

Waste Plastic to Fuel

Zero Pollution Conversion Technology

✓ About Our Company

Plastic Advanced Recycling Corporation (PARC) converts waste plastic/scrap tires into high quality fuel oil and develops, designs and manufactures the equipment used in the pyrolysis conversion process.

We observe the highest standards of safety, quality, reliability and environmental sustainability in all of our manufacturing and conversion operations.



REACTOR



DRYER

✓ Facts & Numbers

- The equipment processes all types of plastic, from code 1 to code 7.
- One single unit of equipment processes 30 tons of waste plastic daily, totaling 10,000 tons annually.
- Up to 60% of output is mixed fuel (depends on feedstock), which can be further refined.
- 17 – 32% of output is solid residue, which can be used as a heating source similar to lean coal.
- 15 – 18% is combustible gas which is recycled back into the furnace as heat.

✓ About the Technology

The waste plastic is received from MRFs, paper recycling rejects, and other recycling companies. Contaminants, such as rock and concrete, are removed in the sorting system, and the plastic is shredded and dried through the drying tunnel. There is no need to wash the plastics. The shredded plastic is then dropped onto a conveyor belt to be lifted to the top of the feeding hopper.

The feeding system measures the plastic to be conveyed into the reactor along with the catalyst. The rotating reactor is heated to vaporize the waste plastic. The vapor and solid residue are removed from the reactor using the discharging and filtering system. The filtered vapor is sent to a condenser, and the solid residue is put into a storage tank.

The non-condensable gas is returned to the furnace to be used for indirect heating source. The condensed vapor is transported through an oil-water separator to obtain an oil phase product. This oil phase product can potentially be refined to produce gasoline and diesel fuels. If refining is not feasible, the product can be used directly as heating oil or industrial boiler diesel.



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