

## Challenges:



A&B Engineering's in-house design department has experienced a surge in demand for sustainable and low carbon designs, in response to the UK government's goal of achieving net-zero greenhouse gas emissions by 2050. The company is committed to providing the

highest level of service through the expertise and dedication of its highly qualified engineers, with the assistance of the Supply Chain Sustainability School, and aims to remain at the forefront of the ever-changing industry.

A&B Engineering has gained extensive knowledge in renewable energy and has successfully designed and installed numerous schemes that incorporate sustainable technologies, including bio-mass boilers, air source heat pumps (ASHP), LED lighting, solar thermal, and rainwater harvesting.

As a Low Carbon Consultant, A&B Engineering leads the production of Thermal Models, SBEM calculations, and Energy Performance Certificates. The company is currently working on a net carbon office development in Salford, which is part of ECF's Salford Central Scheme. ECF envisions the project to be as sustainable, energy and carbon efficient as possible, increasing biodiversity and creating a positive impact on society. The building will be one of the first in the UK to have its operational performance verified using the NABERS UK scheme, targeting a 5.5-star rating, and is also set to achieve BREEAM Outstanding and WELL Platinum certifications.

The main sustainability challenges facing A&B Engineering include carbon management, responsible material sourcing, and waste reduction. With the assistance of the School, the company aims to contribute to sustainable construction and design solutions by implementing innovative practices. A&B Engineering has committed to collaborating fully with its stakeholders to develop and adopt best practices for sustainable development. The company specifies durable and economic materials that do not require significant amounts of energy during their production and prioritises the use of recycled materials whenever possible.

To promote effective and meaningful environmental procedures and best practices, A&B Engineering works in partnership with its suppliers and customers. The company also adopts sustainable drainage systems and encourages close liaison with SEPA, Water Authorities, and the local community.

## Impact:

A&B Engineering has gained significant benefits from its collaboration with the Supply Chain Sustainability School. The

## Fact box



### Company

A&B Engineering (Mechanical Service Division) Limited

### No of employees

200

### HQ

Old Swan, Liverpool

### Website

[www.abeng.co.uk](http://www.abeng.co.uk)

### Main contact

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### Services

Design and installation of all aspects of Mechanical, Electrical & Plumbing Services.

### About

A&B have been providing the design and installation of high quality, reliable, competitive and safe services throughout the Northwest for over fifty years. It has an enviable reputation throughout the industry for its work carried out in many different sectors including Airports, Commercial Premises, Residential, Education, Health, Stadia, Offices, Sport & Leisure.

knowledge acquired has enabled the company to implement various sustainability initiatives, including:

**Carbon reduction:** A&B Engineering is now registered as an Enterprise with the Low Carbon Eco-Innovatory, which is a partnership between LJMU, University of Liverpool, and Lancaster University, partially funded through the European Regional Development Fund and Northern Powerhouse.



**Electric cars:** Inspired by the School's Net Zero modules, A&B Engineering has invested in company Tesla Model 3 fully electric cars. This investment is expected to reduce the carbon footprint per mile driven, and as Tesla vehicles have the highest energy efficiency of any EV built to date, the company believes that it has invested in the right product.

**Sponsorships and community engagement:** A&B Engineering has increased its CSR by sponsoring Coach Hene Football Club, a community football coaching project aimed at making football affordable to all. The company also participated in a football tournament in support of MIND, to raise awareness and tackle mental health stigmas. Additionally, A&B helped with plumbing and electrical works when the Whitechapel Centre, which supports young people facing homelessness, needed a make-over.

**Waste Management:** With the help of e-learning modules on Waste Management, A&B Engineering has managed to increase its ability to recycle both site waste and office waste. The company also holds a Waste Carriers license for Upper Tier Waste Carriers.

**Improved knowledge:** The e-learning modules have been a valuable source of information for A&B Engineering, helping the company to improve its approach to sustainability. The modules are user-friendly, and staff can access them at any time, making it easier to fit them into their busy schedules. They have enhanced staff's knowledge in all aspects of sustainability and how to implement them in day-to-day working. This has been instrumental in helping the company complete e-learning modules for Vinci Construction, one of its valued clients, such as the module on Fairness and Inclusion.

**Up-to-date knowledge:** A&B Engineering uses the Action Plans and Assessments provided by the School to constantly refresh its knowledge and keep up with new legislation. The company recognises the importance of staying informed of the latest developments in sustainability and using this knowledge to remain at the forefront of the industry.

## Value gained:

**Enhanced reputation:** A&B is very proud to have achieved Silver membership with the School, and reaching Gold status will enhance A&B's reputation. With thanks to the School, the company can demonstrate its passion to learn more about sustainability.

**Competitive advantage:** The School has helped A&B with bid winning, providing a competitive edge to tenders. They now have access to more information about innovative and sustainable products and energy reduction measures.

**Winning new business:** A&B will be proud to advertise their new Gold status on their website and social media accounts. This will catch the eye of potential clients, who are looking for companies to work with that carry the same passion for sustainability.

## Future proofing:

As the Supply Chain Sustainability School has been an invaluable source of information, A&B Engineering intends to maintain its relationship with the School. This includes continuing to use the School's webinars and e-learning modules to expand its knowledge, support its growth and remain up to date with new trends and developments in the industry.

