

Case Study

Barnsley College





At Quantum, we believe the green transition starts in the classroom, by giving students the skills they need to lead the future of energy and construction.



The Client

Barnsley College

Barnsley College is a leading further education provider in South Yorkshire, delivering technical and vocational training aligned with regional and national workforce needs. With a strong focus on employability and industry collaboration, the college plays a key role in preparing learners for future-focused careers.

In response to the UK's net zero ambitions, Barnsley College has made a clear commitment to embedding sustainability, renewable energy and low-carbon technologies into its curriculum.

This commitment led to the development of the Clean Energy Training Centre — a first-of-its-kind facility designed to equip learners with the skills required for clean energy, retrofit and sustainable construction careers.



The Engagement

A purpose-built Clean Energy Training Centre.

To address growing demand for green skills, Barnsley College partnered with Quantum Training and leading industry manufacturers to create a purpose-built Clean Energy Training Centre.

The collaboration focused on delivering industry-aligned training environments that replicate real-world installations, supporting learners at all stages — from new entrants to experienced professionals retraining for low-carbon roles. The project demonstrates the power of collaboration between education and industry to deliver long-term impact.



The Impact

A flagship hub for Green Skills in quipping in South Yorkshire.

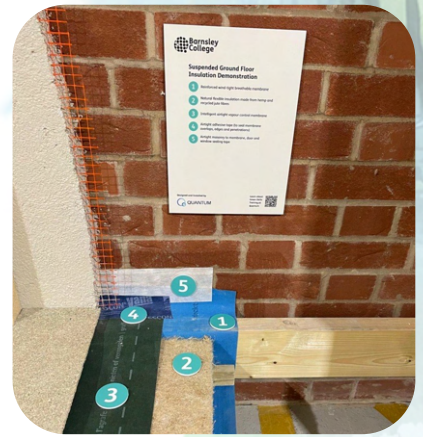
Since opening, the Clean Energy Training Centre has become one of the largest facilities of its kind in the UK and a flagship hub for green skills in South Yorkshire.

The new facilities support:

- Learners developing practical clean energy skills
- Apprentices & adults transitioning into green careers
- Employers seeking a workforce trained in modern low-carbon technologies
- Regional ambitions to support net zero and economic regeneration
- Training is delivered from Level 2 to Level 4, supporting both entry-level learners and workforce up-skilling.

View available courses at Barnsley:

<https://www.barnsley.ac.uk/green-skills>



Low Carbon Technologies Supplied & Installed

Quantum Training supported the design and delivery of specialist low-carbon training environments, enabling hands-on learning aligned with current industry standards.



The centre includes:

- 3x Air Source Heat Pump Bays
- 3x Ground Source Heat Pump bays
- 3x Electrical Eco System (Solar PV / Ev Charging / Battery Storage)
- 3x Solar Thermal Bays
- 1x Ventilation Bay featuring centralized and decentralized ventilation
- 1x Air Tightness Testing Bay
- 6x Wall & Floor Bays for Internal and External Wall; and Floor Insulation Training
- 2x Floor Mounted Pitched Roofs for Warm and Cold Roof Loft Insulation Training

By training on equipment used in industry, learners gain practical experience that directly translates into the workplace, helping employers access job-ready talent.

Client Testimonials

CEO Barnsley College

“Barnsley has always been a powerhouse of energy production – coal powered our communities for generations. This centre honours that legacy, by repositioning Barnsley and South Yorkshire at the heart of the UK’s clean energy future.”

Dan Jarvis – MP for Barnsley North

“The opening of Barnsley College’s Clean Energy Training Centre (CETC) is a truly remarkable achievement. The centre is practical, it’s forward-looking, and it’s rooted in our town’s tradition of hard graft and know-how. More specifically, it’s based in an excellent College, doing excellent work. Barnsley College isn’t just talking about change – it’s making it happen. The Clean Energy Training Centre is a testament to that. It nods to our town’s proud and important industrial past, but focuses squarely on our clean energy future.”

Jonathan Inglesfield – Head of Construction

“We recently worked with Quantum on CETC project at Barnsley College, and we couldn’t be more pleased with the outcome. From start to finish, their service was professional, responsive, and genuinely focused on delivering the best possible result for our space.

What really stood out was their flexibility and commitment to quality. They supplied additional items that weren’t originally included in the quote, recognising that they would better suit the layout and overall feel of the area. That level of care and attention made a significant difference to the finished environment. We would highly recommend them to others looking for a reliable and customer-focused partner in the retrofit and clean energy skills sector.”





Building the Green Workforce of Tomorrow

At Quantum, we are driven to address the UK's Green Skills shortage by providing world-class training solutions in low carbon technologies, sustainable building practices and retrofitting.



If your institution is ready to invest in building the UK's green workforce, we're ready to help.

