

PYROLYSIS

ECOLOGY – ENERGY – HEAT

GREENEVO
TECHNOLOGY ACCELERATOR

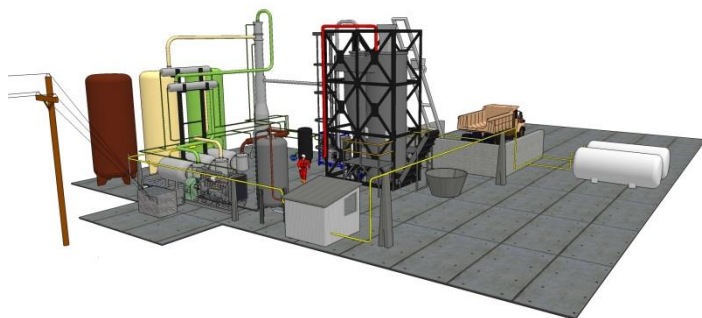


MINISTRY
OF THE ENVIRONMENT



Financed by National Fund
for Environmental Protection
and Water Management

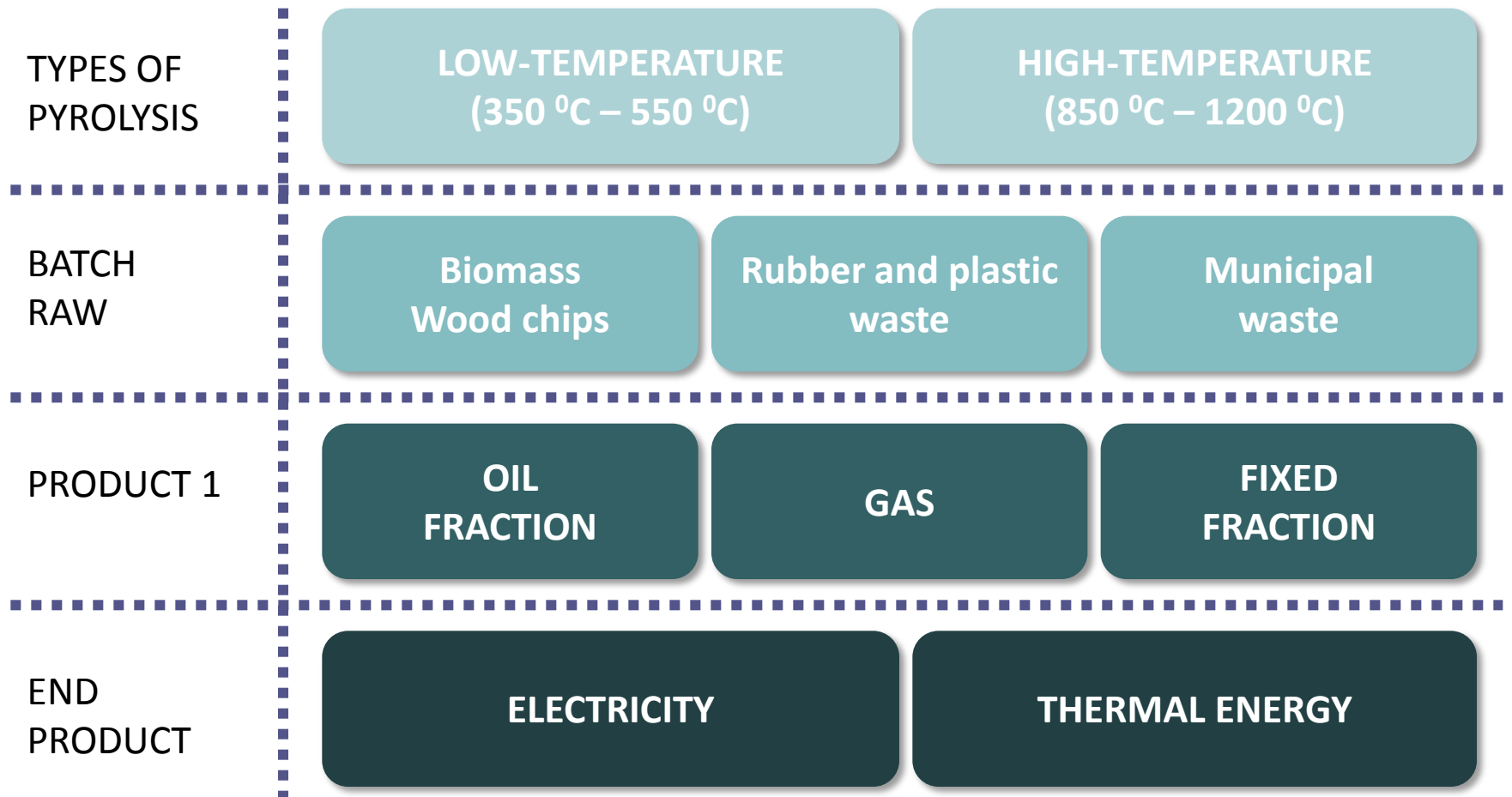
Disposal of municipal waste, rubber, and processing of biomass in the low and high temperature pyrolysis.



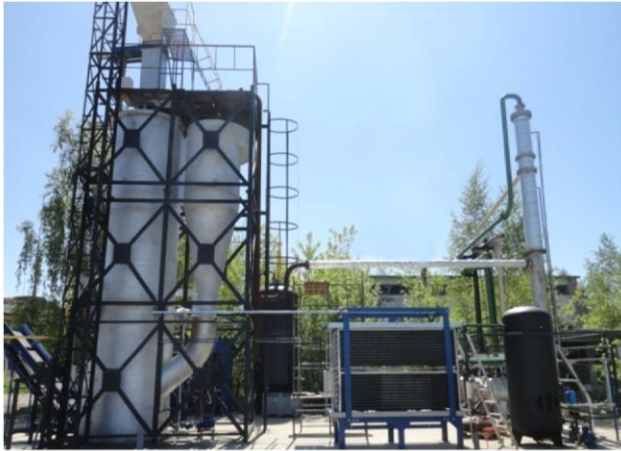

Dagas
nieskończone możliwości

Pyrolysis

Pyrolysis is a thermochemical decomposition of organic materials at elevated temperatures without the participation of oxygen



Technology Innovation



1. No emissions - no chimney !!!

2. Operation of the reactor at a pressure 0,1 - 0,9 at

3. REDUXCO catalysts:

- Liquid - assisted thermal decomposition process
- Solid - enrichment of gas

4. Water as a natural safety valve

5. Energy production from low - calorie gas

6. Two levels of purification process

7. The high - efficiency cogeneration

8. Low power consumption - 17 kWh

9. Low heat losses, quick start up - (0,3 MW/ ton)

DAGAS NT/WT

LOW TEMPERATURE – DAGAS NT



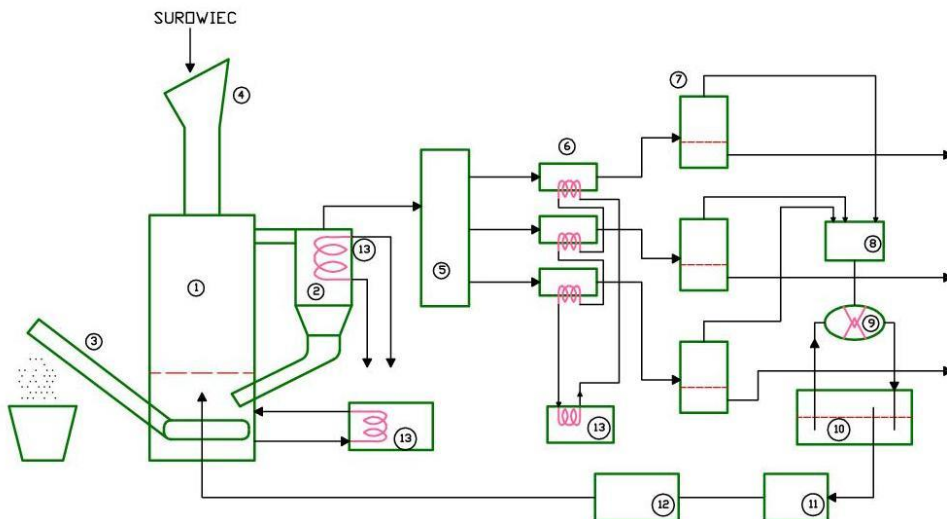
HIGH TEMPERATURE – DAGAS WT



Type of pyrolysis

LOW-TEMPERATURE PYROLYSIS

SCHEMAT PRZETWARZANIA ODPADÓW GUMOWYCH



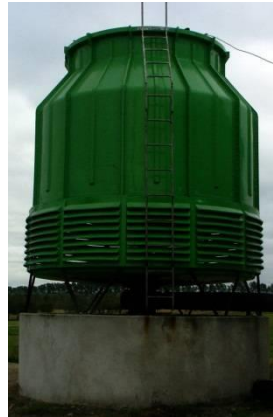
1. Reactor
2. Cyclone
3. Conveyor
4. Loading system
5. Fractional column
6. Heat exchanger
7. Products container
8. Separator
9. Vacuum pump
10. Deflegmator
11. Compressor
12. Tank
13. Heat exchanger

HIGH-TEMPERATURE PYROLYSIS



Pictures

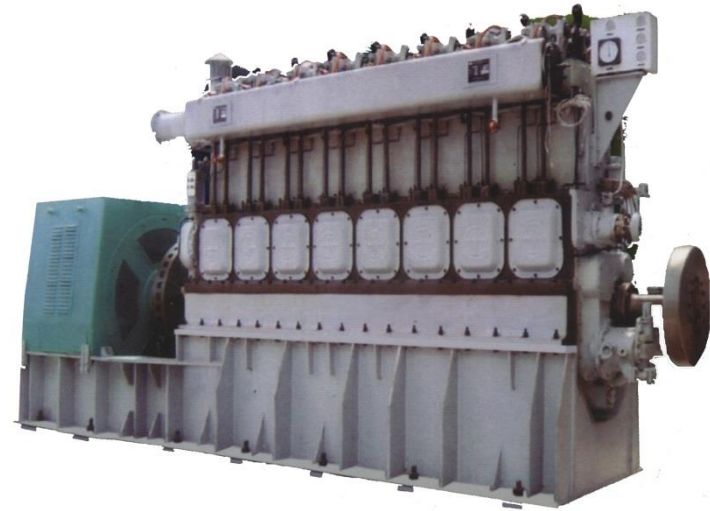
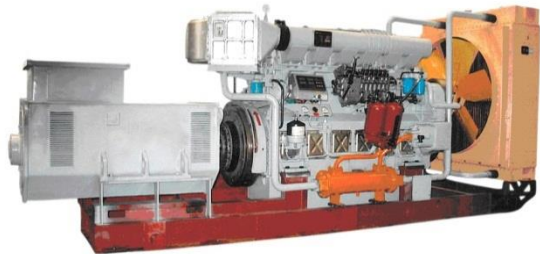
HIGH-TEMPERATURE PYROLYSIS



LOW-TEMPERATURE PYROLYSIS NEW TYPE PRODUCTION



Power generators



From 200kW to 2MW

Fuels:

- Low and high calority gas
- Heavy and light oil
- Coal dust
- Metan

Leszek Borkowski
Sales Director

Ul. Gośniewska 46
05-660 Warka, Polska
Tel: +48 (48) 667 2040
Fax: +48 (48) 667 2100
Email: info@dagas.pl



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