

## Organic waste is a growing challenge

In today's climate, both the private and municipal waste industries are under cost pressure: tough competition and tight budgets are forcing market players to capitalise on potential savings and tap income streams. Against this backdrop, pyrolysis – a tried and tested method of utilising waste with a high thermal value – is gaining ground.

## Pyrolysis is sustainable and eco-friendly

Waste pyrolysis is the thermochemical decomposition of organic material in the absence of oxygen at elevated temperatures. The waste is broken down thermally in indirectly heated rotary kilns, homogenised, and converted into gas and char. Meanwhile, downstream turbine generator sets produce electricity. This method has several advantages over conventional refuse incineration: no harmful substances are produced and the process of exhaust gas cleaning is considerably simplified.

## TechTrade Intl. designs, plans and supplies rotary kiln systems for pyrolysis and other applications

Rotary kiln systems for waste pyrolysis are one of our key areas of business. Our portfolio of products and services does not stop there, however. We use a wide range of directly and indirectly heated rotary kilns for all sorts of applications: drying, pyrolysis/carbonisation, calcination/heating, combustion, cooling, and special applications such as activation, reactivation, degassing and more. Depending on your requirements, we can deliver either complete systems or specific components.

## State of the art waste-to-energy solutions

The technologies we use comply with the very latest standards. We utilise them to generate energy from and dispose of municipal refuse, special waste and various types of sludge.

The most important features of our solutions are:

- stable, largely automated processes
- 24/7 operation
- minimisation of by-products
- compliance with EU norms
- high levels of efficiency
- fast payback time
- low investment costs.

Waste to energy = Waste to value  
Think about it



# TechTrade

## TechTrade Intl. is a technology leader on a global scale

TechTrade International has successfully installed hundreds of systems, making it one of the world's leading companies for rotary kilns. Today's company can trace its technological roots back to PLEQ Plant & Equipment Engineering GmbH, which was initially taken over from Mannesmann Demag AG in 1996 and later became part of the French plant manufacturer Technip S.A. Its successor organisation TechTrade International has been a privately owned, independent limited liability company since 1999.

## Our services are made in Germany our clients are all around the world

Reliability and assured quality are two of our guiding principles. For this reason, the team at our office in Cologne develops and plans all of our projects – as well as often providing support even after completion. We monitor all of the services we outsource. Our employees have a wealth of expertise which is as international as our clientele.

## We develop everything to turnkey stage and beyond, starting with the initial idea

TechTrade International has a strong customer focus. We supply exactly what our clients need from us. As well as developing system solutions, we can contribute components or act as an integrator. Thanks to our experience, we can often identify potential which has previously gone unnoticed – from the initial technical idea to finance.



## Our services at a glance

- Identifying potential and possible uses
- feasibility studies
- basic engineering
- detail engineering
- purchasing products and services as part of the overall project
- managing interfaces
- financial engineering
- structuring project companies
- on-site assembly
- operating the system, after-sales support, service.

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## Our suggestion: let's talk

Arrange a personal meeting for us to discuss your ideas in a spirit of partnership and start turning waste into energy and value.