

Main References

Overview of flue gas cleaning plants (selection)

Client; Country	Place of Installation Fuel	Gas flow rate m ³ /h Reduction of	Commissioning Technology used	Kind of contract
Heraeus Quarzglas Deutschland/ Germany	Hanau	5.000 Cl ₂ , HF, dust	1988 NaOH- H ₂ O ₂ -Scrubber	EPC
Tessenderlo Group Belgien/ Belgium	Ham	50.000 HCl, SO ₃ Cl ₂ , Br ₂	1991 H ₂ O ₂ -Scrubber	EPC
AVI Roteb Rotterdam Niederlande//Netherlands	Rotterdam municipal waste	4 x 75.000 dioxin, heavy metals, acidic comp., NO _x	1993 carbon adsorption, SCR	EPC
AVR Rotterdam DTO 8 Niederlande//Netherlands	Rotterdam industrial waste	80.000 dioxin, heavy metals, NO _x	1993 carbon adsorption, SCR	EPC
Shell AG Hamburg Deutschland / Germany	Hamburg cracking plant	60.000	1994 SCR	EPC
Boehringer Ingelheim Deutschland / Germany	Ingelheim coal fired boiler	89.000 SO _x	1994	EPC
Landkreis Fürth Deutschland / Germany	Zirndorf municipal waste	30.000 NO _x	1995 SCR	EPC
MVA Stapelfeld Deutschland / Germany	Stapelfeld 1+2 municipal waste	2 x 120.000 dioxin, heavy metals, NO _x	1996 carbon adsorption, SCR	EPC

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AGR Essen Deutschland / Germany	Herten, IM 2 industrial waste	70.000 dioxin, NO _x , heavy metals	1996 carbon adsorption, SCR	EPC
Stadtwerke Landshut Deutschland / Germany	Landshut municipal waste	65.000 dioxin, NO _x	1996 catalytic reduction, SCR	EPC
Fischer Recycling Deutschland / Germany	Zapfendorf wood chips incineration	50.000d SO _x , NO _x , dioxin	1997 dry adsorption, SCR, catalytic reduction	EPC
HKW Mannheim Deutschland / Germany	Mannheim municipal waste	195.500 dioxin, heavy metals, acidic comp	1997 carbon adsorption	EPC
Spitz Rohstoff und Recycling Deutschland / Germany	Wilhelmshaven sludge incineration	4.000 SO _x , dioxin, heavy metals, acidic comp.	1998 dry absorption, carbon adsorption	EPC
MVA Köln Deutschland / Germany	Köln municipal waste	4 x 105.000 dioxin, heavy metals, acidic comp.	1998 carbon adsorption	EPC
Formosa Plastic Taiwan	Mai Liao metallurgical gas	70.000 dust, aerosols	1998 WESP	EPC

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LVM Belgien / Belgium	Tessengerlo chemical waste	100.000 SO _x	1999 caustic scrubber	EPC
MGC Moser-Glaser Energie- und Plasmatechnik Schweiz / Switzerland	Muttenz nuclear waste	7.000 SO _x , dust, NO _x , aerosols	1999 CaO-scrubber, WESP, SCR	EPC
DOROGI Ungarn / Hungary	Dorog hazardous waste	52.000 NO _x , dioxin	1999 SCR, DeDiox	EPC
Berzelius Stolberg Deutschland / Germany	Stolberg metallurgical waste	42.700 dust, aerosols	2000 cooling tower, WESP	EPC
KataLeuna GmbH Catalysts Deutschland / Germany	Leuna catalyst production	12.000 NO _x , dust	2001 SCR, baghouse filter	EPCM
Anglo Platinum Südafrika/South Africa	Rustenburg Platin-Raffination	110.000 SO _x , dust, aerosols	2002 gas cooling, WESP, Jet- Scrubber	EPC
Palabora Mining. Comp Südafrika / South Africa	Palabora metallurgical gas	195.350 dust, aerosols	2002 gas cooling, gas scrubbing	EPC

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Röhm AG Deutschland / Germany	Worms sulphuric acid regen	110.000 dust, aerosols	2002 gas cooling, gas scrubbing	EPC
Rhodia Eco Services England / United Kingdom	Chesterfield metallurgical gas	55.000 SO ₂ (3.000 mg/Nm ³)	2003 H ₂ O ₂ scrubber (SuperOx)	EPC
Formosa Plastic Taiwan	Mai Liao metallurgical gas	70.000 dust, aerosols	2006 WESP	EPC
Sachtleben Deutschland / Germany	Duisburg metallurgical gas	40.000 dust, aerosols	2007 WESP	EPC
Metalor Schweiz / Switzerland	Marin metallurgical gas	5.400 Metallchloride, Cl ₂	1992/ 2008 NaOH, H ₂ O ₂ scrubber	EPC
Karat ZM Rußland / Russia	Sorsk lead smelter	40.000 dust, aerosols	2009 WESP	EPC
BP Emsland Deutschland / Germany	Lingen industrial waste	8.000 Hg	2009 carbon adsorption	EPC
Gemlik Gübre Türkei/Turkey	Bursa nitric acid plant	2 x 81.000 NO _x	2011 SCR	EPC

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YARA Suomi Finnland/Finland	Siilinjärvi pyrite roasting gas	80.000 dust, aerosols	2012 gas cooling, gas scrubbing, WESP	EPC
Sachtleben Deutschland / Germany	Duisburg metallurgical gas	40.000 dust, aerosols	2011 WESP	EPC
GRILLO Deutschland / Germany	Duisburg sulphuric acid regen	47.000 dust, aerosols	2016 gas cooling, gas scrubbing, WESP	EPS
Pec Rhin Frankreich/France	Ottmarsheim nitric acid plant	133.000 NO _x	2013 SCR	EPC
CRI GmbH Catalysts Deutschland / Germany	Leuna catalyst production	12.000 NO _x , dust	2017 SCR, baghouse filter	EPCM
Boliden Finnland/Finland	Kokkola zinc roaster	126.000 dust, aerosols	2011 WESP	EPC
Codelco Chile/Chile	Las Ventanas copper smelter	130.000 – 150.000 SO ₂ (3.000 mg/Nm ³ - peak 10.000 mg/Nm ³)	2016 H ₂ O ₂ scrubber (SuperOx)	EPC

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Huntsman Deutschland/Germany	Duisburg metallurgical gas	2.000 aerosols, NOHSO ₄	2014 aerosol separator, carbon adsorption	EPC
Venator Finnland/Finland	Pori titanium dioxide	170.000 dust, aerosols	2018 WESP	EPC
Evonik Singapur/Singapore	Singapore/Jurong Island methionine production	200.000 SO ₂ (up to 5.000 mg/Nm ³)	2018 SuperCo	EPC
Cristal Frankreich/France	Thann titanium dioxide	24.000 dust, aerosols	2019 WESP	EPC

Note: Super^{OX} Process and Super^{CO} Process are process variants of HUGO PETERSEN GmbH