

Employees (end of year)				
Mining area	1989 ¹⁾	2015 ²⁾	2016 ²⁾	2017 ²⁾
Rhineland ³⁾	15,565	9,410	9,716	9,739
Lusatia ³⁾	79,016	8,316	8,765	8,639
Central Germany	59,815	2,656	2,414	2,367
Helmstedt	1,693	453	199	146
Small firms	642	-	-	-
Germany	156,731	20,744	21,094	20,891

1) Annual average – without employees in own public power stations

2) including employees in own public power stations

3) Not comparable with previous years due to restructuring from 2016 onwards

Lignite reserves in bn t			
Mining area	Geological reserves	Economically minable reserves	Approved and developed opencast mines
Rhineland	51.0	31.0	2.7 ¹⁾
Lusatia	11.6	3.1	0.8 ²⁾
Central Germany	10.0	2.0	0.3
Germany	72.6	36.1	3.8

1) Based on a decision of the federal state North Rhine-Westphalia made in 2016 the approved reserves will be diminished by 0.4 bn t

2) available reserves per 31.12.2017 by lignite plans of 1994 = 0,8 bn t ; additional reserves by in 2015 officially approved lignite plans: Welzow-Süd open cast mine sector II = 0,2 bn t; additional reserves by current lignite mining plan procedure: Nochten open cast mine, subfield Mühlrose = 0,15 bn t

Production of lignite products (in mt)				
Products	1989	2016	2017	Changes 2017/2016 in %
Briquettes	49.39	1.54	1.68	+ 8.8
Dry and pulverized/Fluidized-bed coal	4.41	4.71	4.87	+ 3.3
Coke	5.09	0.16	0.15	- 2.9

Selected coal qualities operational and planned mining areas				
Mining area	Calorific value kj/kg	Ash content in %	Water content in %	Sulphur content in %
Rhineland	7,800-10,500	2.5-8.0	50-60	0.15-0.5
Lusatia	7,900-10,000	2.5-14.0	49-58	0.2-1.5
Central Germany	9,000-11,300	6.5-12.0	48-54	1.3-2.1

10 FACTS ON LIGNITE

1. For many years to come, lignite is the only domestic energy supplier that is available in large amounts without subsidies on **competitive** terms.
2. With an output of approx. 171 mill. tonnes (2017), lignite contributes almost 40 % to Germany's primary energy generation and is thus an **important domestic energy supplier**.
3. High-quality and by worldwide standards, exemplary **recultivation** is compensation for land required for mining operations.
4. About 90 % of total lignite output is used for domestic **power and district heat** generation. All power plants have highly efficient systems for flue gas desulphurisation, dust removal and NO_x reduction.
5. Thanks to the combination of opencast mines and power plants, lignite-based plants offer a maximum of **security of supply**. There are no **transport risks**.
6. In 2017, lignite-fired power plants generated some 148 bn. kilowatt hours of power. **Every fourth kilowatt hour** of power consumed in Germany is derived from domestic lignite.
7. In Germany, almost **70,000 competitive jobs** are secured by the lignite mining and lignite-based power generation industry. The lignite mining sector provides top-quality primary professional training to round **1,300 young people**.
8. **Industrial safety** has attained a high development level: With 2,0 notifiable accidents at work per 1 mill. working hours (2017), the lignite mining sector ranks far below the average of the total German industry (2016: 14,0).
9. The lignite mining industry stands for preventive climate protection. With high investment in the power plant population, i.e. new power plants and modernisation, **efficiency of power generation** was and still is **continuously being stepped up** while the emissions are being lowered simultaneously.
10. The **flexibility** of modern lignite-fired power plants is comparable to gas and steam plants and provides cost-effective system services to compensate the fluctuating electricity generation from wind and solar.

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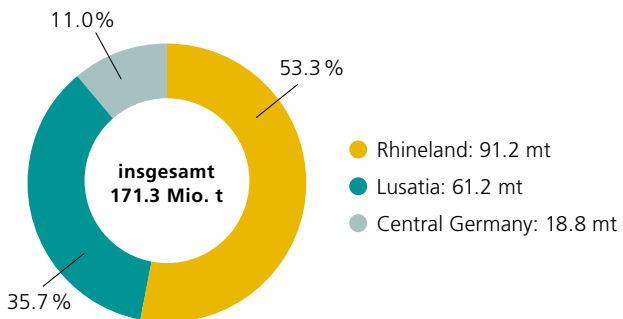
Deadline: March 2018 (Data preliminary for 2017)
Source, if not specified: Statistik der Kohlenwirtschaft

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**LIGNITE
IN GERMANY**

Facts and Figures 2017

Lignite production according to mining areas

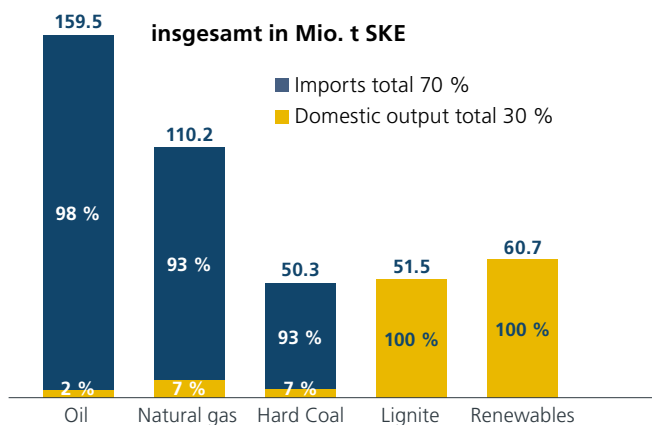


Utilisation of lignite 2017

Mining areas	use ¹⁾		
	Generation of electricity and heat	Refining	Others ²⁾
in million t			
Rhineland	80.7	10.2	0.2
Lusatia	57.5	3.8	0.0
Central Germany	17.5	0.7	0.6
Helmstedt	-	-	-
Germany	155.7	14.7	0.8

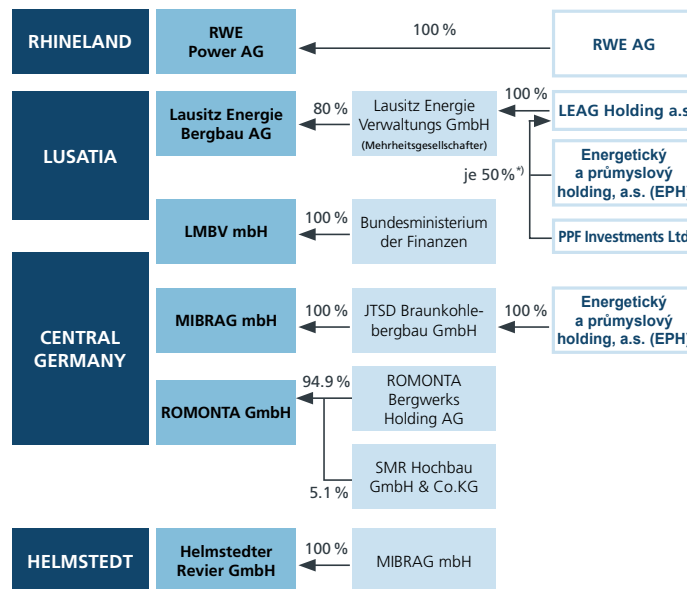
- 1) Deviations between production and utilisation caused by change in stocking and deliveries between the mining areas
 2) without deliveries to other lignite companies

Share of domestic output in primary consumption 2017*



*) provisional
 Source: Arbeitsgemeinschaft Energiebilanzen e.V.

Participation ratios of the lignite companies



*) indirect holdings

Capacity and generation of lignite powerstations

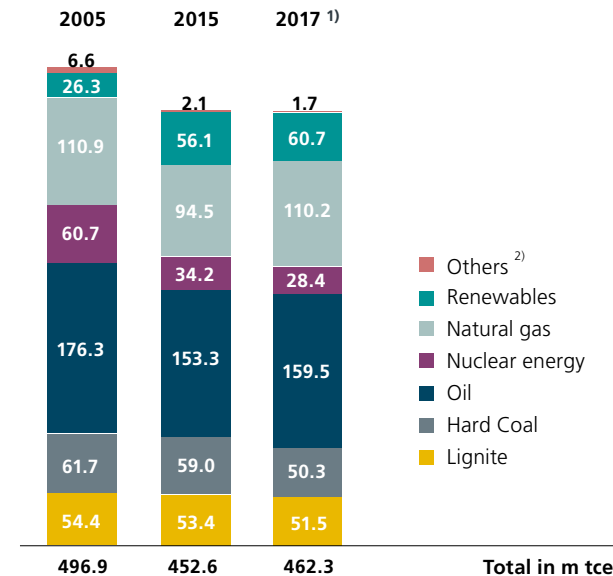
(Kraftwerke der allgem. Versorgung, Industrie- und Heizkraftwerke)

Federal State	Gross installed power Jan. 1, 2018	Gross electricity generation 2017 ⁵⁾
	MW	TWh
North-Rhine/Westphalia	11,463 ¹⁾	75.4
Brandenburg	4,705 ²⁾	32.7
Saxony	4,640 ³⁾	32.2
Saxony-Anhalt	1,220 ⁴⁾	6.7
Lower Saxony	407	0.5
Hesse	42	
Bavaria	2	
Baden-Wuerttemberg	2	
Total	22,481 ⁶⁾	147.5

including newly built power stations (since 1995):

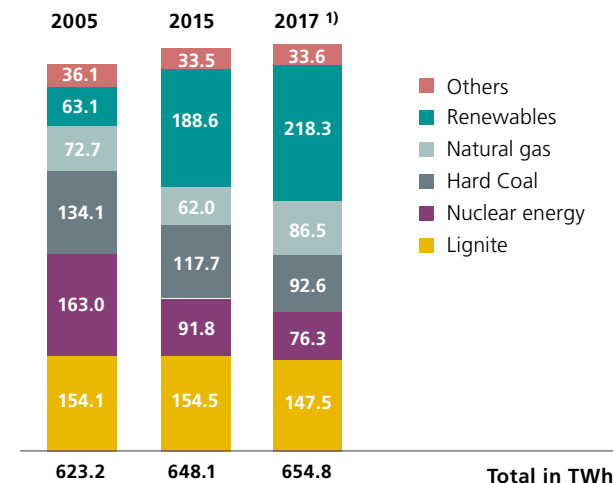
- 1) Niederaußem (1,012 MW) 4) Schkopau (980 MW)
 Neurath (2,200 MW) 5) estimated
 2) Schwarze Pumpe (1,600 MW) 6) thereof 1,044 MW security standby reserve
 3) Boxberg (900 MW and 675 MW) Lippendorf (1,840 MW)

Primary energy consumption



- 1) provisional/forecast Source: Arbeitsgemeinschaft Energiebilanzen,
 2) including power exchange balance summed deviations due to roundings

Total gross electricity generation



- 1) provisional/forecast Source: Arbeitsgemeinschaft Energiebilanzen,
 summed deviations due to roundings