

	<i>name / location</i>	<i>federal state</i>	<i>investor / operation company</i>	<i>status</i>	<i>electric capacity (brutto)</i>	<i>energy source</i>	<i>CO<sub>2</sub> emission per year *)</i>	<i>intended start-up</i>	<i>approval procedure</i>	<i>estimated investment</i>	<i>cogeneration (power &amp; heat)</i>	<i>CCS technology</i>
operating	Boxberg (block BoxR)	Saxony	Vattenfall Europe AG, Berlin	start of construction 04/2007; 2011: significant delay due to defective steel; in operation since 10/2012	675 MW	lignite	5.1 m. t	2012	yes	2.2 bn. €	no	no
	Grevenbroich-Neurath (blocks BoA 2 & 3)	North Rhine-Westphalia	RWE Power AG, Essen	first emission permit 06/2005; start of construction 08/2006; in operation since 08/2012	2,200 MW	lignite	16.7 m. t	2012	yes	2.6 bn. €	no	no
under construction	Datteln (block 4)	North Rhine-Westphalia	E.ON Kraftwerke GmbH, Hannover	6 permits in 2007 and 2008; 09/2009: court declares development plan invalide; 12/2009: E.ON applies for new dev. plan; since 03/2007 building freeze; 06/2012 court annules provisional permit of 2007.	1,100 MW	hard coal	6.2 m. t	2014 (?)	yes	1.2 bn. €	380 MW	planned
	Duisburg-Walsum (block 10)	North Rhine-Westphalia	Evonik STEAG GmbH, Essen (51%) EVN AG - Energie Versorgung Niederösterreich, Maria Enzersdorf (49%)	provisional permit 07/2006; 1. emission permit 12/2006; 2. permit 08/2007; 3. permit 12/2007; 4. and 5. permit 03/2010 private suit pending, heavy delay due to defective steel, exchange of boiler necessary (08/2011)	790 MW	hard coal	4.4 m. t	2013 (?)	yes	0.82 bn. €	no	unclear
	Hamburg-Moorburg	Hamburg	Vattenfall Europe AG, Berlin	first emission permit and water permit 09/2008; BUND sues. Delay due to defective steel in boiler	1,680 MW	hard coal	9.4 m. t	2014	yes	2.2 bn. €	450 MW	CCS retrofit ordered by administration
	Hamm-Uentrop (block D & E)	North Rhine-Westphalia	RWE Power AG, Essen + 23 communities from 4 counties	emission permit 02/2008; start of construction 08/2008; significant delay due to defective steel (boiler)	1,640 MW	hard coal	9.3 m. t	2013	yes	2,3 bn. €	no	unclear
	Karlsruhe (block RDK 8)	Baden-Wuerttemberg	EnBW Kraftwerke AG, Stuttgart	first emission permit 05/2008, water permit 10/2008	912 MW	hard coal	5.1 m. t	2013	yes	1 bn. €	220 MW	land area for CO2 capture available
	Luenen, Stummhafen	North Rhine-Westphalia	Trianel Power Kohlekraftwerk Lünen GmbH & Co. KG, Aachen	provisional permit 05/2008; 1. emission permit 05/2008; 2. permit 08/2008; 3. permit 02/2009; 4. permit 11/2009; in BUND lawsuit court annules provisional permit 12/2011; Operator renews application 08/2012	810 MW	hard coal	4.6 m. t	2013	yes	1.4 bn. €	no	land area available
	Mannheim, Neckarau (block 9)	Baden-Wuerttemberg	GKM AG - Grosskraftwerk Mannheim AG	emission permit 07/2009; water permit 08/2009; start of construction 06/2010; lawsuit of BUND refused 07/2011; heavy delay.	911 MW	hard coal	5.1 m. t	2014	yes	1.2 bn. €	500 MW	land area for CO2 capture available
	Wilhelmshaven	Lower Saxony	GDF SUEZ Energie Deutschland AG, Berlin / BKW Energie AG, Bern (33%)	start of construction 09/2008; 1. emission permit 11/2008 2. permit 12/2009; 3. permit 09/2010; delay due to defective steel in boiler	830 MW	hard coal	4.7 m. t	2014	yes	1.8 bn. €	no	unclear
	<b>8 power plants under construction, 2 recently operating</b>					<b>11,548 MW</b>		<b>70.6 m. t</b>				
in planning process	Niederaussem (Bergheim)	North Rhine-Westphalia	RWE Power AG, Essen	hearing in 05/2008; long on hold; after RWE application regional council decides revision of regional plan 06/2012	1,100 MW	lignite	8.30 m. t	?	no	1.5 bn. €	no	unclear
	Profen	Saxony-Anhalt	Mibrag - Mitteldeutsche Braunkohle-gesellschaft mbH, Theissen	after entrance of Czech provider CEZ, later EPH planning was restarted 07/2011	660 MW	lignite	5.00 m. t	?	no	1.3 bn. €	unclear	unclear
	Stade	Lower Saxony	Dow Chemical (USA)	initial hearing in 05/2008; EnBW drops out in 06/2009; city council decides to set up a new dev plan 05/2010; regional planning procedure necessary	900 MW	hard coal	5.10 m. t	?	yes	unclear	300 MW	unclear
	<b>3 power plants in planning processes</b>					<b>2,660 MW</b>		<b>18.40 m. t</b>				
<b>sum:</b>		<b>13 plants permitted/ under construction/ already operating</b>			<b>14,208 MW</b>		<b>89.0 m. t</b>					

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<b>put on hold</b>	Arneburg	Saxony-Anhalt	RWE Power AG, Essen	concl stops new land dev plan 10/2009; neighbouring communities sue against existing dev plan 01/2010; location analysis by RWE: "put on hold for the moment" 07/2010	1,600 MW	hard coal	9.0 m. t	?	no	unclear	no	unclear
	Brunsbuettel	Schleswig-Holstein	GETEC Energie AG, Hannover	initial hearing in 12/2007; no further activities	800 MW	hard coal	4.5 m. t	?	no	> 1 bn. €	no	no
	Huerth (near Colonge)	North Rhine-Westphalia	RWE Power AG, Essen	pilot project for CCS; location decision announced in 08/2008; withdraw of investment decision 11/2009	450 MW	lignite	? m. t	?	no	2 bn. €	unclear	with post combustion technology
	Herne (block 5)	North Rhine-Westphalia	Evonik Steag GmbH, Essen	provisional permit 12/2007; withdraw of investment decision 01/2008;	750 MW	hard coal	4.2 m. t	?	no	unclear	up to 180 MW	
	Luenen, Moltkestrasse	North Rhine-Westphalia	Evonik STEAG GmbH, Essen	preliminary application 10/2007; no further activities	900 MW	hard coal	5.1 m. t	?	no	1 bn. €	unclear	unclear
	Marl, Chempark	North Rhine-Westphalia	Infracor GmbH, Marl	initial hearing in 09/2008; city plans process to change dev plan for smaller installation 11/2011	900 MW	hard coal	5.10 m. t	?	no	unclear	unclear	unclear
<b>6 power plants on hold</b>					<b>5,400 MW</b>		<b>27.9 m.t</b>					

<b>abandoned</b>	Berlin	Berlin	Vattenfall Europe AG, Berlin	abandonment due to local resistance 03/2009; instead: new gas- and biomass plant (CHP)	800 MW	hard coal	4.5 m. t	---				
	Bremen	Bremen	SWB AG - Stadtwerke Bremen	abandonment due to economical reasons 08/2007; SWB decides to build gas plant (450 MW) 03/2011	900 MW	hard coal	5.1 m. t	---				
	Brunsbuettel	Schleswig-Holstein	GDF SUEZ Energie Deutschland AG, Berlin	abandonment due to delay in permit procedures 12/2010; city annules dev plan 06/2011	830 MW	hard coal	4.7 m. t	---				
	Brunsbuettel	Schleswig-Holstein	SüdWestStrom Kraftwerk GmbH & Co. KG, Tübingen	abandonment due to economical reasons and political and legal resistance 07/2012;	1,820 MW	hard coal	10.2 m. t	---				
	Emden	Lower Saxony	DONG Energy GmbH, Hamburg	abandonment due to economical reasons and (business/) economical factors 10/2009;	1,600 MW	hard coal	9.0 m. t	---				
	Ensdorf	Saarland	RWE Power AG, Essen	abandonment after referendum 11/2007	1,600 MW	hard coal	9.0 m. t	---				
	Doerpen (Emsland)	Lower Saxony	EnBW Kraftwerke AG, Stuttgart (75%) BKW FMB Energie AG, Bern (25%)	EnBW ends the project due to "economical and ecological reasons" 12/2009	900 MW	hard coal	5.1 m. t	---				
	Duesseldorf	North Rhine-Westphalia	Stadtwerke Düsseldorf AG (EnBW-Mehrheit von 54,95 %)	directorate decides to withdraw application for permit and to realise a gas plant instead (400 MW) 04/2010	400 MW	hard coal	2.2 m. t	---				
	Germersheim	Rhineland-Palatinate	EnBW Kraftwerke AG, Stuttgart	abandonment of the project "due to the location" 09/2008	800 MW	hard coal	4.5 m. t	---				
	Jaenschwalde	Brandenburg	Vattenfall Europe AG, Berlin	abandonment of the project due to lack of legal basis (CCS act) 12/2011	500 MW	lignite	1.8 m. t	---				
	Kiel	Schleswig-Holstein	Stadtwerke Kiel AG (50%), E.ON Kraftwerke GmbH (50%)	abandonment due to political pressure from new local government 09/2009; assesment of gas plant	800 MW	hard coal	4.5 m. t	---				
	Cologne	North Rhine-Westphalia	RheinEnergie AG, Cologne	abandonment without statement of reasons 07/2007; instead CCGT plant is planned	800 MW	hard coal	4.5 m. t	---				
	Krefeld-Uerdingen	North Rhine-Westphalia	Trianel Power Kohlekraftwerk mbH & Co	abandonment due to local resistance and economical reasons 07/2011; instead a 1,200 MW gas plant is planned.	810 MW	hard coal	4.6 m. t	---				
	Lubmin	Mecklenburg-Western Pomerania	DONG Energy GmbH, Hamburg	abandonment after 3 years of permit procedure 12/2009	1,620 MW	hard coal	9.0 m. t	---				
Mainz	Rhineland-Palatinate	KWM - Kraftwerke Mainz/Wiesbaden AG, Mainz	project put on hold after pressure on financing institutions 09/2009; official abandonment in 06/2012	823 MW	hard coal	4.7 m. t	---					
Quierschied-Weiher	Saarland	Evonik Steag GmbH, Essen	abandonment without statement of grounds 08/2007	800 MW	hard coal	4.5 m. t	---					

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<b>abandoned</b>	Stade	Lower Saxony	E.ON Kraftwerke GmbH, Hannover	abandoned due to economical reasons 10/2012	1,100 MW	hard coal	6.2 m. t	---				
	Stade	Lower Saxony	GDF SUEZ Energie Deutschland AG, Berlin	abandoned due to strict constrains on noise controll and water protection	830 MW	hard coal	4.7 m. t	---				
	Staudinger (Grosskrotzenburg)	Hesse	E.ON Kraftwerke GmbH, Hannover	abandoned due to economical reasons 11/2012	1,100 MW	hard coal	6.2 m. t	---				
	Wilhelmshaven	Lower Saxony	E.ON Kraftwerke GmbH, Hannover	abandonment of "50plus project" due to lack of credible materials increasing efficiency up to 50% - 04/2010	550 MW	hard coal	3.1 m. t	---				
<b>20 power plants abandoned</b>					<b>19,383 MW</b>		<b>108.1 m. t</b>					

\*) Basis of calculation for CO<sub>2</sub> emissions

hard coal power stations: specific CO<sub>2</sub> emission per kWh electricity = 0.75 kg ; 7,500 full load hours per year

lignite power station: specific CO<sub>2</sub> emission per kWh electricity = 0.95 kg ; 8,000 full load hours per year