



Unique Energy From Waste Technology

CREATING ELECTRICITY & HEAT FROM CLEAN GAS, DERIVED FROM NON-RECYCLABLE WASTE

Nearly every city in the world is overflowing with non-recyclable waste and many are running out of increasingly-expensive landfill space to dispose of it. The mass treatment of waste through incineration is widely considered unacceptable.

COMPANY PROFILE

Standard Gas have built two commercial scale plants using an advanced thermal process to treat non-recyclable household, commercial and industrial waste that creates a clean, high quality synthesis gas, capable of producing electricity and heat-with **NO INCINERATION** of the waste during the process; and resulting in no more Emissions than Natural Gas.

This new process can treat any hydro-carbon based waste products that our populations create and which are currently hard to dispose of, including RDF/MSW/SRF, waste wood, oily contaminants, tyre crumb, lignite and others. The Gas created using this technology has been granted **End of Waste Certification** by the UK Environment Agency.

Standard Gas has proven results generating a minimum net output of **1 MWe of power per 1 tonne of waste** treated on a variety of feedstocks.

KEY DISCUSSIONS

Following the conclusion of successful testing, Standard Gas are now in discussions with waste processors, potential users of the syngas/power/heat produced and public sector bodies looking for localised solutions to the growing issues of waste and energy. Thereby creating more **Sustainable Cities** and creating high quantities of Clean Energy both in the UK and globally.

STANDARD PLANT (below)

The **dual retort plant** located on the Greenwich peninsula in London, represents the standard modular plant. Each machine is designed to treat approximately **100,000 tonnes of waste** and create **100,000 MWe of power annually** from a 2 acre site. It produces a high output of gas from a small, modular footprint which can be run in series to take advantage of large grid connections. The amount of waste treated per hour and high volume of gas created from each tonne of waste, make it a **significantly better alternative to Incineration or Landfill** – both environmentally and economically.



The standard dual retort plant has a footprint of just 6000sq ft for the production of up to 20MWe.

UK BUSINESS GOAL

Our goal is to quickly increase the numbers of plants in the UK and simultaneously market the product globally. Initial research shows strong demand in most countries and potentially thousands of plants in the larger countries.



KEY POINTS OF INTEREST

ENVIRONMENT AGENCY (EA)

The Environment Agency in the UK granted the gas produced by using the technology with the **End of Waste Certification**, as well as issued permits to actively run Huntingdon (below) & Greenwich. Standard Gas will look to strategically position plants across the UK in key areas for Landfill and RDF export as well as in areas with large off take potential.



Standard Gas's single retort Huntingdon plant is our first commercial scale plant and actively produces gas & electricity. The EA testing having been completed, the plant is being prepared to commence full time commercial operation, running 24 hours a day.

ENVIRONMENTAL CONSULTANTS

As a testament to the technology, independent consultants that have worked on testing the technology over the past 2 years, have now either joined or invested in Standard Gas, such is their belief in the technology when compared to other comparable technology.



BEYOND COAL

As well as Solid Waste Management issues, when the technology was tested on Lignite, it was found to elicit more energy from the coal than existing processes, but with virtually no **EMISSIONS**. If Coal must be used, let us at least ensure it doesn't create harmful pollution.

ECOLOGICAL & PHILANTHROPIC



Many countries in the world are facing major waste management issues and lack the requisite technology or skills to deal with these. Standard Gas has the capacity to respond quickly and with low capital cost.

The technology can be used to help reconstitute Landfill sites, which could then free up the land to build much needed affordable homes and supply them with power.



KEY BENEFITS

THE BEST PRACTICABLE ENVIRONMENTAL OPTION FOR THE MASS TREATMENT OF WASTE

- High quantities of clean gas produced and high volumes of waste treated
- The Gas produced has been certified 'End of Waste' by the Environment Agency in UK
- No incineration of waste is involved in the process, so none of the related environmental issues
- Little physical impact of the plant – small building, low stack and relatively quiet process

CLEAR ECONOMIC ADVANTAGES

- Low cost of each MWe produced, compared to similar clean energy technologies
- Highly efficient process, with a very high energy yield from any feedstock used; combined with a low parasitic load
- Low operating and lifetime maintenance costs anticipated
- 1MWe of power per tonne of waste

PROVEN TECHNOLOGY

- Two commercial scale plants already built, permits granted, strong results during R&D testing
- Limited use of new technology – over 80% of components already widely used in industry
- Simple process, able to use a wide variety of waste derived fuels with minimal preparation and a very safe continuous feed system operating at low pressures

STRONG MANAGEMENT

Ed Falkman – C.E.O – was formerly CEO of Waste Management International. Ed understands all aspects of Waste Management business and brings huge international experience to the UK Board of Directors.

David Whitmarsh – M.D - Founder and director for 3 years. Responsible for developing the technology in the UK.

Mark Crossley – C.F.O – 20 years advising major corporates, private equity firms and infrastructure funds on acquisitions, disposals and equity capital raising. Mark has advised such companies as Centrica and E.ON on major strategic transactions, as well as financial investors such as PSP and Khazanah.

Steve Butler – Environmental Consultant Director of a specialist environmental sustainability consulting practice, Sol Environment Ltd (Sol). Advising government on Policy.

STRATEGY

We are now looking to expand capacity. Our next immediate goal is to increase the data gathering at each plant and continuing to explore global opportunities.

As well as Capex, funds are required to execute the **next phase** which includes restructuring of the group, providing access to the global IP, working capital for Standard Gas after which we will have provable data to allow us to sell the plants worldwide in scale.

The next step of Standard Gas's evolution is the crucial leap from scientifically proven, permitted and certificated technology, to commercial enterprise capable of selling a much needed CleanTech solution globally in large numbers.

IN CASE OF INTEREST PLEASE CONTACT

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