

Company Name

CFP CORPORATION
| Marketing and Sales

RECYCLE ENERGY CO., LTD.
| R&D and Manufacturing

Contact us

T E L | +81-84-971-5950
E-MAIL | info@recycle-corp.com
U R L | <http://www.cfp-eco.com>

Location

Head Office

5-11-4, Hikino-cho, Fukuyama City,
Hiroshima 721-0942, JAPAN

Tokyo Office

2nd Floor Niu Building (in TRIEL),
2-1-17 Nihonbashi,
Chuo, Tokyo 103-0027, JAPAN

Minohama Factory

6-6, Minohama, Kasaoka City, Okayama
714-0042, JAPAN

Takamatsu Factory

2897-6, Mitani-cho, Takamatsu City,
Kagawa 761-0450, JAPAN

Chubu Factory

1-10, Fuji-cho, Yokkaichi City, Mie
510-0013, JAPAN

Ranzan Factory

4-3, Hanamidai, Ranzan-machi, Hiki-gun,
Saitama 355-0204, JAPAN

Miyazaki Warehouse

943-28, Akae, Miyazaki City, Miyazaki
880-0912, JAPAN

R&D Office

6-6, Minohama, Kasaoka City, Okayama
714-0042, JAPAN

Singapore

57 Mohamed Sultan Road #04-05 Sultan Link
Singapore 238997

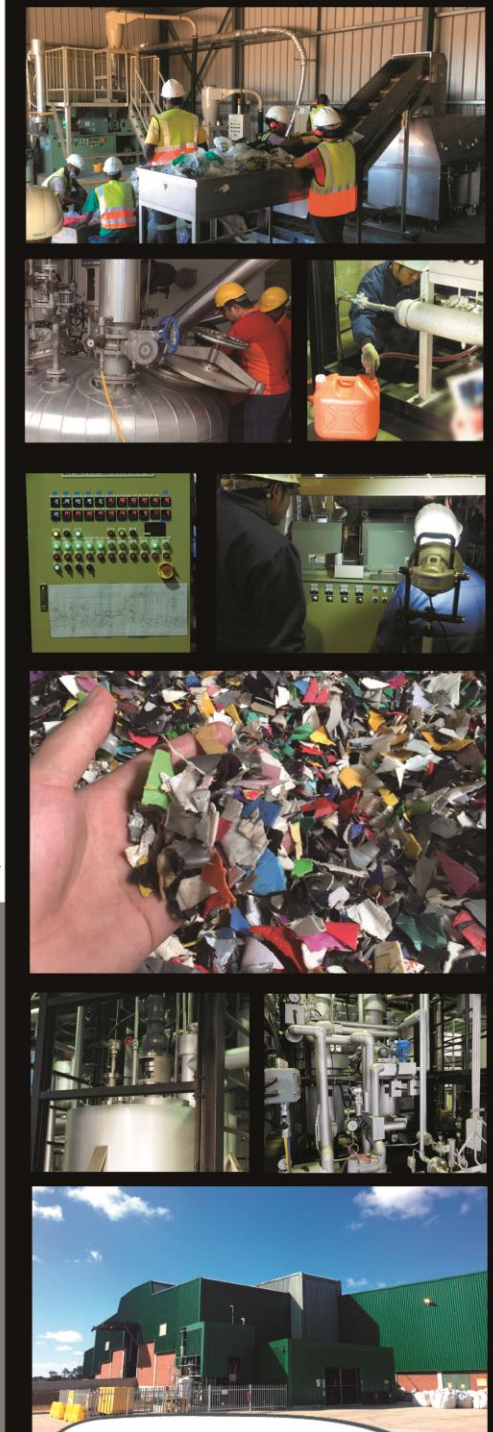
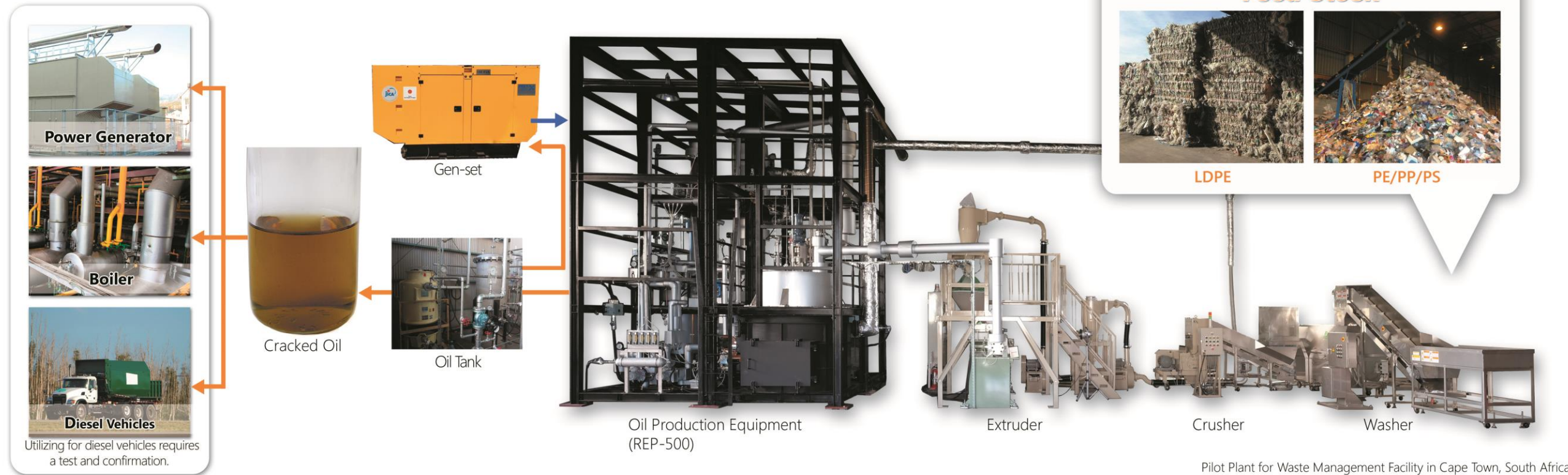
Waste Plastic Pyrolysis Oil Production



CFP CORPORATION

RECYCLE ENERGY CO.,LTD.

Waste Plastic-to-Oil Production System (REP Series)

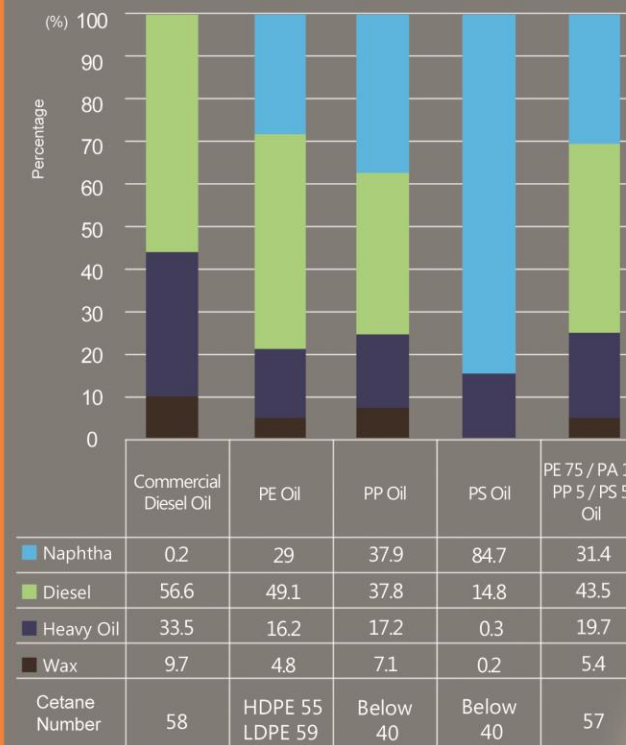


Features of Pyrolysis Oil Production System

(REP Series)

- **High Processing Ability**
Max.8000kg of waste plastics can be converted into 8000liter of the cracked oil per day.
- **Feed Stock**
PE/PP/PS plastics are suitable raw material for converting into the cracked oil. PVC and PET are unsuitable. PE is among the best material for converting into diesel rich oil. Multi-layer plastic of such PE/PA/PP/PS is also possible for converting into the cracked oil.
- **Application of cracked oil**
The cracked oil from waste plastics can be utilized as a fuel for power generator and boiler etc. (Cetane number of PE oil and PE/PA/PP/PS oil are over 50.)
- **Advanced Pyrolysis Technology**
With CFP's patent technology, the cracked oil does not solidify even at low temperature. Continuous feeding system comparing with batch type makes productivity improve dramatically. Injecting nitrogen into the equipment purges oxygen and keeps the operation and equipment safe, and also prevents the cracked oil from oxidizing.
- **No requirement of external utility source(such fuel and electricity)**
The cracked oil can be utilized for and cover all the burner fuel of the reactor and the power source of facilities by generating electricity with it. The off-gas can be utilized as gas burner fuel for reactor.
- **Diesel Power generation**
1 liter of cracked oil generates approximately 4 - 5kw/liter of electricity.

Commercial Diesel vs Pyrolysis Oil



Cetane Number Specification (Diesel Oil) of ASTM & JIS

| Standard | Cetane Number |
|---------------------------|---------------|
| ASTM D613 | |
| High speed engine | more than 40 |
| Low & Medium speed engine | more than 35 |
| JIS K2280 | |
| For Summer | more than 50 |
| For Winter | more than 45 |

Toward the establishment of a recycling-based society that creates energy and solves environmental problems.

