DIFFICULTIES and SOLUTIONS for crop residues as feedstock for bioenergy
Our Mission

Green technology is the focus of our future. Our mission is to implement renewable energy systems and demonstrate their sustainability by converting waste into a high-value byproduct.

International consulting
Project design
Feasibility studies
Project management
After-sales service
Financing
R&D
Sectors

**Biochar**

**Pelletizer / Briquetter**
- EnPlus
- Straw
- Husk
- Grain
- Plastic
- Graphite

**Biogas**
- Heat
- Electricity
- Cogeneration
- Steam

**Boiler**
- Hot Air
- Hot Water
- Steam
- Thermic oil

**Dryer**
- Biomass
- Milk whey
- Sludge
- Digestate
- Plastic
Crop residual to biomass fuel

I  Fruit / Vegetable  II  Straw / Husks  III  Pruning / Landscaping

Solutions

Biogas  Animal feed  Boilers

Boilers  Bioplastic

IV  Processing Industry
Raw material preparation

- Trunk feeding
- Bark peeling
- Chipping

Logs of 2.0 - 5.0 m, Ø 100 - 400 mm and a maximum of 20 cm (G20)
Raw material preparation

Drying

Biquetting

Pelletizing

Logs of 2.0 - 5.0 m, Ø 100 - 400 mm and a maximum of 20 cm (G20)
Raw material preparation
EXAMPLE SPAIN
Straw combustion
No slag caking in the combustion chamber for biomasses with low ash melting point
View of the combustion chamber:

180 kW boiler flame burning straw pellets.

Efficient combustion at 1,000 °C with best emission values
Solutions - Multi-Fuel boiler ÖKOTHERM
Solutions - Multi-Fuel boiler ÖKOTHERM

- Poor combustion
- ÖKOTHERM Straw ash
Ceniza

Ceniza de cascarilla

Ceniza de heno