Conversion of Waste Plastics to Fuel and Energy

By John N Campbell

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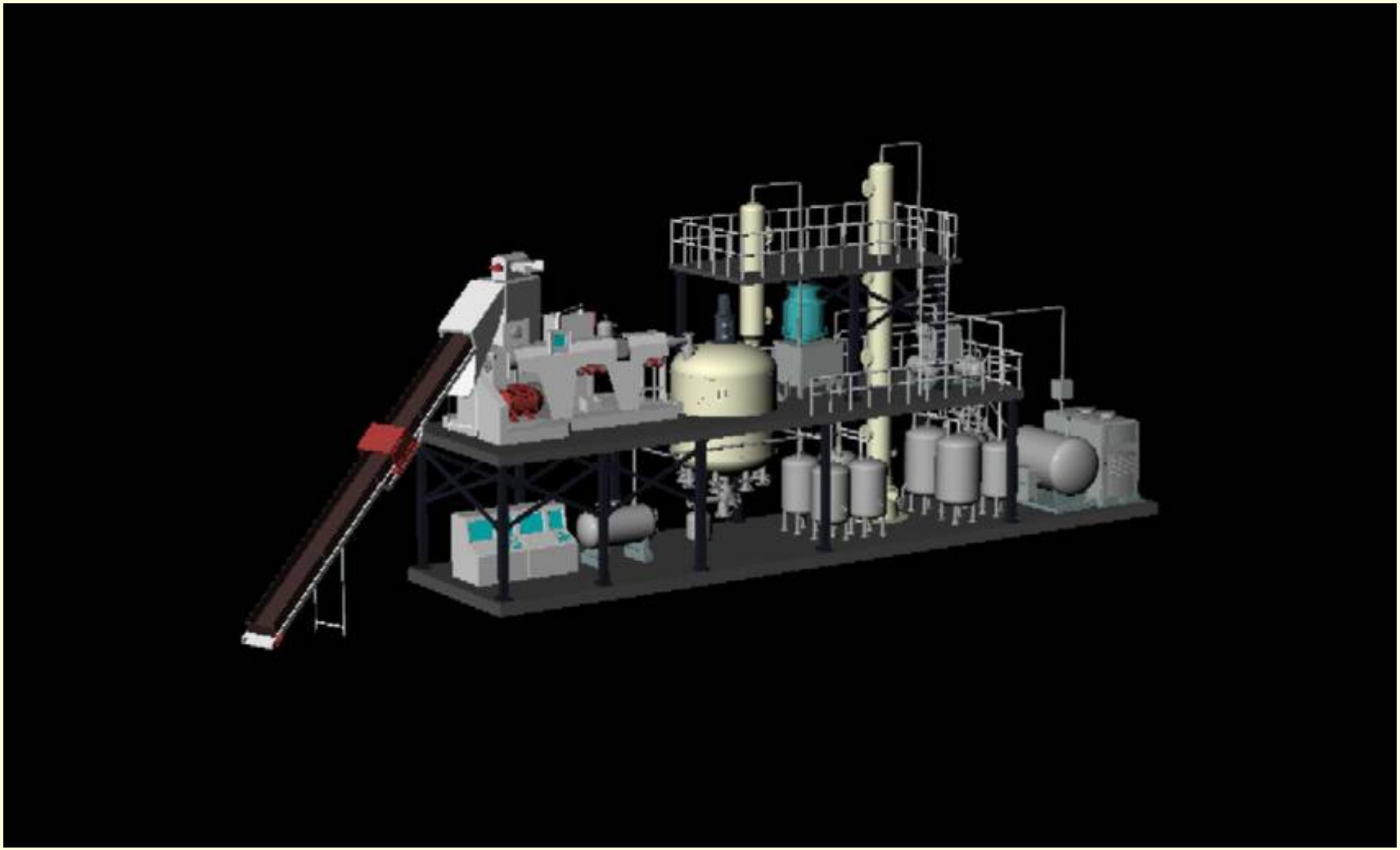
TOR Unit from WTFA, LTD



Unit Production Specs

- Unit is designed to run 24 hour per day.
- Downtime should be less than 30 days per year
- Units are sized to process 3,000, 6,000 or 12,000 ton per year.

Each Ton of Plastic Waste Yields:

- Between 200 to 300 gallons of diesel
- Between 2,000 and 2,200 KwH of electricity

Quality of Diesel Produced

- Exceeds GB252 Specifications.
- High Cetane (57 compared to spec of 45)
- Low Solids (Sulfur at 0.024%)

Operational Cost

- Annual operational cost is approx. $250,000
- Energy produced can be sold back to grid at approx. $0.03 per KwH
- $0.12 to $0.18 per gallon of diesel for 3,000 ton per year unit.

Unit Cost

- $3,000,000 to $8,000,000 (depending on size and options)
- ROI is approx 43 mo. For 3,000 ton unit and less than 24 for 12,000 ton unit

Other points of Interest

- No toxic or hazardous emmisions
- By-product can be used as cement fill making process “waste-free”
- Units can also process waste oil, vegetable oil, animal fats and tires (with proper pre-treatment unit)

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