

Scrap Tire to Fuel

Zero Pollution Conversion Technology



**PLASTIC
ADVANCED
RECYCLING
CORP.**

About Scrap Tire

- In 2013, US generated 233.3 million scrap tires; 89.5% is light duty tires; 10.5% commercial tires¹.
- There are still 75 million stockpiled tires in US by 2013
- Scrap tires are problematic in landfills because they are difficult to compact and do not decompose easily
- Scrap tires stockpiles harbor mosquitoes, snakes and other vermin
- Scrap tires stockpiles present fire hazard. It is extremely difficult to extinguish fire from tire stockpiles



Scrap tire stockpiles



Scrap tire chips

Who We Are and What We Do

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

- **Reduce** scrap tire stockpiles and landfills and mitigate environmental pollution by efficiently converting scrap tires
- **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

The
United
States
of
America



Company Overview

- **Founded in 1994 and built first pyrolysis 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



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Technology Breakthroughs:

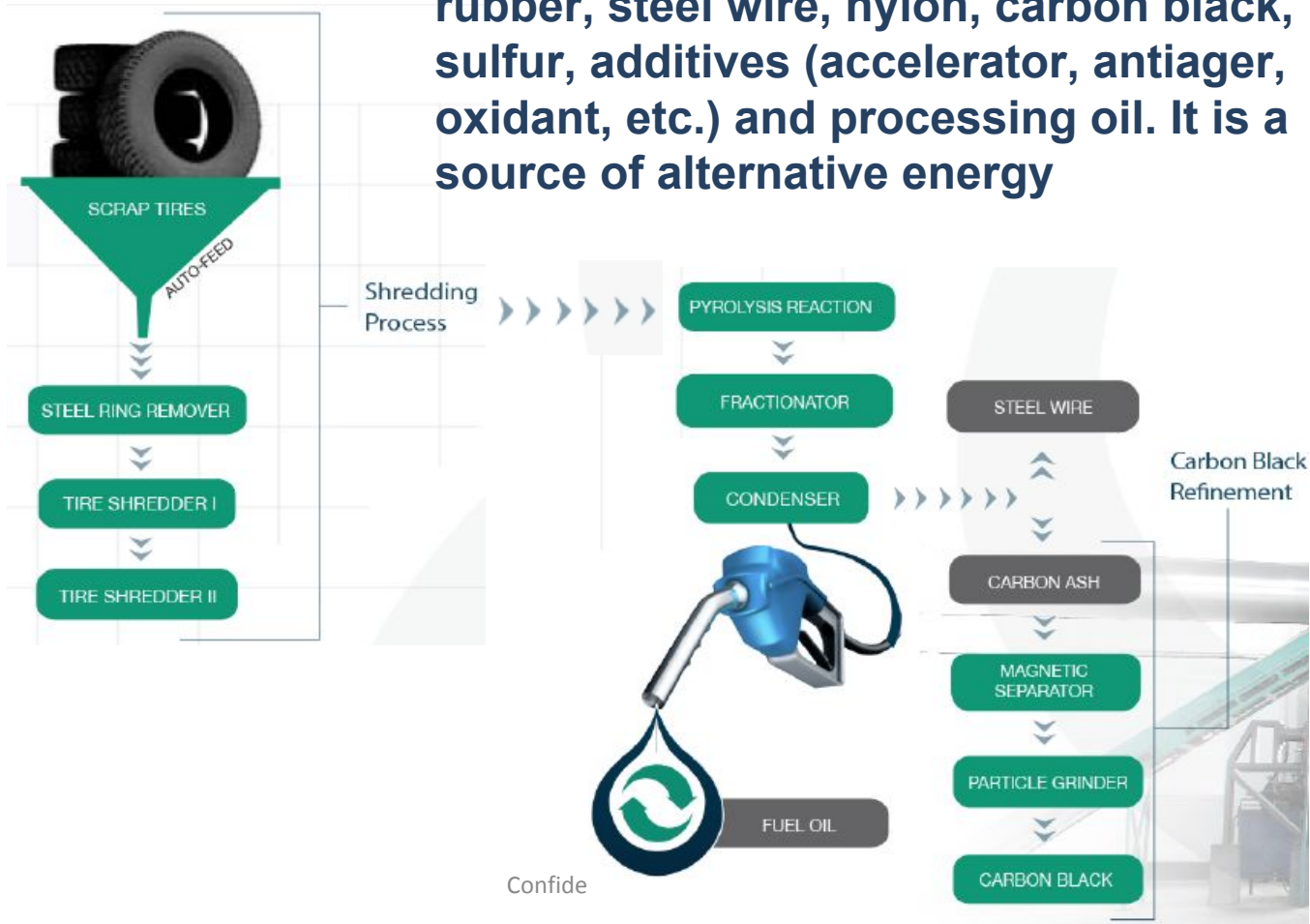
- New-style pyrolysis reactor
- Modular system
- Automatic continuous discharging system
- Continuous feed
- No coax buildup



Scrap Tire to Fuel

How it works:

Tire is made of natural and synthetic rubber, steel wire, nylon, carbon black, sulfur, additives (accelerator, antiager, oxidant, etc.) and processing oil. It is a source of alternative energy



Confide

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Facts & Numbers:

- One single unit can process 50 tons of scrap tires daily, approximately 18,000 tons annually
- **35-40%** of the output is mixed fuel with caloric value of 9,500-10,500 kcal/kg
- **10-15%** is scrap steel wire
- **6-7%** is combustible gas which is rerouted back into the furnace as heat
- **1-2%** is waste water

Value Proposition

- Reduce scrap tire stockpiles accumulation and pollution.
- 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.



REACTOR



FILTER



CONDENSER

Thank You !



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