



Waste2Tricity Brokers Sale of AFC Energy Beta+ System to Powerhouse Energy Group, Plc

4 April 2014: [Waste2Tricity](#) (W2T), the cutting edge structured solutions provider for the waste-to-energy sector, is pleased to announce that under the terms of its exclusive UK licence with AFC Energy plc, it has brokered its first order for a low-cost alkaline fuel cell in a sale, worth a total of £150,000.

W2T has been working with Powerhouse Energy Group (PHE) to evaluate their high temperature gasification technology, particularly the potential of its use with the AFC Energy fuel cell. W2T is delighted with this commitment by PHE to achieving the maximum electrical conversion efficiency from their smaller scale gasification system.

W2T continues to evaluate the PHE technology for smaller projects utilising MSW or RDF and believes the scale of both the 5 tonne and 25 tonne a day systems would help meet the proximity agenda for waste. At the same time this could create a widely distributed hydrogen production network – a requirement for a successful transition to a hydrogen economy.

Keith Allaun, Executive Chairman of Powerhouse Energy Group said, “With our modular Pyromex Ultra High Temperature Gasification technology we see a tremendous opportunity for leveraging the AFC fuel cell. This enhances the commercial platform we have developed, increasing the efficiency of our waste-to-electricity offering. We are excited about our burgeoning partnership with AFC and Waste2Tricity.”

John Hall, Managing Director of Waste2Tricity said, “At this exciting stage of the evaluation process we see real potential from Waste2Tricity’s engagement with Powerhouse Energy and the Pyromex system, adding value for us in the geographical locations where we own or have the rights of first refusal for the AFC Energy technology. A successful combination of the technologies would be especially relevant in more remote areas without an existing distributed electricity system and so reliant on small scale diesel engines for local power generation. The PHE systems operate not only on MSW type waste but also forest waste and

other bio-waste materials, so combined with the fuel cell would offer an effective way of utilising local resources.”

Ian Williamson, Chief Executive of AFC Energy, said: “It is good to see our relationship with Waste2Tricity beginning to bear fruit. We have been working together on a number of opportunities around the globe and this is likely to be an important milestone for us in waste-to-energy. This agreement is a further step towards our goal for deployment of large scale fuel cell systems in the waste-to-energy sector. We look forward to working closely with Powerhouse Energy to develop and improve the efficiencies of generating electricity from their gasification systems.”

Established in 2008, Waste2Tricity works with clients and partners to develop, fund and support EfW deployment projects that integrate proven plasma gasification and internal combustion engines/gas turbines (ICEs/GTs). Shareholders at the global waste solutions firm include Roman Abramovich’s Ervington Investments, who acquired a 10% share capital stake in November last year.

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Notes to Editors

Waste2Tricity Ltd

Waste2tricity is a structured solutions provider for the waste to energy sector and through its exclusive UK & Thai EfW Licences and rights of first refusal to AFC Technology will act as a platform developer for projects involving fuel cells using waste as a feedstock. Its shareholders include Ervington Investments (UBO Roman Abramovich), Age of Reason Foundation and Eturab, all of whom are substantial shareholders in AFC Energy and/or Alter NRG Westinghouse and represent approx. 30% of each company. For more information, visit Waste2Tricity at www.waste2tricity.com

Powerhouse Energy Group Plc

Powerhouse Energy Group Plc is an alternative energy company specialising in the sale of waste to energy systems. Powerhouse’s key advantages centre on its implementation of proprietary technology and a wealth of industry knowledge. The Company’s technologies enable energy recovery from municipal waste streams that would otherwise be directed to landfills and incinerators; or from renewable and alternative fuels such as biomass, lignite (brown coal), tires, and plastics to create syngas for power generation or reformed into liquid fuels for transportation. For more information, visit Powerhouse at www.powerhouseenergy.net

About AFC Energy

Founded in 2006, AFC Energy plc is re-engineering proven alkaline fuel cell technology to reduce the cost of electricity. Alkaline fuel cells have been used on US and Russian manned space missions for decades to provide electrical power and drinking water. By using platinum free, advanced materials, design tools and manufacturing processes at scale, AFC Energy is developing fuel cells that will compete with conventional technologies such as turbines for electrical power generation. Today, AFC Energy is pursuing opportunities in several sectors where hydrogen is readily available including the chlorine, clean coal and waste-to-energy industries as well as applications for distributed/back-up power. For further information, please visit our website: www.afcenergy.com.

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