

Reference

Flue Gas Treatment System

FLUE GAS TREATMENT SYSTEMS

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1 Flue Gas Desulphurization System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
Daehan Pulp MFG. Co., Ltd. Cheongwon Factory (Wet Scrubbing Process w/ NaOH Solution)	B-C Oil Fired Boiler	1995	2,336
Korea Electric Power Corp. Dangjin Thermal Power Plant Unit No. 1, 2, 3 & 4 (Wet Limestone-Gypsum Process)	500 MW x 4 Coal Fired Boiler	2001	42,000 x 4
Korea District Heating Corp. Cheongju Energy Supply Facilities (Wet Limestone-Gypsum Process)	B-C Oil Fired Boiler CHP	2001	6,950
Korea District Heating Corp. Cheongju Energy Supply Facilities (Wet Limestone-Gypsum Process)	B-C Oil Fired Boiler HOB x 2	2001	3,378 x 2
Korea Southern Power Corp. Youngnam Thermal Power Plant Unit No. 1 & 2 Orimulsion Fuel Conversion (Wet Limestone-Gypsum Process)	200 MW x 2 B-C Oil & Orimulsion Boiler	2002	16,374 x 2
Hanwha Corporation Taegu Dyeing Industrial Center (Alkalic Waste Water Process)	50 MW Coal Fired Boiler	2004	5,329
Korea South-East Power Corp. Samchonpo Thermal Power Plant Unit No. 1, 2, 3 & 4 (Wet Limestone-Gypsum Process)	560 MW x 4 Coal Fired Boiler	2004	58,833 x4
Wuxi Pan-Asia Envir. Protection Technologies Limited. Absorber for FGD Technical Consulting Service in China	300 MW x 1 Coal Fired Boiler	2004	3,529
Fujikasui Engineering Co., Ltd. Bridgestone Carbon Black Thailand Co., Ltd. (Wet Limestone-Gypsum Process)	Carbon Black Plant With Boiler x 2	2005	2,018 x 2
Fujikasui Engineering Co., Ltd. Thai Tokai Carbon Product Co., Ltd. (Wet Limestone-Gypsum Process)	Carbon Black Plant With Boiler x 2	2005	2,430 x 2
Korea Midland Power Co., Ltd. Jeju Thermal Power Plant Diesel Generator Facility (NaOH Process)	Diesel Generator 40 MW x 1	2005	8,550
Korea District Heating Corp. Cheongju Energy Supply Facilities (Wet Limestone-Gypsum Process) (Repair Work)	B-C Oil Fired Boiler CHP	2005	6,950
Fujikasui Engineering Co., Ltd. BLCP Power Plant Thailand Limited. (MgOH Process)	Moretana plate & Internal parts	2005	
XingTai Power Plant (Wet Limestone-Gypsum Process)	Coal 300 MW x 2	2005	30,637 x 2
Pohang Iron & Steel Co., Ltd.	Sinter Plant x 4	2006	34,000

1 Flue Gas Desulphurization System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
Kwangyang #1~4, Sinter Plant (Dry NaHCO ₃ Injection) Fujikasui Engineering Co., Ltd. Ube Cement Plant (Limestone - Gypsum Process)	Coal	2006	x4
Formosa Heavy Industries Corp. Nine Dragons Paper Industries Corp. China (Semi-Dry, Limestone Injection)	320 Ton/Hr x 2 Coal Fired Boiler	2008	x 2 9,700
Korea District Heating Corp. Cheongju Energy Supply Facilities (Wet Limestone-Gypsum Process) (Repair Work)	B-C Oil Fired Boiler HOB x 2	2008	3,378 x 2
Formosa Heavy Industries Corp. Formosa Plastics Corp. USA (Semi-Dry, Limestone Injection)	500 Ton/Hr x 2 Coal Fired Boiler	2009	x 2 14,900
Korea Southern Power Corp. Hadong Thermal Power Plant Unit No. 7 & 8 (Wet Limestone-Gypsum Process)	500 MW x 2 Coal Fired Boiler	2009	41,667 x 2
Taiwan Power Company Hsinta Power Station Unit No. 1 & 2 Taiwan (Wet Limestone-Gypsum Process) (Retrofit Work)	500 MW x 2 Coal Fired Boiler	2009	30,053 x 2

Nu-Lake Co., Ltd. Onyang Pulp Co., Ltd. Kunpo Factory	Incinerator(Rotary-Kiln) 50TPD	1995	330
Korea Vetrotex Co., Ltd. Kunsan Factory	Glass Melting(Furnace) 60TPD	1996	304
Samsung Corporation Haeundae MSW Incineration Plant	Incinerator(Stoker) 200TPD x 2	1999	1,588 x 2
Pohang Iron & Steel Co., Ltd. Pohang Steel Works Waste Incineration Plant	Incinerator(Rotary Kiln) 100TPD	1999	980
Hyundai Eng. & Con. Co., Ltd. Kunpo MSW Incineration Plant	Incinerator(Stoker) 200TPD	2000	1,568
Samsung Heavy Industries Co., Ltd. Guri MSW Incineration Plant	Incinerator(Stoker) 100TPD x 2	2001	800 x 2
Hyundai Heavy Industries Co., Ltd. CKS International Airport No. 4 Incineration Plant	Incinerator(Rotary Kiln) 70TPD x 2	2001	3,413 x 2
KCES Yeocheon Plant No. 1	Incinerator(FBC) 70TPD		
KCES Yeocheon Plant No. 2	Incinerator(Rotary Kiln + Stocker) 70TPD	2002	905
Sunglim Oil Chemical Co., Ltd. Ansan Plant	Incinerator(Rotary Kiln + Stocker) 148TPD	2003	6,444
Takuma Co., Limited FGTS for Mishimadani Industrial Solid Waste Incineration Plant Japan	Industrial Waste Incineration Plant	2005	1,994
POSCO / Gwangyang Steel Mill Sinter Plant #1~4 (Flue Gas Cleaning System) NaHCO₃ Injection System	Sinter plant De-NOx, De-SOX, De-Dioxin	2006	34,040 x4
POSCO / Gwangyang Steel Mill Sinter Plant #5 (Flue Gas Cleaning System) NaHCO₃ Injection System	Sinter plant De-NOx, De-SOX, De-Dioxin	2010	44,322

2 SDR(Semi Dry Reactor) System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
Byeoksan Eng. & Const. Co., Ltd. Byeoksan Energy Co., Ltd. Iksan Co-Generation Plant (Lime Injection System)	35 MW Coal Fired Boiler	1996	3,943
Hyundai Heavy Industries Co., Ltd. CKS International Airport Incineration Plant No. 4 (Lime Injection System)	Incinerator(Rotary Kiln) 70TPD x 2	2001	3,413 x 2
Sunglim Oil Chemical Co., Ltd. Ansan Plant	Incinerator(Rotary Kiln + Stocker) 148TPD	2003	6,444
Pohang Iron & Steel Co., Ltd. Kwangyang Sinter Plant No. 1, 2, 3 & 4 (Flue Gas Cleaning System)	Sinter Plant x 4	2006	34,000 x 4
SNNC/Gwangyang (Kawasaki Plant System) Fe-Ni Plant	Rotary Kiln (SCR System/Ammonia)	2008	7,311 x 2

3 Dry Injection System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
Samsung Corporation Haeundae MSW Incineration Plant (Activated Carbon Injection System)	Incinerator(Stoker) 200TPD x 2	1999	1,588 x 2
Hyundai Eng. & Con. Co., Ltd. Kunpo MSW Incineration Plant (Activated Carbon Injection System)	Incinerator(Stoker) 200TPD	2000	1,568
Samsung Heavy Industries Co., Ltd. Guri MSW Incineration Plant (Activated Carbon Injection System)	Incinerator(Stoker) 100TPD x 2	2001	800 x 2
Hyundai Heavy Industries Co., Ltd. CKS International Airport No. 4 Incineration Plant (Activated Carbon Injection System)	Incinerator(Rotary Kiln) 70TPD x 2	2001	3,413 x 2
Sunglim Oil Chemical Co., Ltd. Ansan Plant	Incinerator(Rotary Kiln + Stocker) 148TPD	2003	6,444
Pohang Iron & Steel Co., Ltd. Kwangyang Sinter Plant No. 1, 2, 3 & 4 (Flue Gas Cleaning System)	Sinter Plant x 4	2006	34,000 x4

Hyundai Eng. & Con. Co., Ltd. Kunpo MSW Incineration Plant (SCR System w/Ammonia)		Incinerator(Stoker) 200TPD	2000	1,568
Hyundai Heavy Industries Co., Ltd. CKS International Airport Incineration Plant No. 4 (SNCR System w/Urea)		Incinerator(Rotary Kiln) 70TPD x 2	2001	3,413 x 2
POSCO Eng. & Construction Co., Ltd. Pohang Steel Works Stainless Steel Manufacturing Factory No. 1 (SCR System w/Urea)		Stainless Steel APL Line	2000	150
Korea Southern Power Corp. Youngnam Thermal Power Plant Orimulsion Fuel Conversion Unit No. 2 (SCR System w/Ammonia)		200 MW B-C Oil & Orimulsion Boiler	2002	18,978
POSCO Eng. & Construction Co., Ltd. Pohang Steel Works No. 3 Stainless Steel Manufacturing Factory (SCR System w/Urea)		Stainless Steel APL Line	2002	240
KCES Yeocheon Plant (SNCR System w/Urea)	50TPD	Incinerator(Rotary Kiln + Stocker)	2002	2,370
Sunglim Oil Chemical Co., Ltd. Ansan Plant (SNCR System w/Urea)		Incinerator(Rotary Kiln + Stocker) 148TPD	2003	8,018
Samnam Petrochemical Co., Ltd. Yeocheon Plant (SNCR System w/Urea)	60TPD	Incinerator(FBC)	2003	480
KCES Yeocheon Plant (SNCR System w/Urea)		Incinerator(FBC) 70TPD	2004	1,650
Hanwha Corporation Taegu Dyeing Industry Complex corp. (SCR System w/Ammonia)		50 MW Coal Fired Boiler	2004	5,329
Samsung Fine Chemicals. 6,000 Ulsan Thermal Power Plant Orimulsion Fuel Conversion Unit No. 3 (SCR System w/Ammonia)		50 MW B-C Oil & Orimulsion Boiler	2004	
Sunchang Corporation Incheon MDF Plant Wooden Firing Boiler (SCR System w/Ammonia)		Wooden Fired Boiler 30TPH	2005	1,950
Taishan Thermal Power Plant		600 MW	2006	75,000

5 De-NOx System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
Unit No. 5 CHINA(SCR System w/Ammonia)	Coal Fired Boiler		
Korea East West Power Corp. Dangjin Thermal Power Plant Unit No. 1~4 (SCR System w/Ammonia)	500 MW x 4Unit Coal Fired Boiler	2006	28,290 x 4
POSCO KwangYang Steel Work Sintering Unit No. 1~4 (SCR System w/Ammonia)	Sintering Line x 4	2007	34,040 x 4
SNNC(Gwangyang) Kawasaki Plant System Fe-Ni Plant (SCR System w/Ammonia)	Rotary Kiln	2008	7,311 x2
Doosan Heavy Industries & Construction Co., Ltd. Tailand Gheco Thermal Power Plant Unit No.1 (SCR Reactor & Ammonia Injection System)	700 MW Coal Fired Boiler	2009	61,605
POSCO / Gwangyang Steel Mill Sinter Plant #5 (Flue Gas Cleaning System) NaHCO ₃ Injection System	Sinter plant De-NOx, De-SOX, De-Dioxin	2010	44,322

5 De-NOx System

Customer & Location	Application	Start-Up Date	Gas Vol. (Am ³ /min)
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