

Liverpool City Region: The UK's Renewable Energy Coast with the power to deliver Net Zero by 2040

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The Liverpool City Region has long been a pioneering location, reacting to global challenges and opportunities. It established the world's first commercial wet dock in 1715, and in 1898 founded Liverpool School of Tropical Medicine (LSTM), the first institution in the world dedicated to research and teaching in the field of tropical medicine – massively influencing global trade and global health.

When it comes to climate change, the City Region, led by the Mayor of Liverpool City Region Steve Rotherham, became the first in the UK to declare a climate change emergency back in 2019 and collectively committed to reaching Net Zero Carbon by 2040 - a decade ahead of the national target. And it is ideally situated to achieve this, harnessing the unique natural resources of its UK west-facing port location, together with an entrepreneurial spirit that innovates and reinvents to create a way forward to tackle the challenge.

There is a £3bn+ pipeline of investment-ready innovation projects

to foster growth and investment across key growth sectors that are centred around co-creating new approaches, expanding successful innovation programmes, delivering transformational R&D projects, and radically increasing innovation impacts.

With the implementation of a targeted investment programme in major capital investments and R&D, the City Region has become the UK's renewable energy coast, building on existing strengths and natural assets. Offshore wind in Liverpool Bay has already helped to make the UK the largest producer of wind power in Europe, and production is set to triple by 2032 with expansion into two new fields.

The tidal range of the River Mersey and Liverpool Bay has given the Liverpool City Region the opportunity to create the Mersey Tidal Power Project. This low-carbon electricity generation project could create 5000 jobs, while producing enough energy to power a million homes. And it will be able to create clean, green, predictable power for more than a hundred years. The Liverpool City Region has a number of projects and assets to help reach Net Zero Carbon by 2040, which are:

HyNet North West has committed a £72m investment in the Liverpool City Region towards transforming the region into one of the world's first low carbon industrial clusters. The HyNet

KEY FACTS

The largest concentration of off-shore wind farms in the UK, installed, maintained and managed from the City Region

Major expansion into 2 new offshore fields for installation in the next 5 years, providing a further 3 GW of energy

The UK's most advanced Tidal Energy Scheme with the potential to deliver clean, predictable energy for the next 125 years.

HyNet North West will produce hydrogen to replace fossil fuels in transport, industry and homes while also capturing and storing carbon dioxide produced by energy-intensive industry

One of just two carbon capture, usage and storage schemes nationally to be selected for further development by government

Glass Futures aligns global industry with world leading academics to eliminate CO2 from glass production in St Helens. **A globally unique open-access R&D facility**, it will bridge the gap between research and full commercial implementation of sustainable glass manufacturing

LCR's Hydrogen Economy Programme placing the region at the forefront of global hydrogen applications in transport and power

The National Packaging Innovation Centre plans to double the current UK global sustainable packaging market by 2030

programme is one of just two carbon capture, usage and storage schemes nationally to be selected for further development by government and will produce hydrogen to replace fossil fuels in transport, industry and homes, while also capturing and storing carbon dioxide produced by energy-intensive industry. The far-reaching project includes a world first trial with international glass manufacturer NSG Pilkington to produce float (sheet) glass using hydrogen at its St Helen's plant in the Liverpool City Region.

Glass Futures is bringing together global players with world leading academic minds to eliminate CO2 from glass production via a new cluster in St Helens. A globally unique open-access R&D facility, it will bridge the Technology Readiness Level (TRL) gap between research activity and full commercial implementation of the sustainable manufacture of glass. Glass Futures is a not-for-profit, Research Technology Organisation (RTO) funded by its members which includes the world's biggest names in glass and technology, including Diageo, NSG Pilkington and Siemens. In addition **Glass Futures2**, is focused on Medical Glass Manufacturing Innovation and is already near full funding.

The National Packaging Innovation Centre aims to double the current UK global sustainable packaging market by 2030, developing an industry-led approach to eradicate single-use plastic from the market.

The Manufacturing Technology Centre Modern Methods of Construction programme is supporting the Government's ambition to drive higher design and production quality for housing by accelerating the uptake of digital and manufacturing-led construction. Already working with six Registered Social Landlords (RSLs), the programme will develop cutting edge technology to retro-fit existing homes and build new homes using new, state-of-the-art, methods of construction. It is being developed in a collaboration between the Liverpool City Region Combined Authority, the Manufacturing Technology Centre, the Construction Innovation Hub, Torus Group, Peel Land and Property, housing associations, and industry partners.

For potential investors looking to set-up home in the Liverpool City Region, they will be future proofing their expansion plans in a City Region striving to be one of the most environmentally progressive in the world, where major investments are focused on creating sustainable industries and delivering rapid digital connectivity, creating long-term competitive advantage for investors.

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