

Fleetsolve®

Southwest College

Erne Campus, Enniskillen

Case
Study

“Inspiring
the future of
education”*



The Brief;

To achieve a world class teaching & learning facility that was built to Passivhaus Premium and BREEAM outstanding standards





The Context

Erne Campus, part of Southwest College, opened in the 2021 academic year, with a mission to create a world-class teaching and learning facility for its 14,000 enrolments and 500 staff, whilst meeting the highest environmental standards for building design. To achieve this goal, Fleetsolve installed a micro combined heat and power (CHP) unit, 100% powered by low-carbon biofuel - generating 80% of the space heating and 100% of the domestic hot water requirement. Air-to-water heat pump technology meets the remaining 20% of space heating demand. Additionally, the campus features a 3,400m² solar photovoltaic roof, generating 520kwp during sunny periods, along with a 480 Kwh Battery storage system for short-term energy storage.

Outstanding Results

In addition to significant carbon savings across the renewable technologies, the successful integration and efficient management of the four technologies led to a remarkable 90% reduction in the heating costs for the first year alone. This integrated approach to customising solutions for the campus's needs earned it prestigious accolades, including UK Sustainability Project of the Year by the Royal Institute of Chartered Surveyors (RICS) and a BREEAM Award for best Design Stage Public Sector Project. It was also recognised as a "UN Centre of Excellence" for High-Performance Buildings during COP26, showcasing its dedication to sustainability and environmental excellence.



90% financial saving on heating costs



727 tonnes carbon saving (from all renewable technologies)



Passivhaus Trust
1st Passivhaus Premium commercial building in the UK

BREEAM®

BREEAM Outstanding award



Integration of 4 renewable technologies



nZEB accreditation achieved



232 tonnes carbon saving (from Fleetsolve biofuel CHP alone)



Royal Institute of Chartered Surveyors
"UK Project of the Year 2022"

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