



Press release

July 2019

WASTE2TRICITY RECEIVES ENDORSEMENT FROM JAPANESE GOVERNMENT IN SUPPORT OF TECHNOLOGY

METI TO EXTEND SUPPORT FOR DMG PROJECT IN JAPAN

METI 'VIEW TECHNOLOGY AS MAJOR COMPETITOR WITHIN THE LOW-COST PRODUCTION OF HYDROGEN'

Waste2Tricity, the exclusive developer in Japan for the Powerhouse Energy (AIM:PHE) DMG plastic waste to electricity and hydrogen process, has been in talks with the Japanese Ministry of Economy Trade and Industry (METI) over a long period and can today announce that METI has formally endorsed the DMG technology as a major component of their distributed hydrogen strategy in Japan.

METI are responsible for the development of a hydrogen strategy in Japan who regulate the industry and provide subsidy towards achieving low-cost hydrogen road fuel.

In a letter addressed to PowerHouse Energy and Waste2tricity dated the 8th July, METI state that they are supportive of the technology and view it as a 'major competitor within the low-cost production of hydrogen.'

The Ministry for Economy, Trade and Industry has specifically written to say:

"We have been invested in the development of a Road Map for Hydrogen Infrastructure for Japan since 2014. Our belief is that hydrogen energy is the true key to opening the door of a new energy source and we aim to create a market where hydrogen energy is a self-sustaining business. On that note, we would like to congratulate you on the development of your Distributed Modular Gasification project, we would like to extend our support and acknowledgement of the technology. Based on the concept and its many environmental advantages, we view it as a major competitor within the low-cost production of hydrogen and of incredible value to the promotion of energy transition and decarbonisation process around the world. We look forward to seeing the adaptation of DMG plants around Japan and the rest of the world."

JAPAN'S MINISTRY LEADING THE WAY

As the host of the G20 2019 meetings, METI are "exhibiting leadership" in embracing technologies that can solve the challenges the world faces. Japan has been a leader in developing and devising

long-term strategies under the Paris Agreement. On its website METI states that the department has “advanced efforts to achieve Hydrogen Society placing hydrogen as a zero-carbon-emitting energy source. On the way to this goal, Japan considers that it will be able to contribute to the world through the dissemination of hydrogen-energy technologies.”

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. The company will soon be transforming unrecyclable plastic into low cost hydrogen road fuel and electricity in the UK. 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.

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 extensive 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 satisfactorily. W2T is raising £1 million pre-IPO with the aim of being a public company towards the end of

2019/beginning of 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 the Peel Protos site at Ellesmere Port is expected to be submitted in June 2019. Subject to planning approval the plant hopes to be operational early next year.

-ENDS-

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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