

Investment projects conventional plants

Planned investment	Investment volume	Output	Status	Operation due to commence	Comment
Lignite					
Lignite power plant BoA 2&3 Neurath (Germany)	€ 2,400 million	2,100 MW	under construction	2011	Rate of efficiency: > 43%
Lignite power plant with integrated coal gasification and CO2 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					
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	under construction	2013	Rate of efficiency: 46%
Hard-coal power plant Wola (Poland)	€ 1,500 million	800 MW	in planning	poss. 2015	Rate of efficiency: 46%
Gas					
Combined cycle gas turbine power plant Lingen (Germany)	€ 500 million	875 MW	under construction	end of 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	under construction	2010/2011	Rate of efficiency: 59%

Replanting					
Replanting* at Didcot B (UK)	€ 75 million	approx. 80 MW	initiated	in 2009	Increase of rate of efficiency: + 2%
Replanting* at Ibbenbüren (Germany)	€ 100 million	approx. 56 MW, of which 43 MW will be Green MW**	initiated	in 2009	Increase of rate of efficiency: + 2%
Replanting* at Niederaußern (Germany)	€ 130 million	approx. 114 MW, of which 66 MW will be Green MW**	granted permission	Block G: 2008 Block H: 2009	Increase of rate of efficiency: + 2%
Replanting* at Neurath (Germany)	€ 20 million	approx. 20 Green MW**	in planning	completion by 2009	Increase of rate of efficiency: + 2%
Replanting gas-fired plant Lingen (Germany)	€ 200 million	232 MW (replacement of turbines)	planning permission applied for	2011	Increase of rate of efficiency: + 12%
pump storage					
Extension of the pump storage power plant Vianden (Luxembourg)	€ 142 million	200 MW	under construction	2012	Power for RWE 50%
Total investments (without sites in operation)	> €17.6 billion	15.1 GW			

* Provisions for improvement of degree of efficiency in existing plants

** Green MW: improvement of degree of efficiency without use of additional fuel

As of August 2009

Investments in renewables

Planned investment	Investment volume	Output	Status	Operation due to commence	Comment
Wind power					
Windpark Suwalki (Poland)		41 MW	in operation	2009	
Windpark Tychowo (Poland)		35 MW	in planning	2010	
Windparks (Poland)		300 MW	in planning	by 2015	
Windpark Greater Gabbard (UK)		500 MW	under construction	2011	50 / 50 Joint Venture with Scottish and Southern Energy
Little Cheyne Court (UK)		60 MW	in operation	2009	
Knabs Ridge (UK)		16 MW	in operation	2008	
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-Windparks (Netherlands)		2,000 MW (total)	permission partly received		Permission for 300 MW windpark Tromp Binnen received
Offshore-Windpark Innogy North Sea 1 (Juist / Germany)	€ 2,800 million	960 MW	permission expected	2009	takeover of the developing company ENOVA
Urasco 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	about to commence		
Offshore-Windpark Thornton Bank (Belgium)		300 MW	under construction	2013	Acquisition (share: 27 %)
Hydroelectric power					
Albbruck-Dogern run-of-the-river plant (Germany, Switzerland)	€ 70 million	24 MW (extension)	under construction	2009	Total capacity increased to 104 MW
Romney Weir run-of-the-river plant (UK)		0.3 MW	permission granted		

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Altenstadt / Illertissen run-of-the-river plant (LEW / Germany)		1.3 MW	in planning	soonest commissioning 2010	
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 Siadar Bay (Scotland)		4 MW	planning permission applied for in 2008	2010	
Wave energy project Anglesey (UK)		10.5 MW	planning permission applied for in 2009	2010 / 2011	
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	2009	Efficiency: up to 70 %
Biomass fired plant Troisdorf (Germany)	€ 30 million	heat: 18 MW electricity 7,5 MW	in planning	2011	
Biomass fired CHP plant Goch (Germany)	€ 30 million	heat: 30 MW electricity 7 MW	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		
Biogas plant Güterglück (Germany)		6.5 MW	under construction	2009	
Biogas plant Vockerode (enviaM / Germany)		0.3 MW	under construction	2009	
Biogas CHP Weillburg (Süwag / Germany)		50 kW	under construction	2009	
Biogas plant Zwingelhausen (Süwag / Germany)		1.1 MW	in planning		
Biogas plant Saarland (VSE / Germany)		0.5 MW	in planning		
Joint Venture formed in Italy to develop 12 Biomass projects			in planning		
Biomass Lincolnshire (UK)	€ 260 million	65 MW	in planning		

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Biomass shire Fife (UK)	€ 235 million	50 MW	in planning	2012	
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)		9,715 MW			

As of October 2009