

**Supply List
of
KAWASAKI Flue Gas Desulfurization**

November, 06



Supply List of Flue Gas Desulfurization (1/5)

< For Domestic >

Client	Location	Unit No.	Fuel	Capacity (m ³ N/H)	Process	Year of Completion	Remarks
Sumitomo Rubber Industries	Kobe, Japan	Boiler	Oil	30,000	Wet Sodium Sulfite-Sodium Sulfate	1973-2	Replace Wet Magnesium Process
Caronight Chemical	Kawasaki, Japan	Boiler	Oil	16,000	Wet Sodium Sulfite-Sodium Sulfate	1973-4	
Kao Soap	Wakayama, Japan	Boiler	Oil	23,000	Wet Sodium Sulfite-Sodium Sulfate	1973-5	
Jujo Paper	Kushiro, Japan	Boiler	Oil	33,000	Wet Sodium Sulfite	1973-5	
Jujo Pulp	Akita, Japan	Boiler	Oil	84,000	Wet Calcium Carbonate (To Wet Magnesium)	1973-5	Replace Wet Magnesium Process
Jujo Paper Board	Tokyo, Japan	No.2 Boiler	Oil	72,000	Wet Sodium Sulfite-Sodium Sulfate	1973-8	
Jujo Paper	Ishinomaki, Japan	Boiler	Oil	60,000	Wet Sodium Sulfite	1974-9	
Jujo Pulp	Akita, Japan	Boiler	Oil	89,000	Wet Calcium Carbonate	1975-6	
Jujo Paper	Kushiro, Japan	Boiler	Oil	24,000	Wet Sodium Sulfite	1975-7	
Kawasaki Steel Chemical	Mizushima, Japan	Boiler	Oil	20,000	Wet Sodium Sulfite-Sodium Sulfate	1977-1	
Jujo Paper Board	Tokyo, Japan	No.1 Boiler	Oil	52,000	Wet Sodium Sulfite-Sodium Sulfate	1979-11	Replace Wet Magnesium Process
Jujo Paper Board	Tokyo, Japan	No.3 Boiler	Oil	56,930	Wet Magnesium	1984-3	
Toho Beslon	Mishima, Japan	No.1 Boiler	Oil	105,000	Wet Magnesium	1985-3	
Sumitomo Metal Industries	Kokura, Japan	Furnace	Oil	350,000	Wet Magnesium	1985-4	
Sumitomo Metal Industries	Kokura, Japan	Heat Furnace	Oil	75,000	Wet Magnesium	1985-12	
Polyplastics	Fuji, Japan	Boiler	Oil	198,000	Wet Magnesium	1986-10	
Idemitsu Kosan	Aichi, Japan	No.4 Boiler	Bituminous Coal	200,000	Wet Magnesium	1987-2	
Polyplastics	Fuji, Japan	Gas Turbin	Oil	160,000	Wet Magnesium	1989-9	

Supply List of Flue Gas Desulfurization (2/5)

< For Domestic >

Client	Location	Unit No.	Fuel	Capacity (m ³ N/H)	Process	Year of Completion	Remarks
Tohoku Paper	Akita, Japan	Boiler	Oil	361,600	Wet Magnesium	1990-10	
Nichiha	Nagoya, Japan	Boiler	Bituminous Coal	110,000	Wet Magnesium	1991-2	
Tohoku Electric Power	Shinsendai, Japan	No.2 Boiler	Oil	420,000	Wet Sodium Sulfite-Gypsum	1974-3	600MW × 1/4
Shikoku Electric Power	Anan, Japan	No.3 Boiler	Oil	1,260,000	Wet Sodium Sulfite-Gypsum	1975-8	450MW
Shikoku Electric Power	Sakaide, Japan	No.3 Boiler	Oil	1,260,000	Wet Sodium Sulfite-Gypsum	1975-10	450MW
Kyushu Electric Power	Buzen, Japan	No.1 Boiler	Oil	750,000	Wet Sodium Sulfite-Gypsum	1977-12	500MW × 1/2
Tohoku Electric Power	Akita, Japan	No.3 Boiler	Oil	1,064,000	Wet Sodium Sulfite-Gypsum	1978-3	350MW
Kyushu Electric Power	Buzen, Japan	No.2 Boiler	Oil	750,000	Wet Sodium Sulfite-Gypsum	1980-7	500MW × 1/2
Unitika	Okazaki, Japan	Boiler	Oil	200,000	Wet Magnesium Enhanced Limestone-Gypsum	1976-3	
Japan Exlan Industries	Saidaiji, Japan	Boiler	Oil	300,000	Wet Magnesium Enhanced Limestone-Gypsum	1976-3	
Shikoku Electric Power	Saijo, Japan	No.1 Boiler	Bituminous Coal	560,900	Wet Magnesium Enhanced Lime-Gypsum	1983-4	156MW
Shikoku Electric Power	Saijo, Japan	NO.2 Boiler	Bituminous Coal	872,600	Wet Magnesium Enhanced Lime-Gypsum	1983-9	250MW
Chubu Electric Power	Hekinan, Japan	No.2 Boiler	Bituminous Coal	2,440,000	Wet Limestone-Gypsum	1992-6	700MW
Shikoku Electric Power	Anan, Japan	No.3 Boiler	Oil	1,260,000	Wet Limestone-Gypsum	1998-2	450MW
Chubu Electric Power	Hekinan, Japan	No.4 Boiler	Bituminous Coal	3,030,000	Wet Limestone-Gypsum	2001-11	1000MW
Chubu Electric Power	Hekinan, Japan	No.5 Boiler	Bituminous Coal	3,030,000	Wet Limestone-Gypsum	2002-10	1000MW

Supply List of Flue Gas Desulfurization (3/5)

< For Overseas >

Client	Location	Unit No.	Fuel	Capacity (m ³ N/H)	Process	Year of Completion	Remarks
Preag	Mehrum, Germany	No.2 Boiler	Bituminous Coal	1,167,000×2	Wet Magnesium Enhanced Lime-Gypsum	1982(1988)	710MW×1/3(1/2) KHI-DBA
						1984	710MW×1/2 KHI-DBA
E V S	Heilbronn, Germany	No.7 Boiler	Bituminous Coal	1,190,000×2	Wet Limestone-Gypsum	1985/86	720MW KHI-DBA
STW Bremen	Hafen, Germany	No.6 Boiler	Bituminous Coal	1,019,000	Wet Limestone-Gypsum	1986	300MW KHI-DBA
Steag	Herne, Germany	No.1,2,3 Boiler	Bituminous Coal	952,000×2	Wet Limestone-Gypsum	1986~87	200MW×3 KHI-DBA
STW Bremen	Hafen, Germany	No.5 Boiler	Bituminous Coal	448,000	Wet Limestone-Gypsum	1987	140MW KHI-DBA
Preag	Staudinger, Germany	No.3 Boiler	Bituminous Coal	1,029,000	Wet Limestone-Gypsum	1987	300MW KHI-DBA
E V S	Heilbronn, Germany	No.3~6 Boiler	Bituminous Coal	1,619,000	Wet Limestone-Gypsum	1987	475MW KHI-DBA
Steag	Luenen, Germany	No.10,11 Boiler	Bituminous Coal	524,000, 1,048,000	Wet Limestone-Gypsum	1987	Total 500MW KHI-DBA
Steag	West, Germany	No.1,2 Boiler	Bituminous Coal	1,048,000×2	Wet Limestone-Gypsum	1987	350MW×2 KHI-DBA
R W E	Weisweiler, Germany	No.C~No.H Boiler	Lignite Coal	1,980,000×7	Wet Limestone-Gypsum	1987~88	300MW×7 KHI-DBA
Steag	Walsum, Germany	No.7,9 Boiler	Bituminous Coal	876,000×2	Wet Limestone-Gypsum	1988	280MW×2 KHI-DBA
V E W	Hamm, Germany	A,B,C Boiler	Bituminous Coal	1,114,000×2	Wet Limestone-Gypsum	1988	Total 640MW KHI-DBA
G K M	Mannheime, Germany	Boiler	Bituminous Coal	1,371,000	Wet Limestone-Gypsum	1988~89	220MW×2 KHI-DBA
STW Bremen	Hastedt, Germany	No.15 Boiler	Bituminous Coal	395,000	Wet Limestone-Gypsum	1989	130MW KHI-DBA
STW Muenchen	Muenchen Nold, Germany		Bituminous Coal	567,000×2	Wet Limestone-Gypsum	1989	250MW KHI-DBA
Elkraft	Amager, Denmark		Bituminous Coal	724,000	Wet Limestone-Gypsum	1989	250MW KHI-DBA

Supply List of Flue Gas Desulfurization (4/5)

< For Overseas >

Client	Location	Unit No.	Fuel	Capacity (m ³ N/H)	Process	Year of Completion	Remarks
PTBA PT. Tambang Batubara Bukit Asam	West Sumatra Indonesia	No.3 Boiler	Bituminous Coal	51,000	Semi-Dry Type	1993-4	32T/H Steam Production
Nanning Chemical Industrial Group	Nanning, China	No.5 Boiler	Bituminous Coal	55,000	Wet Simplified Limestone-Gypsum	1995-10	35T/H Steam Production
Opatovice	Pardubice Czech	No.1~No.3 Boiler	Lignite Coal	1,071,000	Wet Limestone-Gypsum	1996-11	55MW×3
Opatovice	Pardubice Czech	No.4~No.6 Boiler	Lignite Coal	1,071,000	Wet Limestone-Gypsum	1997-11	55MW×3
Jiangsu Electric Power	Yangzhou, China	No.5 Boiler	Bituminous Coal	970,000	Wet Limestone-Gypsum	2002-3	200MW
Ho-Ping Power Co.	Taiwan	No.1 Boiler	Coal	2,111,600	Wet Limestone-Gypsum	2002-3	660MW
Ho-Ping Power Co.	Taiwan	No.2 Boiler	Coal	2,111,600	Wet Limestone-Gypsum	2002-6	660MW
Guizhou Power Co.	Anshun China	No.3 Boiler	Coal	1,264,228	Wet Limestone-Gypsum	2003-4	300MW
Guizhou Power Co.	Anshun China	No.4 Boiler	Coal	1,264,228	Wet Limestone-Gypsum	2003-12	300MW
Hebei Guohua Electric Power	Dingzhou China	No.1 Boiler	Coal	2,130,613	Wet Limestone-Gypsum	2004-12	600MW
Hebei Guohua Electric Power	Dingzhou China	No.2 Boiler	Coal	2,130,613	Wet Limestone-Gypsum	2005-1	600MW
EVN Uong-Bi Extension Power Plant	Vietnam	Extension	Coal	1,070,000	Wet Limestone-Gypsum	2006	300MW
Jiangsu Electric Power	Yangzhou, China	No.6 Boiler	Coal	1,095,280	Wet Limestone-Gypsum	2005	300MW
Jiangsu Electric Power	Yangzhou, China	No.7 Boiler	Coal	1,095,280	Wet Limestone-Gypsum	2005	300MW
Zhejiang Guohua Electric Power	Ninghai China	No.1 Boiler	Coal	2,127,240	Wet Limestone-Gypsum	2006	600MW Kawasaki-Bootes
Zhejiang Guohua Electric Power	Ninghai China	No.2 Boiler	Coal	2,127,240	Wet Limestone-Gypsum	2006	600MW Kawasaki-Bootes
Zhejiang Guohua Electric Power	Ninghai China	No.3 Boiler	Coal	2,127,240	Wet Limestone-Gypsum	2006	600MW Kawasaki-Bootes
Zhejiang Guohua Electric Power	Ninghai China	No.4 Boiler	Coal	2,127,240	Wet Limestone-Gypsum	2007	600MW Kawasaki-Bootes

Supply List of Flue Gas Desulfurization (5/5)

< For Overseas >

Client	Location	Unit No.	Fuel	Capacity (m ³ N/H)	Process	Year of Completion	Remarks
Inner Mongolia Shangdu Electric Power	Inner Mongolia China	No.1 Boiler	Coal	2,367,360	Wet Limestone-Gypsum	2007	600MW Kawasaki-Bootes
Inner Mongolia Shangdu Electric Power	Inner Mongolia China	No.2 Boiler	Coal	2,367,360	Wet Limestone-Gypsum	2007	600MW Kawasaki-Bootes
Inner Mongolia Daihai Electric Power	Inner Mongolia China	No.1 Boiler	Coal	2,151,400	Wet Limestone-Gypsum	2007	600MW Kawasaki-Bootes
Inner Mongolia Daihai Electric Power	Inner Mongolia China	No.2 Boiler	Coal	2,151,400	Wet Limestone-Gypsum	2007	600MW Kawasaki-Bootes
Rabigh IWSP	Rabigh Saudi Arabia	No.1~No.3 Boiler	Oil	1,154,580	Wet Limestone-Gypsum	2008	470T/H x 3
Rabigh IWSP	Rabigh Saudi Arabia	No.4~No.6 Boiler	Oil	1,154,580	Wet Limestone-Gypsum	2008	470T/H x 3
Rabigh IWSP	Rabigh Saudi Arabia	No.7~No.9 Boiler	Oil	1,154,580	Wet Limestone-Gypsum	2008	470T/H x 3
Jiangsu Electric Power	Yangzhou, China	No.4 Boiler	Coal	814,100	Wet Limestone-Gypsum	2007	200MW