

Challenges:

As a mechanical and electrical services contractor, HE Barnes (HEB) has a huge involvement in the design of services which spark thought for renewable technology, responsible material sourcing, energy monitoring and metering. With the UK government's legal requirement for net-zero national greenhouse gas emissions by 2050, the built environment sector has a responsibility to change, and HE Barnes has already begun making



initial improvements:

Hybrid/electric company vehicles: HE Barnes began this initiative due to rising fuel costs and the government target for no further production of petrol/diesel vehicles by 2030.

Design, install, test and maintain sustainably and innovate renewable technology: HE Barnes has trained client/end users to ensure they have the knowledge required for efficient operation. Renewable technologies installed to date include:

- Air Source Heat Pumps (ASHP)
- Combined Heat and Power (CHP)
- District Heating
- Natural/Hybrid Ventilation
- Chilled Slabs - Thermally Activated Building Structures (TABS)
- Solar Thermal
- Solar PV

Implementing sustainable practices: Part L Design and BREEAM assessments across most projects promote the inclusion of considerate environmental practices: water-saving devices, leak detection, presence detectors for lighting, daylight dimming sensors, rainwater harvesting / greywater systems, pre-fabrication and modern methods of construction techniques.

Impact:

Staff training: HE Barnes aims to increase knowledge of sustainable and renewable technology. They have put this into practice by assessing current skill sets through the Supply Chain Sustainability School's assessments and identifying knowledge gaps with an action plan for improvement. HE Barnes has found the School

initial improvements:

Fact box



Company

H E Barnes Ltd

No of employees

85

HQ

Saville Street East, Sheffield

Website

<https://hebarnes.com/> &
<https://heb.net/>

Main contact

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Services

Design, Install, Test and
Maintain Mechanical &
Electrical Building Services

About

Founded in 1923, H E Barnes is a proud South Yorkshire-based Mechanical & Electrical Services Contractor. Completing MEP projects throughout the UK, including Facilities Management, to the highest standards of service and quality.



platform easy to use and navigate, and crucial for workforce development.

Award achievement: The application of resources provided by the Supply Chain Sustainability School has enhanced HEB's knowledge, and the company now holds a wide range of accolades, including ISO 9001, 14001 and 45001.

Sustainability awareness & goals: The School has created positive change within HE Barnes and helped raise awareness of sustainability and the actions to take. HEB is taking steps toward

reducing its carbon footprint in readiness for the government's 2050 target. The School's resources have been vital to addressing sustainability concerning social, environmental, and economic challenges in the ever-changing construction industry.

Value gained:

The value and benefits that HE Barnes has gained from the School are detailed in the following areas:

Increased reputation: HE Barnes has gained significant value from the School through raised company reputation and recognition as a School member. This has proved vital as membership of the School was requested on certain project tenders. Being a member of the School has resulted in HE Barnes securing future work and has increased their likelihood of winning tenders.

Increased staff knowledge: Staff having more extensive knowledge has improved how HE Barnes approaches sustainability issues and their factors.

Greater client satisfaction: Due to the invaluable resources provided through the School to improve company best practices for installing services, HE Barnes has reported greater client satisfaction.

Future proofing:

The initial use of the School was for HE Barnes's project managers and HSE manager. After reviewing the resources and the high quality of educational literature available, this has cascaded across roles within the company, including accounts, admin and commercial. The School platform has also been an excellent tool for apprentices to develop and increase their understanding of sustainability in the built environment.