

German Engineered Biomass Power Plant
1 MW Electric | 3 MW Thermal

Supplying Electricity to up to 20,000 Rural Households
Nutrient-Rich Fertilizer Ash Suitable for 1,800–2,500 ha of Agricultural Land



The plant represents a proven and reliable energy solution based on high-quality German engineering, designed for long-term operation, durability, and efficient power generation.

Commissioned in 2007 and operated continuously until 2018, the facility demonstrates robust construction, operational stability, and suitability for relocation and recommissioning in energy-demanding markets.

With its flexible fuel capability and straightforward system design, the plant is particularly well suited for deployment in emerging and developing markets, offering a cost-effective and sustainable solution for decentralized power generation.

Further technical and commercial details are available upon request, subject to execution of a Letter of Intent (LoI) and a Non-Circumvention Non-Disclosure Agreement (NCNDA).

German Biomass Powerplant (2nd Hand, YOM 2007)

- Electrical Output: 1 MW \approx 8,000,000 kWh/year
 - Equivalent to powering 20,000 homes with electricity – about 100.000 people
- Thermal Output: 3 MW \approx 26,280,000 kWh/year

- Ashes Output: 900 MT highly nutrient-rich organic fertilizer – suitable for 1.800 – 2.500 ha agricultural land
 - Potassium (K₂O): up to 35%
 - Calcium (CaO): 10–45%
 - Magnesium (MgO): 1–5%.
 - Phosphorus (P₂O₅): 1–5%
 - Silica (SiO₂): 1-5%
- 4th German BImSchV approval
- Feedstock: 18.000 MT/a Biomass – Bamboo, Wood, Organic Waste
- Generator Efficiency 95 %
- Location – Germany
- Year of Manufacture 2007
- Condition: Very good, Regular Inspections

Key Components:

- Turbine – Siemens KK&K Twin, 950 kW, Made in Germany
- Boiler - Lambion GmbH, Made in Germany

Key Advantages:

- German Engineering Excellence
- The plant is built to the highest industrial standards, ensuring long service life, precision manufacturing, and operational reliability.

Proven and Durable German Technology:

The system is based on a classical and well-established design (grate firing + steam turbine), minimizing operational risks and simplifying operations and maintenance.

Advanced flue gas cleaning system ensures high environmental performance with dust removal efficiency of approx. 99%.

Easy Operation & Handling:

- User-friendly system design
- Straightforward control structure
- Low complexity compared to modern high-tech plants
- Ideal for regions with limited technical infrastructure

Flexible Fuel Capability:

- Wood chips
- Forestry residues, Bamboo, Rice Husk
- Organic biomass waste

This flexibility allows cost-efficient fuel sourcing and local resource utilization.

24/7 Base Load Capability:

The plant is designed for continuous operation, making it suitable for stable and predictable electricity generation.

System Configuration:

- Biomass feeding system with automated bunker and conveyor
- High-efficiency steam boiler
- Steam turbine and generator unit
- Air-cooled condenser system
- Water treatment (reverse osmosis)
- Modern emission control (cyclone + electrostatic filter)

The plant has been professionally shut down and remains a strong candidate for relocation and recommissioning.

With targeted maintenance and overhaul, it offers:

- High value at low acquisition cost
- Rapid deployment potential
- Attractive ROI in energy-demanding markets
- Industrial power supply
- Mini-grid or regional power generation
- Off-grid or hybrid energy systems

This biomass power plant combines:

- Reliable German technology
- Long operational lifetime
- Simple and robust system design
- Cost-efficient energy production

This biomass power plant represents a unique opportunity to acquire proven European energy infrastructure at a highly competitive price.

Availability: Immediate

Sales Price (EXW Germany):

The price excludes local taxes, customs duties, dismantling, reassembly and freight costs.

Estimated Total Project Costs (Rebuild Scenario)

- Biomass Power Plant USD 1.195,000
- Turnkey Dismantling USD 275,000
- Turbine Inspection USD 330,000
- Overseas Freight USD 135,000
- Turnkey Reassembly USD 760,000

Total Estimated Turnkey Cost: USD 2.695.000*

* Excl. industrial enclosure with durable sheet metal cladding and corrugated steel roofing.

Upon request, can provide full project support, including the organization and coordination of turnkey dismantling, turbine inspection, international transport, and turnkey reassembly services, subject to the conditions outlined above.

Additional Terms:

- A Letter of Intent (LOI) and a Non-Circumvention Non-Disclosure Agreement (NCNDA) must be executed prior to the release of detailed technical and commercial documentation.
- As proof of financial capability, the Buyer shall provide a Proof of Funds (POF) in the form of a bank statement, bank confirmation letter, or equivalent document issued by a reputable financial institution.

Offer Validity:

This offer is valid for 30 (thirty) calendar days from today's date.

The validity period remains in effect if LOI and NCNDA are signed within these 30 days.

Payment Terms:

- 10% deposit of the purchase price, payable upon signing of the Purchase Agreement, following execution of the LOI and NCNDA.
The deposit secures the asset and is non-refundable, except in the event of a material deviation from the agreed specifications.
- 50% progress payment payable prior to commencement of dismantling and preparation works, but no later than 90 (ninety) days after signing of the Purchase Agreement.
- 40% final payment payable prior to release of the equipment and before loading EXW Germany.

Retention of Title:

- Title to the equipment shall remain with the Seller until the full purchase price has been received in cleared funds.
- Any transfer of risk prior to transfer of title shall not affect the Seller's retention of title.

Transfer of Risk:

- All risks related to dismantling, handling, loading and removal of the equipment shall be borne exclusively by the Buyer.
- Transfer of risk shall occur upon release of the equipment to the Buyer or its contractors at the project site, prior to commencement of dismantling.

Default Clause:

In the event of delayed or incomplete payment, the Seller shall be entitled to suspend performance and withhold release and delivery of the equipment until full payment has been received.

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