



## Transforming the housing landscape in North Wales

**C**reating Enterprise is making significant strides in its mission to promote sustainable housing in North Wales through its Modular Solutions factory in Rhyl. This collaboration with Beattie Passive is revolutionising the construction of Passivhaus modular homes across the region, harnessing the innovative building materials and techniques. These cutting-edge materials and construction methods create homes that are incredibly efficient and airtight, demanding a mere 80% of the heating energy required by traditional houses. This not only addresses environmental concerns but also combats the escalating energy costs that homeowners often face.

One of the standout features of Passivhaus designs is their flexibility, accommodating a wide array of styles and sizes. They can be tailor-made to fit individual preferences and cater to regional requirements, ensuring that they align perfectly with the needs of the communities they serve. Furthermore, Passivhaus homes prioritise safety, offering superior protection against sound, fire, floods, and even Radon gas, all of which contribute to a secure and comfortable living environment.

Perhaps the most compelling aspect of Passivhaus homes is their unwavering commitment to sustainability. They are designed to achieve a potential 100% reduction in CO2 emissions, employing sustainable materials and a low carbon footprint during the construction process. This aligns

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seamlessly with the global effort to combat climate change and reduce greenhouse gas emissions.

In addition to their environmental benefits, Passivhaus construction leverages readily available materials, and the timber frames are meticulously assembled at the factory in Rhyl. This innovative approach not only ensures efficiency but also significantly reduces the overall carbon footprint. Notably, this method is already in use at the Ty Nos homelessness development in Wrexham, where 20 one-bedroom apartments are being constructed to address homelessness in the area.

The future looks promising for this partnership, as it will play a pivotal role in constructing homes for a substantial 128-property EPC A rated eco-development in Pensarn, Abergele. Beyond the provision of energy-efficient homes, this initiative will



contribute significantly to the region's social value by creating apprenticeships and traineeships, thus enhancing the local workforce and community engagement.

The Creating Enterprise Modular Solutions factory represents a significant leap forward in fostering a more sustainable future for North Wales. These Passivhaus homes, with their energy efficiency, adaptability, and unwavering environmental consciousness, are poised to transform the housing landscape in North Wales, serving both the community and the planet.

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