















The Deurotech Group is committed to the responsible use of our planet's finite resources.

Therefore, we have made it our task to use all the effort of the members of the Deurotech Group and their partners for sustainable, energy-efficient and economic concepts.

LIATZ





The Deurotech Group

The Deurotech Group is a partnership of leading experts in plant engineering and offers turnkey solutions for various industries as well as environmental technologies.

The owner of the Deurotech Group GmbH is the Deuring Group from Bregenz, Austria that is entirely family-owned (www.deuring-group.com).

Wood processing and paper industry

With the acquisition of OSCHATZ Power in 2023, the Deuring Group intended to complete its expertise in the environmental sector.

Particularly in the Deurotech Group's core market segment, the wood processing and paper industry.



Werner Deuring, CEO and owner of the Deurotech Group

Deurotech Profil













Members of = Deurotech Group

Company name

Founding

Registered office

Revenue

Industry

Deurotech Group GmbH
Deurotech® Community Trade Mark

2015

Langenfeld, Germany

approx. 123 Mio. € sales in 2023

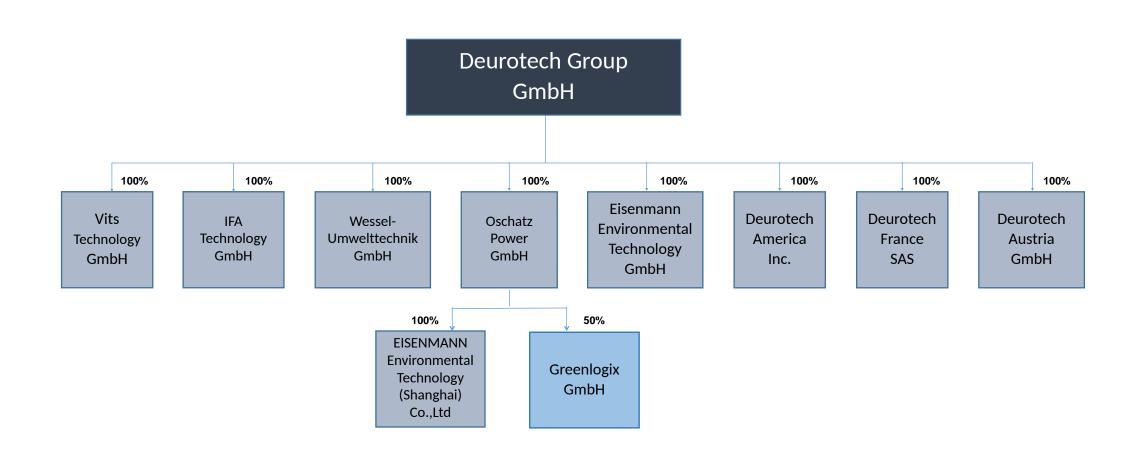


Targeting Efficiency - Excellence in Impregnation, Resin Preparation and Environmental Technologies

Processtechnology, machinery and plant engineering/construction, exhaust air purification, components for the wood processing and paper industry









With effect from 1st of February 2023, the youngest member of the Deurotech group of companies – introducing the **OSCHATZ** Power Ltd.

OSCHATZ Power GmbH is known as an innovative and leading expert for highly efficient solutions for the thermal utilisation of numerous industrial energy sources and fuels.

However, the "youngest" member of the group is the "oldest" in experience.





Founded in 1849

With more than 170 years of experience Oschatz is today a leader in the product areas of chemical industry, non-ferrous industry, iron and steel industry as well as environmental and power plant technology.





Overview



Facts & Figures

Number of projects worldwide: more than 1.200 installed plants

• Experience: 170 years

Worldwide activities: in more than 60 countries

References

■ • BASF We create chemistry	∆Aurubis	CURRENTA Leistung für Chemie und Industrie	lyondellbasell	NEWMONT	thyssenkrupp
CHINALCO	ArcelorMittal	Dow	TATA STEEL	AZOMURES'	% Korea Zinc
PRIMETALS TECHNOLOGIES	AgriPr tein technologies	steag	Teck	CHEMOPROJEKT	B A B A E R
biochemtex	WEIG KARTON	VALE	FIRST QUANTUM MINERALS LIE.	Boehringer Ingelheim	ZWECKVERBAND ABFALLWIRTSCHAFT SO SAALE-ORLA

Company Profile



Technologies

- Solid Fuel fired Power Plants (turnkey solutions)
 - Biomass fired Power-Plants
 - WTS Plants (rejects, RDF from commercial and/or municipal waste, etc.)
- Waste Heat/Gas Recovery and Incineration Technology (turnkey solutions)
 - Oil and gas fired steam generators,
 - Incineration plants for gaseous/liquid waste fuels and residues
- Industrial Heat Recovery
 - Metallurgy
 - Chemical Industry

Services

- Basic & detail engineering
- Process engineering
- Procurement, fabrication supervision, construction
- Site-supervision, commissioning, start-up, training
- After sales services, spare parts, revamps





INCINERATION PLANTS SOLID FUELS

Description

Customized power plants for incineration of municipal and/or sorted waste (RDF), ensuring high levels of productivity and economic efficiency

Applications

- Waste to Energy plants
- Biomass fired Power-Plants
- Paper and sewage sludge



Highlight

optimized and customized design features for competitive solution, with grate- or bubbling fluidized bed systems from 20 to 100 MWth.

OSCHATZ POWER – REFERENCES "Solid Fuels"





Boehringer Ingelheim, Germany, 36 – 68 t/h Biomass, Waste Wood, Sorted Waste – RDF



Chemtex, Italy, 50 MWth, 50 t/h **Biomass (Lignin** from Bioethanol Production)



Andernach, Germany, 60 MWth, 65 t/a
Sorted Waste – RDF



Hagenow, Germany, 30 MWth, 6.8 MWel, 33.5 t/h
Sorted Waste – RDF



ZASO, Germany, 29.5 MWth, 32.7 t/h
Sorted Waste – RDF



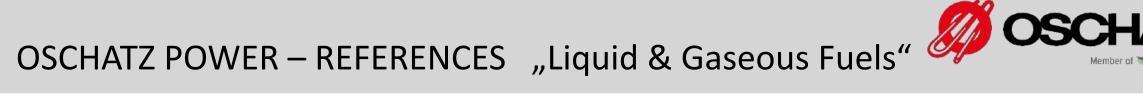
Wilmersdorf, Germany, 29.5 MW, 28 t/h
Biomass – Wood Chips (AI – AIV) – Green Wood



MKG, Germany, 24 MWth, 5 MWel, 27 t/h
Rejects and Paper Sludge



Weig Karton, Mayen, Germany, 15 MWth, 15 t/h Rejects and Paper Sludge





INCINERATION PLANTS LIQUID/GASEOUS FUELS

Description

Direct fired steam boilers, driven by oil and/or gas as well as thermal disposal plants to burn liquid and gaseous waste fuels and residues. Including electrical power generation and process steam production (CHP-Plants)

Applications

- Oil and Gas Fired Steam generators
- Thermal Oxidizer
- Incinerators for liquid and gaseous fuels
- Hazardous Waste
- Salt liquid incineration

Highlight wide experience in combustion of critical liquid and gaseous fuels with hazardous, corrosive and floating solid components



OSCHATZ POWER – REFERENCES "Liquid & Gaseous Fuels" OSCHATZ





BASF, Malaysia, 2 x 100 MWth, 17 Mwel **Natural Gas**



Dow Chemicals, Germany, 2 x 160 MWth **Natural Gas and Hydrogen**



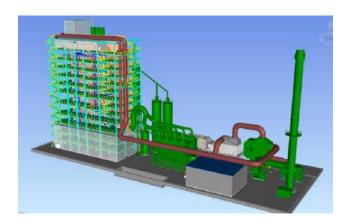
UPM, Germany, 30.5 t/a **Liquid Waste and Natural Gas**



BASF, Ludwigshafen Germany, 33 – 66 t/h **Liquid Waste**



INEOS, Marl, Germany, 31 t/h, Liquid Waste



Lyondell Basell, Netherlands, 105 t/h Salt Wastewater, Natural Gas, Liquid Waste



BASF, Brazil, 98 t/h **Liquid and Gaseous Residues**



CURRENTA, Germany, Rejects, 87 t/h 8 Off-Gas Streams from the chemical park



BASF, China, 150 t/h **Liquid and Gaseous Residues**

OSCHATZ POWER – REFERENCES "Industr. Heat Recovery"



METALLURGY AND CHEMICAL INDUSTRY

Description

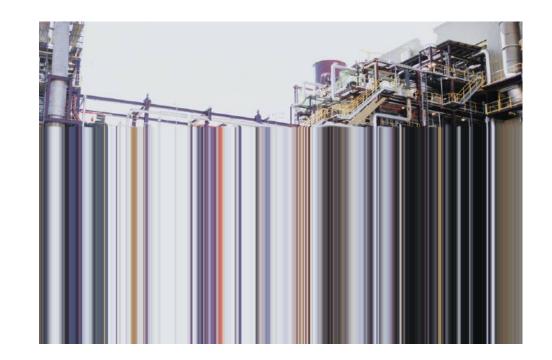
Waste gas cooling systems for the iron and steel industry and the non-ferrous industry

Challenging corrosive off gases with high dust loading.

Core components to cool process gases in nitric acid, sulfuric acid plants and other chemical processes.

Applications

- Oil and Gas Fired Steam generators
- Thermal Oxidizer
- Incinerators for liquid and gaseous fuels
- Hazardous Waste
- Salt liquid incineration
- Sulfuric acid plants
- Nitric acid, caprolactam and hydroxylamine plants



Highlight > 200 cooling hoods supplied for the steel industry, extensive experience in all non-ferrous processes. World market leader with more than 200 installed systems for Nitric Acid plants

OSCHATZ POWER – REFERENCES "Industr. Heat Recovery"





Yunnan Copper, China, 45 t/h
Offgas rate 70.000 Nm³/h



Aurubis AG, Germany, 25.5 t/h
Offgas rate 40.000 Nm³/h



Western Mining Corporation, Australia, 60.5 t/a
Offgas rate 51.700 Nm³/h, Sulfation air rate 11.000 Nm³/h



Mount Isa Mines, Australia, 27 t/h
Offgas rate 38.880 Nm³/h



Aurubis AG, Germany, 65 t/h
Offgas rate 76.000 Nm³/h



Tata Steel, Europe, 20 – 75 t/h
Flue-Gas Quantity, 20.000 Nm³/h



Arcelor Mittal, Europe, 35 – 40 t/h
Off-Gas Quantity, max. 180.000 Nm³/h



Thyssen Krupp Steel, 239 t/h
Off-Gas Quantity, max. 173.500 Nm³/h



Jinan Iron & Steel Group, China, 39 t/h Waste Gas Quantity, 115.000 Nm³/h





Let's talk about waste

The potential of small RDF plants







































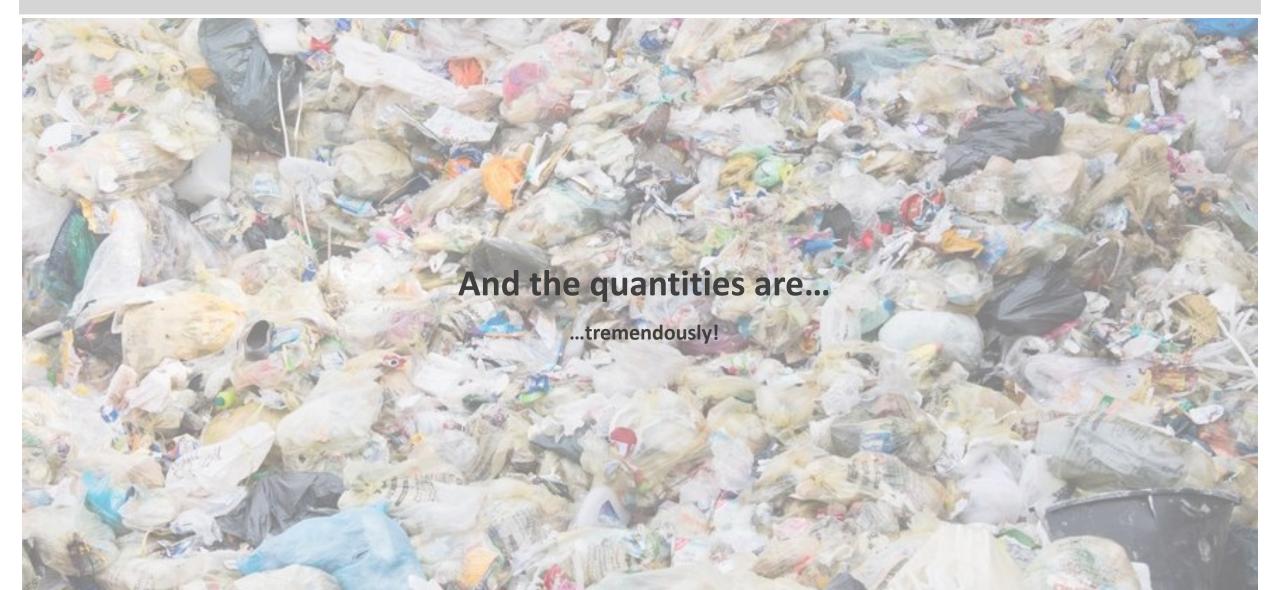
...a question of time

One day it will be waste

...for sure!

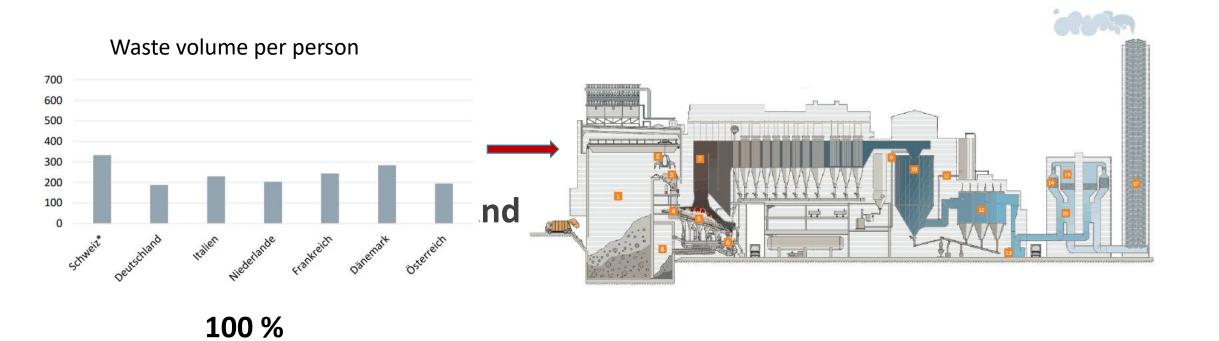






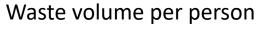


The potential of small RDF plants





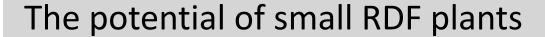






Selective collection and separation



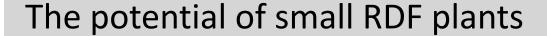




The growing problem of disposal

- The disposal of waste materials is becoming a massive cost factor, as landfill sites are limited.
- The export of waste is becoming more difficult or even prohibited.







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- The disposal of waste materials is becoming a massive cost factor, as landfill sites are limited.
- The export of waste is becoming more difficult or even prohibited.
- Residual fuels (RDF) are a broad term. High-calorific RDF fuels (>13 MJ/kg) are separated in the recycling process and can be sold for a fee e.g. to cement factories.
- Low-caloric RDF fuels (<13 MJ/kg) are the final output of the recycling process. We call it "organic rich rest-fraction", others may say "poor RDF". Somebody has to pay a gate-fee to have it disposed – in waste incineration plants.







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