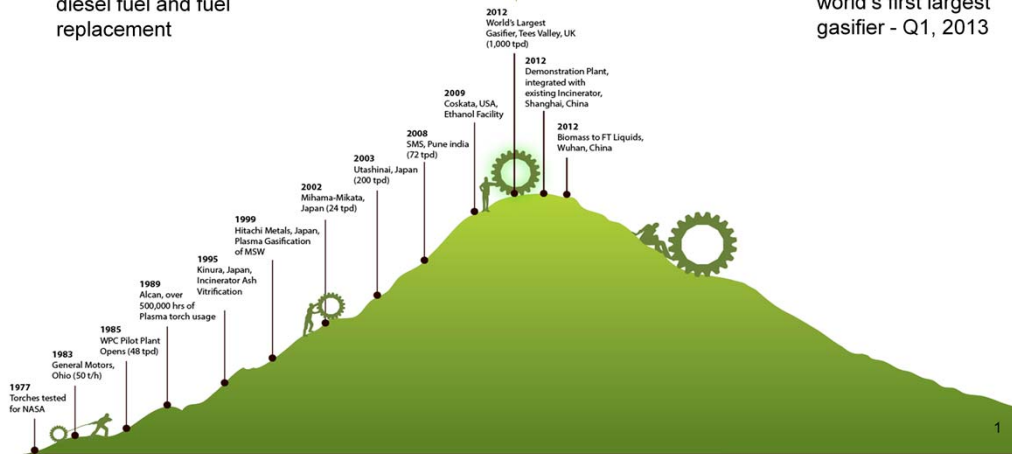


## WESTINGHOUSE PLASMA TIPPING POINT

- Convert multiple feedstocks to clean Syngas
- Creates electricity, ethanol, gasoline, diesel fuel and fuel replacement



### Tipping Point



- Delivers superior economic and environmental performance
- Delivered the world's first largest gasifier - Q1, 2013

- Alter NRG has the dominant plasma conversion technology.
- Through a more than 20 year evolution of technology development, numerous reference facilities, and expanded product design the tipping point has been reached.
- During the year 2012 Alter NRG achieved some very significant commercial milestones.
- The tipping point was an evolution as shown in the graphic below which has taken decades of time, effort and innovation by the engineers and scientists at Westinghouse Plasma Corporation.
- The end result is a next generation technology that converts waste into numerous forms of energy in a more efficient and environmentally friendly manner.

### You may ask why Westinghouse plasma is not widely deployed given the obvious benefits of the technology:

- We have a long history of innovation and technology development that is just now being actively deployed and monetized.
- We have deployed the technology 6 times in the last 5 years with several plants currently in permitting/engineering stages and 12 times in the last 20 years.
- Have reached the tipping point with the 1000tpd CC plant (first of a kind and a new standard in WTE).

## WORLD'S LARGEST PLASMA GASIFIER

### Specifications:

- G65 model
- 1000 tpd MSW (350,000 tpa)
- 50 MW of electricity using combined cycle
- 65,000 NM<sup>3</sup> per hour of syngas
- Commissioning 2014

### Status:

- Gasifier delivered to project site on May 12, 2013

### Dimensions:

- Weight: 204 tonnes
- Height: 25 m
- Width: 9 m



*"Our investment in advanced gasification EFW technology is a natural extension of our onsite business model. Offering an innovative growth opportunity, it allows us to further extend our leading position in the global energy market and continue to deliver on Air Products' commitment to sustainability."*

*-John McGlade, Chairman, President and Chief Executive Officer of Air Products*

*"Advanced gasification has a key role to play in delivering renewable energy and I warmly welcome the decision by Air Products to proceed with its Tees Valley Renewable Energy Facility. Air Products' announcement reflects the UK's commitment and support for clean energy, combined with our stable and transparent environment for investors."*

*-Nick Clegg, The UK  
Deputy Prime Minister*

The Tees Valley project is a real world example of the new standard for WTE.

- Our scope
- AP site

### Tees Valley – 1

- Convert 1000 tpd MSW producing 50MW combined cycle power.
- Enough to power 50,000 homes.
- Currently under construction.
- 2014 commissioning date.
- Will utilize Westinghouse Plasma gasifier design and plasma torch systems.

### Tees Valley – 2

- Air Products planning a 2nd facility on the adjacent land.
- Enough to power 50,000 homes.
- To convert 1000 tpd MSW producing 50MW combined cycle power.

**PLASMA GASIFIER DELIVERED TO TEES VALLEY SITE, UK  
ON MAY 10, 2012**



- Westinghouse Plasma Gasifier delivered to the Tees Valley site on May 12, 2013
- Model G-65, that can handle up to 1,000 tpd of waste

**PLASMA GASIFIER STRUCTURE UNDER CONSTRUCTION  
AT THE TEES VALLEY SITE, UK**



- Westinghouse Plasma Gasifier Structure under construction
- At the Tees Valley Site, UK
- Evolution of the Tees Valley site – from a bare land to construction in progress as seen on the pictures on your right side.