

Study Area for tidal range



The Mersey Tidal Power Project is in early stage development with a considered timeline for achieving operations in 2030.

At a scale of at least 1 Giga-watt, it offers a significant new tidal generating asset that can be realistically deployed to harness the abundant marine power in the Liverpool City Region.



Delivering sustainable, low carbon energy from our local tidal range resource.

Contact:

Tidal Power Project Team
No.1 Mann Island,
Liverpool
L3 1BP

Telephone: 0151 330 1467

merseytidal@liverpoolcityregion-ca.gov.uk

March 2022



Delivering predictable, long term, low carbon energy to the North West as part of UK Net Zero.

IT'S TIME FOR TIDAL



METROMAYOR
LIVERPOOL CITY REGION

Why Tidal Power Energy?

Tidal Range technology extracts energy from the difference in water height between tides, using the twice daily flood and ebb (in and out), and has a **predictable pattern** and profile of generation.

UK tidal range resource is internationally significant at **5-15% of estimated global tidal range generation** and therefore presents an exciting and dynamic opportunity for the UK to be an integral contributor and leader in the sector.

Tidal range will add to the UK renewable capacity providing additional source of generation on top of the wind generation assets already planned. A mix of different types of assets are important to provide diversity, security and resilience of our energy system. Tidal can complement wind and hydrogen and provide much needed power every night to charge Electric Vehicles (EV).

Why Mersey Tidal?

The **large scale, low carbon generation** project providing 2 TWh of annual generation has the potential to be the largest embedded generation project in the North West, providing **30% of regional demand** at a time when other large assets are retiring.

Our focus has been on how to match the energy demand growth for Liverpool City Region with new green generation. We want to lever our internationally renowned strengths in **Maritime, science** and **manufacturing** to assist, inform and provide expert opinion to lead deployment **in the marine energy sector**.

The creation of a tidal range project in the Liverpool City Region fits perfectly with our **industrial strategy, green growth, skills and employment agenda**.

Clean Growth



Time for Tidal – A large renewable energy project that will, of at least 1 Giga-watt scale, be the First of a Kind (FOAK) project for tidal range in the UK.



Build Back Better – A post covid-19 opportunity to build low carbon assets that will last for over 100 years and help fight climate change.



Marine & Maritime – Using our maritime heritage and creating a tidal range innovation hub on the Mersey is vitally important to our economy.



Clean Growth – Investment in clean assets and green sector employment, that can provide training opportunities for our school leavers and apprentices.

Levelling Up the Economy



Transformative Projects – A major publicly led, intervention that has the scale to kick start, add pace and 'lock-in' Net-Zero deployments.



Inclusive Economy – Mersey Tidal Power has the potential to create around 5,000 jobs, as part of the wider region green employment growth plan.



Urban, Industrial and Coastal – Liverpool City Region is a unique port city, where green energy supply will be vital to satisfy future urban and industrial energy demand.

A decade of effort for a century of gain

After more than 30 years of thinking and studies, we are now set to commit to a decade of development and deployment effort to create an asset that will be around for over 100 years.

