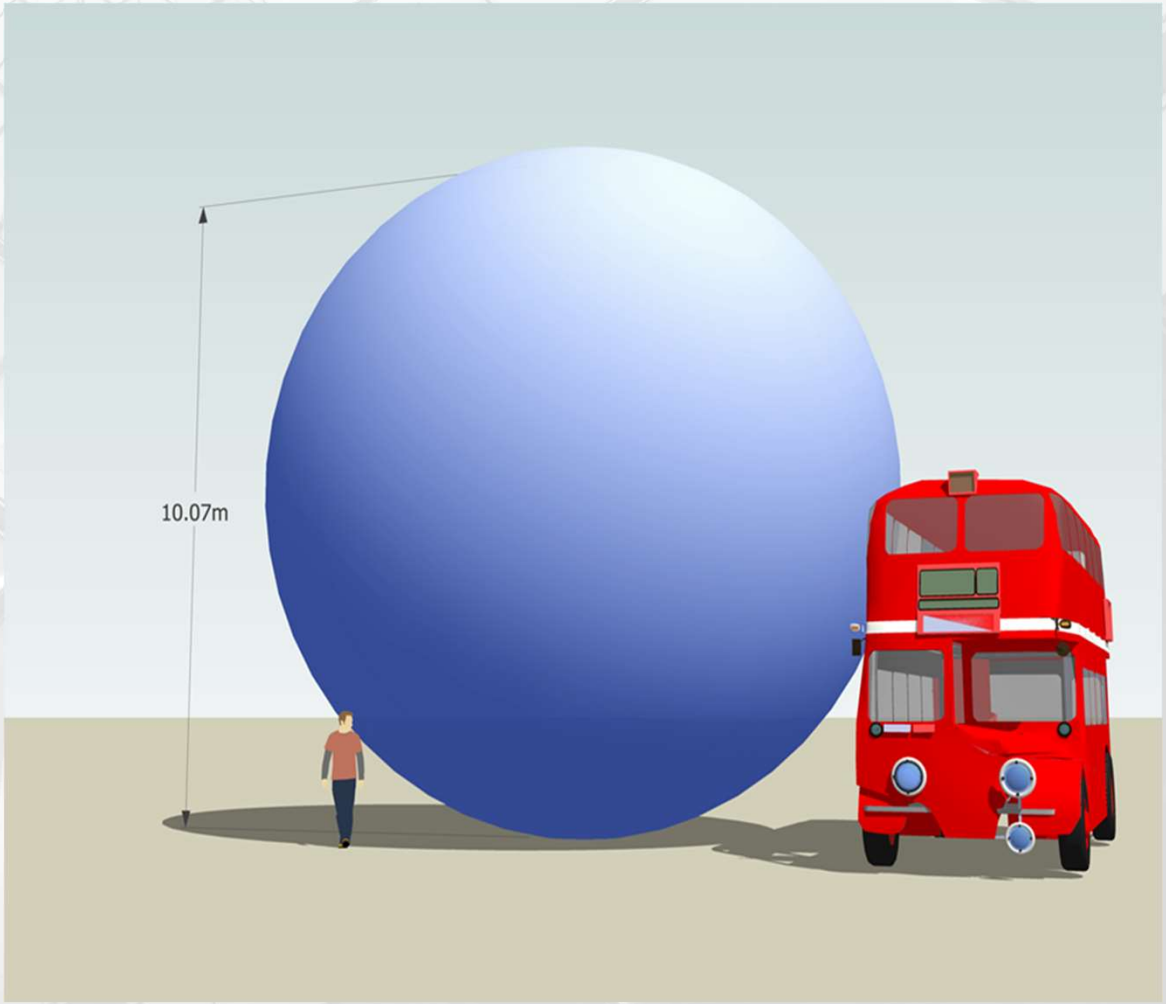
## Outcomes

- Hot water supplied at 65c
- Providing heat for entire campus

## *Carbon Reduction

- 721 tonnes per annum
- 11,000 tonnes over 15 years

*Estimated
Based on 80% boiler efficiency
SAP 10.2 calculations
182 Heating days



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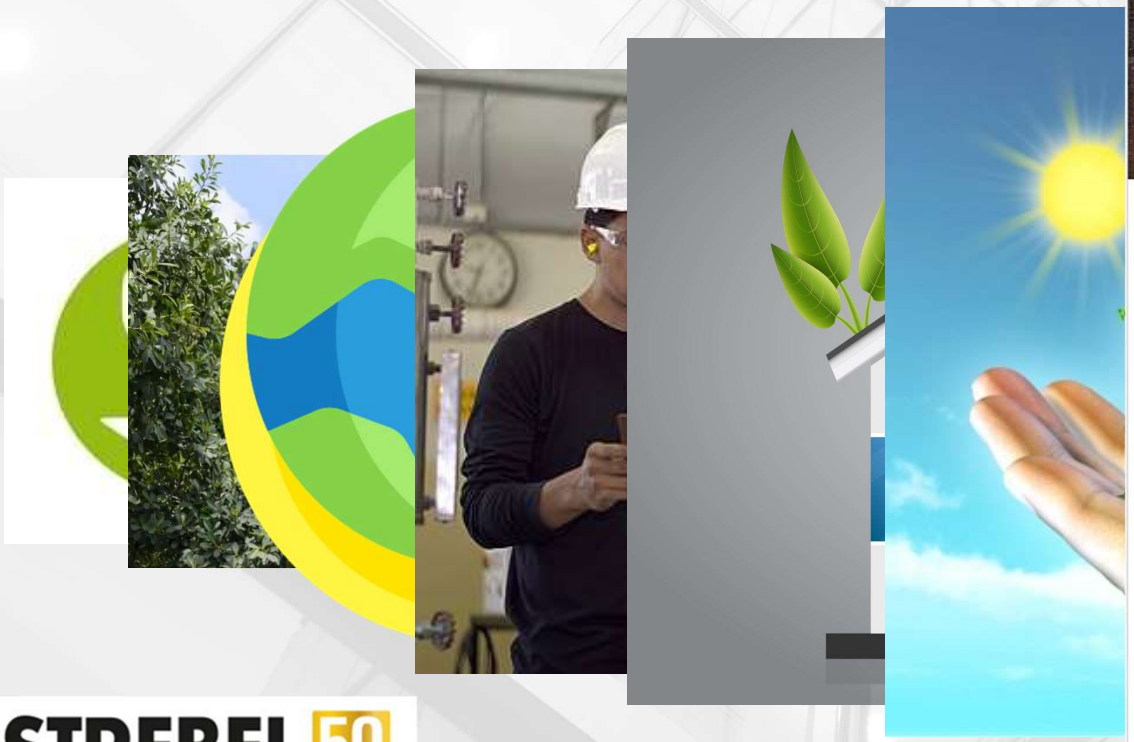
# The Additional Benefits of Decarbonisation

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