

6th April 2009

WASTE2TRICITY SUBMITS BID TO LONDON WASTE & RECYCLING BOARD FOR CONVERSION OF LONDON'S RUBBISH INTO GREEN ENERGY

A consortium led by Waste2Tricity Limited has submitted an Expression of Interest to the London Waste & Recycling Board (LWRB), in response to the Board's open call for environmentally responsible and innovative approaches to deal with the capital's 21 million tonnes of rubbish produced annually. Waste2Tricity's solution is to use plasma gasification technology combined with fuel cells to convert waste to energy, with significant environmental and cost benefits over other methods of electricity generation.

The Waste2Tricity consortium includes AFC Energy plc, Alter NRG, and WSP Environmental. Its proposition is to establish a £135 million commercial scale plant capable of converting 250K tonnes of MSW (municipal solid waste) into electricity a year, helping meet the LWRB's objectives of reducing, recycling or disposal of waste in ways that are beneficial to the environment. GDF SUEZ has expressed an interest in purchasing the electricity produced.

The project will meet LWRB's aim to support 'new and emerging advanced thermal conversion technologies, with a preference for technologies that have the potential to produce hydrogen from waste'. It will also help achieve the Board's stated benefits to stakeholders of 'local heat and power plants providing cheap energy; reduction in carbon footprint; energy security; and lower financial costs for London boroughs through avoided landfill tax and gate fees'.

Waste2Tricity's plant will use Alter NRG's commercially proven Westinghouse plasma gasification technology to convert MSW feedstock into syngas, which is then cleaned and converted to hydrogen. In Stage One of Waste2Tricity's programme, the process will use internal combustion engines (ICE) to generate electricity. In Stage Two of the programme the ICE will be replaced with AFC Energy's revolutionary fuel cells, potentially increasing the net output of electricity by a minimum of 60% over an ICE system, or by 200% over a steam turbine system.

"This is a groundbreaking proposal for London's waste," says Katy O'Rorke of Waste2Tricity, "It represents a switch from a focus on waste management to that of energy generation from MSW and commercial waste, in an environmentally responsible and profitable way."

The LWRB was established by the Greater London Authority to facilitate waste management across London. In February 2009 it launched its waste 'brokerage' service to deal with London's rubbish, inviting expressions of interest for funding and/or access to its brokerage service.

About Waste2Tricity

Waste2Tricity is a new British venture established to make waste-to-energy viable, efficient and economical - by implementing a unique combination of new generation alkaline fuel cells with plasma gasification and other existing proven technologies. The system will therefore have significant environmental and cost benefits over other methods of electricity generation from Municipal Solid Waste. For more information, visit Waste2Tricity at

<http://waste2tricity.com>

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REF: DATE: 06.04.09