



## **PRESS RELEASE**

### **WASTE2TRICITY AND POWERHOUSE AGREEMENT WILL ACCELERATE UK'S FIRST PLASTIC PARKS**

Waste2Tricity (W2T) has signed a further agreement on the 8<sup>th</sup> February, which will see the acceleration of the UK's first plastic parks. Prior to the acquisition of W2T by PowerHouse Energy Group PLC (PHE), this agreement allows the third party to the agreement, Peel ENvironmental, to progress immediately with confirming funding for the initial five DMG sites in the UK.

Waste2Tricity, PowerHouse Energy and Peel Environmental – part of Peel L&P – signed a Collaboration Agreement at the end of last year, under which 11 waste plastic to hydrogen facilities – representing an investment of more than £150 million – will be developed across the UK.

A Planning Application has been submitted for the first facility, at Peel Environmental's 54-hectare Protos site near Ellesmere Port in Cheshire. The facility will see the first commercial deployment of the DMG<sup>®</sup> (Distributed Modular Gasification) technology and hopes to be in commissioning by the end of 2020.

This further agreement sees W2T surrender its UK exclusivity of the technology and joint development rights for these sites to PHE and in return receive 40% of the annual £500,000 licence fees (less costs of supporting the licence) paid by Peel. This amounts to at least £176,000 per site. W2T rights under the Cooperation Agreement are unaffected and will pass to PHE on completion of the acquisition.

This variation of the agreement is as an interim agreement pending the acquisition by PHE of the whole share capital of W2T - the final 6 systems in the co-operation agreement are unaffected by this variation- this agreement enables Peel to accelerate the program significantly and it is anticipated that Peel will build out this second tranche in 2021.



The process of acquisition of W2T by PHE, as announced on 22<sup>nd</sup> December, is progressing and Waste2tricity shareholders will be sent in due course information explaining the proposal and confirming that they will exchange their W2T shares for PHE shares, with those shares representing 40% of the fully diluted shares of the enlarged entity.

### **Pioneering technology**

Using a 'UK first' advanced thermal treatment technology the network of facilities could transform the way waste plastics are dealt with nationally. The pioneering DMG<sup>®</sup> (Distributed Modular Generation ) technology has been developed by Powerhouse Energy at the University of Chester's Thornton Science Park and produces a local source of hydrogen, starting with unrecyclable plastics. This clean and low-cost hydrogen could be used to power buses and Heavy Goods Vehicles (HGVs), before being rolled out to hydrogen cars, helping to reduce air pollution and improve air quality on our roads.

Helping to tackle another significant environmental problem, the technology also provides a solution to plastics that cannot be reused or recycled and that would otherwise end up in landfill. With almost 1.2 million tonnes of waste plastics going to landfill every year, local authorities across the country are looking for alternative treatment technologies. Of course plastic waste is not just a problem for the UK and this presents the combined businesses with enormous potential across Europe, America and especially the Far East.

**John Hall, Managing Director of Waste2Tricity said:** "This further agreement will see the innovative technology accelerated by Peel's Plastic Parks. We welcome this agreement and are excited to see the technology developed across the UK. This acquisition means the combined business can focus on the worldwide marketing of this revolutionary technology and we believe there is potential for several 1000's of systems producing electricity in South East Asia and Japan alone, where Waste2tricity has been in active discussions for the last two years through our branch office in Tokyo and subsidiary W2T Thailand. Importantly DMG offers a solution to



cleaning up the world's oceans of unrecyclable plastic. By monetising scrap plastic DMG can divert plastic for destruction rather than ending up in rivers, as well as processing recovered ocean plastic. Poorly disposed of plastic is one of the world's great challenges and a number of major international companies can already see how DMG can offer an opportunity to reverse the plastic problem, both on land and in the Ocean."

Tim Yeo, Chairman of Waste2Tricity comments: "I am pleased to see the momentum continuing as the details of the acquisition are being finalised. Peel's Plastic Parks and the PHE exclusive technology will be vital to help the UK tackle its unrecyclable waste plastic problem, so the acceleration of this activity is very much welcomed."

#### **Notes to Editors**

##### **About Waste2Tricity**

Established in 2008, Waste2Tricity (W2T) is a project developer and operator in the energy-from-waste sector. Its mission is to treat plastic waste as a fuel, preventing further contamination of the world's oceans and environment whilst at the same time creating clean energy and hydrogen.

W2T has an exclusive geographic license with PowerHouse Energy (AIM PHE), an AIM listed business that has developed a Distributed Modular Gasification system that 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.

The Protos development is W2T's first commercial project, with the company looking at a pipeline of future projects across the UK. 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.

[www.waste2tricity.com](http://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.



**POWERHOUSE**  
ENERGYGROUP

The PowerHouse DMG® process can generate in excess of 2 tonnes of road-fuel quality H<sub>2</sub>, 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](http://www.powerhouseenergy.net)

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