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ALL FROM ONE COMPANY – FROM THE DESIGN TO COMMISSIONING



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## MECHANICAL-BIOLOGICAL WASTE TREATMENT (MBT) PLUS MUNICIPAL SOLID WASTE (MSW) TREATMENT





#### Municipal sorting waste plant Fredrikstad, Norway

Location Plant Plant capacity Commissioning Client Fredrikstad, Norway Mechanical waste treatment of MSW 120,000 Mg/a 2025 Østfold Avfallssortering, Fredrikstad, Norway

#### Waste management plant Olszowa, Poland

Location Plant

Plant capacity Commissioning Client Olszowa, Poland Mechanical and biological waste treatment of MSW 50,000 Mg/a 2022 Zakład Zagospodarowania Odpadów Olszowa Sp. z o.o., Olszowa, Poland

#### Municipal sorting waste plant Stockholm, Sweden

Location Plant Plant capacity Commissioning Client Stockholm, Sweden Mechanical waste treatment of MSW 140,000 Mg/a / 45 Mg/h 2020 SÖRAP, Stockholm, Sweden

#### Waste management centre Bielsko-Biala, Poland

Location Plant Plant capacity Modernization Commissioning Client Bielskio-Biała, Poland Mechanical waste treatment of MSW 75,000 Mg/a 2019 2012 Zakład Gospodarki Odpadami S.A., Bielsko-Biała, Poland



#### Waste management centre Radom, Poland

Location Plant

Plant capacity

Modernization Commissioning Client Radom, Poland Household waste treatment System Biofix Sorting plant: 210,000 Mg/a Composting plant: 42,000 Mg/a 2019 2008 PPUH RAdkom, Radom, Poland

#### Municipal sorting waste plant Brześć Kujawski, Poland

Location Plant Plant capacity

Modernization Client Brześć Kujawski, Poland Mechanical waste treatment of MSW 60,000 Mg/a mixed MSW 5,000 – 6,000 Mg/a presorted waste 2018 Przedsiębiorstwo Gospodarki Odpadami, Kujawski, Poland

#### Municipal sorting waste plant Kharkiv, Ukraine

Location Plant

Plant capacity

Modernization Client Kharkiv, Ukraine Procurement of construction on municipal solid waste, treatment facility including system of landfill gas collection and power generation 80,000 Mg/a MSW 40,000 Mg/a presorted waste 2018 Utility Company "Kharkiv Municipal Company for Waste Management", Kharkiv, Ukraine

#### Municipal sorting waste plant Bydgoszcz, Poland

Location Plant Plant capacity Modernization Client Bydgoszcz, Poland Municipal solid waste treatment 20 Mg/h presorted waste 2018 ProNatura, Bydgoszcz, Poland



#### Municipal sorting waste plant Stavanger, Norway

Location Plant

Plant capacity

Commissioning Client Stavanger, Norway Municipal solid waste treatment for receipt of recyclables 40 Mg/h MSW 14 Mg/h Paper 2018 IVAR, Stavanger, Norway

#### Waste management centre Krakow, Poland

Location Plant Plant capacity

Modernization Commissioning Client Krakow, Poland Mechanical waste treatment of MSW 55,000 Mg/a 9,000 Mg/a glas 2018 2013 Miejskie Przedsiębiorstwo Oczyszczania, Krakow, Poland

#### Waste management centre Kielce, Poland

Location Plant

Plant capacity

Commissioning Client Promnik near Kielce, Poland Municipal solid waste treatment Composting System Biofix Sorting plant: 29 Mg/h,100,000 Mg/a Composting plant: 25,000 Mg/a 2016 Przedsiębiorstwo Gospodarki Odpadami Kielce, Poland

#### Waste management centre Gać, Poland

Location Plant Plant capacity Commissioning Client Gać, Poland Mechanical waste treatment of MSW 60,000 Mg/a 2003, 2010 and 2015 Zakład Gospodarowania Odpadami Gać, Poland



#### Waste management centre Tychy, Poland

Location Plant Plant capacity Commissioning Client Tychy, Poland Municipal solid waste treatment Sorting plant: 22 Mg/h, 78,000 Mg/a 2014 Master-Waste and Energia Tychy, Poland

#### Waste management centre Tczew, Poland

Location Plant

Plant capacity

Commissioning Client Tczew, Poland Household waste treatment Composting System Biofix Sorting plant: 75,000 Mg/a Composting plant: 35,000 Mg/a 2013 Zakład Utylizacji Odpadów Stałych Tczew, Poland

#### Waste management centre Ostroda, Poland

Location Plant

Plant capacity

Commissioning Client Rudno near Ostróda, Poland Household waste treatment Composting System Biodegma Sorting plant: 65,000 Mg/a Composting plant: 27,000 Mg/a 2013 Zakład Odpadów Komunalnych Rudno, Rudno, Poland

#### Waste management centre Elblag, Poland

Location Plant

Plant capacity

Commissioning Client Elblag, Poland Household waste treatment Composting System Biodegma Sorting plant: 75,000 Mg/a Composting plant: 28,000 Mg/a 2012 Zakład Utylizacji Odpadów, Elbląg, Poland



#### Sorting plant Baku, Azerbaijan

Location Plant Plant capacity Commissioning Client Baku, Azerbaijan Sorting plant for MSW 80,000 Mg/a 2012 Adelmann, Karlstadt, Germany

#### Waste management centre Sosnowiec, Poland

Location Plant Plant capacity

Commissioning Client Sosnowiec, Poland Household waste treatment Sorting plant: 70,000 Mg/a Composting plant: 13,000 Mg/a 2012 Skladowania Odpadow, Sosnowiec, Poland

#### Waste management centre Rudno, Poland

Location Plant Plant capacity

Commissioning Client Rudno, Poland Household waste treatment Sorting plant: 60,000 Mg/a Composting plant: 27,000 Mg/a 2012 Komunalnych Rudno, Rudno, Poland

#### Waste management centre Bialystok, Poland

Location Plant Plant capacity Commissioning Client Studzianki near Białystok, Poland Mechanical waste treatment of MSW 100,000 Mg/a 2011 P.P.U.H. Czyściochin Białystok, Poland



#### Pre-treatment plant Linz, Austria

Location Plant

Plant capacity Commissioning Client Linz, Austria Mechanical treatment of residuals of MBT, industrial waste, household waste waste before thermal treatment 225,000 Mg/a 2011 Linz Strom, Austria

#### Waste management centre Elk, Poland

Location Plant

Plant capacity Commissioning Client Siedliska near Ełk, Poland Household waste treatment Composting System Biofix Sorting plant: 35,000 Mg/a Composting plant: 21,000 Mg/a 24.5 Mg/h 2010 Przedsiębiorstwo Gospodarki Odpadami "EKO-Mazury" in Siedliska, Ełk, Poland

#### Waste management centre Warsaw, Poland

Location Plant Plant capacity Commissioning Client Warsaw, Poland Mechanical waste treatment of MSW 225,000 Mg/a (per 3 shifts) 2010 Byś-Wojciech Byśkiniewicz, Warszawa, Poland

#### Waste management centre Kalisz, Poland

Location Plant

Plant capacity Commissioning Client Orli Staw near Kalisz, Poland Household waste treatment System Biofix Composting plant: 80,000 Mg/a 2006 Związek Komunalny Gmin "Cczyste Miasto, Czysta Gmina", Kalisz, Poland



#### Waste management centre Großefehn, Germany

Location Plant Plant capacity Commissioning Client Großefehn, Lower Saxony, Germany Household, industrial and bulky waste 30 Mg/h 2005 Heilit Umwelttechnik, Düsseldorf, Germany

#### AEZ Erbenschwang, Germany

Location Plant

Plant capacity Commissioning Client Erbenschwang, Bavaria, Germany Mechanical Treatment of Residual waste System Biofix 40,000 Mg/a First commissioning 1997, modification 2005 Erbenschwanger Verwertungs- und Abfallentsorgungs-Gesellschaft, Schongau, Germany

#### Mechanical-biological waste treatment plant Neuss, Germany

Location Plant Plant capacity Commissioning Client Neuss, North Rhine-Westphalia, Germany MBT 206,000 Mg/a 2001 EGN, Grevenbroich, Germany

#### Waste management centre Singhofen, Germany

Location Plant Plant capacity Commissioning Client Singhofen, Rhineland-Palatinate, Germany Mechanical and biological waste treatment 45 Mg/h 2000 Rhein-Lahn-Kreis Abfallwirtschaft, Bad Ems, Germany



#### Waste management centre Bassum, Germany

Location Plant Plant capacity Commissioning Client Bassum, Lower Saxony, Germany Mechanical and biological waste treatment 60,000 Mg/a 1997 Sotec, Saarbrücken, Germany

#### Waste management centre Düren, Germany

Location

Plant Plant capacity Commissioning Client Düren-Horm, North Rhine-Westphalia, Germany Mechanical and biological waste treatment 180,000 Mg/a 1995 Dürener Deponiegesellschaft (DDG), Düren, Germany





## PLASTIC AND PACKAGING WASTE SORTING PLANTS FOR PACKAGING WASTE, PLASTIC TREATMENT





#### Sorting plant for plastics Krefeld, Germany

Location Plant Capacity Commissioning Client

Krefeld, Germany Sorting of packaging waste from MSW 8.5 Mg/h 2025 EGN Entsorgungsgesellschaft Niederrhein, Viersen, Germany

#### LWP-Sorting plant Enns, Austria

Location Plant Capacity Commissioning Client Enns, Austria Sorting plant for light weight packaging (LWP) 100,000 Mg/a 2024 Bernegger / ARA / Grüner Punkt, Enns, Austria

#### LWP-Sorting plant Oslo, Norway

Location Plant Capacity Commissioning Client Oslo, Norway Sorting plant for MSW / plastics 20 Mg/h 2024 Plastretur, Oslo, Norway

#### Sorting plant for plastics Bochum, Germany

Location Plant Capacity Commissioning Client Bochum, Germany Sorting plant for plastics 6 Mg/h 2023 RE Plano GmbH, Lünen, Germany

#### Plastic Recycling Facility Site Zero, Motala, Sweden

LocationMotala, SwedenPlantSecond plant in Motala, sorting plant for<br/>packaging waste, 12 different output fractionsPlant capacity200,000 Mg/a (together with the first plant)Commissioning2023 (first plant 2019)ClientSvensk Plaståtervinning, Motala, Sweden



#### LWP-Sorting plant Vechta, Germany

Location Plant Plant capacity Commissioning Client Vechta, Germany Film sorting in various fractions 7 Mg/h, 3-shift operation 2021 SL Recycling, Vechta, Germany

#### PDM Sorting Zwolle, The Netherlands

Location Plant Plant capacity Commissioning Client Zwolle, The Netherlands PDM Sorting 110,000 Mg/a 2019 PreZero Wertstoffmanagement Porta Westfalica, Germany

#### Modification LWP-Sorting plant Oppin, Germany

Location Plant Plant capacity Modernisation Commissioning Client Oppin, Saxony-Anhalt, Germany Sorting plant for light weight packaging (LWP) 15 Mg/h 2019 2008 Tönsmeier Service, Porta Westfalica, Germany

#### Treatment plant for plastics from refrigerators Lünen, Germany

Location Plant Plant capacity Commissioning Client Lünen, North Rhine-Westphalia, Germany Treatment plant for plastics from refrigerators 3 Mg/h 2018 RePlano, Lünen, Germany

#### LWP-Sorting plant Swisttal, Germany

LocationSwisttal, North Rhine-Westphalia, GermanyPlantSorting plant for light weight packaging (LWP)Plant capacity21 Mg/hCommissioning2018ClientHündgen Entsorgungs, Swisttal, Germany



#### Sorting plant for light weight packaging Gernsheim, Germany

Location Plant Plant capacity Commissioning Client Gernsheim, Hesse, Germany Sorting plant for light weight packaging (LWP) 22 Mg/h 2018 Meilo, Gernsheim, Germany

#### Automatic sorting plant, Singapore

Location Plant Plant capacity Commissioning Client Singapore Sorting plant for light weight packaging (LWP) 10 Mg/h 2014 Colex, Singapore

#### Automatic sorting plant Iserlohn, Germany

Location

Plant Plant capacity Commissioning Client Iserlohn, North Rhine-Westphalia, Germany Sorting plant for light weight packaging (LWP) 18 Mg/h 2014 Lobbe, Iserlohn, Germany

#### Automatic sorting plant Bochum, Germany

Location

Plant Plant capacity Commissioning Client Bochum, North Rhine-Westphalia, Germany Sorting plant for light weight packaging (LWP) 12 Mg/h 2010 Remondis, Lünen, Germany

#### Automatic sorting plant Soltau, Germany

LocationSoltau, Lower Saxony, GermanyPlantSorting plant for light weight packaging (LWP)Plant capacity8 Mg/hCommissioning2007ClientAbfallbeseitigung H.Cohrs, Soltau, Germany



#### Automatic sorting plant Würzburg, Germany

Location Plant Plant capacity Commissioning Client Würzburg, Bavaria, Germany Sorting plant for light weight packaging (LWP) 7 Mg/h 2007 Würzburger Recycling, Germany

#### Modification sorting plant Detmold, Germany

Location Plant Plant capacity Commissioning Client Detmold, North Rhine-Westphalia, Germany Sorting plant for light weight packaging (LWP) 8 Mg/h 2006 DST-Wertstoffsortierung & Recycling Detmold, Germany

#### Automatic sorting plant Karditsa, Greece

Location Plant Plant capacity Commissioning Client Karditsa, Greece Sorting plant for commingled waste 5 Mg/h 2005 HE.R.R.Co., Kifissia, Greece

#### Modification sorting plant Herne, Germany

Location Plant Plant capacity Commissioning Client

Herne, North Rhine-Westphalia, Germany Sorting plant for light weight packaging (LWP) 12 Mg/h 2005 Veolia, Herne, Germany

#### Modification automatic sorting plant Breinermoor, Germany

Location Plant Plant capacity Commissioning Client Breinermoor, Lower Saxony, Germany Sorting plant for light weight packaging (LWP) 9 Mg/h 2005 GMA, Wangerland, Germany



#### Modification automatic sorting plant Troisdorf, Germany

Location

Plant Plant capacity Commissioning Client Troisdorf, North Rhine-Westphalia, Germany Sorting plant for light weight packaging (LWP) 8 Mg/h 2002 Remondis, Lünen, Germany

#### Modification automatic sorting plant Essen, Germany

Location Plant Plant capacity Commissioning Client Essen, North Rhine-Westphalia, Germany Sorting plant for light weight packaging 7 Mg/h 2001 Remondis, Lünen, Germany

#### Automatic sorting plant Cologne-Rodenkirchen, Germany

Location

Plant Plant capacity Commissioning Client Cologne-Rodenkirchen, North Rhine-Westphalia, Germany Sorting plant for light weight packaging 4 Mg/h 2001 Remondis, Lünen, Germany

#### Sorting plant Backnang, Germany

Location

Plant Plant capacity Commissioning Client Backnang, Baden-Wuerttemberg, Germany Sorting plant for light weight packaging 3 Mg/h 1999 Veolia, Filderstadt, Germany



#### Sorting plant Speyerdorf, Germany

Location

Plant Plant capacity Commissioning Client Speyerdorf, Baden-Wuerttemberg, Germany Sorting plant for light weight packaging 3 Mg/h 1999 Veolia, Filderstadt, Germany

#### Sorting plant Achern, Germany

Location Plant Plant capacity Commissioning Client Achern, Baden-Wuerttemberg, Germany Sorting plant for light weight packaging (LWP) 4 Mg/h 1998 Mittelbadische Entsorgungs- und Recyclingbetriebe, Bietigheim, Germany





## MRF (MATERIAL RECOVERY FACILITIES)

SORTING PLANTS FOR DRY VALUABLE SUBSTANCES FROM DOMESTIC WASTE





#### Treatment plant for MSW Hamburg, Germany

Location Plant

Capacity Commissioning Client Hamburg, Germany MWS treatment plant for the collection of recyclable materials 145,000 Mg/a, 33 Mg/h 2026 Stadtreinigung Hamburg, Germany

#### MRF Tuas, Singapore

Location Plant

Capacity Commissioning Client Tuas, Singapore Sorting plant for recyclable materials before incineration 77,500 Mg/a 2026 ST Engineering Marine Ltd., Singapore

# Sorting plant for MSW and dry valuable substances Altens East, Scottland

Location Plant

Capacity Commissioning Client Aberdeen, Scottland Sorting plant for MSW and dry valuable substances 33,000 Mg/a 2025 Suez Recycling and Recovery UK, Berkshire, United Kingdom

# Sorting plant for MSW and dry valuable substances Santiago de Chile, Chile

Location Plant

Capacity Commissioning Client Santiago de Chile, Chile Sorting plant for MSW and dry valuable substances 30,000 Mg/a, 7 Mg/h (two-shift-operation) 2023 Ambipar, Santiago de Chile, Chile



#### MRF Porto, Portugal

Location Plant

Capacity Commissioning Client Porto, Portugal Sorting of recyclable materials from packaging waste 35,000 Mg/a, 8 Mg/h 2023 Lipor, Baguim do Monte, Spain

#### Modification Bockenberg, Germany

Location Plant Plant capacity Commissioning Client Bockenberg, North Rhine-Westphalia, Germany Sorting plant for recyclables 16 Mg/h 2019 AVEA, Leverkusen, Germany

#### MRF Southwark, London, United Kingdom

Location Plant Plant capacity Commissioning Client Southwark, London, United Kingdom Mechanical waste treatment 25 Mg/h 2012 Veolia, United Kingdom

#### MRF West-Berkshire, United Kingdom

Location Plant Plant capacity Commissioning Client

Berkshire, United Kingdom Mechanical waste treatment 15 Mg/h 2011 Veolia, United Kingdom

#### MRF Swanley, United Kingdom

Location Plant Plant capacity Commissioning Client Swanley, United Kingdom Mechanical waste treatment 15 Mg/h 2011 Ideal Waste, United Kingdom



#### MRF Mansfield, United Kingdom

Location Plant Plant capacity Commissioning Client Mansfield, United Kingdom Mechanical waste treatment 25 Mg/h 2009 Veolia, United Kingdom

#### MRF Newcastle, United Kingdom

Location Plant Plant capacity Commissioning Client Newcastle, United Kingdom Mechanical waste treatment 15 Mg/h 2009 Sita UK, United Kingdom

#### MRF Rainham, United Kingdom

Location Plant Plant capacity Commissioning Client Rainham, United Kingdom upgrade, glass treatment added 22 Mg/h 2009 Veolia, United Kingdom

#### MRF Brighton, United Kingdom

Location Plant Plant capacity Commissioning Client Brighton, United Kingdom Mechanical waste treatment 15 Mg/h 2008 Veolia, United Kingdom

#### MRF Caythorpe, United Kingdom

Location	Caythorpe, United Kingdom
Plant	Mechanical waste treatment
Plant capacity	15 Mg/h
Commissioning	2008
Client	MID UK, United Kingdom



#### MRF Reading, United Kingdom

Location Plant Plant capacity Commissioning Client Reading, United Kingdom Mechanical waste treatment 15 Mg/h 2008 AECOM/RE3, United Kingdom

#### Autoclave Rotherham, United Kingdom

Location Plant Plant capacity Commissioning Client Rotherham, United Kingdom Mechanical waste treatment 80,000 Mg/a 2008 Sterecycle, United Kingdom

#### MRF Alton, United Kingdom

Location Plant Plant capacity Commissioning Client Alton, United Kingdom Mechanical waste treatment 24 Mg/h 2004 Veolia, United Kingdom

#### MRF Greenwich, United Kingdom

Location Plant Plant capacity Commissioning Client Greenwich, United Kingdom Mechanical waste treatment 50,000 Mg/a 2004 Veolia, United Kingdom

#### MRF Grundon, United Kingdom

Location Plant Plant capacity Commissioning Client Grundon, United Kingdom Mechanical waste treatment 14 Mg/h 2003 Grundon Waste Management, United Kingdom



### MRF Rainham, United Kingdom

Location Plant Plant capacity Commissioning Client Rainham, United Kingdom Mechanical waste treatment 50,000 Mg/a 2001 Veolia, Brentwood, United Kingdom





# **REFUSE DERIVED FUEL (RDF)** TREATMENT PLANTS FOR REFUSE DERIVED FUEL (SRF/RDF)





#### Commercial waste treatment plant Hannover, Germany

Location Plant

Plant capacity Commissioning Client Hannover, Germany Commercial treatment plant for the production of SRF 24 Mg/h 2021 Noris Entsorgung, Germany

# Sorting plant for commercial waste & construction and demolition waste Hannover, Germany

Location Plant

Plant capacity Commissioning Client Hannover, Germany Sorting plant for industrial waste and construction and demolition waste producing RDF 30 Mg/h 2018 Tönsmeier Entsorgung, Germany

#### Commercial waste treatment plant Rugby, United Kingdom

Location Plant

Plant capacity Commissioning Client Rugby, United Kingdom Treatment plant for commercial and municipal solid waste for the production of SRF 55 Mg/h commercial and domestic waste 2015 Sita UK, United Kingdom

#### Commercial waste treatment plant Birmingham, United Kingdom

Location	Birmingham, United Kingdom
Plant	Commercial treatment plant for
	the production of SRF
Plant capacity	24 Mg/h industrial waste
Commissioning	2013
Client	Sita UK, United Kingdom



# Sorting plant for commercial waste & construction and demolition waste Helsinki, Finland

Location Plant

Plant capacity

Commissioning Client Helsinki, Finland Sorting plant for industrial waste and construction and demolition waste producing RDF 25 Mg/h industrial waste 30 Mg/h construction demolition waste 2010 Lassila Tikanoja, Finland

#### Commercial waste treatment plant Northampton, United Kingdom

Location Plant Plant capacity Commissioning Client Northampton, United Kingdom Production of RDF/SRF 25 Mg/h 2009 HW Martin, United Kingdom

#### Treatment plant for RDF Meppen, Germany

Location Plant Plant capacity Commissioning Client Meppen, Lower Saxony, Germany Production of RDF/SRF 30 Mg/h 2006 Augustin Städtereinigung, Meppen, Germany

#### Treatment plant for RDF Flörsheim, Germany

Location Plant Plant capacity Commissioning Client Flörsheim, Hesse, Germany Production of RDF/SRF 13 Mg/h 2006 Remondis, Lünen, Germany



#### Treatment plant for RDF Cologne, Germany

Location Plant Plant capacity Commissioning Client Cologne, North Rhine-Westphalia, Germany Production of RDF/SRF 20 Mg/h 2006 GVG, Cologne, Germany

#### Treatment plant for RDF Wels, Austria

Location Plant Plant capacity Commissioning Client Wels, Austria Production of RDF/SRF 18 Mg/h 2006 Energie AG Wels, Austria

#### Treatment plant for RDF Ihlenberg, Germany

Location

Plant Plant capacity Commissioning Client Ihlenberg, Mecklenburg-Western Pomerania, Germany Production of RDF/SRF 25 Mg/h 2006 RABA Ihlbenberg, Selmsdorf, Germany

#### Treatment plant for RDF Halle-Lochau, Germany

Location Plant Plant capacity Commissioning Client

Lochau, Lower Saxony, Germany Production of RDF/SRF 20 Mg/h 2006 Fehr Umwelt, Döllnitz, Germany



#### Treatment plant for RDF Ennigerloh, Germany

Location Plant Plant capacity Commissioning Client Ennigerloh, North Rhine-Westphalia, Germany Production of RDF/SRF 24 Mg/h 2006 EKOWEST, Ennigerloh, Germany

#### Treatment plant for RDF Meschede, Germany

Location

Plant Plant capacity Commissioning Client Meschede, North Rhine-Westphalia, Germany Production of RDF/SRF 30 Mg/h 2005 Remondis, Lünen, Germany

#### Treatment plant for RDF Neuss, Germany

Location Plant Plant capacity Commissioning Client Neuss, North Rhine-Westphalia, Germany Production of RDF/SRF 30 Mg/h 2005 EGN, Grevenbroich, Germany

#### Treatment plant for RDF Bochum, Germany

Location Plant Plant capacity Commissioning Client Bochum, North Rhine-Westphalia, Germany Production of RDF/SRF 30 Mg/h 2005 Weber, Bochum, Germany

#### Treatment plant for RDF Kerpen, Germany

Location Plant Plant capacity Commissioning Client Kerpen, North Rhine-Westphalia, Germany Production of RDF/SRF 20 Mg/h 2005 Schönmackers, Kerpen, Germany



#### Treatment plant for RDF Asdonkshof, Germany

Location Plant Plant capacity Commissioning Client Kamp Lintfort, North Rhine-Westphalia, Germany Production of RDF/SRF 20 Mg/h 2005 KWA, Kreis Wesel, Kamp Lintfort, Germany

#### Treatment plant for RDF Wiefels, Germany

Location Plant Plant capacity Commissioning Client Wiefels, Lower Saxony, Germany Production of RDF/SRF 20 Mg/h 2004 GMA, Wangerland, Germany

#### Treatment plant for RDF Winschoten, The Netherlands

Location Plant Plant capacity Commissioning Client Winschoten, The Netherlands Production of RDF/SRF 15 Mg/h 2002 AlBra Winschoten bv, Winschoten, The Netherlands

#### Treatment plant for RDF Delitzsch, Germany

Location Plant Plant capacity Commissioning Client 2002 fire damage: Plant capacity Commissioning Delitzsch, Saxony, Germany Production of RDF/SRF 50,000 Mg/a 2000 Kreiswerke Delitzsch, Delitzsch, Germany New installation and plant extension 60,000 Mg/a 2002



### Treatment plant for RDF Akea, Germany

Location

Plant Plant capacity Commissioning Client Erftstadt, North Rhine-Westphalia, Germany Production of RDF/SRF 45,000 Mg/a (one-shift-operation) 1998 Remondis, Lünen, Germany

#### Production of Pellets as RDF Krefeld, Germany

Location

Plant Plant capacity Commissioning Client Krefeld, North Rhine-Westphalia, Germany Production of pellets as RDF 13,000 Mg/a (one-shift-operation) 1995 Remondis, Krefeld, Germany





## COMMERCIAL AND INDUSTRIAL WASTE (C+I), MIXED BUILDING DEBRIS, BULKY WASTE

TREATMENT PLANTS FOR COMMERCIAL AND INDUSTRIAL WASTE, MIXED BUILDING DEBRIS, BULKY WASTE





#### Sorting plant for commercial and industrial waste, Gent, Belgium

Location Plant

Plant capacity Commissioning Client Gent, Belgium Commercial and industrial waste for the recovery of recyclable materials 65.000 Mg/a 2021 Suez R&R BE Services, Belgium

#### Sorting plant Troisdorf, Germany

Location Plant Plant capacity Commissioning Client Troisdorf, North Rhine-Westphalia, Germany Sorting plant for industrial waste refuse 20 Mg/h 2019 Remondis, Germany

#### Sorting plant Eichenzell, Germany

Location Plant Plant capacity Commissioning Client Eichenzell, Hesse, Germany Sorting plant for industrial waste refuse 22 Mg/h 2019 Veolia Umweltservice West, Eichenzell, Germany

#### Sorting plant Hannover, Germany

Location Plant Plant capacity Commissioning Client Hannover, Lower Saxony, Germany Sorting plant for industrial waste refuse 80,000 Mg/a 2018 Tönsmeier Entsorgung, Germany

#### Sorting plant Ahrental, Austria

Location Plant

Plant capacity Commissioning Client Ahrental, Austria Sorting plant for industrial, domestic and bulky waste 40 Mg/h 2010 Arge Ahrental Fröschl Alpine, Austria



#### Sorting plant Helsinki, Finland

Location Plant

Plant capacity

Commissioning Client Helsinki, Finland Sorting plant for industrial waste refuse and construction demolition waste 25 Mg/h industrial waste 30 Mg/h construction demolition waste 2010 Lassila Tikanoja, Finland

#### Commercial waste treatment plant Northampton, United Kingdom

Location Plant Plant capacity Commissioning Client Northampton, United Kingdom Production of RDF/SRF 25 Mg/h 2009 HW Martin Ud, United Kingdom

#### Sorting plant Ennigerloh, Germany

Location

Plant

Plant capacity

Commissioning

Ennigerloh, Germany, Germany Sorting plant for industrial waste, and household waste 26 Mg/h household waste 26 Mg/h industrial waste 2008 AWG, Warendorf, Germany

# Client

#### Sorting plant Luton, United Kingdom

Location Plant Plant capacity Commissioning Client Luton, United Kingdom Sorting plant for industrial waste refuse 30 Mg/h 2008 Cawley, United Kingdom



#### Sorting plant Bitburg, Germany

Location Plant

Plant capacity Commissioning Client Bitburg, Rhineland Palatinate, Germany Sorting plant for construction waste, industrial waste and bulky refuse 15 Mg/h 2006 BRG Umweltpark Bitburg, Germany

#### Sorting plant GVG, Germany

Location

Plant Plant capacity Commissioning Client Cologne, North Rhine-Westphalia, Germany Sorting plant for industrial waste 40 Mg/h 2006 GVG Cologne, Germany

#### BMA Gernsheim, Germany

Location Plant

Plant capacity Commissioning Client Gernsheim, Bavaria, Germany Sorting plant for construction waste, industrial waste and bulky refuse 90,000 Mg/a 1996 Waibel KG, Gernsheim, Germany

#### Sorting plant BAV, Germany

Location

Plant

Plant capacity Commissioning Client Cologne Rath-Heumar, North Rhine-Westphalia, Germany Sorting plant for construction waste, industrial waste and bulky refuse 45 Mg/h 1994 Remondis, Viersen, Germany



#### Construction waste treatment plant Neandertal, Germany

Location Plant Plant capacity Commissioning Client Mettmann, North Rhine-Westphalia, Germany Sorting plant for construction waste 45 Mg/h 1994 R+R Rohstoffrückgewinnung und Recycling, Mettmann, Germany





## WASTE PAPER TREATMENT SORTING PLANTS FOR WASTE PAPER AND CARDBOARD





#### Paper sorting plant Bern, Switzerland

Location Plant Plant capacity Commissioning Client Bern, Switzerland Sorting plant for paper 14 Mg/h 2017 Alpabern AG, Switzerland

### Paper sorting plant Dachau, Germany

Location Plant Plant capacity Commissioning Client Dachau, Bavaria, Germany Sorting plant for paper 24 Mg/h two lines 2008 ASO, Dachau, Germany

#### Paper sorting plant Zorneding, Germany

Location Plant Plant capacity Commissioning Client Zorneding, Bavaria, Germany Sorting plant for paper from households 12 Mg/h 2007 Ammer, Zorneding, Germany

#### Paper sorting plant Schwedt, Germany

Location Plant Plant capacity Commissioning Client Schwedt, Brandenburg, Germany Sorting plant for paper from households 20 Mg/h 2004 MAD, Munich, Germany

#### Automatic paper sorting plant Sheffield, United Kingdom

Location Plant Plant capacity Commissioning Client Sheffield, United Kingdom Automatic paper sorting plant 14 Mg/h 2003 Onyx, United Kingdom



### Automatic paper sorting plant Cologne-Merkenich, Germany

Location

Plant Plant capacity Commissioning Client Cologne-Merkenich, North Rhine-Westphalia, Germany Automatic paper sorting plant 14.5 Mg/h 2001 Remondis, Lünen, Germany

### Sorting plant Nützen, Germany

Location Plant

Plant capacity Commissioning Client Nützen, Lower Saxony, Germany Sorting plant for paper, cardboard and paper board 12 Mg/h 1999 Brockmann, Nützen, Germany

#### Sorting plant Hamburg, Germany

Location Plant

Plant capacity Commissioning Client Hamburg, Germany Sorting plant for paper, cardboard and paper board 13 Mg/h 1999 Veolia, Hamburg, Germany





### DOMESTIC WASTE, SRF/RDF BEFORE THERMAL TREATMENT

PRE-SORTING FACILITIES BEFORE THERMAL TREATMENT





### Treatment before Gasification, Hull, United Kingdom

Location Plant

Plant capacity Commissioning Client Hull, United Kingdom Treatment before Gasification, Mechanical treatment of RDF, sort out of impurities 278,000 Mg/a 2018 M+W Group, United Kingdom

#### Pre-treatment plant Solucom, Luxembourg

Location Plant

Plant capacity Commissioning Client Leudelinge, Luxembourg Mechanical pre-treatment of domestic waste before thermal treatment 20,000 Mg/a 2001 Solucom, Luxembourg

### Pre-treatment plant Cologne-Niehl, Germany

Location

Plant

Plant capacity Commissioning, modification and extension Client Cologne-Niehl, North Rhine-Westphalia, Germany Mechanical pre-treatment of domestic waste before thermal treatment 660,000 Mg/a

1996 until 2000 AVG Abfallentsorgungs- und Verwertungs-Gesellschaft Köln, Cologne, Germany

#### Pre-treatment plant Leverkusen, Germany

Location Leverkusen, North Rhine-Westphalia, Germany Plant Mechanical pre-treatment of domestic waste before thermal treatment Plant capacity 38,500 Mg/a Commissioning 1994 Client AWL Abfallwirtschaftsgesellschaft, Leverkusen, Germany





## SLAG AND BOTTOM ASH FROM INCINERATION BOTTOM ASH TREATMENT





#### Slag treatment plant Gelsenkirchen, Germany

Location Plant Plant capacity Modification Commissioning Client Zentraldeponie Emscherbruch, Germany Bottom ash treatment 150 Mg/h 2021 (extension of the processing line) 2011 AGR, Germany

#### Slag treatment plant Poznan, Poland

Location Plant Plant capacity Commissioning Client Poznan, Poland Bottom ash treatment 40 Mg/h 2016 Hitachi Zosen Inova, Switzerland

#### Slag treatment plant Mannheim, Germany

Location Plant Plant capacity

Mannheim, Germany Mobile slag treatment 0-8 mm = 55 Mg/h 8-75 mm = 40 Mg/h 2009 Remex, Germany

Commissioning Client

#### Slag treatment plant Halle, Germany

Location Plant

Plant capacity Commissioning Client Halle, Saxony Anhalt, Germany Slag treatment with extraction of reusable materials and preparation of slag as construction material 120 Mg/h 2005 Baumann & Burmeister (Strabag), Germany



#### Slag treatment plant Illingen, Germany

Location Plant

Plant capacity Commissioning Client Illingen, Saarland, Germany Slag treatment with extraction of reusable materials and preparation of slag as construction material 180,000 Mg/a 1999 Sotec, Saarbrücken, Germany

#### Slag treatment plant Weisweiler, Germany

Location	Weisweiler, North Rhine-Westphalia,
	Germany
Plant	Slag treatment with extraction of reusable
	materials and preparation of slag as
	construction material
Plant capacity	100,000 Mg/a
Commissioning	1999
Client	TRAWA, Aachen, Germany

#### Slag treatment plant Cologne-Niehl, Germany

Location

Plant

Plant capacity Commissioning Client Cologne-Niehl, North Rhine-Westphalia, Germany Slag treatment with extraction of reusable materials and preparation of slag as construction material 130,000 Mg/a 1998 AVG Abfallentsorgungs- und Verwertungsgesellschaft Köln, Cologne, Germany



### Slag treatment plant MVR Rugenberger Damm, Hamburg, Germany

Location Plant

Plant capacity Commissioning Client Hamburg, Germany Slag treatment with extraction of reusable materials and preparation of slag as construction material 50 Mg/h 1998 MVR Müllverwertung Rugenberger Damm, Hamburg, Germany





## **COMPOSTING PLANTS**





#### Composting plant Bützberg, Germany

Location Plant Plant capacity Commissioning Client Bützberg, Germany Windrow system Wendelin 45,000 Mg/a 2027 Stadtreinigung Hamburg, Germany

#### Composting plant Neot Chovav, Israel

Location Plant

Plant capacity Commissioning Client Neot Chovav, Israel Stabilisation of MSW fraction < 80mm, System BIODEGMA 60,000 Mg/a Under construction Bar-Idan Tohar 2009, Israel

#### Composting plant Ein HaShlosha, Israel

Location Plant

Plant capacity Commissioning Client Ein HaShlosha, Israel Stabilisation of MSW fraction < 80mm, System BIODEGMA 50,000 Mg/a Under construction Hayun Ecology Compost Industry, Israel

#### Composting plant Oberschmon, Germany

Location Plant

Plant capacity Commissioning Client Oberschmon, Germany Composting of sewage sludge, System BIODEGMA 30,000 Mg/a 2022 Wiese Umwelt Service, Germany



#### Composting plant Obersontheim, Germany

Location Plant Plant capacity Commissioning Client Obersontheim, Germany Composting Plant, System BIODEGMA 25,000 Mg/a 2020 KGH Umweltservice, Germany

#### Waste management Hannover, Germany

Location Plant

Plant capacity Commissioning Client Hannover, Lower Saxony, Germany Second windrow system Wendelin plus charging bridge 40,000 Mg/a 2020 AHA Hannover, Germany

#### Composting plant Działdowo, Poland

Location Plant

Plant capacity Commissioning Client Działdowo, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 15,000 Mg/a 2019 Ekologiczny Związek Gmin "Działdowszczyzna", Poland

#### Composting plant Rekowo, Poland

Location Plant

Plant capacity Commissioning Client Rekowo, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 8,000 Mg/a 2019 ZZO Sierzno, Rekowo, Poland



#### Composting plant Kwidzyn, Poland

Location Plant

Plant capacity Commissioning Client Kwidzyn, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 12,000 Mg/a 2019 Zakład Utylizacji Odpadów, Poland

#### Composting plant Goch, Germany

Location Plant

Plant capacity Upgrade Commissioning Client Goch, North Rhine-Westphalia, Germany Bio waste and green waste composting, System Biofix 70,000 Mg/a 2019 1998 Schönmackers Umweltdienste, Goch, Germany

### Composting plant Osnabrück, Germany

Location Plant

Plant capacity Commissioning Client Osnabrück, Lower Saxony, Germany Composting plant for the treatment of Organic and green waste, tunnel composting system 122,000 Mg/a 2018 Kompostierungsgesellschaft Region Osnabrück, Germany

#### Composting plant Buchen, Germany

Location Plant

Plant capacity Commissioning Client Buchen, Germany Composting Plant for Green Waste, System BIODEGMA 5,000 Mg/a 2017 AWN Abfallwirtschaftsgesellschaft des Neckar-Odenwald-Kreises, Germany



### Composting plant Wiesbaden, Germany

Location Plant

Plant capacity Commissioning Client Wiesbaden, Germany Composting Plant for Green Waste, System BIODEGMA 13,000 Mg/a 2017 HK & G Service, Germany

#### Composting plant Dar es Salaam, Tansania

Location Plant

Plant capacity Commissioning Client Dar es Salaam, Tansania Source separated organics - composting plant, System BIODEGMA 55,000 Mg/a 2016 Dr. Kölsch Geo- und Umwelttechnik, Germany

#### Waste management Hannover, Germany

Location Plant Plant capacity Commissioning Client Hannover, Lower Saxony, Germany Windrow system Wendelin 40,000 Mg/a 2016 AHA Hannover, Germany

#### Composting plant Varaždin, Croatia

Location Plant

Plant capacity Commissioning Client Varaždin, Croatia Composting of sewage sludge, System BIODEGMA 5,000 Mg/a 2015 HIS D.O.O., Croatia



#### Composting plant Słupsk, Poland

Location Plant

Plant capacity Commissioning Client Słupsk, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 13,000 Mg/a 2015 PGK Słupsk-Baza, Poland

#### Composting plant Kołobrzeg, Poland

Location Plant

Plant capacity Commissioning Client Kołobrzeg, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 16,000 Mg/a 2015 MZZ Kolobrzeg, Poland

#### Composting plant Wola Pawłowska, Poland

Location Plant

Plant capacity Commissioning Client Wola Pawłowska, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 20,500 Mg/a 2015 PUK, Poland

#### Composting plant Sosnowiec, Poland

Location Plant

Plant capacity Commissioning Client Sosnowiec, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 26,000 Mg/a 2015 MZSO Sosnowiec, Poland



#### Composting plant Bolesław, Poland

Location Plant

Plant capacity Commissioning Client Bolesław, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 21,000 Mg/a 2015 ZGK Bolesław, Poland

#### Composting plant Rybnik, Poland

Location Plant

Plant capacity Commissioning Client Rybnik, Poland Stabilisation of MSW fraction < 80mm, System BIODEGMA 20,000 Mg/a 2015 Sego, Poland

#### Waste management Linkenbach, Germany

Location Plant Plant capacity Commissioning Client Neuwied, Kreis Neuwied, Germany Tunnel composting 39,000 Mg/a 2014 Kreis Neuwied, Germany

#### Waste management Düsseldorf, Germany

Location Plant Plant capacity Commissioning Client Düsseldorf, KDM, Germany Presorting treatment before composting 40 Mg/h 2013 KDM, Düsseldorf, Germany



### Composting plant Toskana, Italy

Location Plant

Plant capacity Commissioning Client Terranova Toskana, Italy Bio waste and green waste composting System Biofix 44,300 Mg/a 2007 Unieco, Italy

# Bio waste composting in combination with mechanical-biological waste treatment, ${\bm P} iemont, {\bm I} taly$

Location Plant

Plant capacity Commissioning Client Piemont, Italy Mechanical and biological waste treatment System Biofix 18,000 Mg/a 2004 Unieco, Italy

#### Composting plant Schwegermoor, Germany

Location Plant

Plant capacity Commissioning Client Schwegermoor, Lower Saxony, Germany Bio waste and green waste composting optimisation: Tunneled system procedure 50,000 Mg/a 2003 K.R.O., Schwegermoor, Germany

#### Composting plant Stavanger, Norway

Location Plant

Plant capacity Commissioning Client Stavanger, Norway Bio waste and green waste composting System Biofix 28,000 Mg/a 2000 IVAR Interkommunalt Vann, Avlops-og Renovasjonsverk, Forus, Norway



#### Composting plant Contarina, Italy

Location Plant

Plant capacity Commissioning Client Spresiano (TV), Italy Bio waste and green waste composting as well as biological waste treatment System Wendelin and Trimalin 52,200 Mg/a 2000 Lurgi Entsorgung, Ratingen, Germany

#### Composting plant Viersen, Germany

Location Plant

Plant capacity Commissioning Client Viersen, North Rhine-Westphalia, Germany Bio waste and green waste composting System Biofix 50,000 Mg/a 1998 Reterra, Viersen, Germany

#### Composting plant Neuss-Korschenbroich, Germany

Location

Plant

Plant capacity Commissioning Client Neuss-Korschenbroich, North Rhine-Westphalia, Germany Bio waste and green waste composting System Kompoflex 40,000 Mg/a 1998 Reterra, Viersen, Germany

#### Composting plant Düsseldorf-Mettmann, Germany

Location

Plant

Plant capacity Commissioning Client Ratingen, North Rhine-Westphalia, Germany Bio waste and green waste composting System Biofix 35,000 Mg/a 1997 KDM – Kompostierungs- und Vermarktungsges. für Kreis Mettmann, Düsseldorf, Germany



### Composting plant Cologne-Niehl, Germany

Location

Plant

Plant capacity Commissioning Client Cologne-Niehl, North Rhine-Westphalia, Germany Bio waste and green waste composting System Kompoflex 42,000 Mg/a 1997 AVG Abfallentsorgungs- und Verwertungs-Gesellschaft Köln, Cologne, Germany

#### Composting plant VZEK, Germany

Location Plant

Plant capacity Commissioning Client Erftstadt, North Rhine-Westphalia, Germany Bio waste and green waste composting System Kompoflex 54,000 Mg/a 1997 Remondis, Erftstadt, Germany

#### Composting plant Bischofsheim, Germany

Location Plant

Plant capacity Commissioning Client Bischofsheim, Hesse, Germany Bio waste and green waste composting, treatment 30,000 Mg/a 1995 Riedwerke, Groß Gerau, Germany

#### Composting plant Lochau, Germany

Location Plant

Plant capacity Commissioning Client Lochau, Saxony-Anhalt, Germany Bio waste and green waste composting System Biofix 6,500 Mg/a 1994 Mitteldeutsche Umwelt- und Entsorgung, Braunsbedra, Germany



### Composting plant Gut Müttinghoven, Germany

Location

Plant

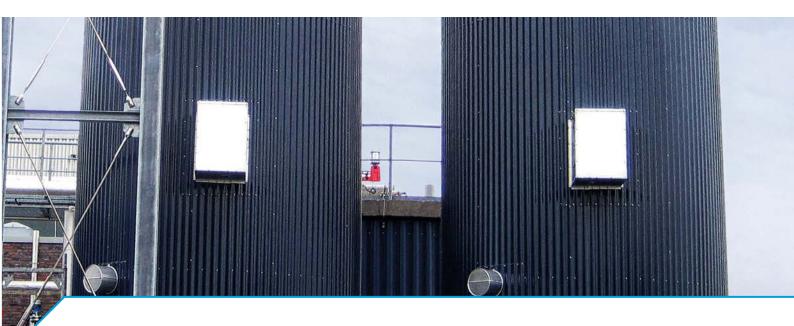
Plant capacity Commissioning Client Swisttal-Morenhoven, North Rhine-Westphalia, Germany Bio waste and green waste composting System Biofix 12,000 Mg/a 1993 KDM Reterra, Erftstadt, Germany





## **FERMENTATION PLANTS**

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### Fermentation plant Erbenschwang, Germany

Location Plant Plant capacity Commissioning Client Ingenried, Bavaria, Germany Fermentation plant for residual waste 60,000 Mg/a 2019 Eva, Ingenried, Germany

#### Fermentation plant Gescher, Germany

Location Plant Plant capacity Commissioning Client Gescher North Rhine-Westphalia, Germany Fermentation plant 60,000 Mg/a 2014 EGW, Gescher, Germany

#### Fermentation plant Mülheim a.d.R., Germany

Location

Plant Plant capacity Commissioning Client Mülheim a.d.R., North Rhine-Westphalia, Germany Fermentation plant for bio waste and food waste 22,000 Mg/a 2004 MEG Mülheimer Entsorgungsgesellschaft, Mülheim an der Ruhr, Germany





## WOOD TREATMENT PLANTS





### Wood treatment plant Vossenack, Germany

Location Plant

Plant capacity Commissioning Client Düren, North Rhine-Westphalia, Germany Treatment plant for the production of wood chips and pellets 65,000 Mg/a 2007 STAWAG, Aachen, Germany





## **CONVEYING EQUIPMENT**





#### Different conveying equipment Amman, Jordan

Location Plant Plant capacity Client Amman, Jordan Different conveying equipment 2017 Adelmann Umwelt, Karlstadt, Germany

#### Plant for data destruction Cologne, Germany

Location Plant Plant capacity Commissioning Client Cologne, Germany Conveying equipment and measuring units 10 Mg/h 2007 Bruckmann, Cologne, Germany

#### Plant for RDF in Austria

Location Plant Plant capacity Commissioning Client

Sankt Pantaleon, Austria Conveying equipment and air separation 8 Mg/h 2006 Neuhauser, Austria

# Plant for pre-treatment and crushing of bulky waste, Rotterdam, The Netherlands

Location Plant Plant capacity Commissioning Client Rotterdam, The Netherlands Conveying equipment 50 Mg/h 2002 Rentec, Pittem, Belgium for AVR, Rotterdam, The Netherlands

#### Gipswerke Lochau, Germany

Location Plant Plant capacity Commissioning Client

Lochau, Saxony-Anhalt, Germany Conveying equipment 380 Mg/h 1998 Gipswerke Lochau, Döllnitz, Germany





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