

# new power plants in Germany




## project overview 1/5

>> new fossil power plants in Germany >100MW

last update: February 10, 2016










### power plants (lignite)


power plants (lignite)	gross output	year of commissioning, phase and probability of realization*		
<b>Profen (Mibrag)</b>	<b>660 MW</b>	<b>2020</b>	<b>in planning</b>	
Process of approval is underway (19. April 2012) // process of changing the regional plan started 2013 // first permissions are expected until the end of 2014 // project has been put on hold due to uncertain economical and political conditions // planned start of construction was 2015 // still lack of investors				
<b>Niederaußem BoA 4/BoAplus, Bergheim (RWE)</b>	<b>1100 MW</b>	<b>open</b>	<b>in planning</b>	
On 7. October 2011 RWE Power submitted a proposal to the Cologne district government to change the regional plan // District government changed the regional plan 2013 // City of Bergheim changed the land use plan in the end of 2014 // First Scoping in Sep 2015 // Total Investment 1,5 Mrd. Euro // final decision depends on legal certainty and economical conditions				
<b>Lausitz (Vattenfall)</b>	<b>2000 MW</b>	<b>open</b>	<b>in planning</b>	
Will replace an old 535 MW unit // Commissioning date likely to be from 2025 // Total Investment 2,0 Mrd. Euro // Decision not before 2018				



### power plants (hard coal)

power plants (hard coal)	gross output	year of commissioning, phase and probability of realization*		
<b>Westfalen Block D and Block E, Hamm-Uentrop (RWE)</b>	<b>800 MW</b> <b>800 MW</b>	<b>-</b> <b>2014</b>	<b>aborted</b> <b>in operation</b>	 
Increase of costs and delays caused great displeasure and the exit of all partners by the end of 2015 // Block E which started commercial operation in July 2014 will be operated by RWE alone // Block D has been aborted due to costly technical problems, delays and uneconomicalness				
<b>Moorburg 1 and Moorburg 2, Hamburg (Vattenfall)</b>	<b>820 MW</b> <b>820 MW</b>	<b>2015</b> <b>2015</b>	<b>in operation</b> <b>in operation</b>	 
Technical problems caused delays // procedure of licensing the planned district heating network not completed yet // an alternative and likely scenario to the extension of the district heating network is a further CCPP north of the river Elbe // Block B started commercial operation in March 2015, Block A in August/ September 2015				
<b>Mannheim Block 9, Mannheim-Neckarau (GKM)</b>	<b>911 MW</b>	<b>2015</b>	<b>in operation</b>	
Technical problems caused huge delays // Environmental group BUND takes legal action against the environmental approval // commercial operation since May 2015				
<b>Wilhelmshaven (GDF SUEZ / BKW FMB)</b>	<b>800 MW</b>	<b>2015</b>	<b>in operation</b>	
Technical problems caused delays (esp. T24 steel) // commercial operation started at the end of October 2015				
<b>Datteln Block 4 (Uniper)</b>	<b>1100 MW</b>	<b>2017</b>	<b>under constr.</b>	
Plan revision procedures encounter heavy resistance and the outcome still remains uncertain // in view of the Trianel-ruling the City of Datteln remains optimistic // decision for Plan revision procedures in December 2013 // according to Uniper commercial operation not later than the end of 2017				

probability of realization (best guess)

 = unlikely

 = possibly

 = probably

 = for sure

# new power plants in Germany






## project overview 2/5

>> new fossil power plants in Germany >100MW

last update: February 10, 2016






### power plants (hard coal)

power plants (hard coal)	gross output	year of commissioning, phase and probability of realization*	
<b>Dow Chemical, Stade (DOW)</b> <small>EnBW withdrew from the project // Dow will continue on its own // process of approval to change the land use plan was successful // Environmental group BUND takes legal action against the development plan // final decision depends on legal certainty and economical conditions // commissioning date planned to be from 2018</small>	<b>900 MW</b>	<b>2018</b>	<b>in planning</b> 
<b>Industriepark, Brunsbüttel (GETEC Energie)</b> <small>Project has been put on hold</small>	<b>800 MW</b>	<b>open</b>	<b>no information</b> 
<b>Lünen (Steag)</b> <small>We believe that the project is no longer being pursued or has been put on hold // project does not appear on a semi-official list released by the BDEW in April 2013</small>	<b>900 MW</b>	<b>open</b>	<b>no information</b> 
<b>Herne (Steag)</b> <small>We believe that the project is no longer being pursued or has been put on hold // project does not appear on a semi-official list released by the BDEW in April 2013</small>	<b>750 MW</b>	<b>open</b>	<b>no information</b> 
<b>Stade (Uniper)</b> <small>Process of approval is underway (19. April 2012) // Project has been put on hold</small>	<b>1100 MW</b>	<b>open</b>	<b>no information</b> 



### power plants (natural gas)

power plants (natural gas)	gross output	year of commissioning, phase and probability of realization*	
<b>Bremen (swb, Mainova, DB, TOBI, ovag)</b> <small>Commissioning date repeatedly delayed to third quarter of 2016 // after the start of operation the operator seeks to qualify the plant as a reserve power plant due to economical conditions</small>	<b>445 MW</b>	<b>2016</b>	<b>under constr.</b> 
<b>Lausward, Düsseldorf (Stadtwerke Düsseldorf)</b> <small>Decision to build at the end of 2011 // financing has been secured // Siemens will be the manufacturer // building time expected to be 32 months // natural gas will be supplied by Statoil for 15 years // construction well on schedule // in operation since January 2016</small>	<b>595 MW</b>	<b>2016</b>	<b>in operation</b> 
<b>Niehl 3, Köln (RheinEnergie)</b> <small>Decision to build was made in September 2012 // manufacturer will be Alstom // RheinEnergie only investor due to uncertain market conditions // construction well on schedule // commissioning date planned to be from spring 2016</small>	<b>450 MW</b>	<b>2016</b>	<b>under constr.</b> 

probability of realization (best guess)

 = unlikely

 = possibly

 = probably

 = for sure

# new power plants in Germany

## project overview 3/5

>> new fossil power plants in Germany >100MW

last update: February 10, 2016



### power plants (natural gas)

power plants (natural gas)	gross output	year of commissioning, phase and probability of realization*		
<b>HKW Haferweg, Hamburg (Vattenfall)</b> Heatplant // construction well on schedule // commissioning date planned to be from 2015/2016	<b>150 MW</b>	<b>2015</b>	<b>under constr.</b>	
<b>HKW Lichterfelde, Berlin (Vattenfall)</b> Heatplant // Permissions are granted // manufacturer will be Iberdrola // GE will deliver gas-turbine // construction will begin in 2014 // commissioning date planned to be from 2016	<b>300 MW</b>	<b>2016</b>	<b>under constr.</b>	
<b>Kiel (Stadtwerke Kiel)</b> 20 gas-fired engines à 10 MW // Kraftanlagen München and GE will be manufacturers // delays due to uncertain economical and political conditions // beginning of construction was planned to start from the end of 2013 // Repower withdrew from the replacement of an old coal fired power plant // Total investment 290 Mio. € // first preparations on the way // final investment decision not made yet - expected in autumn 2016 when financing (75% debt financing) is provided // former Investor (MVV) withdrew from the project and came back again // Considerations to retrofit the coal power plant and to let it run until 2025	<b>200 MW</b>	<b>2018</b>	<b>in planning</b>	
<b>Chemiepark Leverkusen (Steag)</b> Process of approval is underway (19. April 2012) // Total Investment 350 Mio. Euro // GE and Iberdrola will be manufacturers // delays due to uncertain economical and political conditions // beginning of construction was planned to start from the end of 2013 // Repower withdrew from the project and sold it to Steag in May 2015 // building time expected to be 30 months // final investment decision not made yet	<b>570 MW</b>	<b>2018</b>	<b>in planning</b>	
<b>HKW Marzahn, Berlin (Vattenfall)</b> Heatplant // Siemens will be prime contractor // final decision expected in 2016 // commissioning date planned to be 2020	<b>260 MW</b>	<b>2020</b>	<b>in planning</b>	
<b>Haiming, Burghausen (OMV)</b> Permissions are granted // Project is still active and alive // investment expectations cannot be fulfilled yet due to uncertain economical and political conditions // main milestones have been postponed // decision to build has been postponed to 2015 // commissioning date planned to be between 2017 and 2019	<b>800 MW</b>	<b>2018</b>	<b>in planning</b>	
<b>Schweinfurt (PQ Energy/ Blackstone)</b> Peak and backup power plant // Process of approval is not underway yet // Total investment 400 Mio. Euro // output from 800-1040 MW // location already secured // aborted	<b>800 MW</b>	<b>-</b>	<b>aborted</b>	
<b>Gersteinwerk, Werne (RWE)</b> Process of approval is underway // location already secured // final decision depends on economic conditions	<b>1300 MW</b>	<b>2018</b>	<b>no information</b>	
<b>Leipheim (Stadtwerke Ulm/Neu-Ulm)</b> A referendum decided to build a new power plant // final decision 2015 // beginning of construction could commence in 2015 // project comes in two phases: 1st phase: gas turbine, 2nd phase: steam turbine // commissioning date (phase 1) planned to be from 2019	<b>1200 MW</b>	<b>2019</b>	<b>in planning</b>	
<b>Wedel (Vattenfall)</b> "Innovative" power plant with thermal store // replacement of an old power plant in Hamburg Wedel and an alternative to the planned extension of the district heating network as part of the new power plant in Moorburg // performance audit not finished yet // retrofitting and the extension of operation of an old coal-fired plant meanwhile decided // final decision maybe in 2016 // commissioning date postponed from 2015/2016 to middle of 2019	<b>300 MW</b>	<b>2019</b>	<b>in planning</b>	

probability of realization (best guess)

= unlikely

= possibly

= probably

= for sure

# new power plants in Germany

## project overview 4/5

>> new fossil power plants in Germany >100MW

last update: February 10, 2016



### power plants (natural gas)

power plants (natural gas)	gross output	year of commissioning, phase and probability of realization*	
<b>Griesheim (PQ Energy/ Blackstone)</b> Peak and backup power plant // Process of approval is not underway yet // Total investment 250 Mio. Euro // Scoping Jan 2013 // final decision depends on economic conditions	<b>500 MW</b>	<b>2019</b>	<b>no information</b> <span style="color: red;">■</span>
<b>HKW Klingenberg, Berlin (Vattenfall)</b> Heatplant // Process of approval is underway (19. April 2012) // final decision depends on legal certainty and economical conditions // commissioning date planned to be from 2020	<b>300 MW</b>	<b>2020</b>	<b>in planning</b> <span style="color: orange;">■</span>
<b>Chemiepark Uerdingen, Krefeld (Trianel / Currenta und Partner)</b> Investment decision depends on regulation, capacity markets and economic conditions // beginning of construction delayed for three years // about 50 investors expressed their interest to have a share in the plant // commissioning date planned to be from 2019/2020	<b>1200 MW</b>	<b>2020</b>	<b>in planning</b> <span style="color: orange;">■</span>
<b>Gundelfingen (PQ Energy/ Blackstone)</b> Peak and backup power plant // Process of approval is not underway yet // location already secured // cooperation with RWE possible // final decision depends on economic conditions	<b>1200 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Oberrhein, Karlsruhe (MiRO und Trianel)</b> Joint Power plant // could be a replacement of an old nuclear power plant (Philippsburg 2) // Process of approval not before 2015 // commissioning date planned to be after 2020	<b>1200 MW</b>	<b>open</b>	<b>in planning</b> <span style="color: red;">■</span>
<b>Grundremmingen (RWE)</b> Possible replacement for an old nuclear power plant at the same location // Process of approval started at the end of 2014 // RWE wants to keep an option for this location // there is no schedule yet	<b>offen</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Mecklar-Marbach, Ludwigsau (Dong Energy)</b> Process of approval is underway (19. April 2012) // Iberdrola withdrew from the project and sold it to Dong Energy // Meanwhile Dong Energy also withdrew from the project and is trying to sell it	<b>1100 MW</b>	<b>open</b>	<b>for sale</b> <span style="color: red;">■</span>
<b>Duisburg-Wanheim (Stadtwerke Duisburg)</b> Joint Power plant // replacement of an old coal fired power plant of Steag in Duisburg Walsum // decision has been postponed due to uncertain economical conditions	<b>600 MW</b>	<b>open</b>	<b>on hold</b> <span style="color: red;">■</span>
<b>Chempark Marl (Infracor)</b> Planning concept on the way from 2013 says the city of Marl // type of fuel unknown but probably not coal // many questions remain to be answered // no decision yet	<b>600 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Weiher, Quierschied (Steag)</b> Permissions are granted // replacement of an old coal fired power plant // gas-pipeline is currently being installed // no decision yet	<b>500 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Herne (Steag)</b> Process of approval for a gas pipeline is underway // Steag wants to keep an option for this location	<b>offen</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>

probability of realization (best guess)

■ = unlikely

■ = possibly

■ = probably

■ = for sure

# new power plants in Germany

## project overview 5/5

>> new fossil power plants in Germany >100MW

last update: February 10, 2016



## power plants (natural gas)

power plants (natural gas)	gross output	year of commissioning, phase and probability of realization*	
<b>Sachsen-Anhalt, Calbe (GDF SUEZ Energie)</b> Process of approval is underway (19. April 2012) // no news for a long time // we believe that the project is no longer being pursued or has been put on hold	<b>400 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>RDK 6S, Karlsruhe (EnBW)</b> Permissions are granted // repowering of block 6 (RDK 6S) // project has been postponed	<b>465 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Premnitz (EDF Deutschland)</b> Process of approval is underway (19. April 2012) // Alpiq withdrew from the project and sold it to EDF Deutschland	<b>400 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Meppen (unknown, formerly NUON)</b> We believe that the project is no longer being pursued or has been put on hold	<b>450 MW</b>	<b>open</b>	<b>no information</b> <span style="color: red;">■</span>
<b>Lubmin (EWN Energiewerke Nord)</b> At the end of 2014 EWN decided to suspend all planning	<b>1800 MW</b>	<b>-</b>	<b>aborted</b> <span style="color: red;">■</span>

### probability of realization (best guess)

■ = unlikely

■ = possibly

■ = probably

■ = for sure

### Note

All the information contained in this newsletter has been gathered with the greatest care. In spite of that, we do not take any liability for correct, complete and up-to-date content. Most information contained are based on official communications from project developers, associations, national authorities and professional media. Sometimes we deviated with regard to project specific probabilities of realization and expected commissioning years (first year of commercial operation) which we determined in an expert-review under consideration of all current news, economic and political conditions ("best-guess").

KW Walsum 10, KW Lünen, KW Dow Stade, KW Hürth Knapsack 2, KW Boxberg R, Neurath BoA 2 and 3, KW Lingen, HKW Hannover, GuD Irsching 4 and RDK 8 have been removed because they went into operation.



# power plants overview

>> new fossil power plants in Germany >100MW

last update: February 10, 2016



## Note

All the information contained in this newsletter has been gathered with the greatest care. In spite of that, we do not take any liability for correct, complete and up-to-date content. Most information contained are based on official communications from project developers, associations, national authorities and professional media. Sometimes we deviated with regard to project specific probabilities of realization and expected commissioning years (first year of commercial operation) which we determined in an expert-review under consideration of all current news, economic and political conditions ("best-guess").

Some projects do not appear on this map either because we think they have a probability of realization below 10% or because they have been cancelled.