



**Press release
October 2019**

HOUSE OF LORDS URGED TO RECOGNISE BRITISH WASTE PLASTIC TO HYDROGEN TECHNOLOGY

Lord St John of Bletso raises the importance of British waste plastic to energy technology and planned Plastic Parks

The importance of Waste2Tricity's pioneering DMG® (Distributed Modular Generation) technology has been raised in the House of Lords, with Lord St John of Bletso urging the House to recognise this "revolutionary new British technology".

The technology is being developed by Waste2Tricity, the exclusive developer in the U.K and South East Asia for the Powerhouse Energy (AIM:PHE) DMG plastic waste to electricity and hydrogen process.

During Wednesday's debate on recycling plastic in England, Lord St John also mentioned the planned Plastic Parks which would use this new technology saying, "is he [Lord Kimble] aware of the initiative to introduce plastic parks which will be using revolutionary new British technology to convert unrecyclable plastics into hydrogen as a fuel source as well as electricity generation?".

Waste2Tricity are in collaboration with Peel Environmental, part of Peel L&P, who has submitted plans for the UK's first waste plastic to hydrogen facility at its 54-hectare Protos site near Ellesmere Port in Cheshire. This £7m plant will use 'UK first' advanced thermal treatment technology developed by PowerHouse Energy Group (AIM:PHE) at Thornton Science Park, next door to Protos. The pioneering DMG® (Distributed Modular Generation) technology could transform the way plastics are dealt with in the region. The plant will take up to 35 tonnes of unrecyclable plastics a day and create a local source of hydrogen which could be used to power road vehicles. Plastic will be diverted from landfill and instead used to create energy. Earlier this year Peel Environmental, part of Peel L&P, signed a £130m deal with Waste2Tricity and PowerHouse Energy to develop a total of 11 waste plastic to hydrogen developments across the UK.

In response to Lord St John's question, Lord Gardiner of Kimble, The Parliamentary Under-Secretary of State for Environment, Food and Rural Affairs said "the noble Lord refers to what I think is really important work that we need to proceed as well which is on research as to how do we move from a wasteful economy to one that is circular and I absolutely would endorse that we need to be working on research more."

W2T's vision is to take the world's problem with unrecyclable plastic and turn it into a solution; aiming to 'turn off the plastic tap into the ocean' to ultimately clean it up.

This process has a very low carbon footprint, meaning whilst cleaning up the world of plastic, it can produce clean energy – solving two of the world's problems.

-ENDS-

MORE:

W2T was established in 2008 and is a project developer and operator in the energy-from-plastic sector. In treating plastic as a fuel they aim to limit contamination of the environment whilst creating a clean energy in the form of low cost and low carbon hydrogen as well as generating power for export by private wire or to the grid.

W2T has the exclusive right to use innovative technology that turns waste plastic into hydrogen, which can be used for transport fuel. The process takes all mixed waste plastic in an untreated unsorted contaminated form and requires no sorting or washing. This ground-breaking technology has the potential to not only create a green fuel but to clean up plastic from the world's oceans. This technology has also exclusively demonstrated small scale conversion of plastic to hydrogen and electricity with zero plastic remaining.

W2T are the exclusive developer in U.K. and South East Asia including Japan and South Korea for the Powerhouse PLC DMG (distributes modular generation) for waste plastic to hydrogen and electricity. W2T aim to monetise plastic via this highly efficient conversion system and enabling the deployed projects to buy in unrecyclable plastic waste in countries, such as Indonesia for \$50 a ton. Therefore, dissuading the disposal of waste plastic in rivers and oceans.

The technology has been developed by Powerhouse Energy PLC (AIM:PHE) DMG® over several years at the University of Chester Energy Centre and W2T is the exclusive developer in the U.K. The company's first-of-a-kind plastics to hydrogen plant in the UK is proposed at Peel Environmental's, part of Peel L&P, 54-hectares Protos site near Ellesmere Port in Cheshire.

W2T is currently in discussions with significant financial institutions and high net worth private individuals to fund the First of a Kind plant at Protos which will be invested in the Special Purpose Vehicle Waste2Tricity (Protos) Ltd and this process is proceeding. W2T is raising up to £1 million pre-IPO with the aim of being a public company during 2020. The next stage of development will focus on switching the technology to allow it to produce hydrogen for use in a distributed hydrogen network as well as syngas production for generating electricity.

The Engineering, Procurement and Construction (EPC) is continuing negotiations and a planning application for the development of the plant at Ellesmere Port is expected shortly. Subject to planning approval the plant hopes to be operational early next year.

The Company will keep the market apprised of any future developments relating to the agreement between PowerHouse and Waste2Tricity.

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NOTES TO EDITORS:

About Waste2Tricity

Established in 2008, Waste2Tricity (W2T) has a vision to take our problem with plastic and create a solution. W2T is a project developer and operator in the energy-from-waste sector. In treating plastic as a fuel they believe that they can help limit contamination of our environment whilst creating a clean energy in the form of hydrogen.

Partnering with PowerHouse Energy (AIM PHE), W2T are the exclusive developer in U.K. and South East Asia including Japan and South Korea for the Powerhouse PLC DMG (distributes modular generation) for Waste plastic to hydrogen and electricity. This technology is able to convert unrecyclable plastic into high-grade hydrogen for use as a transport fuel whilst also generating power for export by private wire or to the grid.

Waste2Tricity are currently working with EY London to raise funds. View information about Waste2Tricity's £1,000,000 fund raise here : www.waste2tricity.com

About Powerhouse Energy

PowerHouse Energy has developed a proprietary process technology - DMG® - which can utilise waste plastic, end-of-life-tyres, and other waste streams to efficiently and economically convert them into syngas from which valuable products such as chemical precursors, hydrogen, electricity and other industrial products may be derived. The PowerHouse technology is one of the world's first proven, modular, hydrogen from waste (HfW) process.

The PowerHouse DMG® process can generate in excess of 1 tonne of road-fuel quality H2, and more than 58MW/h of exportable electricity per day. The PowerHouse process produces low levels of safe residues and requires a small operating footprint, making it suitable for deployment at enterprise and community level.

PowerHouse is quoted on the London Stock Exchange's AIM Market under the ticker: PHE and is incorporated in the United Kingdom.

www.powerhouseenergy.net

About Peel Environmental and Protos

Peel Environmental owns and develops waste infrastructure projects. It has achieved consent for a range of energy infrastructure schemes including a 49MW Energy from Waste plant at Protos in Cheshire, 21MW Energy from Waste plant and 250,000tpa AD and MRF in Glasgow; and a 20MW Energy Centre at Houghton Main, Barnsley. Peel works with investors, waste management companies, technology providers and contractors to secure a deliverable business model for each project.

www.peelenvironmental.co.uk

Peel Environmental brought forward and consented the Protos development, previously known as Ince Resource Recovery Park. The 54ha (134 acres) development site has full outline planning consent and part detailed planning consent for general manufacturing and distribution uses (B1, B2 & B8), as well as a biomass facility and an Energy from Waste facility.

www.protos.co.uk [@ThisIsProtos](#)

Protos sits within the Energy Innovation District (EID) which brings together energy users, network owners, innovators and partners working alongside Cheshire & Warrington LEP, Cheshire West and Chester Council and the University of Chester. With the objective of driving down the cost of clean energy the EID is an opportunity to deliver a new decarbonised energy system for the North West of

England, meeting the Government's Clean Growth agenda while boosting economic growth and investment.

www.energyinnovationdistrict.com

About Peel L&P – realising possibility.

We are an ambitious regeneration business with generations of history, heritage and expertise in our DNA. First established in 1971, Peel L&P is now responsible for some of the most transformational development projects in the UK today.

Owning and managing 12 million sq ft of property and 20,000 acres of land and water, our holdings are concentrated in the north west of England but we also own and manage significant assets throughout the UK with a total portfolio value of £2.6 billion.

As a part of the Peel Group; we are integral to a business that strives to make a positive impact on people's lives. Our legacy matters. We take great pride in the outcomes we achieve, the people we work with, the way we go about our business and the transformational projects we deliver.

Our specialist teams have a proven track record in delivering high-quality, legacy projects across land, property, water and airspace. This includes airports, hotels, waterways, media hubs, event spaces, leisure facilities, retail, workspaces, residential development, industrial & logistical space, public realm, historic gardens and the renewable energy sector.

Peel L&P is an agile and ambitious business with a legacy of success for a long-term, sustainable future. We see possibility. We deliver transformation.

More information at www.peellandp.co.uk or follow @PeelLandP on Twitter.