The European Fossil-fueled Power Station Database Used in the SEI CASM Model

SEI at York

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USE OF THE DATABASE

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1 INTRODUCTION

This document presents the European power station database developed at the Stockholm Environment Institute at York. The primary use of the database is the estimation of emissions and abatement costs of sulphur and nitrogen oxides from power plants in Europe. These data are used in the SEI acid rain model, CASM. This report presents the database in detail and gives an overview of CASM and the emission abatement cost curves utilised in the model.

2 THE CASM MODEL

The details in the database provide the necessary information to develop input to the Co-ordinated Abatement Strategy Model (CASM), an integrated assessment model that develops and simulates environmentally targeted abatement strategies for reducing acid deposition in Europe. Integrated Assessment Models, including CASM have contributed to the preparation of the 1994 Oslo Protocol on Further Reductions of Sulphur (UN-ECE, 1994).

The organisation of CASM is illustrated in Figure 1 which identifies the four main data input modules:

i) annual sulphur emissions by source region forecast up to target year (e.g. 2010);
ii) atmospheric transfer coefficients specifying the transport of these emissions through the atmosphere to receptors described by a grid of 150 km by 150 km across Europe (Iversen *et al.*, 1989, 1991);
iii) marginal abatement cost curves describing the cost of reducing emission in each source;
iv) critical loads data, these are thresholds to acidic deposition below which no adverse environmental effects occur (Nilsson and Grennfelt, 1988).

The power station database is used in the emissions and abatement cost curve modules. The atmospheric transfer coefficients are taken from EMEP and critical loads data have been developed at SEI (Chadwick and Kuylenstierna, 1990). These input data are used to construct an equation file for optimisation through linear programming. This technique allows the maximum or minimum value of an objective to be found within a given set of constraints, and one of the main strengths of the CASM model is the flexibility available in the choice of this objective. A discussion of the optimisation of abatement strategies using CASM may be found in Gough et al. (1994). One approach that may be adopted is to choose the environmental performance of a strategy as the objective and minimise deposition in excess of critical loads (exceedence minimisation) in a cost-effective manner. Among other approaches, minimising the cost of reducing deposition to within certain target loads may also be implemented in CASM, this is the approach traditionally used in other models (Alcamo et al., 1990).

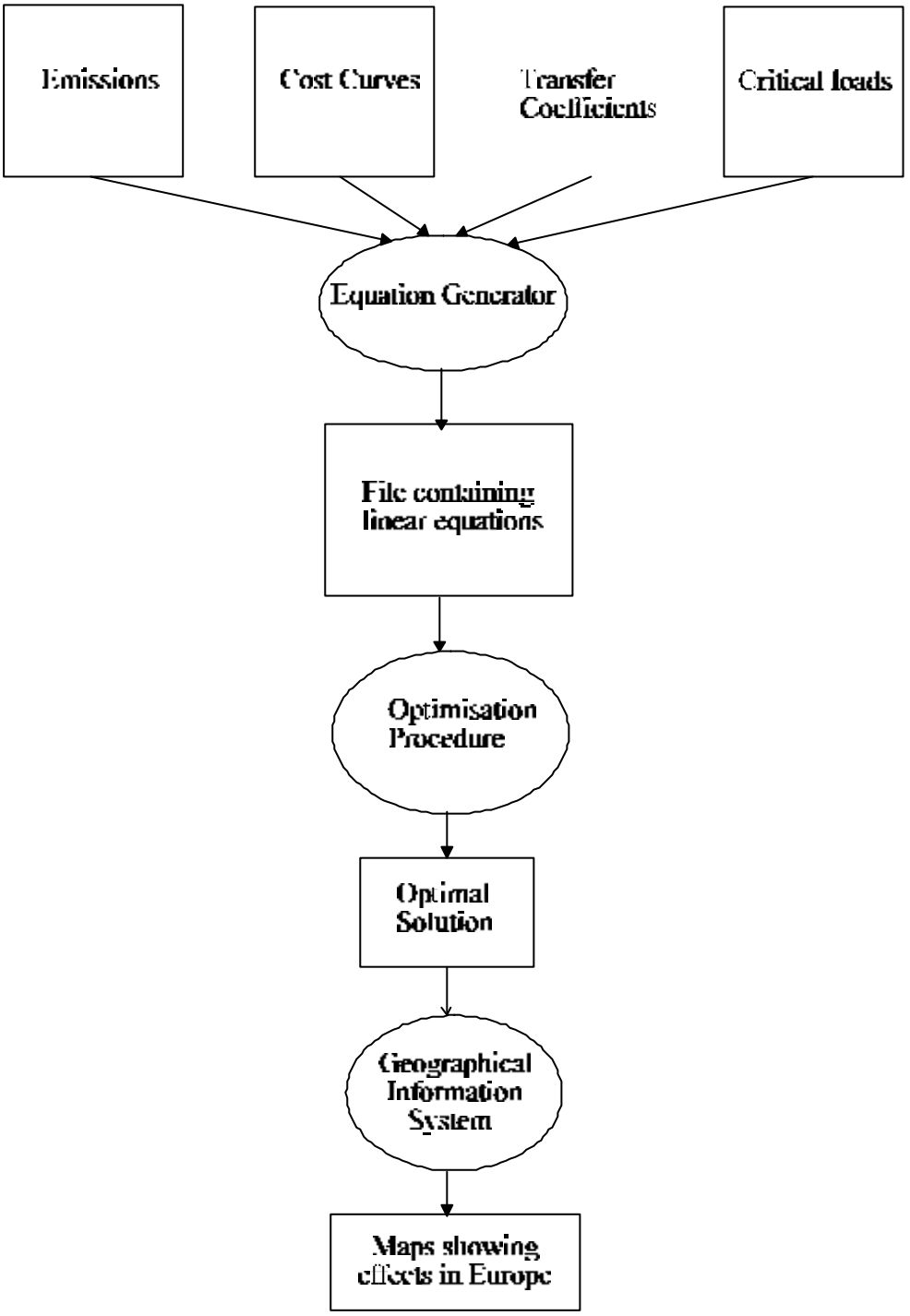

Figure 1. The CASM model

3 EMISSION ABATEMENT COST CURVES IN CASM

The development of cost-effective acid rain control strategies requires estimations of emission abatement costs. An example of a sulphur abatement cost curve is shown in Figure 2. This curve was developed for the year 2000 using energy projections (IEA, 1992a), estimates of the technical efficiency and costs of emission abatement technologies for stationary sources and the costs of oil desulphurization. The unit costs of sulphur emission abatement are sorted to create an increasing marginal cost curve. Examples of individual source abatement costs are labelled in Figure 2, such as the unit cost associated with fitting

FGD to a particular power plant. This was created using the details from the power station database and each power plant is treated separately to provide greater accuracy than other methodologies which assume a characteristic type of power station for each country in Europe (Alcamo et al., 1990). The costs of abating emissions of oxides of nitrogen have also been estimated at SEI using information contained in the database.

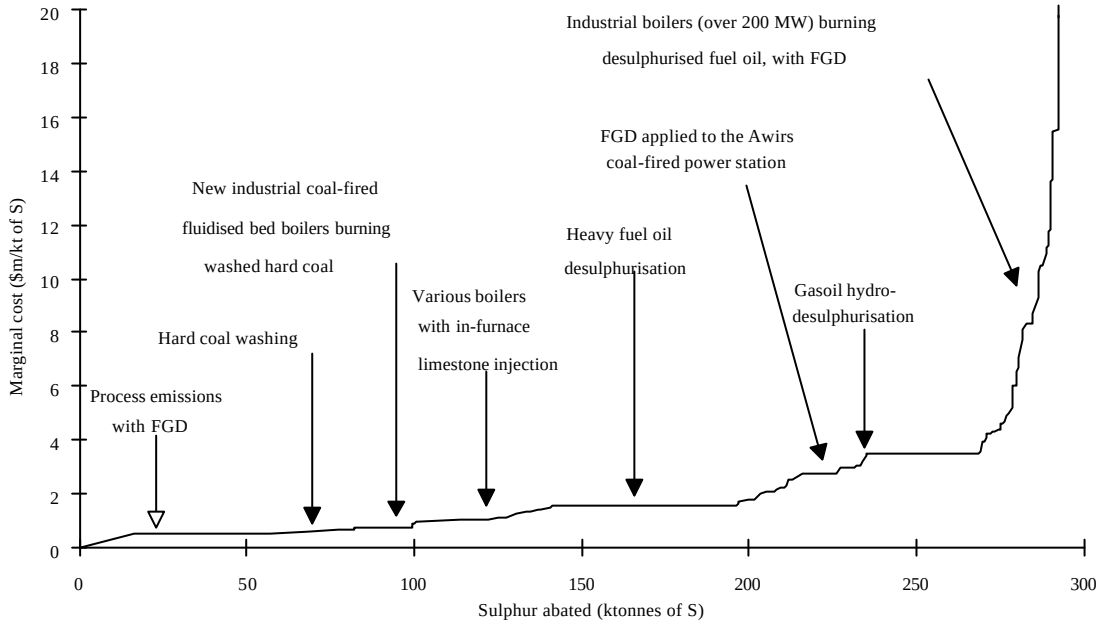

Figure 2. Unit cost curve for sulphur emission abatement in Belgium, year 2000.

4 INFORMATION CONTAINED IN THE DATABASE

The database contains details of power stations in Europe that burn fossil-fuels. The power stations are grouped in countries and/or geographical regions of Europe that correspond to the source regions of the EMEP atmospheric transfer model (Iversen et al., 1989, 1991). All countries in Europe are covered from Ireland to the European region of Russia as far as the Urals.

Each power station has a set of data associated with it - if known the following data is included in the database:

- location (country and EMEP square),
- capacity (net MW electrical output of the station and boiler size),
- year of commissioning, and,
- fuels burnt.

The format of the data is shown in Figure 3.

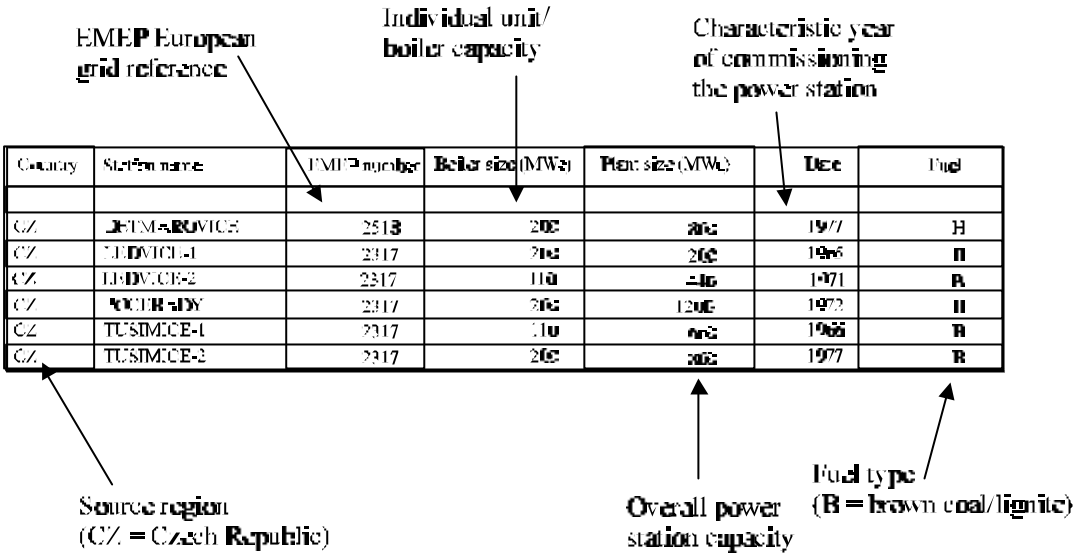

Figure 3. An example from the SEI power station database with the data fields explained.

5 METHODOLOGY USED TO COMPILE THE DATABASE

An attempt has been made to compile the data in a consistent form. Power plant capacities are in net MW electrical output (MWe). It is difficult to obtain statistics in a consistent form for all countries so inconsistencies are bound to remain. If a power station is old (built in the 1950s and 1960s), but no information about its closure was available, the plant was left in the database. The database has been created over many years by Stockholm Environment Institute at York. The first version used the SPRU (1986) and VGB (1985) data-sets. This has been updated using the references cited later.

6 DATABASE FORMAT

The database has the following fields of data: country/region, station name, boiler size, station size, commissioning year, fuel burnt, and notes. The following codes are used for fuels:

G	natural gas and blast furnace gas
D	diesel oil and gasoil
O	heavy fuel oil and residual fuel oil
H	hard coal
K	coke oven gas
B	brown coal and lignite
W	waste, refuse, biomass and peat

The following codes are used for countries:

AL	Albania
AU	Austria
BE	Belgium
BH	Bosnia and Herzegovina
BR	Belarus

BS	Baltic States region (Estonia, Latvia and Lithuania)
BU	Bulgaria
CH	Switzerland
CR	Croatia
CZ	Czech Republic
DN	Denmark
FI	Finland
FR	France
GE	Germany, Eastern region
GR	Greece
GW	Germany, Western region
HU	Hungary
IR	Ireland
IT	Italy
KO	Kola peninsula and Korelia region
LU	Luxembourg
MA	Macedonia
MO	Moldova
NE	The Netherlands
NO	Norway
PL	Poland
PO	Portugal
PS	St. Petersburg region
RO	Romania
RU	Russia, European region
SK	Slovakia
SN	Slovenia
SP	Spain
SW	Sweden
TU	Turkey
UK	United Kingdom
UR	Ukraine
YU	Yugoslavia (Serbia, Montenegro, Kosovo, Vojodina)

All power units are in net MW electrical output (MWe), although it was not always possible to tell from the original source material if this was the case. Similarly the distinction between stations burning heavy fuel oil and gasoil was not always made, in which case the entry in the database is given as heavy fuel oil (O). Unavailable data is entered as N/A.

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APPENDIX:
THE EUROPEAN FOSSIL-FUELED POWER STATION DATABASE

European fossil-fuelled power station database

Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
AL	FIER-1	3214	N/A	100	1968	O
AL	FIER-2	3214	N/A	60	1985	O
AL	KORCE	3215	N/A	6	1965	B
AL	TIRANE	3115	N/A	5	1965	B
AL	MALIGE	3215	N/A	7	1965	B
AL	CERRIK	3215	N/A	7	1965	B
AU	BILDEIN	N/A	N/A	600	1990	H
AU	DONAUSTADT-1	2617	N/A	324	N/A	OG
AU	DONAUSTADT-2	2617	N/A	380	1992	OG
AU	DURNROHR-NEWAG	2517	N/A	350	N/A	H
AU	DURNROHR-1	2517	N/A	440	1986	H
AU	DURNROHR-2	2517	N/A	320	1989	H
AU	GRAZ	2616	N/A	57	1964	BO
AU	HOHE-WAND	2617	N/A	78	N/A	OG
AU	KIRCHDORF	2516	N/A	17	N/A	G
AU	KLAGENFURT	2615	N/A	28	N/A	HBO
AU	KORNEUBERG	2617	N/A	500	N/A	OG
AU	LEOPOLDAU	2617	N/A	100	N/A	OG
AU	LINZ	2516	N/A	160	N/A	OKBG
AU	MELLACH	2616	N/A	320	1986	H
AU	PERNEGG	2616	N/A	104	N/A	O
AU	PINKAFELD	2616	N/A	12	N/A	HO
AU	RIEDERSBACH-1	2415	N/A	55	N/A	BO
AU	RIEDERSBACH-2	2415	N/A	160	1969	B
AU	SALZBURG	2515	N/A	18	N/A	BO
AU	SIMMERING	2617	N/A	706	N/A	OG
AU	ST-ANDRA	2616	N/A	178	1960	BO
AU	ST-ANDRA-3	2616	N/A	325	1990	H
AU	THEISS	2517	N/A	535	N /A	OG
AU	TIMELKAM	2516	N/A	202	1985	BHOG
AU	VOITSBERG	2616	N/A	125	1960	BO
AU	VOITSBERG-3	2616	N/A	300	1983	B
AU	WERNDORF	2616	N/A	295	N/A	O
AU	ZELTWEG	2616	N/A	130	N/A	BO
BE	AMERCOEUR	2014	140	280	1968	HOG
BE	AUVELAIS	2014	N/A	117	N/A	HG
BE	BAUDOUR	2014	N/A	113	1960	HOG
BE	BRESSOUXA	2015	50	50	1953	HOG
BE	BRESSOUXB	2015	60	60	1961	HOG
BE	DROGENBOS	2014	N/A	460	1993	G
BE	FARCIENNES	2014	N/A	93	N/A	HOG
BE	GENK	2015	N/A	148	1975	OG
BE	LANGERLO	2015	200	400	1986	H
BE	GENT	1914	30	60	1953	HO
BE	KALLO	1915	N/A	560	N/A	OG
BE	LANGERBRUGGE	1914	N/A	124	1959	HOG
BE	LES AWIRS	2014	N/A	650	1965	HOG
BE	LIEGE	2015	N/A	187	N/A	OG
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel

BE	MARCHIENNE	2014	N/A	117	1958	HO
BE	MOL	2015	138	276	1965	H
BE	MOL-GT	2015	30	30	N//A	GD
BE	MONCEAU	2014	N/A	120	1964	HOG
BE	PERONNES	2014	N/A	115	1960	HOG
BE	PONT BRULEA	2014	125	125	1961	HOG
BE	PONT BRULEB	2014	140	140	1965	HOG
BE	RODENHUIZEA	1914	140	140	1989	H
BE	RODENHUIZE4	1914	285	285	1990	HOG
BE	RUIEN12	1914	60	120	1958	HO
BE	RUIEN34	1914	140	280	1967	HO
BE	RUIEN5	1914	300	300	1973	HO
BE	SCHELLE	1915	140	280	1966	HOG
BE	WATERSCHEI	2015	60	66	1960	HOG
BE	VERBRANDE-BRUG	N/A	N/A	356	N/A	N/A
BE	SERAING	2015	N/A	460	1994	G
BU	MARITSA 2A	3318	150	600	1984	B
BU	MARITSA2B	3318	210	420	1984	B
BU	MARITSA2C	3318	210	420	1995	B
BU	VARNAA	3320	210	630	1970	H
BU	VARNAB	3320	210	630	1980	G
BU	BOBOV DOL	3217	210	630	1974	B
BU	DIMO DITCHEV	3318	210	840	1975	B
BU	DIMO DITCHEV	3318	210	840	1995	B
BU	ROUSSE	3219	30	60	1965	H
BU	ROUSSE	3219	60	120	1984	H
BU	ROUSSE	3219	110	220	1984	HG
BU	BURGAS	3319	N/A	257	N/A	OG
BU	DEVNYA	3320	100	100	N/A	HG
BU	DEVNYA	3320	20	100	N/A	HG
BU	PLOVDIV	3218	N/A	N/A	N/A	G
BU	PURVA.KOMOSOMOLSKA	3318	150	300	1960	B
BU	PURVA.KOMOSOMOLSKA	3318	50	200	1960	B
BU	KREMIKOVTSI	3217	N/A	178	N/A	BOC
BU	KOZLODUI	N/A	N/A	3760	N/A	H
CH	BASEL	2313	N/A	25	N/A	O
CH	BERN	2313	N/A	25	N/A	O
CH	BEZNAU	2313	N/A	25	N/A	O
CH	CHAVALON	2413	N/A	290	N/A	O
CH	CHENEVIERS	2312	N/A	25	N/A	O
CH	CORNAUX	2313	N/A	25	N/A	O
CH	LAUSANNE	2312	N/A	26	1994	G
CH	MAIGRANGE	2313	N/A	25	N/A	O
CH	MONTHEY	2312	N/A	25	N/A	O
CH	VISP	2313	N/A	25	N/A	O
CH	WEINFELDEN	2314	N/A	25	N/A	O
CZ	DETMAROVICE	2518	200	800	1977	H
CZ	LEDVICE-1	2317	200	200	1965	B
CZ	LEDVICE-2	2317	110	440	1971	B
CZ	POCERADY	2317	200	1200	1972	B
CZ	TUSIMICE-1	2317	110	660	1966	B
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
CZ	TUSIMICE-2	2317	200	800	1977	B

CZ	KOMORANY	2317	25	196	1958	B
CZ	CHVALETICE	2417	200	800	1979	B
CZ	PORICI-2	2418	55	165	1958	H
CZ	OPATOVICE	2418	55	330	1960	B
CZ	HODONIN	2518	55	210	1955	B
CZ	OSLAVANY	2518	30	94	1963	H
CZ	BRNO	2518	15	93	1955	G
CZ	MALESICE-PRAGUE	2417	4	122	1973	B
CZ	TRMICE	2317	5	48	1948	B
CZ	PRUNEROV-1	2317	110	660	1969	B
CZ	PRUNEROV-2	2317	210	1050	1982	B
CZ	MELNIK-1	2417	55	330	1962	B
CZ	MELNIK-2	2417	110	440	1972	B
CZ	MELNIK-3	2417	500	500	1981	B
CZ	KARVINA	2518	25	47	1952	H
CZ	TREBOVICE-1	2518	60	60	1995	H
CZ	TISOVA-1	2317	55	222	1959	B
CZ	TISOVA-2	2317	100	300	1963	B
SK	NOVAKY-A	2618	N/A	103	1954	B
SK	NOVAKY-B	2618	110	440	1978	B
SK	VOJANY-1	2719	110	660	1967	H
SK	VOJANY-2	2719	110	660	1972	G
SK	KOSICE	2719	60	60	1969	H
DN	AARHUSVAERKET	1919	N/A	140	N/A	HO
DN	AMAGERVAERKET-1	2020	135	135	1971	HO
DN	AMAGERVAERKET-2	2020	135	135	1972	HO
DN	AMAGERVAERKET-3	2020	250	250	1989	HO
DN	ASNAESVAERKET-1	2019	125	125	1959	HO
DN	ASNAESVAERKET-2	2019	140	140	1959	HO
DN	ASNAESVAERKET-3	2019	270	270	1959	HO
DN	ASNAESVAERKET-4	2019	270	270	1968	HO
DN	ASNAESVAERKET-5	2019	695	695	1981	HO
DN	ENDSTEDVAERKET-7AND8	2018	N/A	444	N/A	HO
DN	ENDSTEDVAERKET-9	2018	200	200	1994	HO
DN	FYNSVAERKET-4AND6	2019	269	464	1974	HOG
DN	FYNSVAERKET-7	2019	385	385	1991	HOG
DN	KYNDBYVAERKET-1	2019	60	180	1955	H
DN	KYNDBYVAERKET-2	2019	65	150	1973	DG
DN	KYNDBYVAERKET-3	2019	260	520	1974	HG
DN	MASNEDOEVAERKET-1	2019	145	145	1960	H
DN	MASNEDOEVAERKET-2	2019	70	70	1975	D
DN	NORDKRAFT-5AND6	1920	69	110	1962	HO
DN	NORDKRAFT-8	1920	269	269	1973	HO
DN	ORSTED	2020	N/A	237	1994	G
DN	SKAERBAEKVAERKET-1	1919	100	100	1964	HO
DN	SKAERBAEKVAERKET-2	1919	269	269	1971	HO
DN	SKAERBAEKVAERKET-3	1919	350	350	1994	HOG
DN	STIGSNAESVAERKET	2019	270	413	1970	HO
DN	STUDSTRUPVAERKET-1	1919	350	829	1985	HO
DN	STUDSTRUPVAERKET-2	1919	285	285	N/A	O
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
DN	SVANEMOLLEVAERKET	2020	106	106	1994	GD
DN	VENDSYSSELVAERKET	1920	220	440	1987	HO

DN	VESTKRAFT-1	1918	125	182	1965	HO
DN	VESTKRAFT-2	1918	245	245	1969	HO
DN	VESTKRAFT-3	1918	350	350	1992	HO
DN	AMAGERVAERKET-1AND2	2020	135	270	1972	HO
DN	AMAGERVAERKET-3	2020	250	250	1989	HO
DN	AVEDOREVAERKET	2020	250	250	1991	HO
DN	OSTCRAFT	N/A	67	67	N/A	HO
DN	HERNINGVAERKET	1919	89	89	1982	HO
DN	HILLEROD	2020	72	72	1992	G
DN	HELSINGOR	2020	55	55	1994	G
DN	RANDERSVAERKET	1919	45	45	1983	HO
FI	AANEKOSKI	1927	N/A	22	N/A	WO
FI	ESPOO	2126	N/A	90	1977	HO
FI	HAAPAVESI	1827	152	152	1989	W
FI	HAMEENLINNA	2026	N/A	70	1982	HO
FI	HAMINA-1	2126	N/A	57	N/A	GWOH
FI	HAMINA-2	2116	N/A	29	N/A	O
FI	HANASAARI-A	2126	N/A	182	1960	HO
FI	HANASAARI-B	2126	N/A	226	1974	HO
FI	HEINOLA	2026	N/A	31	N/A	HOW
FI	HELSINKI	2125	N/A	213	1992	G
FI	HUUTOKOSKI	2127	N/A	173	N/A	DG
FI	IMATRA-1	2127	N/A	150	N/A	WGO
FI	IMATRA-2	2127	N/A	29	N/A	WGO
FI	INKEROINEN	2126	N/A	136	N/A	GHOW
FI	INKOO	2125	N/A	1060	1978	HO
FI	JAMSANKOSKI	2026	N/A	34	N/A	OWH
FI	JOENSUU	N/A	97	97	1986	W
FI	JOUTSENO	2026	N/A	26	N/A	WGO
FI	JOUTSENO	2026	N/A	26	N/A	WGO
FI	JYVASKYLA-1	2026	N/A	28	N/A	O
FI	JYVASKYLA-2	2026	N/A	35	N/A	O
FI	JYVASKYLA-3	1827	120	120	1986	W
FI	KAIPOLA	2026	N/A	24	N/A	HOW
FI	KAJAANI-1	1828	N/A	42	N/A	WOH
FI	KAJAANI-2	1828	97	97	1989	W
FI	KALLANVAARA	1729	N/A	20	N/A	WO
FI	KARHULA	2126	N/A	23	N/A	WO
FI	KASKINEN	1925	N/A	54	N/A	WO
FI	KAUTTUA	1925	N/A	25	N/A	OHW
FI	KELLOSAARI	2126	N/A	118	N/A	O
FI	KEMI-1	1728	N/A	73	N/A	WO
FI	KEMI-2	1728	N/A	109	N/A	WO
FI	KIRKNIEMI	1927	N/A	32	N/A	OHW
FI	KOKKOLA	1826	N/A	172	N/A	OHW
FI	KOTKA-1	2126	N/A	22	N/A	OWH
FI	KOTKA-2	2126	N/A	80	N/A	HO
FI	KOTKA-3	2126	N/A	160	N/A	O
FI	KOTKA-4	2126	N/A	500	1994	H
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
FI	KRISTIINKAUP	1925	N/A	283	1974	HO
FI	KUOPIO-1	2027	N/A	20	1972	OW
FI	KUOPIO-2	2027	N/A	97	1982	WO

FI	KUUSANKOSKI-1	2126	N/A	34	N/A	WO
FI	KUUSANKOSKI-2	2126	N/A	46	N/A	GOWH
FI	KUUSANKOSKI-3	2126	N/A	43	N/A	GWOH
FI	KYROSKOSKI	1925	N/A	34	N/A	OW
FI	LAHTI-1	2026	N/A	30	N/A	O
FI	LAHTI-2	2026	N/A	150	1975	HO
FI	LAPPEENRANTA-1	2127	N/A	102	N/A	WGOH
FI	LAPPEENRANTA-2	2127	N/A	183	N/A	OG
FI	MANTAA	1926	N/A	32	N/A	WHO
FI	MIKKELI	N/A	41	41	1990	W
FI	MYLLYKOSKI	2126	N/A	48	N/A	HOW
FI	MYLLYPURO	2126	N/A	23	N/A	HO
FI	NAANTALI	2025	N/A	415	1982	HO
FI	NOKIA	1925	N/A	64	N/A	OWH
FI	OULU-1	1827	N/A	43	N/A	WO
FI	OULU-2	1827	N/A	75	1977	WO
FI	PARAINEN	2025	N/A	30	N/A	HO
FI	PIETARSAARI	1826	N/A	66	N/A	WO
FI	PORI-1	1925	N/A	32	N/A	WOH
FI	PORI-2	1925	N/A	240	1976	HO
FI	PORI-3	1925	N/A	51	N/A	O
FI	PORI-4	1925	N/A	550	1993	H
FI	PORVOO-1	2126	N/A	139	N/A	O
FI	PORVOO-2	2126	N/A	40	N/A	O
FI	RAAHENSALO	1827	N/A	76	N/A	O
FI	RAUMA	1925	N/A	78	N/A	WOH
FI	SALMISAARI-B	2126	N/A	190	1984	HO
FI	SEINAJOKI	N/A	128	128	1990	W
FI	SILLINJARVI	1927	N/A	26	N/A	O
FI	SIMPELA	2127	N/A	37	N/A	WO
FI	SUVILAHTI	2126	N/A	12	N/A	O
FI	TAMPERE-1	2026	N/A	148	1976	WO
FI	TAMPERE-2	2026	N/A	33	1982	OW
FI	TURKU	2025	N/A	60	N/A	HO
FI	VAASA-1	1826	N/A	31	1958	O
FI	VAASA-2	1826	N/A	76	N/A	HO
FI	VAASA-3	1826	N/A	165	1971	HO
FI	VALKEAKOSKI-1	2025	N/A	22	N/A	OHW
FI	VALKEAKOSKI-2	2025	N/A	50	N/A	WO
FI	VANTAA	2126	N/A	60	1975	HO
FI	VUOSAARI	2125	N/A	480	1995	G
FI	VARKAUS	2027	N/A	68	N/A	WO
FR	ALBI	2209	250	250	1965	H
FR	AMBES	2009	N/A	1000	N/A	OG
FR	ARAMON	2310	N/A	1370	N/A	O
FR	ARRIGHI	2012	N/A	222	N/A	OG
FR	ARTIX	2108	N/A	366	N/A	G
FR	BLAINVILLE	1812	N/A	100	N/A	O
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
FR	BLENOD	1812	250	1000	1969	H
FR	BOUCHAIN	2014	250	500	1970	HG
FR	BRENNELIS	2010	N/A	249	N/A	O
FR	CARLING-1	2114	125	340	1959	HO

FR	CARLING-2	2114	600	1149	1981	HK
FR	CARLING-FBC	2114	125	125	1991	H
FR	CHAMPAGNE-1	2013	250	490	1965	H
FR	CHAMPAGNE-2	2013	N/A	48	1965	O
FR	CORDEMAIS-1	1910	580	580	1970	HO
FR	CORDEMAIS-4	1910	580	580	1983	H
FR	CORDEMAIS-5	1910	580	580	1984	H
FR	COURRIERES	1913	117	234	1963	HO
FR	DIRINON	N/A	85	170	N/A	O
FR	DUNKERQUE	1914	N/A	468	N/A	OKG
FR	GARDANNE	2410	N/A	280	1967	B
FR	GARDANNE-5	2410	N/A	580	1984	B
FR	GARDANNE-CFBC	2410	250	250	1995	B
FR	GENNEVILLIER	2012	N/A	325	N/A	H
FR	GROSSBLIEDER	2214	110	220	1955	H
FR	HERSERANGE	2014	N/A	123	N/A	HG
FR	HORNAING	2114	250	474	1970	HO
FR	LA-MAXE	2114	250	500	1971	HO
FR	LE-BEC	N/A	N/A	170	1959	H
FR	LE-HAVRE-1	1912	580	1420	1969	HO
FR	LE-HAVRE-2	1912	580	580	1983	H
FR	LOIRE	2311	250	1000	1968	HO
FR	LUCY	2113	248	248	1971	H
FR	MARTIGUES	2410	N/A	1000	N/A	O
FR	MONTERAU-1	2012	250	500	1965	H
FR	MONTERAU-2	2012	N/A	234	1965	OG
FR	NANTES	1910	N/A	450	N/A	OG
FR	PORCHEVILLE	1912	N/A	2340	N/A	O
FR	PT-SAMBRE	2014	242	242	1967	H
FR	PT-DE-CLAIX	2211	N/A	166	N/A	H
FR	RICHEMONT	1913	N/A	384	N/A	HKG
FR	ST-OUEN	2012	N/A	480	N/A	OG
FR	VAIRES	2012	250	490	1966	HO
FR	VAZZIO	2610	N/A	137	N/A	D
FR	VIOLAINES	2211	N/A	234	N/A	HKO
FR	VITRY	2013	260	1040	1971	H
FR	YAINVILLE	1912	N/A	334	N/A	HO
GE	BOXBERG	2318	210	2520	1968	B
GE	BOXBERG-1980	2318	500	1000	1980	B
GE	BOXBERG-1997	2318	800	800	1997	B
GE	HAGENWERDER-1976	2318	500	1000	1976	B
GE	JANSCHWALDE	2318	500	2000	1978	B
GE	JANSCHWALDE-1989	2318	500	1000	1987	B
GE	LIPPENDORF	2217	100	600	1974	B
GE	LIPPENDORF-2000	2217	800	1600	2000	B
GE	LUBBENAU	2318	100	1300	1964	B
GE	THIERBACH	2217	210	840	1971	B
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
GE	VETSCHAU	2318	100	1200	1967	B
GE	ROSTOCK	2119	500	500	1994	H
GE	SCHWARZE-PUMPE	2318	800	1600	1997	B
GR	ALIVERI	3516	150	300	N/A	O
GR	ALIVERI2	3516	40	80	N/A	O

GR	ALIVERI4	3516	N/A	600	1997	H
GR	ST.DEMETRIUS	3315	300	1200	1985	B
GR	ST.DEMETRIUS5	3315	N/A	300	1996	B
GR	KARDIA	3315	300	600	1975	B
GR	KARDIA	3315	300	600	1980	B
GR	KERATSINI	3315	N/A	450	N/A	O
GR	KERATSINI2	3315	N/A	350	1993	G
GR	LAVRIO	3315	N/A	664	N/A	O
GR	MEGALOPOLIS1	3514	300	300	1970	B
GR	MEGALOPOLIS2	3514	300	300	1990	B
GR	MEGALOPOLIS3	3514	125	250	1975	B
GR	PTOLEMAIS1	3315	70	70	1959	BH
GR	PTOLEMAIS2	3315	125	250	1965	BH
GR	PTOLEMAIS3	3315	300	300	1973	BH
GR	AMYNTAION	3315	300	600	1987	B
GR	KOMNINA	3415	N/A	300	1999	B
GR	LIPTOL	N/A	43	43	1959	B
GW	AFFERDE-CFBC	2117	119	119	N/A	HOG
GW	ALTBACH	2314	N/A	542	N/A	HOG
GW	ARZBERG	2316	N/A	210	N/A	OG
GW	ARZBERG-I	2316	110	213	N/A	B
GW	ASCAFFENBERG	2215	145	336	1971	H
GW	BERGKAMEN	2016	693	693	1981	H
GW	BERLIN-CHARL	2218	N/A	200	N/A	O
GW	BERLIN-CHARLOTTENBURG	2218	75	173	1966	H
GW	BERLIN-IGCC	2218	180	180	N/A	H
GW	BERLIN-LICHT	2218	N/A	432	N/A	O
GW	BERLIN-MOABIT-CFBC	2218	139	139	1990	H
GW	BERLIN-OBERHAVEL	2218	91	192	1962	HOG
GW	BERLIN-REUTER	2218	120	220	1969	H
GW	BERLIN-REUTERWEST	2218	284	568	1988	H
GW	BERLIN-RUDOW	2218	100	167	1965	H
GW	BERLIN-WILME	2218	N/A	277	N/A	O
GW	BEXBACH	2114	N/A	703	1983	H
GW	BIELEFELD	2116	N/A	77	N/A	HOG
GW	BORKEN	2116	N/A	152	N/A	B
GW	BRAUNSCWEIG	2117	N/A	64	N/A	HOG
GW	BREMEN-FARGE	2017	325	325	1965	H
GW	BREMEN-HAFEN	2017	300	465	N/A	HOG
GW	BRUNBUTTEL	2018	N/A	268	N/A	O
GW	BUER	N/A	N/A	70	1985	H
GW	BUSCHHAUS	2117	N/A	300	1985	B
GW	DATTELN	2016	N/A	275	N/A	H
GW	DETTINGEN	2215	93	93	1965	HOG
GW	DUISBURG-1AND2	2015	212	281	N/A	H
GW	ELVERLINGSEN	2015	N/A	189	N/A	G
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
GW	ELVERLINGSEN-WERDOHL	2015	300	500	1982	H
GW	EMDEN	2017	80	122	1955	HOG
GW	ENSDORF	2114	300	498	1971	H
GW	ESSEN-GKW-WEST	2015	N/A	630	N/A	H
GW	ESSEN-OST-GKW	2015	N/A	314	N/A	H
GW	FLENSBURG	2018	N/A	177	1988	H

GW	FLINGERN	2016	111	111	1950	H
GW	FRANKEN-1	2316	N/A	450	N/A	OG
GW	FRANKEN-2	2316	194	388	1985	HOG
GW	FRANKFURT	2215	126	126	N/A	H
GW	FRANKFURT-HOECHST	2215	41	82	N/A	H
GW	FRANKFURT-WEST	2215	110	110	N/A	H
GW	FRIMMERSDORF	2015	150	2140	1970	B
GW	GAISBURG	2314	N/A	292	N/A	OG
GW	GOLDENBERG	2115	100	474	N/A	B
GW	GOLDENBERG-CGCC	2115	180	180	1994	B
GW	GOLDENBERG-CHP	2115	200	200	1992	B
GW	HAGEN-KABEL	2015	N/A	185	N/A	OG
GW	HAMBURG-HAFEN	2018	50	50	N/A	H
GW	HANNOVER	2117	N/A	265	N/A	H
GW	HANNOVER-LINDEN	2117	155	155	N/A	HOG
GW	HARPEN	2016	N/A	142	N/A	H
GW	HASTEDT	2017	119	119	1989	H
GW	HAUSHAM	2415	N/A	98	N/A	O
GW	HEILBRONN-1TO6	2215	100	534	1966	HO
GW	HEILBRONN-7	2215	650	650	1985	H
GW	HERDECKE	2015	N/A	139	N/A	G
GW	HERDECKE-2	2015	90	90	1962	H
GW	HERNE-GKW	2016	500	874	1989	H
GW	HEYDEN-4	2116	760	760	1987	H
GW	HUCKINGEN	2015	N/A	564	1985	OG
GW	HUNTORF	2017	N/A	290	N/A	G
GW	IBBENBUREN-B	2016	N/A	702	1985	H
GW	INGOLSTADT	2315	N/A	1048	N/A	O
GW	IRSCHING	2315	N/A	878	N/A	OG
GW	KARLSRUHE-4	2214	95	95	1965	HOG
GW	KARLSRUHE-7	2214	505	505	1985	H
GW	KARLSRUHE-WEST	2214	109	109	N/A	HOG
GW	KASSEL	N/A	64	64	1993	HOG
GW	KIEL-OST	2018	319	319	N/A	H
GW	KIRCHLENGERN	2116	N/A	160	N/A	G
GW	KNEPPER-ATOC	2016	N/A	463	N/A	H
GW	KOLN-NIEHL	2115	N/A	295	N/A	OG
GW	LANDESBERGEN	2117	N/A	787	N/A	OG
GW	LAUSWARD-GAS	2016	N/A	435	N/A	G
GW	LAUSWARD-ATOD	2016	150	390	1964	H
GW	LINGEN	2016	N/A	806	N/A	G
GW	LUBECK	2018	N/A	400	1996	H
GW	LUNEN	2016	106	190	N/A	H
GW	MAINZ-I	2215	N/A	258	N/A	H
GW	MAINZ-II	2215	N/A	240	N/A	OG
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
GW	MANNHEIM	2215	435	865	N/A	H
GW	MANNHEIM-3	2215	190	190	N/A	HOG
GW	MANNHEIM-CHP	2215	435	435	1993	H
GW	MARBACH	2314	N/A	377	N/A	O
GW	MARL	2016	55	55	1986	HOG
GW	MARL-BASF	2016	N/A	235	N/A	H
GW	MARL-CWH	2016	N/A	547	N/A	HG

GW	MARL-VKR	2016	N/A	141	N/A	H
GW	MEHRUM-3	2117	654	654	N/A	HOG
GW	MEHRUM-GAS	2117	N/A	94	N/A	G
GW	MEHRUM-OIL	2117	N/A	96	N/A	O
GW	MEPPEN	2016	N/A	585	N/A	G
GW	MERKENICH	2115	N/A	169	N/A	OG
GW	MITTELSBUREN	2017	N/A	522	N/A	OG
GW	MOORBURG-GAS	2017	N/A	525	N/A	G
GW	MOORBURG-OIL	2017	N/A	653	N/A	O
GW	MUNCHEN-F	2415	N/A	160	N/A	G
GW	MUNCHEN-S	2415	N/A	508	N/A	G
GW	MUNSTER	2314	N/A	68	N/A	H
GW	NEUMUNSTER	N/A	N/A	75	N/A	HOG
GW	NEURATH	2015	600	1964	1976	B
GW	NIEDERRAUSEM	2015	600	2513	1974	B
GW	NURNBERG-SANDREUTH	2316	98	98	N/A	HOG
GW	OFFENBACH	N/A	55	55	1988	HOG
GW	OFFLEBEN	2217	N/A	460	N/A	B
GW	PFORZHEIM	N/A	N/A	27	N/A	HOG
GW	PLEINTING	2416	N/A	694	N/A	O
GW	RADBOD	N/A	N/A	55	N/A	H
GW	RAUXEL	2016	N/A	166	N/A	H
GW	ROMERBRUCKE-CFBC	N/A	N/A	112	1989	HOG
GW	SCHOLVEN	2016	N/A	2056	N/A	H
GW	SCHOLVEN-OIL	2016	N/A	1344	N/A	O
GW	SCHWANDORF	2416	270	450	1972	B
GW	SHAMROCK	N/A	66	132	N/A	H
GW	STADE	2017	N/A	148	N/A	G
GW	STAUDINGER-1TO3	2215	N/A	795	1968	H
GW	STAUDINGER-5	2215	N/A	500	N/A	H
GW	TIEFSTACK	2018	177	177	N/A	H
GW	TIEFSTACK-CHP	2018	150	150	1993	H
GW	VELTHEIM	2116	N/A	480	N/A	HOG
GW	VOERDE	2015	N/A	1335	1985	H
GW	VOLKLINGEN	2114	N/A	193	N/A	H
GW	WALHEIM	2314	153	256	1967	H
GW	WALHEIM-OIL	2314	N/A	120	N/A	O
GW	WALSUM	2015	N/A	456	1988	H
GW	WEDEL	2018	N/A	345	N/A	H
GW	WEHRDEN	2114	N/A	100	N/A	HOKG
GW	WEISWEILER	2015	600	2034	1975	B
GW	WERNE	2016	N/A	705	N/A	HOG
GW	WESSELING	2115	N/A	160	N/A	O
GW	WESTERHOLT	2016	N/A	276	N/A	H
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
GW	WESTFALEN	N/A	300	650	N/A	H
GW	WILHELMSHAVN	2017	705	705	N/A	H
GW	WILHELMSHAVN-GAS	2017	N/A	57	N/A	G
GW	WOLFSBURG	2117	N/A	592	1985	HO
GW	WORRINGEN	2115	N/A	125	N/A	O
GW	WUERZBURG	N/A	N/A	66	N/A	HOG
GW	WUPPERTAL-ELBERFELD	2015	84	84	1990	HOG
GW	ZOLLING	2415	420	420	1985	HOG

HU	MATRA-1	2718	100	200	1965	B
HU	MATRA-2	2718	200	600	1972	B
HU	DUNAMENTI-1	2717	150	580	N/A	OG
HU	DUNAMENTI-2	2717	215	1290	1974	OG
HU	TISZAPALKONYA	2719	50	235	N/A	B
HU	TISZA-2	2719	215	860	1977	OG
HU	AJKA	2717	30	126	N/A	B
HU	BANHIDA	2717	100	100	N/A	B
HU	BORSOD	2719	30	172	N/A	BG
HU	DOROG	N/A	N/A	12	N/A	B
HU	INOTA-1	2717	20	100	N/A	B
HU	INOTA-2	2717	85	170	N/A	G
HU	BUDAPEST-KELENFOLD	2718	N/A	240	N/A	GD
HU	KISPEST	N/A	24	24	N/A	DG
HU	KOBANYA	N/A	22	22	N/A	DG
HU	KOMLO	N/A	10	10	N/A	B
HU	OROSZLANY	2717	50	235	N/A	B
HU	PECS	2717	30	229	N/A	H
HU	TATABANYA	2718	N/A	32	N/A	B
HU	VARPALOTA	2717	N/A	100	N/A	B
IR	AGHADA1	1412	270	270	1981	G
IR	AGHADA2	1412	255	255	1981	GO
IR	ARIGNA	1313	15	15	1950	H
IR	BELLACORRICK	1313	20	40	1952	W
IR	CARHIRCIVEEN	1312	5	5	N/A	W
IR	CORK	1412	N/A	175	N/A	GO
IR	FERBANEA	1413	20	60	1963	W
IR	FERBANEB	1413	30	30	1963	W
IR	GREAT ISLAND	1513	120	240	1984	O
IR	GWEDORE	1413	5	5	N/A	W
IR	MONEYPOINT	1312	305	915	1987	H
IR	NORTH WALL	1413	104	208	1983	GO
IR	NORTH WALLCC	1413	42	42	1983	GO
IR	POOLBEG	1413	170	510	1977	GO
IR	POOLBEGB	1413	150	150	1994	G
IR	RHODEA	1413	20	40	1950	W
IR	RHODEB	1413	40	40	1950	W
IR	SHANNONBRIDGE	1413	42	125	1984	W
IR	TARBERT	1312	250	500	1994	O
IR	LANESBORO	1413	42.5	85	1964	W
IT	ALESSANDRIA	2412	N/A	180	1980	O
IT	AUGUSTA	3110	N/A	140	1961	OG
IT	BASTARDO	2712	N/A	150	1967	HO
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
IT	BASTIDA	N/A	640	1280	1991	H
IT	BRINDISI	3114	N/A	1200	1973	HOG
IT	BRINDISI-SUD	3114	640	2560	1991	HOG
IT	CAGLIARI	2809	N/A	70	1968	HOG
IT	CARPI-NORD	2513	N/A	180	1981	O
IT	CASSANO	2413	N/A	304	N/A	N/A
IT	CHIVASSO	2412	N/A	563	1960	HOG
IT	CIVITAVECHIA	2712	N/A	426	1960	H
IT	CODRONGIANOS	2709	N/A	102	N/A	O

IT	FIUME-SANTO	2709	152	304	1980	O
IT	FIUME-SANTO-1990	2709	300	600	1990	H
IT	FIUMICINO	2812	N/A	70	1979	O
IT	FUSINA	2614	485	970	1970	HO
IT	GENOVA	2512	155	281	1956	HO
IT	GARGALLO-1	3210	N/A	265	N/A	OG
IT	GARGALLO-2	3210	N/A	608	1980	O
IT	GIOIA-TAURO-1	3111	640	1280	1990	H
IT	GIOIA-TAURO-2	3111	640	1280	1992	H
IT	GUALDO-CATTANEOL	N/A	75	150	1992	HOG
IT	LA-CASELLA	2513	N/A	1200	1972	O
IT	LARDERELLO	2612	N/A	189	N/A	N/A
IT	LA-SPEZIA	2512	N/A	1821	1965	HO
IT	MADDALONI	2912	N/A	360	1978	O
IT	MARGHERA-1	2614	N/A	390	N/A	HO
IT	MARGHERA-2	2614	N/A	305	N/A	OG
IT	MARZOCCO	2412	N/A	296	N/A	O
IT	MERCURE	2412	N/A	150	1966	O
IT	MILAZZO-1	3111	N/A	608	N/A	O
IT	MILAZZO-2	3111	N/A	320	N/A	HO
IT	MONFALCONE-A	2614	N/A	620	1967	HO
IT	MONFALCONE-B	2614	300	600	1984	O
IT	MONTALTO-DI-CASTRO	N/A	N/A	2000	1990	OG
IT	NAPOLI-1	2912	N/A	412	1964	HO
IT	NAPOLI-2	2912	90	180	1987	O
IT	OSTIGLIA	2613	N/A	1220	1970	O
IT	OTTANA	2709	N/A	135	N/A	O
IT	PALERMO	3010	N/A	180	N/A	HO
IT	PIACENZA	2513	N/A	653	1967	OG
IT	PIETREFITTA-AFBC	2712	75	150	1978	H
IT	PIOMBINO-1	2612	N/A	640	1976	O
IT	PIOMBINO-2	2612	300	600	1987	H
IT	PORTOSCUSO	2708	N/A	245	N/A	HO
IT	PT-MARGHERA	2614	N/A	160	N/A	HO
IT	PT-TOLLE-1AND2	2613	N/A	1320	1982	O
IT	PT-TOLLE-3	2613	N/A	640	1983	O
IT	PT-TOLLE-4	2613	N/A	640	1984	O
IT	PUGLIA	3113	N/A	455	N/A	KG
IT	RAVENNA-1	2613	N/A	125	N/A	O
IT	RAVENNA-2	2613	N/A	1320	1999	H
IT	ROSANNO	3112	N/A	1280	1977	HO
IT	SAN-FELIPE	3111	N/A	1208	1973	O
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
IT	SAN-FELIPE-2	3111	300	600	1991	H
IT	SERMIDE	2613	300	1200	1984	O
IT	SICILIA-1	3110	N/A	150	1963	OG
IT	SICILIA-2	3110	N/A	1245	1975	OG
IT	SICILIA-3	3110	N/A	180	1987	O
IT	SULCIS	2708	N/A	490	1966	HO
IT	SULCIS-3	2708	N/A	228	1986	H
IT	TAVAZZANNO-1	2412	300	600	1982	O
IT	TAVAZZANNO-2	2412	200	400	1991	HG
IT	TRAPANI	3009	90	180	N/A	O

IT	TURBIGO-1	2412	N/A	145	1962	O
IT	TURBIGO-2	2412	N/A	1146	1970	O
IT	VADO-LIGURE-1	2512	N/A	1200	1971	HOG
IT	VADO-LIGURE-2	2512	300	600	1996	H
IT	VALDALIGA	2712	N/A	1116	1969	O
IT	VALDALIGA-4	2712	N/A	640	1986	O
IT	VALDALIGA-N	2712	640	1920	1985	O
LU	DIFFERDANGE	2114	16	32	1985	OG
LU	DUDELANGE	2114	N/A	15	1985	OG
LU	ESCH-BELVAL	2114	20	60	1985	HOG
LU	GOODYEAR	2114	N/A	12	1985	O
LU	SIDOR	2114	N/A	7	1985	W
LU	YATES	2114	N/A	8	1985	O
NL	AMER-4	2015	223	223	1965	HO
NL	AMER-5	2015	223	223	1966	HG
NL	AMER-6	2015	414	414	1971	GO
NL	AMER-7	2015	414	414	1972	GO
NL	AMER-8	2015	645	645	1980	HO
NL	AMER-9	2015	600	600	1993	HG
NL	AMSTERDAM	1915	N/A	34	N/A	W
NL	BERGUM	1916	323	646	1975	G
NL	BORCULO	2016	25	25	1975	DG
NL	BORSSELE-12	1914	408	408	1987	HG
NL	BORSSELE-20	1914	19	19	1987	DG
NL	BORSSELE-GASIF	1914	600	600	1999	H
NL	BUGGENUM-4AND5	2015	181	304	1966	HOG
NL	BUGGENUM-6	2015	222	222	1986	HG
NL	BUGGENUM-7GASIF	2015	250	250	1993	H
NL	DELFT	1915	25	100	1974	DG
NL	DIEMEN	1915	185	370	1970	OG
NL	DONGE	2015	116	116	1976	G
NL	DORDRECHT	1915	150	300	1968	OG
NL	EEMS	1917	611	611	1977	G
NL	EEMS-CCGT	1917	335	1675	1995	G
NL	FLEVO-1AND2	1916	185	370	1969	OG
NL	FLEVO-3	1916	465	465	1974	OG
NL	FLEVO-G1	1916	25	25	1974	DG
NL	GALILEISTRAAT	1915	125	370	1988	OG
NL	HARCULO	1916	N/A	811	N/A	OG
NL	HELMOND	2015	26	26	1983	G
NL	HEMWEG-5AND6	1915	125	250	1968	OG
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
NL	HEMWEG-7	1915	511	511	1978	OG
NL	HEMWEG-1	1915	18	18	1971	DG
NL	HENGELO	2016	51	102	1968	DG
NL	HUNZE	1917	125	600	1970	OG
NL	HUNZE-GT	1917	17	17	1968	G
NL	LAGE-WIEDE-3AND4	1915	129	258	1969	OG
NL	LAGE-WIEDE-5	1915	255	255	1976	OG
NL	LEEUWARDEN	1916	28	28	1968	D
NL	MAASBRACHT	2015	640	1280	1978	OG
NL	MAASVLAKTE	1915	517	1034	1988	HG
NL	MAASVLAKTE-1997	1915	600	600	1997	HG

NL	GELDERLAND-NIJMEGEN-13	2015	602	602	1981	HO
NL	MOERDIJK	1915	130	130	1985	KG
NL	ROTTERDAM	1915	25	50	1982	G
NL	DEN-HAAG	1915	79	140	1982	OG
NL	SCHIEHAVEN	1915	N/A	180	N/A	OG
NL	TERNEUZEN	1914	23	23	1969	G
NL	UTRECHT-MERWEDEK	1915	107	205	1984	G
NL	UTRECHT-NIC	1915	14	24	1967	DG
NL	VELSEN-9TO23	1915	127	466	1966	OG
NL	VELSEN-24	1915	459	459	1974	OG
NL	VELSEN-25	1915	360	360	1986	OG
NL	VELSEN-G1	1915	26	26	1975	DG
NL	VLISSINGEN-ZEELAND	1914	77	308	1969	OG
NL	WAALHAVEN	1915	N/A	664	N/A	OG
NL	ALMERE	1916	53	120	1992	G
NL	HEMWEG-1994	1915	600	600	1994	HG
NO	KARSTOE	1620	N/A	80	N/A	DG
PL	ADAMOW	2420	120	600	1964	B
PL	PATNOW	2420	200	1600	1967	B
PL	TUROW-1TO7	2418	200	1400	1962	B
PL	TUROW-8AND9	2418	200	600	1971	B
PL	KOZIENICE-1TO8	2521	200	1600	1972	H
PL	KOZIENICE-9AND10	2521	500	1000	1978	H
PL	JAWORZNO1	2519	35	93	1952	H
PL	JAWORZNO2	2519	50	350	1953	H
PL	JAWORZNO3	2519	200	1160	1978	H
PL	BELCHATOW	2520	360	4320	1981	B
PL	BLACHOWNIA	2519	48	244	1957	H
PL	DOLNA ODRA	2219	200	1600	1974	H
PL	LAGISZA	2519	110	755	1963	H
PL	LAZISKA	2519	200	1040	1917	H
PL	LODZ-1TO4	2420	50	512	1978	H
PL	OSTROLEKA-B	2421	200	600	1972	H
PL	POLANIEC	2620	200	1600	1979	H
PL	RYBNIK	2519	200	1600	1972	H
PL	SIERSZA	2519	130	650	1962	H
PL	SKAWINA	2619	90	495	1957	H
PL	STALOWA WOLA	2620	125	357	1938	H
PL	OPEL-1	2519	360	360	1992	H
PL	OPEL-2TO6	2519	360	1800	1996	H
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
PL	HALEMBA	N/A	50	200	1963	H
PL	KONIN-1TO7	2420	55	288	1958	B
PL	KONIN-8AND9	2420	120	240	1964	B
PL	MIECHOWICE	2420	55	101	1954	H
PL	POMORZANY	N/A	56	112	1960	H
PO	CARREGADO	1802	150	750	1973	O
PO	BARREIRO	1802	32	64	N/A	O
PO	SINTRA	1802	22.5	135	1976	O
PO	TUNES	1901	83	198	1978	DG
PO	SETUBAL	1802	250	1000	1981	O
PO	SINES-1	1801	300	300	1985	H
PO	SINES-2	1801	300	300	1986	H

PO	SINES-3	1801	300	300	1987	H
PO	SINES-4	1801	300	300	1989	H
PO	PEGO-ABRANTES	1803	300	1200	1993	H
PO	TAPADA-DO-OUTEIRO	1704	400	800	1995	G
RO	LUDUS-1	2919	200	400	1968	N/A
RO	LUDUS-2	2919	100	400	1968	N/A
RO	GALATI-1	3121	220	220	1976	N/A
RO	GALATI-2	3121	105	105	1976	N/A
RO	BRAZI	3120	200	400	1975	N/A
RO	BUCHAREST-S	3119	100	500	1975	N/A
RO	BUCHAREST-W	3119	N/A	200	1975	OG
RO	ISALNITA-1	3118	315	630	1975	B
RO	ISALNITA-2	3118	100	200	1975	B
RO	ISALNITA-3	3118	51	205	1975	B
RO	MINTIA	2919	210	1260	1975	H
RO	TURCENI	3018	330	2310	1978	B
RO	ROVINARI-1	3018	330	1320	1976	B
RO	ROVINARI-2	3018	200	400	1976	B
RO	ANINA	2918	330	990	1980	O
RO	DOICESTI-1	3119	200	400	1967	B
RO	DOICESTI-2	3119	20	120	1983	B
RO	GIURGIU	3219	50	150	1983	B
RO	NOVIDARI	3321	N/A	50	1983	H
RO	PITESTI	3019	N/A	50	1992	N/A
RO	ARAD	2918	N/A	500	1992	OG
RO	BRAILA	3121	N/A	500	N/A	OG
RO	BRASOV	3020	50	50	1992	B
RO	CRAIOVA	3118	120	240	1987	B
RO	GOVORA	3019	50	100	1985	B
RO	SUCEAVA	2921	50	100	1985	B
RO	ZALAU	2919	N/A	500	N/A	H
RO	ORADEA-1A	2819	50	150	1965	B
RO	ORADEA-1B	2819	25	50	1965	B
RO	ORADEA-2	2819	50	150	1965	B
RO	BORZESTI-2	3020	50	150	1957	B
RO	PAROSENI	3018	50	150	1956	H
RO	PAROSENI	3018	150	150	1964	H
RO	IASI-1	3021	150	150	N/A	G
RO	IASI-2	3021	50	100	1965	B
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
RO	DROBETA-TURNU.SEVERIN	3018	50	200	N/A	B
RO	CALAFAT	3118	45	225	N/A	B
SP	LOS-BARRIOS	2101	550	550	1984	H
SP	LOS-BARRIOS	2101	550	550	NEW	H
SP	ACECA	2004	N/A	627	n/a	O
SP	ABONO-1	1806	N/A	360	1985	HGK
SP	ABONO-2	1806	N/A	550	1974	HGK
SP	ALCUDIA-1	2407	125	250	1982	BO
SP	ALCUDIA-2	2407	125	125	NEW	BO
SP	ALGECIRAS	2101	N/A	753	N/A	O
SP	LITORAL-DE-ALMERIA-1	2303	N/A	550	1984	BH
SP	LITORAL-DE-ALMERIA-2	2303	N/A	550	1994	BH
SP	ALMERIA	2303	N/A	114	N/A	O

SP	ANLLARES	1805	N/A	350	1982	H
SP	AVILES-1	1806	45	45	N/A	BOG
SP	AVILES-2	1806	14	14	1987	BOG
SP	BADALONA-1	2308	N/A	137	N/A	O
SP	BADALONA-2	2308	N/A	344	N/A	O
SP	BESOS	2307	N/A	450	N/A	HO
SP	BURCENA	2007	N/A	50	N/A	O
SP	C.COLON	2001	N/A	378	N/A	O
SP	CADIZ	2001	N/A	138	N/A	O
SP	CASTELLON	2306	N/A	1083	N/A	O
SP	COMPOSTILLA2	1905	200	600	1961	H
SP	COMPOSTILLA5	1905	350	700	1961	H
SP	ESCATRON	2206	80	80	1989	B
SP	ESCOMBRAS	2304	N/A	858	N/A	O
SP	ESCUCHA	2206	175	175	1970	B
SP	FOIX	2307	N/A	520	N/A	OG
SP	PUENTES.RODRIGUEZ	1706	350	1400	1976	B
SP	GUADEIRA	2002	N/A	50	N/A	O
SP	GUARDO-1	1906	148	148	1964	H
SP	GUARDO-2	1906	350	350	1984	H
SP	IBIZA	2406	50	50	N/A	O
SP	LA ROBLA-1	1805	270	275	1984	H
SP	LA ROBLA-2	1805	350	350	1971	H
SP	LADA-1	1806	350	350	1987	H
SP	LADA-2	1806	155	155	1987	H
SP	MAHON	2507	50	50	N/A	O
SP	MALAGA	2102	N/A	122	N/A	O
SP	MATA	2307	N/A	126	N/A	O
SP	MEIRAMA	1605	550	550	1980	B
SP	NARCEA-1-2	1706	109	218	1965	H
SP	NARCEA-3	1706	350	350	1965	H
SP	PASAJES	2007	214	214	1967	HO
SP	PUENTE-NUEVO	2103	N/A	388	N/A	HOB
SP	PUENTE-NUEVO2	2103	N/A	550	1992	H
SP	PUERTOLLANO	2103	N/A	220	N/A	HO
SP	PUERTOLLANO2	2103	N/A	350	NEW	HO
SP	SOTO-DE-RIBERA1	1806	N/A	322	N/A	B
SP	SOTO-DE-RIBERA2	1806	N/A	350	N/A	B
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
SP	SABON	1705	N/A	470	N/A	O
SP	SAN-ADRIAN	2307	N/A	1050	N/A	O
SP	SAN-JUAN	2406	N/A	195	N/A	O
SP	SAN- MOLINAS	2406	N/A	50	N/A	O
SP	SANTURCE	2007	N/A	936	N//A	O
SP	SERCHS	2208	N/A	160	1971	B
SP	TERUEL1	2206	350	1050	N/A	B
SP	TERUEL2	2206	350	350	1999	B
PS	KIRISHI	2227	N/A	2070	n/a	O
PS	LENINGRAD	2227	N/A	1000	N/A	OG
PS	CHP-PLANNED	2227	450	900	1996	G
BS	RIGA2	2324	N/A	390	N/A	OG
BS	EESTI	2226	N/A	1610	1969	SHALE
BS	PRIBALTISKII	2226	N/A	1435	1959	SHALE

BS	IRU	2226	N/A	190	N/A	O
BS	ELEKTRENAI	2423	N/A	1800	N/A	O
BS	VILNIUS-CHP	2424	N/A	384	N/A	N/A
BS	KAUNAS-CHP	2323	N/A	190	N/A	N/A
BS	MAZEIKAI-CHP	2323	N/A	210	N/A	N/A
BR	LUKOMYL	2525	300	2400	N/A	O
UR	SLAVYANSK	3126	N/A	2100	1967	HOG
UR	LADYZHINSK	3023	300	1800	1972	H
UR	UGLEGORSKA	3127	300	1200	1973	H
UR	UGLEGORSKB	3127	800	2400	1977	OG
UR	BURSHTINA	2821	200	1200	1968	HOG
UR	BURSHTINB	2821	200	1200	1975	HOG
UR	ZAPORZHE-A	3125	300	1200	1975	HOG
UR	ZAPORZHE-B	3125	800	2400	1975	HOG
UR	KIEV-A	2824	N/A	700	1976	HO
UR	KIEV-B	2824	N/A	1000	1983	HO
UR	KRIVOI ROG	3124	300	3000	1976	H
UR	KURAKHOVO	3126	200	1400	N/A	H
UR	STAROBESHEVO-A	3126	200	2200	N/A	H
UR	STAROBESHEVO-B	3126	100	100	N/A	H
UR	ZMIEV-A	3026	200	1200	N/A	HG
UR	ZMIEV-B	3026	300	1200	N/A	HG
UR	KHARKOV	3026	N/A	1200	1980	OG
UR	PRIDNEPROVSK-A	3125	100	300	N/A	HOG
UR	PRIDNEPROVSK-B	3125	150	600	N/A	HOG
UR	PRIDNEPROVSK-C	3125	300	1500	N/A	HOG
UR	ZUEVKA-I	3127	300	900	1984	HG
UR	ZUEVKA-II	3127	N/A	1200	1990	HG
UR	VOROSHILOVGRAD-A	3127	100	700	1964	HOG
UR	VOROSHILOVGRAD-B	3127	200	1600	1964	HOG
UR	TRIPOLE	2824	N/A	1800	N/A	H
MO	MOLDAVIA-1	3122	200	2400	1970	HG
MO	MOLDAVIA-2	3122	40	80	1970	G
RU	MOSCOW21CHP	2629	N/A	1260	1975	OG
RU	KONAKOVO	2429	300	2400	1967	OG
RU	KOSTROMA-A	2530	300	2400	1972	OG
RU	KOSTROMA-B	2530	1200	1200	1980	OG
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
RU	CHEREPETSK	2728	N/A	1500	1975	B
RU	KASHIRI	2629	N/A	2070	N/A	B
RU	NEVINNOMYSK	3528	N/A	1430	N/A	OG
RU	IVANOVO	2622	N/A	214	1988	B
RU	NOVOCHERKASK	3228	300	2400	N/A	HOG
RU	RYAZAN-A	2730	300	1200	N/A	B
RU	RYAZAN-B	2730	800	1600	1982	G
RU	SYZRAN	2932	N/A	250	N/A	OG
RU	TBLISI	3829	N/A	1280	N/A	OG
RU	VOLZHSKIY	2733	N/A	605	N/A	OG
RU	YAROSLAVL	2530	N/A	750	N/A	WBOG
RU	NOVOCHEBOKS.	2733	N/A	500	1978	OG
RU	STAVROPOL	3528	300	2400	1979	OG
RU	KAZAN	2733	N/A	250	1980	OG
RU	SCHEKINO	2728	N/A	1025	1980	OG

RU	ULYANOVSK	2833	N/A	250	1980	OG
RU	AZERBAIDZHAN-A	3930	300	1200	1983	G
RU	AZERBAIDZHAN-B	3930	N/A	900	1990	G
RU	MOSCOWCHP22	2629	N/A	1250	N/A	OG
RU	MOSCOWCHP23	2629	N/A	1330	N/A	OG
RU	MOSCOWCHP25	2629	N/A	1020	N/A	OG
RU	SHATURA	2630	N/A	1020	N/A	WBOG
RU	CHEREPOVETS	2430	N/A	N/A	1986	G
SW	AROSKRAFT	1923	N/A	580	N/A	O
SW	BORAS	1921	N/A	142	1984	HO
SW	FYRISKRAFT	1923	N/A	203	N/A	O
SW	GOTEBORG	1920	N/A	74	1983	HO
SW	GOTEBORG-GAS	1920	N/A	500	1997	G
SW	HALLSTAVIK	1923	N/A	250	N/A	O
SW	HALMSTED	2020	N/A	173	1993	G
SW	HASSELBY	2023	N/A	279	1983	HO
SW	HELENEHOLM	2020	N/A	118	N/A	O
SW	HELSINGBORG	2020	N/A	174	1983	HO
SW	JONKOPING	1921	N/A	70	1984	HO
SW	KARLSHAMN	2121	N/A	997	N/A	O
SW	KARSKAR	1924	N/A	168	N/A	O
SW	KIMSTADT	2022	N/A	133	N/A	O
SW	LAHALL	1920	N/A	253	N/A	O
SW	LINKOPING	2022	N/A	70	1985	HO
SW	LULEA	1727	N/A	94	N/A	G
SW	LUND	2020	N/A	59	1991	G
SW	MARVIKEN	2022	N/A	195	N/A	O
SW	NORRKOPING-A	2022	N/A	90	1980	H
SW	NORRKOPING-B	2022	N/A	225	1983	H
SW	OREBRO	1922	N/A	245	1989	HO
SW	ORESUND	2022	N/A	494	N/A	O
SW	OXELOSUND	2023	N/A	1200	1995	H
SW	STALLBACKA	1921	N/A	225	N/A	O
SW	STENUNGSUND	1921	N/A	820	N/A	O
SW	UPPSALA	1923	N/A	330	1985	O
SW	VARTAN	2023	N/A	400	1991	H
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
SW	VASTERAS-A	1923	N/A	270	1981	H
SW	VASTERAS-B	1923	N/A	380	1983	H
TU	YATAGAN	3717	210	630	1983	B
TU	ELBISTAN	3923	340	680	1984	B
TU	ELBISTANB	3923	340	680	1987	B
TU	SOMA-B	3518	165	660	1982	B
TU	SOMA-BNEW	3518	165	330	1994	B
TU	AMBARLI	3419	N/A	630	N/A	O
TU	AMBARLI -GASCC	3419	N/A	1200	1991	G
TU	CATALAGZI	3521	150	300	1990	H
TU	ORHANELLI	3519	210	210	1990	B
TU	SEYITOMER1	3620	150	300	1973	B
TU	SEYITOMER3	3620	150	150	1978	B
TU	SEYITOMER4	3620	150	150	1989	B
TU	TUNCBILEK-B	3619	150	300	1977	B
TU	YENIKOY	3518	210	420	1987	B

TU	KERMEKOY	3818	210	630	1993	B
TU	TEKIRDAG	3419	480	960	1995	H
TU	CAYIRHAN	3621	150	300	1987	B
TU	KANGAL	3824	150	300	1990	B
TU	HAMITABAT	3419	N/A	1200	1995	H
TU	IZMIR	3617	500	1000	1995	H
TU	LEPSIKI-CAN	3518	75	150	1992	B
UK	ABERTHAW-A	1613	94	376	1963	H
UK	ABERTHAW-B	1613	460	1381	1971	H
UK	AGECROFT	1614	116	232	1960	H
UK	BALLYLUMFORD	1414	N/A	1080	N/A	O
UK	BELFAST-WEST	1414	240	240	1958	HO
UK	BLYTH-A	1615	112	448	1958	H
UK	BLYTH-B	1615	310	620	1962	H
UK	CASTLE-DONNINGTON	1714	100	100	1963	H
UK	CLYDES-MILL	1416	55	55	N/A	DG
UK	COCKENZIE	1516	288	1152	1968	H
UK	COOLKEERAGH	1414	N/A	420	N/A	O
UK	COTTAM	1715	485	1940	1969	H
UK	COTTAM-GT	1715	50	50	N/A	DG
UK	COWES	1713	140	140	1982	DG
UK	DIDCOT	1713	480	1920	1972	H
UK	DIDCOT-GT	1713	100	100	N/A	DG
UK	DRAKELOW-C	1714	310	910	1966	H
UK	DRAX-1TO3	1615	625	1875	1974	H
UK	DRAX-4TO6	1615	625	1875	1986	H
UK	DRAX-GT	1615	140	140	N/A	DG
UK	DUNFERMLINE	1516	N/A	140	N/A	O
UK	EGGBOROUGH	1615	480	1920	1969	H
UK	EGGBOROUGH-GT	1615	51	51	N/A	DG
UK	FAWLEY	1713	500	2000	1969	O
UK	FERRYBRIDGE-C	1615	500	2000	1967	H
UK	FIDDLERS-FERRY	1614	470	1880	1971	H
UK	FIDDLERS-FERRY-GT	1614	34	34	N/A	DG
UK	GRAIN	1814	600	2669	1979	O
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
UK	HARTLEPOOL	1615	68	68	1973	DG
UK	HIGH-MARNHAM	1715	186	930	1962	H
UK	INCE	1614	505	1010	1982	O
UK	INVERKIP	1415	N/A	1980	1979	O
UK	IRONBRIDGE	1614	477	954	1970	H
UK	KILROOT-1AND2	1414	300	600	1989	HO
UK	KILROOT-3	1414	360	360	1994	HO
UK	KINCARDINE	1416	188	376	1963	HO
UK	KINGSNORTH	1814	497	1988	1970	HO
UK	LEICESTER	1714	102	102	1976	DG
UK	LETCHWORTH	1714	140	140	1979	DG
UK	LONGANNET	1516	576	2304	1972	H
UK	METHIL	1516	30	60	N/A	H
UK	NORWICH	1815	110	110	1966	DG
UK	OCKER-HILL	1714	140	280	1979	DG
UK	PADIHAM	1614	112	112	1962	H
UK	PEMBROKE	1612	500	2000	1970	O

UK	PETERHEAD	1517	N/A	1226	N/A	OG
UK	RATCLIFFE	1714	500	2000	1968	H
UK	RICHBOROUGH	1814	76	228	1962	O
UK	RUGELEY-A	1714	112	560	1961	H
UK	RUGELEY-B	1714	485	970	1971	H
UK	TAYLORS-LANE	1813	140	140	1979	DG
UK	TILBURY	1814	353	1412	1972	H
UK	USKMOUTH	1613	112	224	1961	H
UK	WATFORD	1714	140	140	1979	DG
UK	WEST-BURTON	1715	477	1908	1967	H
UK	WEST-THURROCK	1814	285	1240	1962	HO
UK	WILLINGTON-A	1614	98	392	1959	H
UK	WILLINGTON-B	1614	188	376	1963	H
UK	ROOSECOTE	1515	229	229	1991	G
UK	KILLINGHOLME-PG	1715	300	900	1992	G
UK	KILLINGHOLME-NP	1715	325	650	1993	G
UK	BARKING	1814	334	1000	1994	G
UK	TEESSIDE	1615	375	1875	1992	G
UK	KEADBY	1715	340	680	1994	G
UK	BRIGG	1715	272	272	1993	G
UK	PETERBOROUGH	1714	348	348	1993	G
UK	SPONDON	1614	318	318	1995	G
UK	CORBY	1714	412	412	1993	G
UK	SELLAFIELD	1515	170	170	1993	G
UK	MEDWAY	1814	330	660	1995	G
UK	RYE-HOUSE	1714	340	680	1994	G
UK	DEESSIDE	1614	450	450	1994	G
UK	KELT-RYEDALE	1615	45	45	1995	G
BH	GACKO	2915	N/A	279	1982	B
BH	KAKANJ-1	2915	110	257	N/A	B
BH	KAKANJ-2	2915	230	230	1990	B
BH	TUZLA	2916	200	685	N/A	B
BH	UGLJEVIK-1	2916	300	300	1990	B
BH	UGLJEVIK-2	2916	300	300	1995	B
Country	Station name	EMEP number	Boiler size (MWe)	Plant size (MWe)	Date	Fuel
CR	OSIJEK	2816	N/A	90	1984	DG
CR	PLOMIN-1	2714	125	125	N/A	H
CR	PLOMIN-2	2714	210	210	1990	H
CR	RIJEKA	2715	N/A	303	N/A	OG
CR	SISAK	2716	N/A	376	N/A	OG
CR	ZAGREB	2715	N/A	205	N/A	OG
MA	OSLOMAJ	3115	N/A	107	1979	B
MA	BITOLA-1	3215	210	420	1982	B
MA	BITOLA-2	3215	210	210	1984	B
MA	BITOLA-3	3215	210	210	1989	B
MA	NEGOTINO	3216	N/A	198	N/A	O
SN	TRBOVLJE-1	2615	116	116	1968	B
SN	TRBOVLJE-2	2615	N/A	88	1968	D
SN	LJUBLJANA-1	2615	32	64	1980	B
SN	LJUBLJANA-2	2615	50	50	1984	B
SN	SOSTANJ	2615	N/A	670	N/A	B
YU	MORAVA	3017	108	108	1969	B
YU	NIKOLA-TESLA-A	2917	340	1650	1975	B

YU	NIKOLA-TESLA-B	2917	620	1240	1985	B
YU	KOSOVO-A	3116	N/A	611	N/A	B
YU	KOSOVO-B	3116	N/A	678	N/A	B
YU	KOSOVO-C	3116	N/A	1200	1977	B
YU	PLJEVLJA	3016	N/A	210	1990	B
YU	NOVI-SAD-1	2917	N/A	120	1984	OG
YU	NOVI-SAD-2	2917	N/A	90	N/A	OG
YU	BEOGRAD	2917	N/A	100	N/A	D
YU	DRMNO-1	3017	348	348	1987	B
YU	JERTOVAC	2716	N/A	97	N/A	DG
YU	KOLUBARA-A	2917	110	245	N/A	B
YU	KOLUBARA-B	2917	350	700	1992	B
YU	KOSTOLAC	3017	N/A	280	N/A	B
YU	S-METROVICA	2917	N/A	50	N/A	BOG