

Combustion Technologies


Circulating Fluidized Bed (CFB)

Pressurized Fluidized Bed (PFBC)


Hazardous Waste Incineration (HWI)

 **Reference List**

Client	Plant Location	Capacity MW th (LHV)	Steam Data		Technology	Feedstock	Start-up
			Flow SH/RH t/h	Pressure bar / Temp. SH/RH °C			
Slovenské Elektrárne	Nováky Slovak Republic	111	125	96 / 540	CFB*	Lignite	1995
Energetika Třinec	Třinec K11 & K12 Czech Republic	2 x 140	2 x 160	96 / 540	CFB* (2 lines)	Bituminous Coal, Coal Slurry, Blast Furnace Gas	1995 / 1996
ČEZ	Tisova Czech Republic	262	350	94 / 505	CFB*	Lignite	1997
Elektrárne Vojany	Vojany Slovak Republic	2 x 280	2 x 325 / 282	146 / 540 / 27 / 540	CFB* (2 lines)	Semi Anthracite, Bituminous Coal	1999
EEW Energy from Waste Premnitz GmbH	Premnitz Germany	54	60	97 / 535	CFB*	Rejects from Carpets, Meat & Bone Meal, Various Wastes	2001
Moravské Teplárne Zlín	Zlín Czech Republic	107	125	96 / 540	CFB*	Bituminous Coal, Lignite	2001
Biomasse Italia	Strongoli Italy	2 x 68	2 x 81	95 / 515	CFB* (2 lines)	Wood Chips, Palm Kernel Shells, Olive Pomace	2003

*) engineered and supplied by  SES TINKET, designed and supported by engineers from ENVIROTHERM

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Donbasenergo	Starobeshevo Ukraine	570	670 / 538	135 / 540 / 25 / 543	CFB*	Anthracite Sludge Anthracite Culm	2003
ETI Alüminyum	Seydisehir Turkey	106	120	40 / 438	CFB*	Lignite	2009
Eren Enerji Elektrik Üretim	Zonguldak Turkey	380	465	165 / 563	CFB*	Bituminous Coal	2011
AKSA Göynük Enerji Üretim	Bolu Göynük Turkey	296	373 / 340	149 / 540 / 29 / 540	CFB	Lignite	2016
Yıldızlar / 3S Enerji ve Maden	Cankiri Orta Turkey	3 x 325	3 x 369 / 339	149 / 540 / 29 / 540	CFB (3 lines)	Lignite	2020
Stadtwerke Flensburg	Flensburg Germany	3 x 117	3 x 150	93 / 535	CFB (3 lines)	Bituminous Coal, RdF Biomass <u>Revamp Engineering:</u> FGT, Vortex Finder	1985 1988 1991
Vattenfall Europe Waerme AG	Berlin Germany	242	326 / 270	196 / 540 / 42 / 535	CFB	Subbit. Coal, Lignite Revamp Study: Biomass Co-Firing	1989

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			Flow SH/RH t/h	Pressure bar / Temp. SH/RH °C			
Power Plant Operator (undisclosed)	undisclosed	119	150	115 / 535	CFB	Lignite <u>Revamp Study:</u> Sewage Sludge Co- Firing	1994
Heizkraftwerkgesellschaft Cottbus	Cottbus Germany	212	219 / 219	160 / 540 / 44 / 540	PFBC	Lignite <u>Revamp:</u> Cyclones and Bundles	1999
Neyveli Lignite Corporation	Tamil Nadu India	684	845 / 717	173 / 540 / 44 / 540	CFB	Lignite <u>Scope:</u> Process Engineering	2014
Energetika Třinec	Třinec K14 Czech Republic	105	125	95 / 538	CFB	Bituminous Coal, Lignite, Wood Chips, Blast Furnace Gas	2015
Seokmun Energy Co.	Dangjin Korea (South)	113	145	98 / 510	CFB	Bio-SRF (waste biomass)	2017
Korea District Heating Corp.	Gwangju-Jeonnam Korea (South)	80	100	83 / 475	CFB	RdF	2017
GS E&R	Pocheon Korea (South)	2 x 233	2 x 289	170 / 545 / 41 / 545	CFB	Bituminous Coal	2018

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Poseung Green Power	Poseung Korea (South)	138	180	88 / 503	CFB	Wood Chips / Wood Pellets	2018
Naepo Green Energy	Naepo Korea (South)	211	276	87 / 502	CFB	RdF (SRF)	2019
Synthesia Pardubice	Pardubice K13 Czech Republic	57	80	95,2 / 513	CFB	Lignite, Bituminous Coal, Biomass	2019
M-Haman Company Ltd.	Haman Korea (South)	56	72	40 / 400	CFB	Bio-SRF (waste biomass)	2019
BASF AG (Line 2)	Ludwigshafen Germany		13,2	25 / 270	HWI Rotary Kiln Slagging		
Hoechst AG (Line 1+2)	Frankfurt Germany		15	25 / 270	HWI Rotary Kiln Slagging		

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BASF AG (Line 6)	Ludwigshafen Germany		28	25 / 270	HWI Rotary Kiln Slagging		
Bayer AG	Uerdingen Germany	13,9	135	26 / 350	HWI Rotary Kiln Slagging		1996
DOW Chemical	Freeport/TX USA		28	25 / 224	HWI Rotary Kiln Slagging		1988
Hoechst AG (Line 3+4)	Frankfurt Germany		35	25 / 300	HWI Engng. for Rotary Kiln Slagging		
Preussag AG	Goslar Germany		25	24 / 410	HWI Engng. for Rotary Kiln Slagging		
DOW Chemical	Stade Germany		23,8	42 / 225	HWI Rotary Kiln Slagging		1989

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Rechem International Ltd.	Southampton UK	21,9			HWI Rotary Kiln Slagging	26.000 t/a	1990
Synthesis Semtin	Parubice Czech Republic	7,9	13,1	35 / 320	HWI Rotary Kiln Slagging	15.000 t/a	1996
Eli Lilly and Company	Lafayette/IN USA		16,3	31 / 265	HWI Engng. for Rotary Kiln Slagging		
Gesellschaft zur Beseitigung von Sondermüll in Bayern mbH	Ebenhausen Germany	30,8	32,0	30 / 280	HWI Rotary Kiln Slagging	2x 50.000 t/a	1996
Bayer AG	Dormagen Germany	32,6	34,5	39 / 310	HWI Rotary Kiln Slagging	45.000 t/a	1994
Rechem International Ltd.	Pontypool UK	21,9			HWI Rotary Kiln Slagging	26.000 t/a	1994

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Metalclad Corp.	Newport Beach/CA USA				HWI Engng. for Rotary Kiln Slagging	50.000 t/a	
DOW BSL	Schkopau Germany		34,5	24 / 222	HWI Rotary Kiln Slagging	40.000 t/a	1999
City of Izmit	Izmit Turkey	24,0	21,0	40 / 350	HWI Rotary Kiln Slagging	30.000 t/a	1998
Forschungszentrum Karlsruhe	Karlsruhe Germany	1,5		40 / 250	HWI Rotary Kiln Slagging		2000
BASF	Tarragona Spain	19,7			FGT	45.000 t/a	2000
Chongqing Greening Environmental Protection Co.	Bishan China	11,9	9,0	16 / 204	HWI License for Rotary Kiln Slagging	18.000 t/a	2007

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Chongqing Greening Environmental Protection Co.	Changshou China	9,8	8,0	16 / 204	HWI License for Rotary Kiln Slagging	15.000 t/a	2007
Salyem Petroleum Development N.V. (SPD)	Salyem Russia	2,0	---	---	HWI Rotary Kiln Ashing	17.000 t/a oily sludge, liquid & solid waste Revamp of Existing Rotary Kiln	2014 / 2015