Waste Plastic to Fuel
Zero Pollution Conversion Technology
Who We Are and What We Do

PARC is a leading pyrolysis technology company that achieved continuous production to convert waste plastics into high quality fuel through patented systems that are financially and environmentally beneficial.

• **Reduce** waste plastic streams and mitigate environmental pollution by efficiently converting all types of plastics, including PVC

• **Produce** high-quality, ready-to-use fuel for industrial furnace and can be refined into Gasoline and Diesel by refinery

• **Create** a sustainable solution to today's most daunting problems: environmental deterioration and energy shortage

• **Offer** green jobs that are beneficial to local economy

Confidential Information
Who We Are and What We Do

- **Generated:** More than 13 million tons of plastic wastes in the US per year
- **Recycled:** Only 7% of those plastic wastes

- Environmental friendly method to dispose plastic wastes
- Alternative sources of energy
- New profit stream

Plastic Advanced Recycling Corp (PARC)
Company Overview

• Founded in 1994 and built first plant in Beijing in 1995
• PARC has devoted itself to improving and perfecting its waste-to-fuel technology for 20 years
• Currently have two operational plants in Jiangsu Province, China
  A new facility with two units are expected to be installed within 2015
• Independently own three US patents. Certified by ISO 9001

Facility in Nantong, China
Waste Plastic to Fuel

Advantages:
• Continuous operation with high efficiency and capacity
  30 tons of waste plastic per day; 10,000 tons per year

• Automatic continuous feeding and discharging system
• New technology pyrolysis reactor
• No sorting is needed; able to process co-mingled plastics
• System is scaled to need
• Minimum emission
• High output ratio
Waste Plastic to Fuel

Process:
- Feedstock—Plastic packaging, agricultural film, food and beverage containers, etc.

- All types of plastic
- Single unit of equipment can process 30 tons of waste plastic a day, totaling 10,000 tons a year
- Types of plastic that have high oil yield: PP, PS, LDPE, HDPE

- Low-temp & pressure $800^\circ\text{F}/500$ $^\circ\text{C}$ pyrolysis reaction
- Reaction—solid to liquid and gas
- Filtrated and condensed into mixed fuel
- (optional) Refine into diesel and gasoline
Up to 60% of the output is mixed fuel (depends on feedstock), which can be used in industrial boilers, generators, or can be further refined into diesel and gasoline by the refinery.

17%-32% is solid residue, which can be used as a heating source similar to lean coal.

15%-18% is combustible gas which is recycled back to the furnace as heat.
Value Proposition

• Reduce plastic waste pollution and tipping fees associated with plastic sourcing.
• Reduce GHG emissions related to incineration and oil extraction.
• Reduce dependency on foreign oil and exposure to volatile oil prices.
• Create additional revenue through mixed fuel sales.
• Create green jobs for local community.
• Create strong environmental stewardship with local community by better waste management practice.
Thank You!

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