

Investment projects conventional plants

Planned investment	Investment volume	Output	Status	Operation due to commence	Comment
Lignite power plant BoA 2&3 Neurath (Germany)	€2,400 million	2,100 MW	under construction	2010/2011	Rate of efficiency: 43 %
Lignite power plant with integrated coal gasification and CO ₂ capture Hürth (Germany), including pipeline	> €2,000 million	315 MW gross: 450 MW	in planning	end of 2014 beginning of 2015	Rate of efficiency: 35 %
Hard-coal power plant Hamm (Germany)	€2,000 million	1,530 MW	under construction	2011	Rate of efficiency: 46 %
Hard-coal power plant Blyth (UK)	> €2,500 million	2,400 MW	in planning	poss. 2014	Rate of efficiency: 46 %
Hard-coal power plant Tilbury (UK)	€1,800 million	1,600 MW	in planning	poss. 2013	Rate of efficiency: 46 %
Hard-coal power plant Eemshaven (Netherlands)	€2,200 million	1,560 MW	planning permission under review	poss. 2012	Rate of efficiency: 46 %
Hard-coal power plant Wola (Poland)	€1,500 million	800 MW	in planning	poss. 2015	Rate of efficiency: 46 %
Combined cycle gas turbine power plant Lingen (Germany)	€470 million	875 MW	under construction	2009	Rate of efficiency: 59 %
Combined cycle gas turbine power plant Staythorpe (UK)	€900 million	1,650 MW	under construction	2009/2010	Rate of efficiency: 58 %
Combined cycle gas turbine power plant Pembroke (UK)	€1,250 million	2,000 MW	granted permission	2010/2011	Rate of efficiency: 59 %
Topping gas turbines Weisweiler (Germany) and Matra (Hungary)	€215 million	380 + 160 MW 60 + 22 MW	in operation	08/06 and 12/06 12/06 and 02/07	
Replanting* at Didcot B (UK)	€75 million	approx. 80 MW	initiated	completion by 2009	Increase of rate of efficiencies: +2 %
Replanting* at Ibbenbüren (Germany)	€61 million	approx. 56 MW, of which 43 MW will be Green MW**	planning permission under review	11/2009	Increase of rate of efficiencies: +2 %
Replanting* at Niederaußern (Germany)	€130 million	approx. 114 MW, of which 66 MW will be Green MW**	granted permission	block G: completion in 2008 block H: completion in 2009	Increase of rate of efficiencies: +2 %
Replanting* at Neurath (Germany)	€20 million	approx. 20 Green MW	in planning	completion by 2009	Increase of rate of efficiencies: +2 %
Extension of the pump storage power plant Vianden (Luxembourg)	€142 million	200 MW	permission expected beginning of 2009	2012	Power for RWE 50 %
Total investments (without sites in operation)	> € 17.4 billion	14.9 GW			

* Measures to improve the efficiency of existing power plants

** Green MW are MW achieved by increasing efficiency without increasing fuel consumption

As of February 2009

Investments in renewables

Planned investment	Investment volume	Output	Status	Operation due to commence	Comment
Wind power					
Windparks Tychowo and Suwalki (Poland)	€100 million	70 MW (total)	contract for wind turbines and maintenance contract for period of five years awarded	2009/2010	
Windparks (Poland)		200 MW	in planning	starting 2010	
Windparks (Poland)		150 MW	permission expected in 2011		
Windpark Greater Gabbard (UK)		500 MW	under construction	2011	50/50 JV with Scottish and Southern Energy
Little Cheyne Court (UK)		60 MW	under construction	2009	
Knabs Ridge (UK)					
Windpark Rhyl Flat (UK)		90 MW	under construction	2009	
Windpark Middlemoor (UK)		75 MW	permission granted		
Windpark Gwynt y Môr (UK)	€2,000 million	750 MW	permission granted	2012 – 2014	
Windparks in the Czech Republic		100 MW	permission expected 2009 – 2011		
Windparks in Hungary		300 MW (total)	in planning		
Offshore-Windpark Innogy North Sea 1 (Juist/Germany)	€2,800 million	960 MW	permission expected 2009	2011 – 2015	takeover of the developing company ENOVA
Offshore-Windpark Tromp (Netherlands)		2,000 MW (total)	in planning, permission expected in 2008		1,150 MW projected at Tromp site; 850 MW projected at different site
Urvasco Energía S.A., Bilbao (Spain)		150 MW	in operation		Acquisition of 6 windparks
Joint venture formed in Italy to develop wind energy projects		3,895 MW	in planning		
Hydroelectric power					
Albbruck-Dogern run-of-the-river plant (Germany, Switzerland)		24 MW (extension)	under construction	2009	Total capacity up to 104 MW
Romney Weir run-of-the-river plant (UK)		0.3 MW	permission granted		
Altenstadt/ Illertissen run-of-the-river plant (LEW/Germany)		1,3 MW	in planning	2010 at the earliest	
Willstätt run-of-the-river plant (Süwag/Germany)		1 MW	in planning		
Bad Ems run-of-the-river plant (Süwag/Germany)		0.2 MW	in planning		
Liebenhain run-of-the-river plant (enviaM/Germany)		0.9 MW	in operation	2008	
Wave energy project (Scotland)		4 MW	planning permission applied for in 2008	2010	
Wave energy project Anglesey (UK)		10.5 MW	application for planning permission in 2009	2010/2011	

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Biomass					
Biomass fired plant Stallingborough (UK)		65 MW	permission granted		
Biomass fired CHP plant Siegen- Wittgenstein (Germany)	€25 million	heat: 30 MW electricity: 8 MW	under construction		Efficiency: up to 70 %
Biomass fired plant Troisdorf (Germany)	€30 million	heat: 18 MW electricity: 7.5 MW	in planning	2009	
Biomass fired CHP plant Goch (Germany)	€30 million	heat: 30 MW electricity: 7 MW	in planning, start of construction planned for autumn 2009		Cooperation with Nähr-Engel GmbH and Stadtwerken Goch GmbH (total stake 20 %)
Biomass fired plant (vegetable oil) Beselich (Süwag/Germany)		1 MW	in planning	2011	
Biogas plant Güterglück (Germany)		6.5 MW	under construction		
Biogas plant Vockerode (enviaM/Germany)		0.3 MW	under construction	2009	
BiogasCHP Weilburg (Süwag/Germany)		50 kW	under construction	2009	
Biogas plant Zwingelhausen (Süwag)		1.1 MW	in planning	2009	
Biogas plant Saarland (VSE/Germany)		0.5 MW	in planning		
Joint Venture formed in Italy to develop 12 biomass projects			in planning		
Geothermal power					
Joint venture for the development of geothermal power station projects formed					Together with geothermal drilling specialist Daldrup & Söhne AG
Total investments (without sites in operation)		9,300 MW			

As of January 2009

Clean Coal Projects

Name	Site	Description	Status
IGCC power station	Hürth near Cologne (Germany)	Power station (450 MW/315 MW net) with integrated coal gasification, CO ₂ sequestration and transport via pipelines, fuel: lignite	Decision on site and fuel: 2008; going operational estimated 2014 /2015
Cooperation RWE/AEP	Hard coal power station Mountaineer (USA)	Demonstration facility 20 MW, post combustion flue gas treatment using ammonia as part of 1,300 MW hard coal power plant Mountaineer	under consideration
Cooperation RWE/BASF/Linde	Niederaußem (Germany)	Test facility for CO ₂ scrubbing to explore new technologies and solvents	under construction
Combustion test facility	Didcot (UK)	0.5 MW test facility, hard coal, treat 33% of flue gas using MEA	operational
CO ₂ Capture pilot plant	Aberthaw (UK)	1 MW _{el} post combustion capture, hard coal	under construction, going operational estimated 2010
Cooperation RWE Dea - State of Schleswig-Holstein	Schleswig-Holstein (Germany)	Seismic exploration of underground for potential CO ₂ storage	started, results of seismic exploration expected for 2009, exploratory drilling possibly to be started in 2010

As of November 2008