

## Waste2Tricity Congratulates Air Products at start of Energy-from-Waste build at Tees Valley

10th August 2012: Waste2Tricity, the structured solutions provider instrumental in introducing the Tees Valley site, congratulates Air Products on announcing the start of their building programme for the world's largest renewable energy plant.

Waste2Tricity confirms that it was from introducing this project that they received the £1 million income announced in March 2012, part of which the company used for the initial payment to acquire exclusive UK deployment rights for AFC Energy alkaline fuel cells. Waste2Tricity continues to work with Air Products in identifying sites for future development and is also actively pursuing smaller scale (circa 12MW/80,000 tonne) Energy-from-Waste (EfW) builds.

The use of the Westinghouse plasma gasification, provided by Alter NRG, demonstrates to the market Air Products belief in the maturity of this technology - the only advanced gasification technology fully commercially demonstrated and producing clean syngas for long term use in gas engines, turbines and, in the near future, to be converted to hydrogen for fuel cells.

Waste2Tricity is working to integrate AFC Energy's new generation alkaline fuel cell with Westinghouse plasma gasification for its future projects. The benefits of this unique combination will increase electrical output by 50% for the same feedstock input - for no significant additional Capex per MW than gas engines and with a lower projected Opex. Once this combination of technologies is demonstrated at commercial scale, projected for 2016, this world beating technology will dominate EfW projects across the globe.

John Hall, Managing Director of Waste2Tricity, comments: "Air Products are the pathfinder in this sea change of energy conversion technologies when environmentally beneficial projects are struggling to gain traction; clearly they have the confidence in Westinghouse to back this investment with their balance sheet."

Waste2Tricity sees this as the first step in bridging the funding gap for this technology, allowing it to plan the deployment of AFC Energy fuel cells and, demonstrate a commercial model both substantially more profitable and with greener credentials than anything available on the market today.

Hall continues: "Our relationship with Air Products is very important to us and we continue to work with them to achieve fuel cell demonstration on Tees Valley and subsequent projects;

we are also delighted to be working with Westinghouse Plasma Corporation and other major partners to advance these high efficiency, low carbon, solutions for the waste market.”

**About Waste2Tricity**

Waste2Tricity is a British venture established to implement the most efficient energy conversion process available – by implementing a unique combination of AFC Energy’s new generation alkaline fuel cells with Alter NRG’s plasma gasification and other existing proven technologies. The system will therefore have significant environmental and cost benefits over other methods of electricity generation. For more information, visit Waste2Tricity at [www.waste2tricity.com](http://www.waste2tricity.com)

**About fuel cells**

A fuel cell is a device that produces electricity, heat and water by reacting a hydrogen-rich fuel with oxygen. Conventional engines and turbines combust fuel to produce mechanical energy prior to generating electricity. The direct generation of electricity allows fuel cells to be highly energy efficient. There are several different types of fuel cell, each with its own characteristic but they are all based around a common central design. Fuel cells are increasingly being deployed for applications ranging from vehicles, domestic boilers, powering portable equipment and large scale power stations.

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