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50 MW PLASMA GASIFICATION WASTE TO ENERGY TECHNOLOGY FOR SECOND TEES VALLEY SITE

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Calgary, Canada based Alter NRG, which specialises in the use of plasma gasification technology to recovery energy from waste, has signed an agreement to supply a \$21 million Westinghouse Plasma Gasification Solution to Air Products' second [waste to energy](#) facility in Tees Valley, North East England.

Alter NRG explained that Air Products confirmed its intention to proceed with a second plasma gasification facility during its recent fourth quarter earnings call, and that its location would be adjacent to its first project, the Tees Valley 1 Renewable Energy Facility in Northeast England.

The plasma technology supplier said that it began its relationship with Air Products in January 2009 when it signed a Joint Development Agreement that provided to Air Products five site licenses and access to the Westinghouse Plasma Technology.

Subsequently, Air Products developed the Tees Valley Renewable Energy Facility in Northeast England that is expected to process 950 tonnes per day of household waste and convert it into 50 MW of electricity.

Alter NRG received the purchase order for the first project in December 2011 and has now delivered all of the plasma gasification equipment (pictured above).

The Tees Valley 1 project is now in late stages of construction, and Air Products has begun the procurement phase on the second Tees Valley Project which is approximately the same size and configuration (see site plan below).

According to Air Products, the total spending on the two combined projects is over \$800 million.

[Alter NRG](#) explained that together with its wholly owned subsidiary, Westinghouse Plasma, it will provide the model G65 gasifier solution, related control, instrumentation, and engineering services for a fixed price of approximately \$21 million.

The company added that it expects to realise the majority of the revenue within fifteen months, and as part of the agreement, expects to receive a down payment within 15 days and further milestone payments as fabrication progresses.



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Air Products is to build a second 350000 tonne per year waste to energy plasma gasification facility on Teesside.

The Waste Gasification Debate

While a number of major projects are underway globally, waste gasification has a chequered past. Many argue that when traditional thermal treatment with heat recovery is able to achieve such high efficiencies, gasification is complex and unnecessary. Others point to low emissions and the potential to produce products such as hydrogen. WMW asked some experts for their thoughts on the subject...

Is Waste Gasification Finally Coming of Age?

Spurred by government incentives and a stable regulatory environment, Air Products has begun construction of a 50 MW plasma gasification facility in Teesside. With the company already planning a second such plant at the site - as well as others around the country - is the waste industry entering the age of gasification?

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