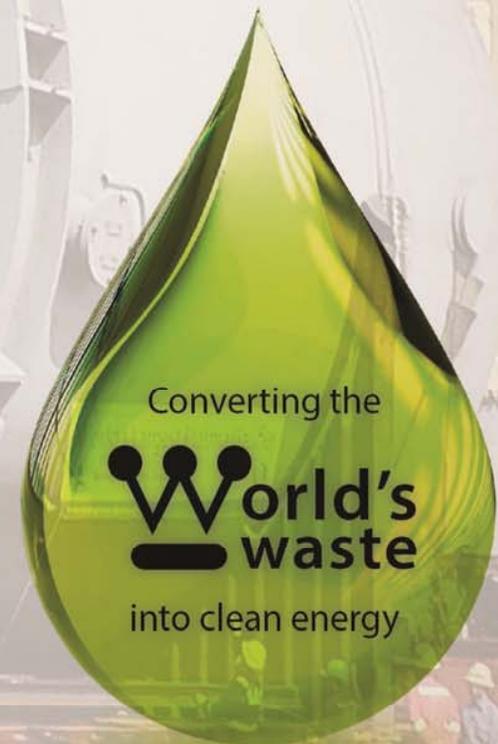




Westinghouse Plasma Corporation

Westinghouse Plasma Gasification is the Next Generation of Energy from Waste Technology

USEA Annual Meeting
May 30, 2013
Washington, DC



WHO WE ARE

Alter NRG is a publicly traded (TSX: NRG; OTCQX: ANRGF) Alternative Energy company providing clean energy solutions. Westinghouse Plasma is a wholly-owned subsidiary

Our Vision

To provide the leading technology platform for converting the world's waste into clean energy for a healthier planet.

Our Mission

As the industry leader, we will forge and dominate an industry segment that transforms current waste management practices. We build shareholder value by enabling our customers to convert waste into clean energy by providing plasma gasification products, services and solutions that are innovative and environmentally friendly.

OUR FOCUS (100% Owned)



Westinghouse Plasma Corporation

a division of Alter NRG Corp.

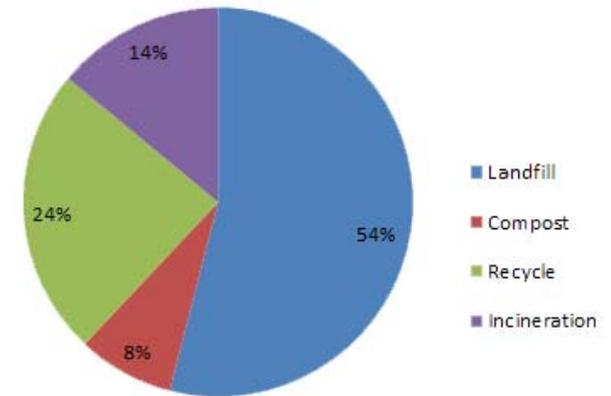
The industry leading plasma gasification technology that provides clean and renewable energy solutions by converting all types of waste and biomass into high value energy – like electricity, ethanol or syngas for industrial use. With plasma systems in operation for 20 years and converting waste into energy since 2002, this technology is commercially proven and has lower emissions than conventional energy technologies.

Westinghouse Plasma Gasification:

1. Commercially proven
2. Industry leader worldwide
3. Westinghouse brand
4. Fortune 500 customers
5. Large sales pipeline of existing projects

TODAY'S CHALLENGES

- Growing population, increasing waste volumes and environmental concern
- Current MSW generation is 228 million tonnes per year, will increase to 256 million tonnes per year by 2025
- Waste: 54% landfilled, 12% incinerated, 34% recycled/composted
- Majority of incinerators were built in the 70's and 80's

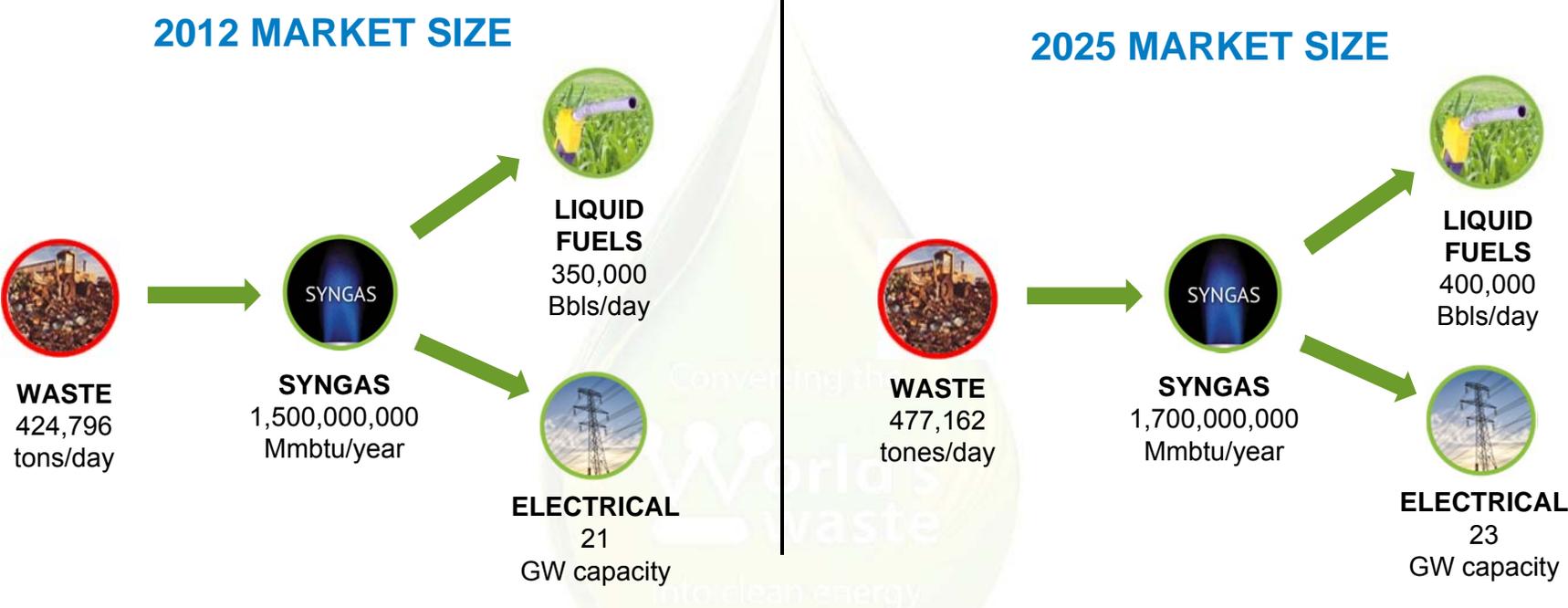


Waste Disposal & Distribution in USA

TOMORROW'S OPPORTUNITIES

- Replace aging incinerators with cleaner more efficient WTE solutions
- Divert additional waste streams from landfills to high efficiency WTE plants

MONETIZATION OF WASTE (68% MSW – LANDFILLED AND INCINERATED)



Source: World Bank 2012 / OECD 2006
(Total waste generated at 2010: 624,700 tpd, by 2025: 701,709 tpd)

“Waste generation levels are expected to grow by 69% by 2025”.

World Bank Study

COMPARISON OF WESTINGHOUSE PLASMA vs. INCINERATION

	Westinghouse Plasma Gasification	Incineration
Feedstock Flexibility	Ability to mix feedstocks such as MSW, Industrial Waste, Commercial & Industrial Waste, Hazardous Waste, Tires, Biomass Fuels (such as wood waste)	MSW and other common waste streams; difficult to mix multiple feedstocks
Fuel Created	Syngas (Carbon Monoxide and Hydrogen)	not applicable
End Product Opportunities	<ul style="list-style-type: none"> • Replacement Fuel for Natural Gas and Fuel Oil • Power via Steam cycle • Power via Combined cycle or Reciprocating Engines • Power via Fuel Cells (future) • Process Steam • Liquid Fuels (ethanol, bio-diesel) • Hydrogen • Fertilizer Compounds 	Power via Steam cycle Process Steam
Overall Plant Efficiency	Combined Cycle Process: 1 ton of municipal solid waste is capable of creating 1000 kWh of power via combined cycle configuration	Steam Cycle Process: 1 ton of municipal solid waste generates between 500-650 kWh of power
Dioxins and Furans	Better overall emissions and the high operating temperature (>1000°C) and oxygen starved environment destroys any dioxins/furans that may be present in the feedstock.	The presence of oxygen, chlorine, and particulate creates the right conditions for the formation of dioxins and furans.
By-product	Inert, non-hazardous and non-leaching glassy slag salable as an aggregate building product or rock wool. Most particulate recovered during cleaning of the syngas is recyclable	Hazardous fly ash and scrubber residues plus incinerator bottom ash

PLASMA GASIFICATION VS. INCINERATION

Comparative Metric	Tees Valley 1 Advanced Plasma Gasification Waste to Energy Facility, UK	Incinerator PA, USA
Daily Throughput (tonnes per day)	1,000	1,344
Availability	90.4%	90%
Gross Power Output (MW)	50 MW	38.1 MW
MWh/tonne	1.2 MWh/tonne	0.9 MWh/tonne

SIGNIFICANTLY CLEANER THAN REGULATED STANDARDS

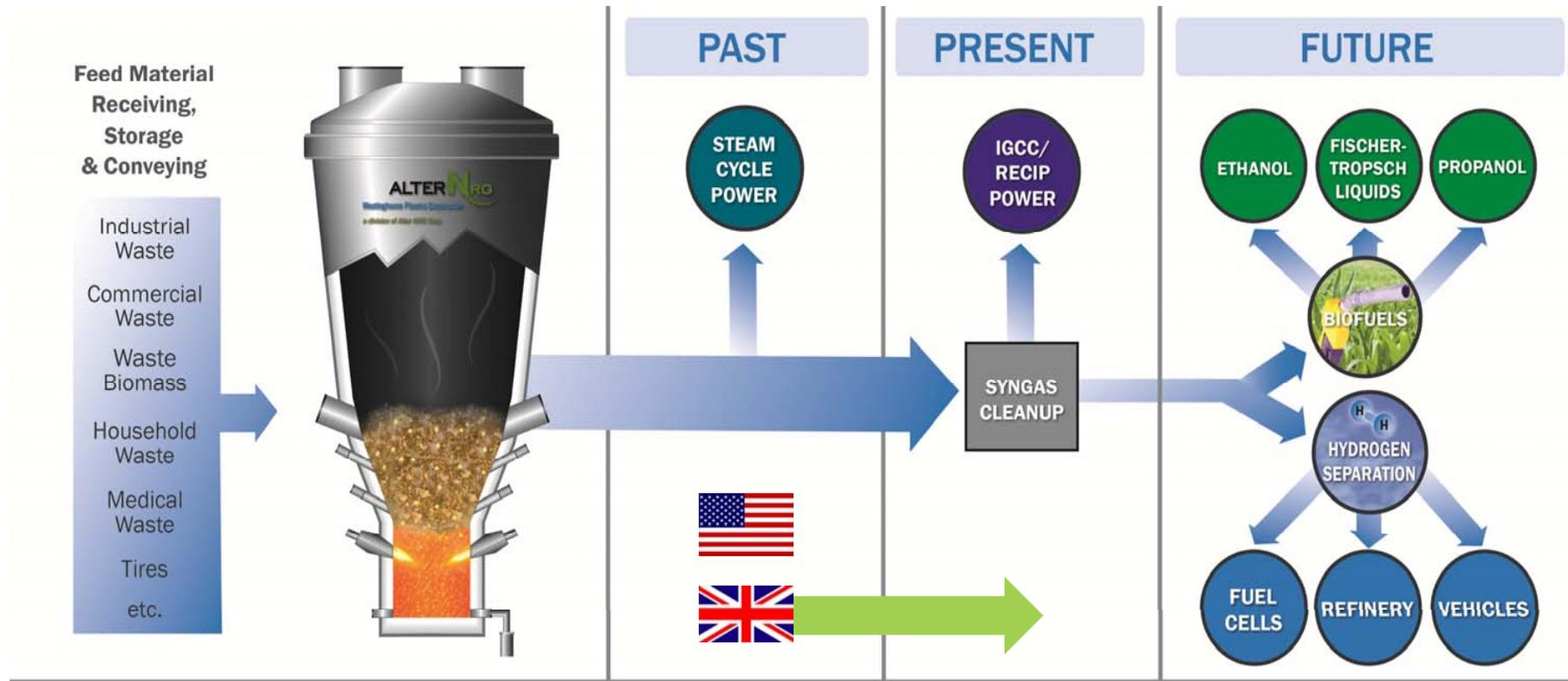
Pollutant	Units	Westinghouse Plasma Combined Cycle	Permitted Incineration Facilities, USA	US EPA Section 111(d) Emissions Guidelines
Nitrogen Oxide (NOx)	(ppmvd)	36	110-205	205
Particulate Matter (PM)	(mg/dscm)	4	16-27	25-27
Sulfur Dioxide (SO ₂)	(ppmvd)	1	26-29	29-31
Hydrogen Chloride (HCl)	(ppmvd)	6	25-29	29-31
Carbon Monoxide (CO)	(ppmvd)	19	100	100
Mercury (Hg)	(µg/dscm)	1	28-80	80
Dioxins and Furans (PCDD/PCDF)	(ng/dscm)	0	13-30	30-60

ppmvd: parts per million, volumetric dry . mg/dscm: milligrams per dry standard cubic meter, µg/dscm: micrograms per dry standard cubic meter, ng/dscm: nanograms per dry standard cubic meter

VITRIFIED SLAG VS. FLY ASH

Westinghouse Plasma Gasifier produces non-leaching vitrified slag (used as a construction aggregate, landscaping blocks, rock wool insulation, floor tiles etc.) vs. leachable incinerator fly ash ⁶

WESTINGHOUSE PLASMA GASIFICATION – PAST AND FUTURE



WESTINGHOUSE PLASMA TIPPING POINT

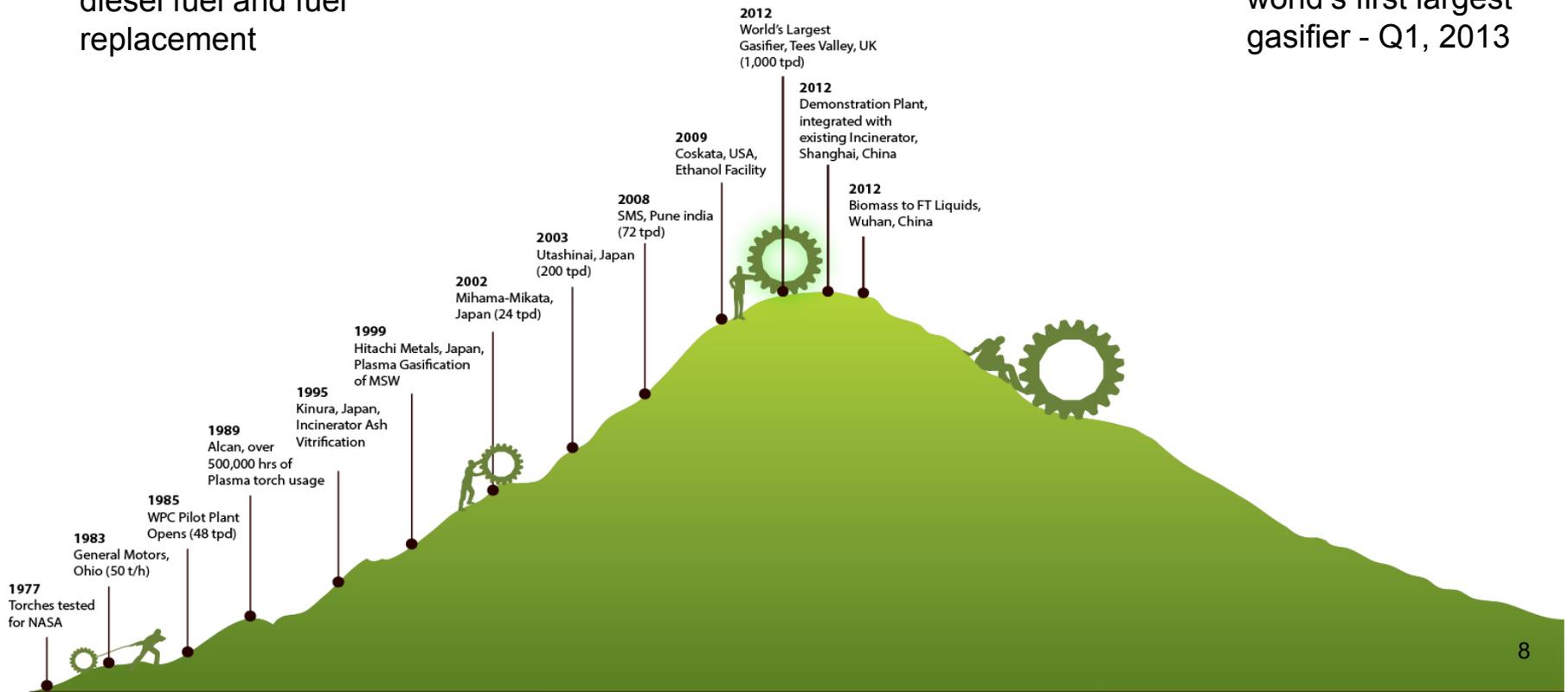
- Convert multiple feedstocks to clean Syngas
- Creates electricity, ethanol, gasoline, diesel fuel and fuel replacement



Tipping Point



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



WORLD'S LARGEST PLASMA GASIFIER

Specifications:

- **G65 model**
- 1000 tpd MSW (350,000 tpa)
- 50 MW of electricity using combined cycle
- 65,000 NM³ 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*

PLASMA GASIFIER DELIVERED TO TEES VALLEY SITE, UK ON MAY 10, 2013



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





DEMONSTRATION FACILITY, WUHAN, CHINA

- Biomass feedstock to FT liquids facility
- Significant reference plant for WPC
- Commissioned in Q4, 2012

Kaidi is a publicly traded company in China with ~ \$2 billion USD annual revenues and an aggressive track record



DEMONSTRATION FACILITY, SHANGHAI, CHINA



Demo plant to be located on back side of this building

Medical waste rotary kiln technology. Gas clean up equipment will / can be shared with demo plant

- A demonstration plant currently being built in Shanghai, China
- Westinghouse Plasma delivered the gasifier IP and plasma torches
- Integration with an existing incinerator to take the incinerator ash as well as other difficult feedstocks

ENERGY FROM WASTE IN PUNE, INDIA



- SMSIL owns 72 tpd hazardous waste treatment facility
- 40-60 different waste streams processed simultaneously during the year
- Syngas is used to create electricity which is exported to grid
- SMSIL actively developing new projects – 2 in EIA stage
- SMSIL and Alter NRG cooperating to replicate the Pune configuration around the world



SMSIL Hazardous Energy Recovery from Waste Facility

CONCLUSION

WESTINGHOUSE PLASMA:

- **The commercial leader in large scale advanced thermal treatment**
- **Is being chosen as the platform for the next generation of WTE solutions**
- **Can maximize project economics through ability of technology to process high value waste streams**
- **Is highly efficient vs. other current technologies**
- **Is an environmentally sustainable solution with better overall performance**



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THANK YOU

