

ENERGY FROM PLASTIC WASTE

RUG 500°C

The 500° C RUG container system converts 250 kg of worthless plastic into clean energy per day



**1 KG
PLASTIC
1 L
FUEL**

**1 L
FUEL
3,5 kWh
ENERGY**



RUG 500°C

RUG 500 °C converts plastic waste into energy. It is characterized by a modular, decentralized and cascable design. This technology can be considered as an ordered serial system.

+ From 1 kg of plastic waste to 1 liter of fuel

RUG 500 °C processes after-use waste materials such as HDPE, LDPE and PP into a high-quality energy source with a heating value of 11 kWh.

+ Fully automated reactor

The incorporated substrate is split in a single process, distilled and converted into fuel or electricity.

+ Only 500 Wh per liter

To process a liter of mineral oil waste, the system requires only about 500 Wh. The product contains about ten times the amount of energy.

+ Decentralized container construction

Depending on the configuration, the RUG 500 modules are installed in 20 or 40 ft containers.

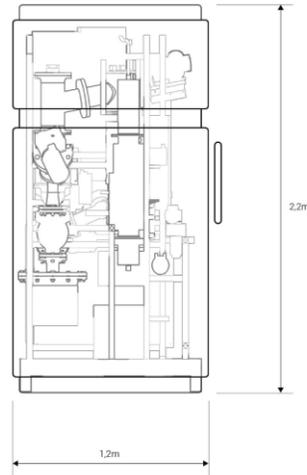
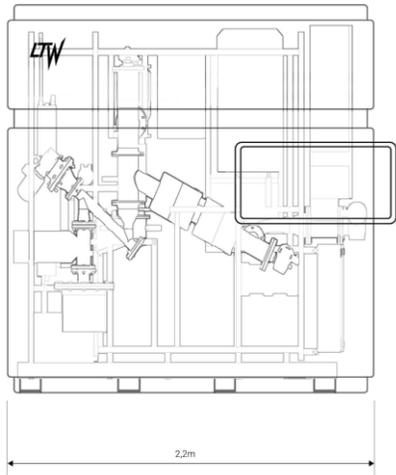
+ Cutting mill and silos

After comminution, the substrate is placed in a silo and automatically added to achieve the best workability in the reactor.

+ Use of electricity and heat

The optional generator is an island generator optimized for the depolymerization process. It is characterized by a high degree of robustness, simple construction and good efficiency. Thermal energy can also be used with the optional BHKW module.





TECHNICAL DATA

- + Waterproof container
- + 19" touch screen
- + Compact entry system also for light and liquid substrates
- + Continuous compact depolymerization reactor with patented multi-zone heating system
- + Condensation tanks with filtration
- + Siemens control system with extensive sensor technology
- + Security system
- + Water cooling + backup system
- + Automatic ash discharge
- + Processes polyols: PE, PP, LDPE, HDPE
- + up to 15% black / white contamination
- + Depolymerization condensates (energy content approx. 10 kWh / l)
- + Meets military, shipping and all German environmental standards

USEFUL SUBSTANCES

- HDPE** Containers, IBCs, plates, foils
Injection molded parts of packaging, household or technical articles
- LDPE** Films such as adhesive films, transport bags
Agricultural films, milk carton coatings, garbage bags and shrink films
- PP** Interior fittings for cars, dashboards and battery cases
Shock absorbers, child seats, bicycle helmets
Transformer housing, wire and cable sheathing
Insulating foils, pipes, cups, bottle caps
Inner parts for dishwashers, thermo transport boxes
Protective foils, reusable packaging
Parts for packaging, drinking straws, adhesive foil Plastic banknotes like Australian dollar
PP fibers in home textiles, carpets, sports textiles, packaging materials, Hygiene products, medical products, hovering ropes, geotextiles

	RUG 500/250	RUG 500/500
MODULE FOR REACTORS	1	4
OPERATING MODULE	250 kg / day	1000 kg / day
DELIVERY TIME	3 months	6 months
WARRANTY	Subject of the service contract	
PRICE	198.000 €	335.000 €

2,2m

1,2m

LTW CONTACT US



GEORGE JANDA
george@ltw-battery.at
+420 737 911 512