

## **Catalyst Applications**



## **Reference List**

Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
<b>Dry ashed boiler with HD-configuration</b>						
KW Bexbach	SBW, BW, EVS, Badenwerk	hard coal	HD, dry ashed	NOx	2433000	1988
KW Herne, Block 4	STEAG	hard coal	HD, dry ashed	NOx	1423000	1989
KW Scholven, Block D	E.ON	hard coal	HD, dry ashed	NOx	1260000	1989
KW Bergkamen A	STEAG, VEW	hard coal	HD, dry ashed	NOx	1146000	1989
KW Voerde, Block A/B	STEAG-RWE OHG, Voerde	hard coal	HD, dry ashed	NOx	2448000	1989
KW Datteln, Block 3	E.ON	hard coal	HD, dry ashed	NOx	411000	1990
KW Scholven, Block E	E.ON	hard coal	HD, dry ashed	NOx	1260000	1991
KW Reuter West, Block E	BEWAG	hard coal	HD, dry ashed	NOx	930000	1992
KW Reuter West, Block D	BEWAG	hard coal	HD, dry ashed	NOx	930000	1992
KW Staudinger, Block 5	E.ON	hard coal	HD, dry ashed	NOx	1480000	1992
KW Wilhelmshaven	E.ON	hard coal	HD, dry ashed	NOx	2500000	1992
FWK Buer	E.ON	hard coal	HD, dry ashed	NOx	472500	1992
KW Altbach, Block 5	Neckarwerke	hard coal	HD, dry ashed	NOx	1120000	1993
KW Scholven, Block B	E.ON	hard coal	HD, dry ashed	NOx	1260000	1993
KW Heilbronn, Block 7	EVS	hard coal	HD, dry ashed	NOx	1239000	1994
KW Kiel	Stadtwerke Kiel, E.ON	hard coal	HD, dry ashed	NOx	1230000	1994
KW Scholven, Block C	E.ON	hard coal	HD, dry ashed	NOx	1260000	1994
Fusina, Block 3 (I)	ENEL	hard coal	HD, dry ashed	NOx	940000	1995
Fusina, Block 4 (I)	ENEL	hard coal	HD, dry ashed	NOx	940000	1996
KW Scholven, Block F	E.ON	hard coal	HD, dry ashed	NOx	2290000	1997
Enstedvaerket EV3 (DK)	Sonderjyllands Vaerket	hard coal	HD, dry ashed	NOx	946800	1998
Heyden	E.ON	hard coal	HD, dry ashed	NOx	1340000	1999
Weither Block 3	Saarländische Kraftwerks GmbH	hard coal	HD, dry ashed	NOx	2250000	1999
Montour Unit 2 (USA)	PP&L	hard coal	HD, dry ashed	NOx	1380000	2000
Merom Station Unit 1 (USA)	Hoosier Energy	hard coal	HD, dry ashed	NOx	2010183	2002
Montour Unit 1 (USA)	PP&L	hard coal	HD, dry ashed	NOx	1380000	2001
Merom Station Unit 2 (USA)	Hoosier Energy	hard coal	HD, dry ashed	NOx	2010183	2002
Nordjyllandsvaerket (DK)	Elsam A/S	hard coal	HD, dry ashed	NOx	1268500	2002
Amercentrale Unit 8(NL)	Essent Energy	hard coal	HD, dry ashed	NOx	1958400	2003
Spurlock Unit 1 (USA)	East Kentucky Power	hard coal	HD, dry ashed	NOx	1230000	2003
Stuttgart-Münster	ENBW	hard coal	HD, dry ashed	NOx	430000	2004
Wahlheim, Unit 1	ENBW	hard coal	HD, dry ashed	NOx	318000	2004
Wahlheim, Unit 2	ENBW	hard coal	HD, dry ashed	NOx	318000	2004
Mannheim, Unit 7,8	Grosskraftwerk Mannheim AG	hard coal	HD, dry ashed	NOx	1400000	2004
Mannheim Unit 6	Grosskraftwerk Mannheim AG	hard coal	HD, dry ashed	NOx	735000	2005
Asnaes (DK)	Energi E2	hard coal/orimulsion	HD, dry ashed	NOx	1888000	2005

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### Dry ashed boiler with HD-configuration

Mannheim, Unit 6	Grosskraftwerk Mannheim AG	hard coal	HD, dry ashed	NOx	735000	2005
Moneypoint, Unit 2 (Irl)	ESB	hard coal	HD, dry ashed	NOx	1000000	2006
Taeon, Unit 3 (ROK)	KOWEPO	hard coal	HD, dry ashed	NOx	1650000	2006
Taeon, Unit 2 (ROK)	KOWEPO	hard coal	HD, dry ashed	NOx	1650000	2006
Taeon, Unit 1 (ROK)	KOWEPO	hard coal	HD, dry ashed	NOx	1650000	2006
Moneypoint, Unit 1 (Irl)	ESB	hard coal	HD, dry ashed	NOx	1000000	2007
Taeon, Unit 4 (ROK)	KOWEPO	hard coal	HD, dry ashed	NOx	1650000	2007
Taeon, Unit 5 (ROK)	KOWEPO	hard coal	HD, dry ashed	NOx	1650000	2007
Changsha (CHN)	Huadian Corporation	hard coal	HD, dry ashed	NOx	1718000	2007
Hengyun (CHN)	Hengyun Power Plant	hard coal	HD, dry ashed	NOx	1035000	2007
Moneypoint, Unit 3 (Irl)	ESB	hard coal	HD, dry ashed	NOx	1000000	2008
Tonglin (CHN)	Guodian Corporation	hard coal	HD, dry ashed	NOx	1768000	2008
Lianyuan (CHN)	China Huarun Corporation	hard coal	HD, dry ashed	NOx	1033000	2008
Weihe (CHN)	China Datang Corporation	hard coal	HD, dry ashed	NOx	1000000	2008
Huihe (CHN)	Huadian Corporation	hard coal	HD, dry ashed	NOx	1500000	2008
Yancheng (CHN)	Huadian Corporation	hard coal	HD, dry ashed	NOx	1043000	2008
Jining (CHN)	China Datang Corporation	hard coal	HD, dry ashed	NOx	720000	2009
Jinzhou (CHN)	China Datang Corporation	hard coal	HD, dry ashed	NOx	1043000	2009
Baiyanghe (CHN)	China Huarun Corporation	hard coal	HD, dry ashed	NOx	2426000	2009
Tienen (Belgium)	Sugar Manufacturer Tiense	hard coal	HD, dry ashed	NOx	120000	2012
Alpiq Kladno	ERC/Alstom	Lignite	HD	NOx	440000	2014
Maasvlakte Unit 3	Uniper Benelux N.V.	hard coal	HD, dry ashed	NOx	2580000	2016
Nordjyllandsvaerket (DK)	Nordjyllandsvaerket A/S	hard coal	HD, dry ashed	NOx	1268500	2017

### Wet-bottom boiler with HD-configuration

KW Knepper, Block C	E.ON	hard coal	HD, wet bottom	NOx	1040000	1986
KW Staudinger, Block 1	E.ON	hard coal	HD, wet bottom	NOx	400000	1989
KW Staudinger, Block 3	E.ON	hard coal	HD, wet bottom	NOx	1000000	1991
KW Walsum, Block 7	STEAG	hard coal	HD, wet bottom, downstream EPC	NOx	400000	1991
KW Staudinger, Block 2	E.ON	hard coal	HD, wet bottom	NOx	400000	1992
KW Castrop-Rauxel, Block 2	E.ON	hard coal	HD, wet bottom	NOx	528000	1994

Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
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## Oil/gas fired power stations

HKW Niederrad, HD 1	Stadwerke Frankfurt	gas/ls-oil	downstream boiler	NOx	196000	1987
HKW Niederrad, HD 2	Stadwerke Frankfurt	gas/ls-oil	downstream boiler	NOx	196000	1988
KW Ingolstadt, Block 4	Bayernwerk	hs-oil	downstream boiler	NOx	1250000	1990
HKW Lichterfelde 1	BEWAG	hs-oil	downstream boiler	NOx	420000	1990
HKW Lichterfelde 3	BEWAG	hs-oil	downstream boiler	NOx	420000	1991
GKW Schwedt	GKW Schwedt	hs-oil	downstream boiler	NOx	505440	1998
Zürich (CH)	Toni Molkerei	hs-oil	downstream boiler	NOx	14300	1998
HKW Münster Block 2	Stadwerke Münster	hs-oil	LD	DESONOX	200000	1999
Voest Alpine (A)	Voest Alpine Stahl Linz	gas/ls-oil	downstream boiler	NOx	242000	2000
Rafinery Power Station Leuna	Steag	hs-oil	downstream boiler	NOx	162000	2001
Aalborg Slowakia	PGB Poland	Gas	Gasturbine	NOx	141000	2011

## Power stations with LD-configuration

KW Hüls II, Block 3	DEGUSSA	hard coal	LD	NOx	344000	1989
GKW Ost, Lünen, K11	STEAG	hard coal	LD	NOx	1244000	1989
GKW West, Voerde, Block 1	STEAG	hard coal	LD	NOx	1243000	1989
GKW West, Voerde, Block 2	STEAG	hard coal	LD	NOx	1243000	1989
KW Herne, Block 1 u. 2	STEAG	hard coal	LD	NOx	1136000	1989
KW Herne, Block 3	STEAG	hard coal	LD	NOx	587000	1989
KW Kellermann, Lünen, K 10	STEAG	hard coal	LD	NOx	587000	1989
KW Hüls I, Block 4 u. 5	DEGUSSA	hard coal	LD	NOx	967000	1990
KW Shamrock	E.ON	hard coal	LD	NOx	353000	1993
Havana Unit 6 (USA)	Dynegy Midwest Generation	hard coal	LD	NOx	950680	2001
Spurlock Unit 2 (USA)	East Kentucky Power	hard coal	LD	NOx	2037000	2002
Mercer Unit 1 - 2 (USA)	PSEG Power	hard coal	LD	NOx	1397000	2003

Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
<b>Waste incineration plants</b>						
NSVA Dottikon (CH)		special waste	LD	NOx	13761	1993
ARA Buholz (CH)	Gemeindeverband Luzern	sewage sludge	LD	NOx	13470	1993
MVA Hameln, Str. 1 - 3	MVA Hameln GmbH	municipal waste	LD, downstream OFC	NOx	180000	1993
AVI Roteb, Str.1 - 4 (NL)	AVR-Rotterdam	municipal waste	LD, downstream OFC	NOx	329736	1993
MVA Ruhleben	BSRG	municipal waste	LD	NOx	592000	1994
MKVA Krefeld, Str. 1 - 3	EAG/EGK	waste/sewage sludge	LD	NOx/Dioxin	397227	1994
MVA Stelling Moor, Str. 1 u. 2	Freie und Hansestadt Hamburg	municipal waste	LD, downstream OFC	NOx	286060	1994
MVA Alkmaar (NL)	HVC	municipal waste	LD	NOx	325800	1994
MVA Zimndorf	Zweckverband Abfallbes. Rangau	municipal waste	LD	NOx	25000	1994
MHKW Würzburg	Zweckverband Abfallw. Würzburg	municipal waste	LD	NOx	151168	1994
RVA Hüls	DEGUSSA	industrial waste	LD, upstream scrubber	NOx/Dioxin	40000	1995
MVA Hinwil, Str. 1 - 3 (CH)	KEZO	municipal waste	LD	NOx/Dioxin	300000	1995
SAVA Brunsbüttel	SAVA GmbH	municipal waste	LD	NOx	63000	1995
RIP Sang Gae 1 - 2 (ROK)	Seoul City	municipal waste	LD	NOx/Dioxin	222388	1995
MVA Neunkirchen	Sotec GmbH	municipal waste	LD	NOx/Dioxin	113386	1996
KVA Turgi (CH)	Gemeindeverband Baden/Brugg	municipal waste	LD	NOx/Dioxin	102000	1996
MVA Geiselbullach	Gesell. für Abfallverwertung	municipal waste	LD	NOx/Dioxin	109064	1996
KSVA Hüls	DEGUSSA	sewage sludge	LD, upstream scrubber	NOx/Dioxin	42000	1996
MHKW Neustadt	Ostholsteinischer Zweckverband	municipal waste	LD	NOx	68500	1996
MVA Satom (CH)	Soci. Anony. Traitm. Ordur. Ménag.	municipal waste	LD	NOx/Dioxin	71000	1996
MVA Weisweiler	RWE	municipal waste	LD	NOx/Dioxin	364497	1996
AVG Hamburg	E.ON	industrial waste	LD, downstream OFC	NOx	156000	1996
KVA Horgen (CH)	Zweckverband Horgen	municipal waste	LD	NOx/Dioxin	78650	1996
Burgau	Landkreis Günzburg	waste pyrolysis	LD (Ammonia slip)	NH3/NOx	26600	1997
RVA Böhlen	L.&C. Steinmüller	special waste	LD, downstream OFC	NOx	36444	1997
MVA Göppingen	E.ON	municipal waste	LD	NOx/Dioxin	141285	1997
RIP Sung Nam (ROK)	Sung Nam City	municipal waste	LD	NOx/Dioxin	180384	1997
RMHKW Böblingen	Zweckverband RBB	municipal waste	LD, downstream OFC	NOx	65407	1998
RIP UEDCO (ROK)	Ulsan City	municipal waste	LD	NOx/Dioxin	86682	1998
GAVI Wijster (NL)	nv VAM	municipal waste	LD	NOx/Dioxin	141000	1998
Dorog (Hun)	SARP Industries	industrial waste	LD	NOx/Dioxin	50000	1999
St. Gallen (CH)	Kantonshospital	medical waste	LD	NOx	20000	1999
Theresa	Kernfor. Zentr. Karlsruhe	special waste	LD	NOx	5000	1999
Charleroi (B)	I.C.D.I. de Charleroi	municipal waste	LD	NOx	60000	2000
Gent (B)	IVAGO	municipal waste	LD	NOx/Dioxin	177600	2000
Harelbeke (B)	IMOG Harelbeke	municipal waste	LD	NOx	98800	2000
Lille-Halluin (F)	CVE d'Halluin	municipal waste	LD	NOx/Dioxin	81500	2000

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<b>Waste incineration plants</b>						
Peel (Can)	KMS Peel	municipal waste	LD	NOx/Dioxin	212000	2000
RIP Myung-ji (ROK)	Pusan City	municipal waste	LD	NOx/Dioxin	70977	2000
Cork (IRL)	SmithKline Beecham	pharma waste	LD	NOx/Dioxin	19946	2000
RIP Mucha (RC)	CTIC	municipal waste	LD	NOx/Dioxin	77025	2000
Ingelheim	Boehringer Ingelheim Pharma KG	pharma wastegas	LD	NOx/Dioxin	13500	2000
Santander (E)	Sadisa	special waste	LD	NOx/Dioxin	21000	2002
Vidi (CH)	Step de Vidy	sewage sludge	LD	NOx/CO	25500	2003
DDEP (ROK)	Daegu Dajjin	municipal waste	LD	NOx	150000	2003
Dorog (Hun)	Sotec	municipal waste	LD	NOx	50000	2003
Wuerzburg 3	Zweckverband Abfallw. Würzburg	municipal waste	HD	NOx	100000	2003
Cork Incinerator 1 (IRL)	SmithKline Beecham	pharma waste	LD	NOx/Dioxin	10000	2004
KVA Trimmis (CH)	GEVAG	municipal waste	LD	NOx/Dioxin	69300	2004
AVG Koeln	AVG Koeln	municipal waste	LD	NOx/Dioxin	120000	2004
Euljeonbu (ROK)	Euljeonbu City	municipal waste	LD	NOx/Dioxin	28500	2004
Swert (F)	Salamandare	municipal waste	LD	NOx	78700	2004
DDIC (ROK)	Korea Cottrell	municipal waste	LD	NOx	150000	2005
Ivry 1-3 (F)	SYTCOM	municipal waste	LD	NOx/Dioxin	688000	2005
Bourgoin (F)	UIOM	municipal waste	LD	NOx	75000	2006
Sundsvall (S)	Sundsvall Energie AB	municipal waste	LD	NOx	40000	2006
Dorog (Hun)	SATP Industries	industrial waste	LD	NOx/Dioxin	50000	2007
WfE Delfzijl	BKB Delfzijl b.v.	municipal waste	LD	NOx	140000	2009
Dabrowa Gornicza (PL)	Sarpi Dabrowa Gornicza	municipal waste	LD	NOx	40000	2009
Bern Forsthaus	CTU Winterthur	municip. waste/wood	LD crude gas connection	NOx/Dioxin	99500	2012
Dorog (Hun)	SARPI Dorog Kft.	industrial waste	LD	NOx/Dioxin	50000	2012
Dabrowa Gornicza (PL)	Sarpi Dabrowa Gornicza	municipal waste	LD	NOx	40000	2016/2017
SARPI Constanti	SARPI Constanti S.L.U.	hazardous waste	LD	NOx	56000	2016/2017
Currentia SCR-1	Currentia Leverkusen	hazardous waste	LD	NOx	150000	2017

Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
<b>Cogeneration plants/Diesel-engines</b>						
BHKW Siemens-Nixdorf 1	Siemens-Nixdorf	gas	HD	NOx	44000	1991
BHKW Ludwigsfelde	Stadtwerke Ludwigsfelde	diesel/gas	HD	NOx/CO	54728	1993
BHKW Lünen	Stadtwerke Lünen GmbH	diesel/gas	HD	NOx/CO	42800	1993
BHKW Klärwerk München II	Landeshauptstadt München	diesel/gas	HD	NOx	44475	1994
BHKW Wackersdorf	OBAG	diesel/gas	HD	NOx/CO	28950	1994
BHKW Erfurt 1	Stadtwerke Erfurt	diesel/gas	HD	NOx/CO	52242	1994
BHKW Siemens-Nixdorf 2	Siemens-Nixdorf	gas	HD	NOx/CO	7000	1995
BHKW Sulzer 1	Sulzer AG	diesel/gas	HD	NOx/CO	50000	1995
BHKW Sulzer 2	Sulzer AG	diesel/gas	HD	NOx/CO	69000	1995
BHKW Erfurt 2	Stadtwerke Erfurt	diesel/gas	HD	NOx/CO	52242	1996
Coop (I)	Pano Fina	diesel/gas	LD	NOx	2000	1997
FFSS Railways Italy (I)	Italian Railways	diesel	LD	NOx	10000	1999
Olivi (I)	Black & Decker	diesel	LD	NOx	10000	1999
Eon Avacon	Eon Avacon	diesel	LD	NOx	30000	2010

**Chemical plants**

Aceton Chemicals Herne	DEGUSSA	process gas	downstream process	NOx	40000	1987
Adipin Acid Uerdlingen	Bayer, Uerdlingen	process gas	upstream process	NOx	7500	1990
Acrylic Acid	Infracor/Hüls	process gas	downstream process	VOC/CO	50000	1996
Baden (CH)	ZWILAG Würenlingen	plasma oven residues	LD	NOx	3114	1998
Plough (Eire)	Schering Eireland	pharma residues	LD	NOx/Dioxin	10000	1998
Fribourgh (CH)	Tavafibre	fibre residues	LD	NOx	10000	1999
Isophoron	DEGUSSA	process gas	downstream process	NOx	40000	2004
Stockhausen	DEGUSSA	process gas	downstream process	VOC/CO	50000	2005
Plough (Eire)	Schering Eireland	pharma residues	LD	NOx/Dioxin	10000	2010
Acrylic Acid	StoHaas Marl	process gas	downstream process	VOC/CO	50000	2012
Isophoron Herne	Evonik AG	process gas	downstream process	NOx	44000	2014/2016/2017
Acrylic Acid	StoHaas Marl	process gas	downstream process	VOC/CO	50000	2015
GSK Cork (IRL)	Jacobs Engineering	process gas	downstream process	NOx	7000	2017

Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
<b>Refinery</b>						
Olefin Cracker Scholven	VEBA OEL AG	gas	downstream process	NOx	71300	1991
Olefin Cracker Scholven	Ruhrroel GmbH	gas	downstream process	NOx	71300	2004
Olefin Cracker Scholven	Ruhrroel GmbH	gas	downstream process	NOx	71300	2010
Steinmüller	Shell Wesseling	HFO	downstream process	NOx	212000	2010
Standardkessel	Shell Wesseling	HFO	downstream process	NOx	180000	2012
<b>Glass works</b>						
Glaswanne Mitterteich	Schott Rohrglas GmbH	gas	downstream EPC	NOx	60000	1993
Samsung Corning KO2 (ROK)	Samsung Corning Korea	gas	downstream EPC	NOx	65700	1998
Samsung Corning KO6 (ROK)	Samsung Corning Korea	gas	downstream EPC	NOx	12000	1999
Samsung Corning KO7 (ROK)	Samsung Corning Korea	gas	downstream EPC	NOx	59000	1999
Samsung Corning KO8 (ROK)	Samsung Corning Korea	gas	downstream EPC	NOx	114600	1999
Hankook Electric Glas (ROK)	Hankook Electric Glas	hs-oil	downstream EPC	NOx	180000	2000
Samsung Corning China	Samsung Corning China	gas	downstream EPC	NOx	150000	2001
<b>Wood incineration plants</b>						
Märsta (S)	Brista Kraft	wood	HD	NOx	221040	1996
VEAB Växjö (S)	Växjö Energi	wood	HD	NOx	195840	1996
Vaesteras (S)	AB Aroskraft	wood	HD	NOx	292800	2000
Växjö Energi AB	Växjö Energi AB	wood	HD	NOx	200000	2008
Oestersund (S)	Jaemtkraft AB (S)	wood	HD	NOx	258480	2010
Växjö Energi AB	Växjö Energi AB	wood	HD	NOx	200000	2012
Oestersund (S)	Jaemtkraft AB (S)	wood	HD	NOx	286200	2014
Vaesteras (S)	Mälarenergi AB	bio fuel	HD	NOx	297000	2014
Sandvik 3 (S)	Växjö Energi AB	wood/waste wood	HD	NOx	190440	2015



Plant	Operator	Fuel	Configuration	Catalyst	Crudegas Vol. (m <sup>3</sup> /h)	First delivery Year
<b>Explosive incineration plants</b>						
Pinow	Pinow City/Buck	explosives	LD	NOx	7500	1993
Altdorf	Munitionsverbrennung Altdorf	explosives	LD	NOx / CO	12500	1998
Buck Taiwan (Taiw)	Buck Taiwan	explosives	LD	NOx	7000	1998
Steinbach	E.S.T. Steinbach	explosives	LD	NOx	12500	2000
ERC	Marten	explosives	LD	NOx	27000	2010
Pinow	Nammo Buck	explosives	LD	NOx	7500	2011
ERC Technik GmbH	Dynasafe	explosives	LD	NOx	2100	2011/2013/2014/2016/2017
<b>Steel production plants</b>						
Duisburg sintering plant 2	Thyssen Stahl AG	coke/gas	HD	Dioxin	400000	1998
POSCO (ROK)	POSCO Steel	gas	LD	NOx	9000	2000
Janga (PRC)	China Steel	gas	LD	NOx	23000	2005
<b>Crematories</b>						
Döbeln	Crematorium Döbeln		LD	Dioxin	3500	1996
Mainz	Crematorium Mainz		LD	Dioxin	3500	1996
Plauen	Crematorium Plauen		LD	Dioxin	2000	1996
Baden-Baden	Crematorium Baden-Baden		LD	Dioxin	2500	1997
Freiburg	Crematorium Freiburg		LD	Dioxin	2500	1997
Kempten	Crematorium Kempten		LD	Dioxin	2500	1997
Pforzheim	Crematorium Pforzheim		LD	Dioxin	3500	1997
Zittau	Crematorium Zittau		LD	Dioxin	2500	1997
Rostock	Crematorium Rostock		LD	Dioxin	2000	1998
<b>Cement mill</b>						
Solnhofen/Il	Solnhofener Portland-Zementwerke	Oil	HD	NOx	87000	2000
Monselice (I)		Oil / Coal	HD	NOx	160000	2005

HD (configuration):

High dust configuration

LD (configuration):

Low dust configuration

OFC (configuration):

Openhearth furnace coke