



LOHRMANN
BIOENERGY



- **BIO MASS POWER PLANTS**
- **VEGETABLE OIL DIESEL GENERATORS**
- **MODULAR BIO DIESEL PRODUCTION LINES**



THE INNOVATION IN MODULAR BIO FUEL TECHNOLOGY

LOHRMANN
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The combination of the diesel generator with a heat recovery system provides highest possible efficiency.

VEGETABLE OIL FIRED DIESEL GENERATORS

Lohrmann International is Europe's leading supplier for pre-owned power equipment, with more than 40 years experience.

The generator sets within our portfolio have all been reviewed and precisely evaluated by our engineers.

Larger Diesel Generators (1 MW_{el}+) are excellent suitable for direct feed with vegetable oils. Hence, most Generator Sets within our portfolio don't require conversions to be able using vegetable oils.



BIO MASS POWER PLANTS

Bio Mass (Wood Chips, Nut Shells, Palm Fiber, Bagasse and others) Power Plants belong to the three main business fields of Lohrmann Bio-Energy Division.

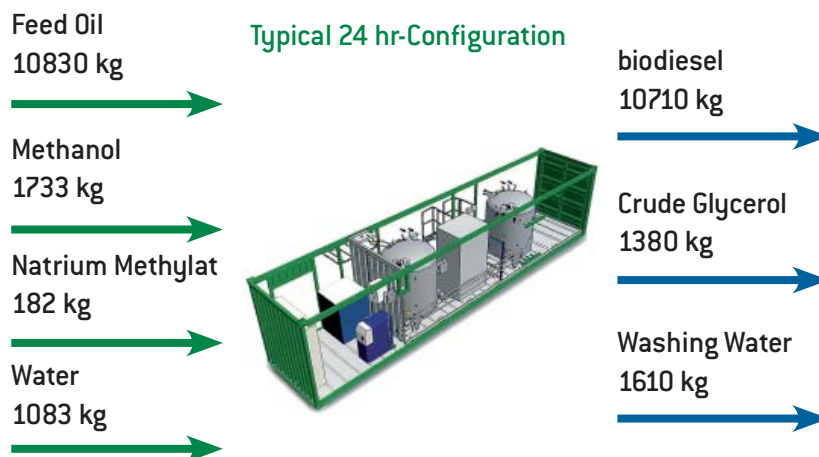
Our aim is to achieve the highest efficiency and least costs, by combining pre-owned units with new equipment, depending on availability and project's requirements.

- OUR OFFER**
- Project feasibility
 - Technology assessments
 - Planning conception
 - Equipment delivery
 - EPC Services

The capacity range of Bio Mass Power Plants is between 5 to 30 MW_{el} and get individually configured, meeting the client's needs.

According to the available fuel, grid fired or fluidized bed fired technology will be used.

MODULAR BIO DIESEL SYSTEMS



ADVANTAGES OF LOHRMANN BIODIESEL PACKAGES

The Oecosys Plant runs completely automatically (24 h / 7 d) without any operator intervention!



- Complete Automation
- Turnkey Technology
- Batch Process
- Separation by Gravity
- Water Flushing
- Certified Plant Safety

Esterification Plant (BioDiesel Container)

The whole process runs in a single tank and is completed after six to eight hours, depending on the quality of the input material. The plant technology is controlled automatically by means of a programmable logic controller (PLC). The process is visualised on a touchscreen monitor. The operator thus has the plant status in his sight at all times. Continuous data recording ensures the process control and reproducible process parameters, consequently minimising the labour and monitoring work. The process can also be telemonitored by means of a data teletransmission system.