Wastewatt Projects

Project 1: 5MW Rice Husk Gasification Power Plant in China 2019
Project 2: 1MW Coconut Husk Gasification Power Plant in Indonesia 2021
Project 3: 12MW Rice Husk Gasification Power Plant in Myanmar 2022
Project 4: 3MW Wood Chips Gasification Power Plant in Malaysia 2022
Project 5: 1MW Wood Waste Gasification Power Plant in Taiwan 2024
Project 6: 1MW Wood Waste Gasification Power Plant in Indonesia 2024
Project 7: 500kW Wood Waste Gasification Power Plant in Taiwan 2025

Powermax - The Company

Powermax is a provider of green and clean energy solutions. With over 30 years of experience since our founding in 1986, we specialize in gasification technology. Our systems efficiently convert biomass, waste, and coal into valuable energy products, including electricity, industrial steam, and heat for various applications.

We control the entire process through our in-house development, design, construction, and project management teams. Our own production facilities in China manufacture key components such as gasifiers, gas purification systems, and gas generator sets.

All Powermax designs are backed by proven expertise, drawing from more than 100 reference installations worldwide.

30+

Years Of Manufacturing Experience

powermax

2026/01/12

Powermax Renewables

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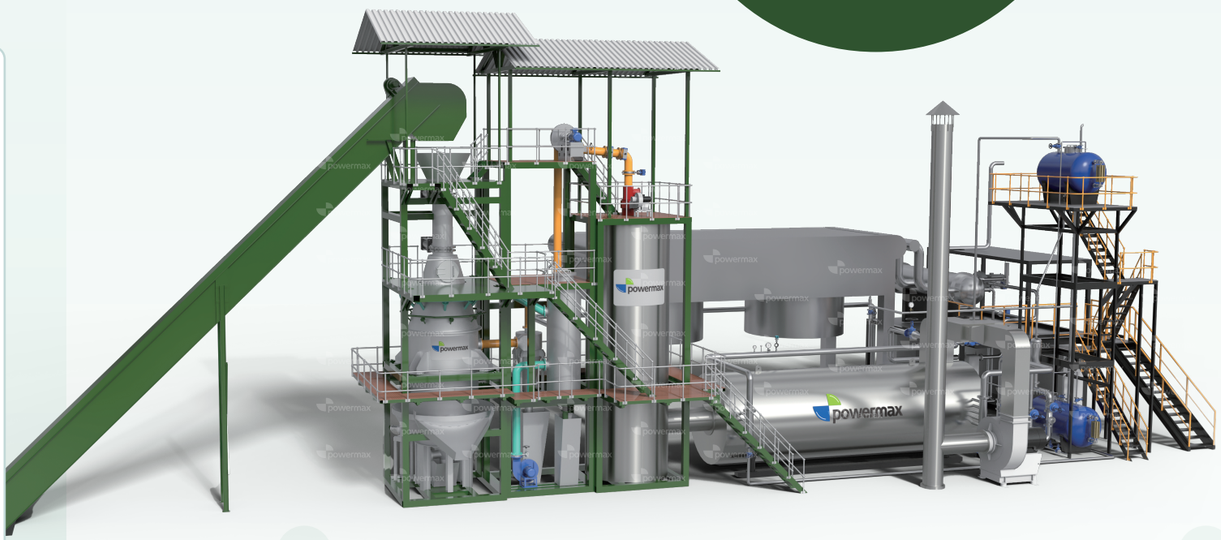
Compact Waste Gasification Power Generation Solution



Heat

Power

ORC (DÜRR)

*No factory building required. On-site installation takes only **7-10 working days**.*

Wastewatt Products

powermax
www.powermaxgasifiers.com

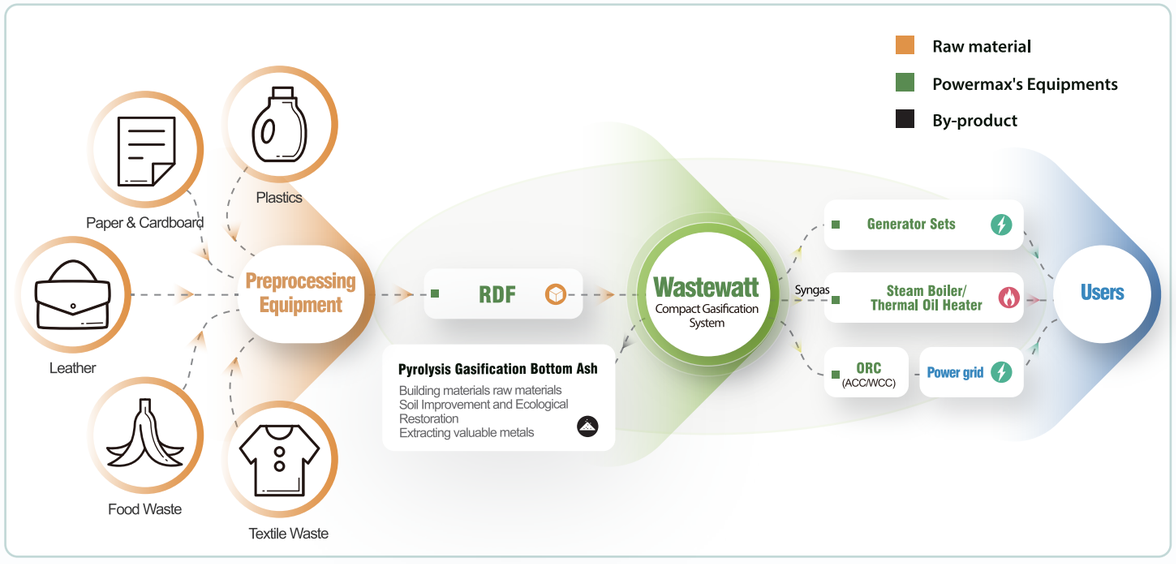
▪ Wastewatt

Wastewatt 500

Wastewatt 1000

Transform waste into value with the Wastewatt 500 & Wastewatt 1000. This advanced gasification solution turns Municipal Solid Waste (MSW) into reliable, usable energy such as fuel gas, electricity, steam, hot water, heat and air conditioning. By reducing up to 90% bulk reduction of wastes, It delivers:

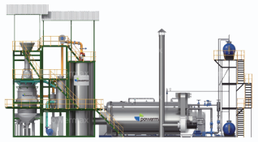
- **Regulatory Confidence:** Full compliance with the world's most stringent emissions norms.
- **Financial Performance:** A quick and attractive return on investment by lowering waste disposal costs and creating new energy revenue.
- **Features built-in capability :** Automatically alter key processing conditions in response to feedstock changes, ensuring consistently high gasification efficiency and syngas quality.
- **Compact and Modular Footprint :** Features a highly integrated design with a small footprint, minimizing land use and simplifying site placement.
- **Seamless Industrial Integration:** Engineered for easy integration into existing industrial facilities, operating under existing permits to avoid lengthy new approval processes.
- **Uncompromising Reliability & Support:** Built for 24/7 operation, backed by top-tier customer service including rapid-response support to ensure maximum operational availability.
- **Inherently Cleaner Technology:** Achieves superior environmental performance with negligible formation of tar, carcinogens, and trace elements, significantly reducing downstream pollution control complexity.
- **Core Safety and Automation Features:** It ensures safety via a PLC that triggers automatic shutdown during upsets or power loss. It features a modern flare for safe gas venting, with standard CO monitors. Automation is customizable, supporting centralized PLC monitoring and SCADA-based remote access.



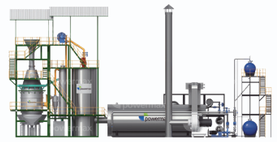
▪ Wastewatt ORC

Wastewatt 500 ORC(ACC)

Wastewatt 1000 ORC(ACC)



Wastewatt 500 ORC(WCC)



Wastewatt 1000 ORC(WCC)

System Configuration

Technology Used	Wastewatt 500 ORC	Wastewatt 1000 ORC
Waste Feed	RDF	
Waste Feed Capacity(dry basis)	22 - 25 TPD	36 - 40 TPD
Average Moisture	<15%	
Average Feed Heating Value(wet basis)	4000 - 4500 kCal/kg	
Operation Temperature	800 - 1000 ℃	
Energy Recovery Equipment	Thermal Heater + Durr ORC	
Estimated Footprint of System	406 - 594 m²	1095 - 1127 m²
Input Thermal Oil		
Thermal Oil Quality	310 °C, 180°C, 2829 kW	310 °C, 180°C, 5083 kW
System Output Power Generation		
Power Output (Gross)	500 kW	1000 kW
Voltage	220 V, 400V, 415V, 440V, 480V	
Frequency	50 - 60 Hz	
Discharges		
Solid Residue	10 -15%	
Emissions	Meets all local & international environmental regulatory norms	

Flow Chart - Take Wastewatt 500 ORC(ACC) as an Example