

CASE STUDY

Award-winning Sustainable College Chooses Remeha Biomass Heating

PA@G Learning Centre, Coleg Meirion-Dwyfor

Installation: Remeha 120kW Wood Chip Biomass Boiler

PA@G (Pentref Addysg @ Glynllifon or Education Village @ Glynllifon), the £8 million eco-teaching centre at Glynllifon, Coleg Meirion-Dwyfor's land-based campus near Caernarfon, is scooping awards for its sustainable design and use of renewable energy technology. At the heart of the building, providing a warm and comfortable learning environment for the



students, is a low-carbon Remeha 120kW biomass boiler.

The new Learning Centre, which houses a range of land-based courses from animal care and equine studies to veterinary nursing and forestry and countryside management, represents the College's commitment to further developing the land-based facilities in the area, investing

in the rural economy and moving towards creating the first truly 'green' campus in the country.

In addition to the Remeha 120kW biomass boiler, the BREEAM 'Excellent' building adds structured insulated panels, cedar cladding, a green roof, solar panels, photo-voltaic panels, a rainwater harvester system and a passive ventilation system to its green credentials.

When it comes to heating, biomass systems using woodchips or pellets are an increasingly popular low carbon alternative, typically giving carbon reductions of up to 90 per cent compared with fossil-fuel alternatives. The PA@G Learning Centre is set in the Glynllifon Estate amongst 500 acres of woodland. Coleg Meirion-Dwyfor manufactures woodchips from its own timber to fuel the Remeha biomass boiler and ensure sustainable, low carbon heating.

“Our aim throughout has been to create the most environmentally-friendly, sustainable building possible,” commented Sam Faire, Estates Manager for Buildings, Operational and Projects at Grwp Llandrillo-Menai, the overseeing body for the three colleges of Llandrillo, Menia and Meirion-Dwyfor. “So it’s a satisfying achievement to be able to use our own natural resources to fuel the heating system.”

Certainly, for the College, using their own solid biomass for heating represents an economical, renewable solution, particularly at a time when fossil fuel prices are continuing to soar. The College is in the process of installing a heat meter ahead of applying for RHI accreditation. “Once RHI payments kick in, we anticipate that payback times on the biomass boiler will fall even faster,” added Sam Faire.

A fossil fuel system is often specified alongside the biomass boiler to manage peak demands. At PA@G, the Remeha biomass boiler is backed up by two low NOx Remeha Quinta Pro condensing boilers in a ‘green’ heating system that guarantees energy efficient heat delivery at all times.

The Remeha range of biomass boilers are designed for exceptional durability and reliability. Automatic de-ashing and automatic heat exchanger cleaning facilities speed up operation time. Features such as automatic error messages via email, remote monitoring via the internet and graph records of all the heating parameters accessible on the internal memory simplify the monitoring process. With new touch screen controls and flexible control via computer, tablet or smart phone, Remeha biomass boilers are now even easier to operate and monitor.

With over 500 biomass heating systems installed in the UK to date, Remeha Commercial is well versed in all aspects of supplying biomass boilers, often in conjunction with our eco-friendly, low NOx commercial gas boiler ranges, to deliver maximum efficiency, low carbon heating into schools and colleges, new and old.

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