

REMONDIS®

Your Partner For Water And Environmental Services
And For Biogas In The Waste Sector



RETHMANN-Group

RETHMANN AG & Co. KG

Water and Lifecycle

- Public Private Partnership
- Company Partnership
- Recycling and Production
- Logistics and Plants

REMONDIS®

Logistic

- Contract Logistics
- Freight Logistics
- Port Logistics
- Public Transport

The logo for Rhenus Logistics, featuring a stylized blue square icon to the left of the text "RHENUS LOGISTICS" in blue.





Bio-Industries

- Rendering of animal by-products
- Petfood Industry
- Regenerative Energy

SARIA®

Revenue and Employees



							
Water and Circular Flow Economy		Logistics		Bio-Industries		Corporate Group	
Revenue (2007)	3,944 Mio. €	Revenue (2007)	2,633 Mio. €	Revenue (2007)	644 Mio. €	Revenue (2007)	7,221 Mio. €
Revenue (2008)	5,600 Mio. €	Revenue (2008)	3,100 Mio. €	Revenue (2008)	700 Mio. €	Revenue (2008)	9,400 Mio. €
Employees (2007)	16,865	Employees (2007)	15,665	Employees (2007)	3,603	Employees (2007)	36,133
Employees (2008)	18,800	Employees (2008)	17,700	Employees (2008)	3,800	Employees (2008)	40,300

All figures (in this presentation) are consolidated

We are one of the leading Water And Environmental Services Companies. The main facts summarised



- REMONDIS offers a far reaching network with **over 500 sites worldwide**
- REMONDIS is present in **21 European countries** as well as **China, India, Australia and New Zealand**
REMONDIS **services** municipalities with over a total of **20 million inhabitants**
- REMONDIS runs more than **6,000 commercial vehicles**
- REMONDIS collects, processes and markets more than **25 million t/a of recyclable materials**.
1.177 Mio. t/a of these are **sewage sludge** and **1.320 Mio. t/a** are **bio and green waste**
- REMONDIS operates over **500 own facilities** for Sorting, Treatment and Processing

The Company

A Chronicle – Selective Milestones in History

- 1934:** Founding of the Company as **Rethmann**
- 1982:** First overseas branch in Penrith, **Australia**
- 1993:** Takeover of the **Lippe Facility**; today the largest centre for industrial circular-flow economy in Europe
- 1997:** Start of the **largest PPP in Germany** in Frankfurt am Main
- 1999:** Extension of the range of services to include the production & supply of drinking **water**
- 2000:** Increasing Importance of **Public Private Partnership** and Company Partnership
- 2001:** Expansion in **waste incineration plants**
- 2002:** Expansion into **Poland** through acquisitions and founding of Public Private Partnerships
- 2004:** Takeover of 70 % of the business volume of **RWE Umwelt AG** (market leader in Germany)
- 2005:** Change of company name to **REMONDIS**
- 2006:** Takeover of the **TSR Group**, German market leaders within the field of steel scrap and non-ferrous metal recycling
- 2007:** Extension of the size in Hungary, entered the market in the **Ukraine** as the majority shareholder of a PPP company in Saporoshje. Both in the waste sector.
- 2009:** Market entry in **New Zealand** in **Russia** in Dzershinsk, in Wellington and in **India** in Pune, all in the waste sector.
- 2010:** Market entry in **Turkey** in Izmir and Istanbul and in **Spain** in the water sector.

The Company

Activities in 26 Countries

Europe:

- Austria
- Belgium
- Bulgaria
- Czech Republic
- Estonia
- France
- Germany
- Great Britain
- Hungary
- Ireland
- Italy
- Netherlands
- Poland
- Romania
- Russia
- Slovak Republic
- Spain
- Sweden
- Switzerland
- Turkey
- Ukraine

Asia:

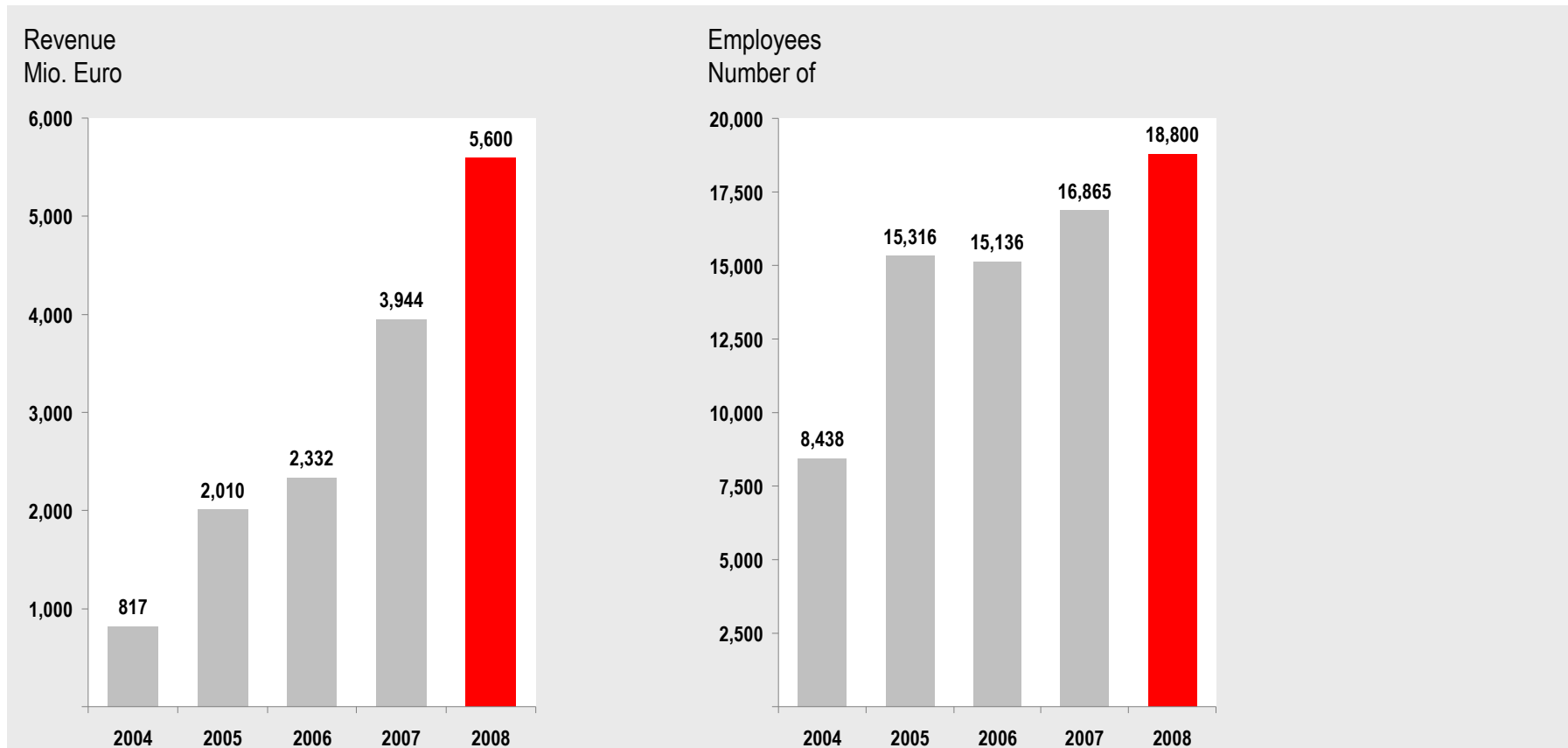
- China
- India
- Japan
- Taiwan

Australia/Oceania:

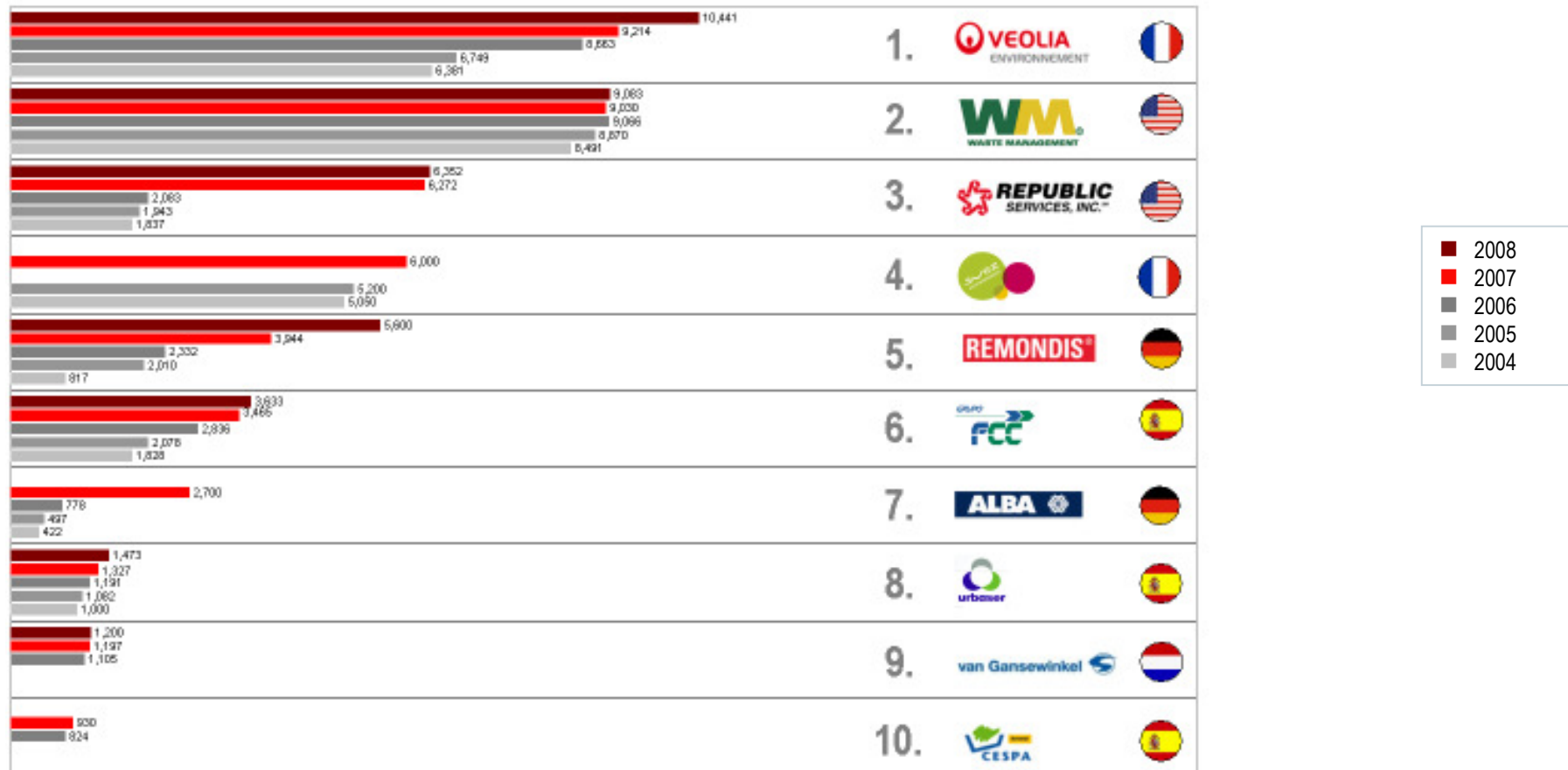
- Australia
- New Zealand

In Green: Potential biogas countries for REMONDIS

Operation figures (consolidated)



Competitive Situation – the turnover of environmental service companies (international) in € million

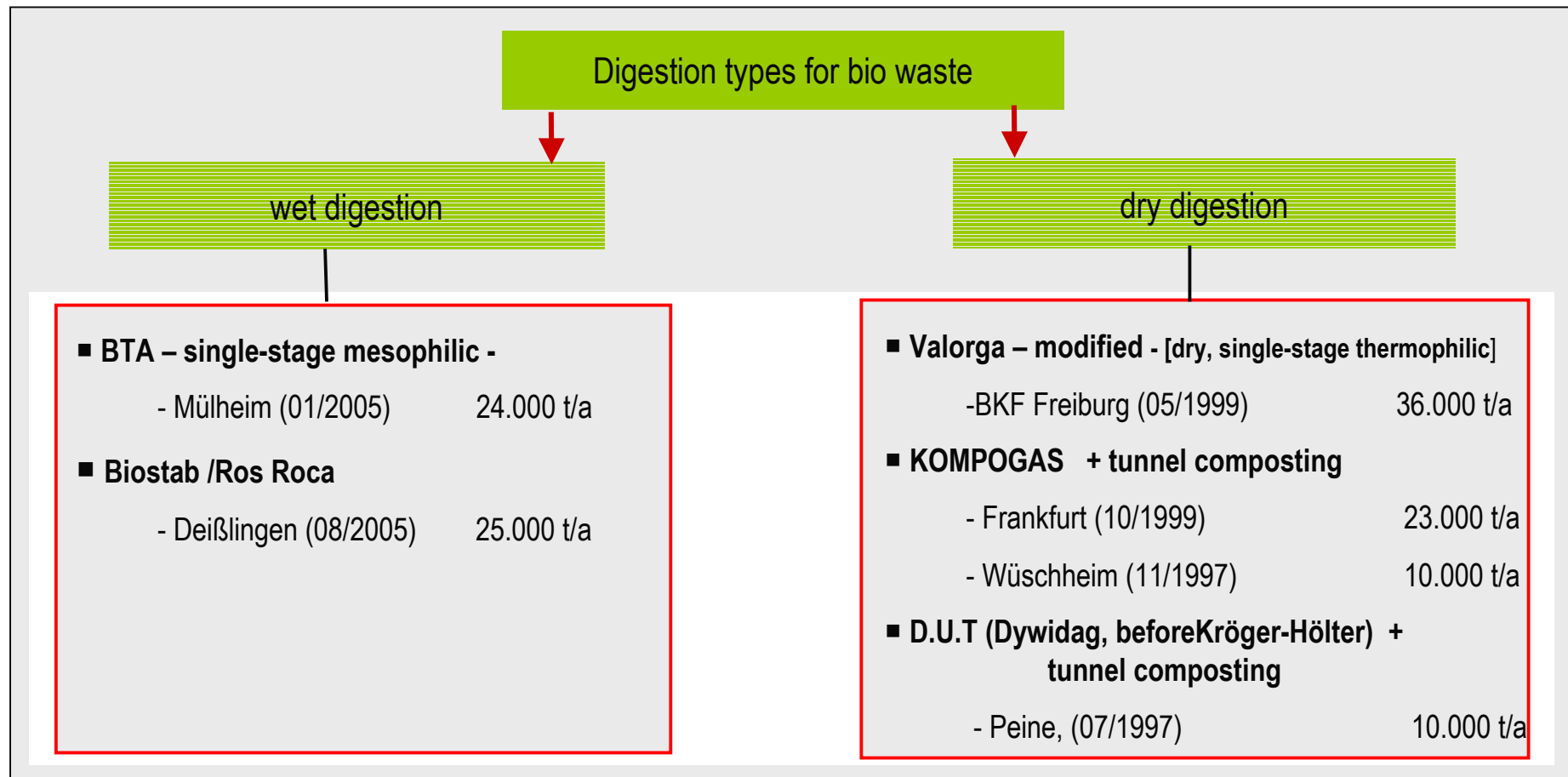


Facts & Figures, Facilities

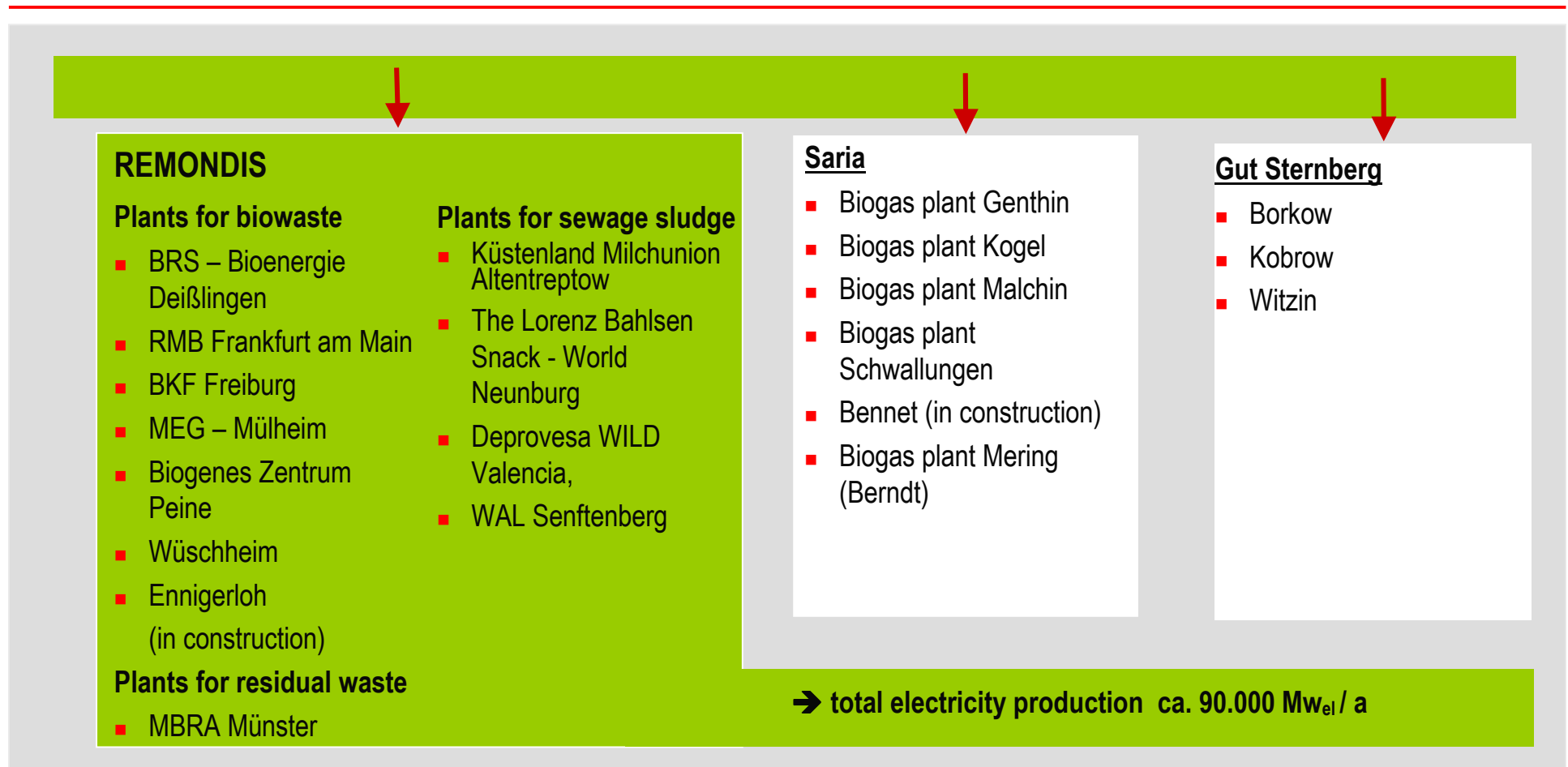
Examples from A to Z	Number
Commercial waste processing facilities	39
Composting/anaerobic digestion facilities	56
Construction waste processing plants	24
Data carrier destruction facilities	19
Glass processing facilities	7
Hazardous waste processing facilities	54
Landfills	39
Paper sorting facilities	62
Photographic chemical treatment facilities	10
Plastics processing facilities	5
Residual waste processing facilities, mechanical/biological	13
Sewage treatment facilities	62
Solvents treatment facilities	2
Sorting plants for light packaging	23
Waste treatment plants, thermal	16
Waste-derived fuel production facilities	11
WEEE dismantling centres	8
Wood processing facilities	12



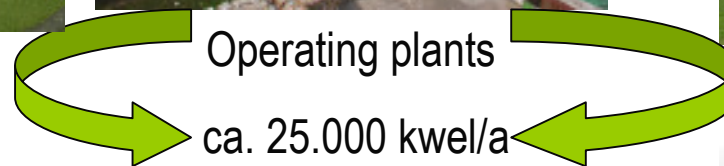
Biogas plants – Facilities in the REMONDIS-Group



Biogas plants – Facilities in the REMONDIS-Group



Waste biogas plants – Facilities in the REMONDIS-Group



Composting and digestion plant Frankfurt

Owner	FES Frankfurter Entsorgungs- und Service GmbH
Start of operation	01.10.1999
Allowed capacity for digestion (t/a)	18.000
Capacity, remarks	10.000 t/a Umschlag
Total area of the facility (m²)	13.000
Allowed waste types	Garden and park waste, bio waste, market waste, liquids from fat separators
Type of digestion	Single-stage digestion with Kompogas technique
Size of the digestion (m³)	1700 brutto, 1300 usable volume
Block heat and power plant (BHKW) (kWel)	500
Average electricity production	1.900.000
Products	Biogas, mature and fresh compost (Fertig- und Frischkompost)
Total number of employees	10



Biowaste digestion plant BRS-Bioenergie, Deißlingen

Owner	BRS Bioenergie GmbH
Start of operation	BRS Bioenergie GmbH
Allowed capacity for digestion (t/a)	01.08.2005
Capacity, remarks	25.000
Total area of the facility (m²)	15.000
Allowed waste types	bio waste from municipal collection, brown bin
Type of digestion	wet digestion, postmaturation subsequent decomposition (Nachrotte Miete)
Size of the digestion (m³)	3.400
Block heat and power plant (BHKW) (kWe)	840
Average electricity production	6.000.000
Products	Biogas, Rest of digestion for postmaturation subsequent decomposition (Gärrest zur Nachkompostierung)
Total number of employees	4



Biowaste composting and digestion plant, BKF Freiburg

Owner	Remondis Süd
Start of operation	01.05.1999
Allowed capacity for digestion (t/a)	36.000
Capacity, remarks	
Total area of the facility (m²)	10.000
Allowed waste types	garden and park waste, bio waste, market waste, some more waste types
Type of digestion	single-stage thermophilic digestion with the technique of Vallorga
Size of the digestion (m³)	4.000 (brutto)
Block heat and power plant (BHKW) (kWel)	1.800
Average electricity production	8.500.000
Products	9.000 t/a compost, liquid compost, liquid fertilizer, Ammoniumsulfat
Total number of employees	11



Digestion plant, MEG - Mülheim

Owner	MEG Mülheimer Entsorgungsgesellschaft mbH
Start of operation	01.01.2005
Allowed capacity for	24.000
Capacity, remarks	10.000
Total area of the facility (m²)	50.000 gesmt MEG (4.400 digestion)
Allowed waste types	bio waste, market waste and organic waste from production processes
Type of digestion	single-stage mesophilic wet-digestion
Size of the digestion (m³)	3.500
Block heat and power plant	650
Average electricity	3.000.000
Products	Biogas, Rest of digestion treated in composting process
Total number of employees	10



Composting and digestion plant Peine

Owner	Biogenes Zentrum Peine GmbH
Start of operation	24.07.1997
Allowed capacity for digestion (t/a)	10.000
Capacity, remarks	Total capacity: 34.000 t/a
Total area of the facility (m²)	59.200
Allowed waste types	garden and park waste, bio waste
Type of digestion	digestion and tunnel composting
Size of the digestion (m³)	1.500
Block heat and power plant (BHKW) (kWel)	2 x 200
Average electricity production	2.000.000
Products	fresh, mature and Mulch compost
Total number of employees	10



Composting and digestion plant Wüschheim

Owner	Remondis GmbH, Region Südwest
Start of operation	01.11.1997
Allowed capacity for	10.000
Capacity, remarks	ca. 3.000 t/a
Total area of the facility	5.650
Allowed waste types	garden and park waste, bio waste
Type of digestion	single-state dry fermentation, thermophilic, composting at the end for further 10 days
Size of the digestion (m³)	1000
Block heat and power	2 x 215
Average electricity production	1.680.000
Products	mature compost, NPK-fertilizer (liquid)
Total number of employees	4



Aims for this meeting: Learning from Sweden

- Swedish biogas operators, plant builders and suppliers are world wide leading in these sector
- REMONDIS is not a plant builder. REMONDIS is an operator and market developer
- REMONDIS realized that in more and more foreign countries the digestion sector is booming in various ways
- ➔ REMONDIS wishes to learn from the best and therefor is looking for opportunities to co-operate in the following sectors in foreign countries:
 - Feeding the biogas into the natural gas net (unusal in Germany) and/or
 - Tanking waste trucks with biogas (not used in Germany) by
 Digestion of seperate collected bio waste, green waste, food waste and fine fraction of sorting processes for mixed municipal waste (f.e. in Poland)