

List of Assets

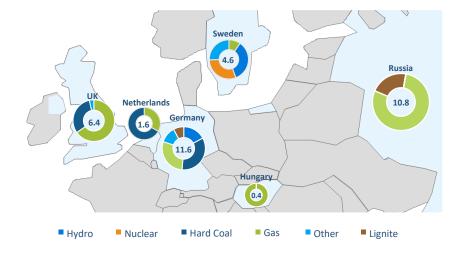
December 2020



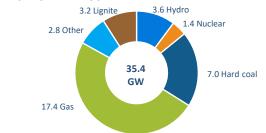


Well-diversified International generation portfolio

Net capacity by country and fuel type (GW)¹



Net capacity by fuel type (GW)¹



Electricity production by technology (TWh)





Note: Deviations may occur due to rounding 1. Net capacity as of 31st December 2020 (accounting vie

European Generation

Asset Overview and Asset List



Asset overview

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Overview – Capacity development, MW¹

		2020	2019	2020	2019
		Accounting view	Accounting view	Pro rata view	Pro rata view
Hydro	Germany	1,991	1,991	1,927	1,927
пушо	Sweden	1,579	1,579	1,771	1,771
Nuclear	Sweden	1,400	1,400	1,996	1,988
	Germany	3,954	2,902	3,954	2,902
Hard coal	UK	2,000	2,000	2,000	2,000
	Netherlands	1,070	1,070	1,070	1,070
Lignite	Germany	900	900	500	500
	Germany	3,333	3,333	2,912	2,912
	Sweden	449	447	449	447
Gas	UK	4,180	4,188	4,180	4,188
	Netherlands	525	526	525	526
	Hungary	428	428	428	428
	Germany	1,418	1,418	1,418	1,418
Other ²	Sweden	1,162	1,162	1,162	1,162
	UK	221	221	221	221
Total ³		24,610	23,565	24,513	23,460



1. Generation capacity is reported for plants if plants were in operation at end of 2020.

2. Other includes Renewables, Biomass, Fuel Oil.

3. Excluding net generation capacities from Hydro LTCs in Austria and Switzerland of 564 MW in 2019 and 514 MW in 2020.

Asset overview (cont'd)

Overview – Electricity production (Accounting view), TWh¹

		2020	2019
Hydro	Germany	5.299	5.399
пушто	Sweden	8.443	7.310
Nuclear	Sweden	8.009	11.020
	Germany	7.479	5.641
Hard coal	UK	0.459	0.744
Hard Coal	France	-	0.319
	Netherlands	4.736	3.133
Lignite	Germany	2.512	3.618
	Germany	2.387	0.865
	Sweden	0.017	0.006
Gas	UK	10.408	13.185
GdS	France	-	1.912
	Netherlands	1.456	1.788
	Hungary	2.226	2.559
Other	France	-	0.096
Total		53.432	57.597



Asset overview (cont'd)

Overview – Net electricity generation sales (pro rata view), TWh¹

		2020	2019
Hydro	Germany	4.334	5.305
пушто	Sweden	9.432	8.151
Nuclear	Sweden	11.480	16.745
	Germany	6.238	5.715
Hard coal	UK	0.396	0.690
Hard Coal	France	-	0.319
	Netherlands	4.698	3.108
Lignite	Germany	2.144	3.618
	Germany	1.914	0.852
	UK	10.248	13.025
Gas	France	-	2.008
	Netherlands	1.456	1.788
	Hungary	2.225	2.559
Other	France	-	0.096
Total		54.564	63.979



Note: Totals shown are exact figures – deviations possible due to rounding.

1. Pro rata view; Net electricity generation volumes = Owned generation - own use losses - sales to minority owners + purchases from minorities.

Germany United Kingdom Sweden

1931/1933/2009

Hungary

Details on the German power plant portfolio

Hydro – Storage

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Walchensee	Consolidated	124	100.00 %	1924	124	124
Roßhaupten	Consolidated	50	100.00 %	1954	46	46
Hemfurth	Consolidated	20	100.00 %	1915/1994	20	20
Helminghausen	Consolidated	1	100.00 %	1924	1	1
Total		195			191	191
Hydro – Pumpe	ed storage					
Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Waldeck II	Consolidated	480	100.00%	1974	480	480
Langenprozelten	Consolidated	164	77.66%	1976	127	164
Happurg ¹	Consolidated	160	100.00%	1958/1963/1965	160	160

100.00%

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Waldeck I²

Note: Plants shown include those plants that were in operation at end of 2020.

1. Happurg facility mothballed in 201

2. Includes also Bringhauser

Consolidated

145

145

 Germany
 United Kingdom
 Sweden
 Netherlands

Details on the German power plant portfolio (cont'd)

Hydro – Pumped storage (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Oberberg	Consolidated	9	100.00%	1960/1985	9	9
Total		958			921	958

Hydro – Run-of-river

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Kachlet	Consolidated	56	77.49%	1927	42	54
Aufkirchen	Consolidated	38	100.00%	1924	27	27
Eitting	Consolidated	36	100.00%	1925	26	26
Geisling	Consolidated	26	77.49%	1985	19	25
Bergheim	Consolidated	24	77.66%	1970	18	24
Vohburg	Consolidated	23	77.66%	1992	18	23
Pfrombach	Consolidated	24	100.00%	1929	22	22
Straubing	Consolidated	22	77.49%	1994	17	22



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Bittenbrunn	Consolidated	20	77.66%	1969	16	20
Ingolstadt	Consolidated	20	77.66%	1971	15	20
Prem	Consolidated	22	100.00%	1971	19	19
Bertoldsheim	Consolidated	19	77.66%	1967	15	19
Altheim	Consolidated	18	100.00%	1951	18	18
Kaufering	Consolidated	18	100.00%	1975	17	17
Dornau	Consolidated	18	100.00%	1960	17	17
Gummering	Consolidated	17	100.00%	1957	17	17
Niederaichbach	Consolidated	18	100.00%	1951	16	16
Dingolfing	Consolidated	18	100.00%	1957	15	15
Obernach	Consolidated	16	100.00%	1955	13	13
Ettling	Consolidated	13	100.00%	1988	13	13
Landau	Consolidated	13	100.00%	1984	13	13
Pielweichs	Consolidated	13	100.00%	1994	13	13



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Oberpeiching	Consolidated	13	77.49%	1954	10	13
Unterbergen	Consolidated	14	100.00%	1983	12	12
Scheuring	Consolidated	14	100.00%	1980	12	12
Prittriching	Consolidated	12	100.00%	1984	12	12
Merching	Consolidated	14	100.00%	1978	12	12
Schwabstadl	Consolidated	13	100.00%	1981	12	12
Mühltal	Consolidated	13	100.00%	1924	11	11
Rain	Consolidated	12	77.49%	1955	9	12
Dessau	Consolidated	13	100.00%	1967	10	10
Urspring	Consolidated	12	100.00%	1966	10	10
Ellgau	Consolidated	11	77.49%	1952	8	11
Kleinostheim	Consolidated	10	77.49%	1971	8	10
Feldheim	Consolidated	9	77.49%	1960	7	9
Epfach	Consolidated	8	100.00%	1948	8	8



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Dornstetten	Consolidated	8	100.00%	1943	8	8
Kinsau	Consolidated	8	100.00%	1992	8	8
Lechblick	Consolidated	8	100.00%	1943	8	8
Finsing	Consolidated	8	100.00%	1924	8	8
Lechmühlen	Consolidated	8	100.00%	1943	8	8
Pitzling	Consolidated	8	100.00%	1944	8	8
Landsberg	Consolidated	8	100.00%	1943	8	8
Finsterau	Consolidated	8	100.00%	1950	8	8
Apfeldorf	Consolidated	7	100.00%	1944	7	7
Regensburg	Consolidated	8	77.49%	1977	6	7
Sperber	Consolidated	7	100.00%	1947	7	7
Bad Abbach	Consolidated	6	77.49%	1978	5	6
Ottendorf	Consolidated	7	77.49%	1962	5	6
Viereth	Consolidated	7	77.49%	1925/1983	5	6



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Gottfrieding TW	Consolidated	5	100.00%	2009	5	5
Schönmühl	Consolidated	5	100.00%	1922	5	5
Kesselstadt	Consolidated	5	100.00%	1921/1986	5	5
Gottfrieding	Consolidated	6	100.00%	1978	5	5
Freudenberg	Consolidated	5	77.49%	1934	3	4
Dettelbach	Consolidated	4	77.49%	1958	3	4
Rothenfels	Consolidated	7	77.49%	1939	6	6
Steinbach	Consolidated	4	77.49%	1939	3	4
Faulbach	Consolidated	4	77.49%	1939	3	4
Haag	Consolidated	4	100.00%	1923/1991	4	4
Offenbach	Consolidated	4	100.00%	1985	4	4
Pullach	Consolidated	5	100.00%	1904	4	4
Garstadt	Consolidated	4	77.49%	1956	3	4
Hirschaid	Consolidated	5	100.00%	1923	4	4



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Limbach	Consolidated	4	77.49%	1951	3	4
Abbach TW	Consolidated	4	77.49%	2000	3	4
Heubach	Consolidated	4	77.49%	1932	3	3
Wallstadt	Consolidated	4	77.49%	1930	3	3
Obernau	Consolidated	3	77.49%	1930	3	3
Eichel	Consolidated	3	77.49%	1939	2	3
Höllriegelskreuth	Consolidated	4	100.00%	1894/1940	3	3
Klingenberg	Consolidated	3	77.49%	1930	2	3
Harrbach	Consolidated	3	77.49%	1940	2	3
Kitzingen	Consolidated	3	77.49%	1956	2	3
Knetzgau	Consolidated	3	77.49%	1960	2	3
Wipfeld	Consolidated	3	77.49%	1951	2	3
Forchheim	Consolidated	3	77.49%	1964	2	3
Erlabrunn	Consolidated	3	77.49%	1934	2	3



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	-
Lengfurt	Consolidated	3	77.49%	1940	2	3
Himmelstadt	Consolidated	3	77.49%	1940	2	3
Gerlachshausen	Consolidated	3	77.49%	1957	2	2
Regensburg TW	Consolidated	2	77.49%	1990	2	2
Niedernach	Consolidated	2	100.00%	1951	2	2
Marktbreit	Consolidated	2	77.49%	1955	2	2
Goßmannsdorf	Consolidated	2	77.49%	1952	2	2
Randersacker	Consolidated	2	77.49%	1950	2	2
Hausen	Consolidated	2	77.49%	1965	2	2
Volkach	Consolidated	2	77.49%	1957	1	2
Speicherseekraftwerk	Consolidated	2	100.00%	1951	1	1
Klein Kinsau	Consolidated	2	100.00%	1992	1	1
Oberföhring	Consolidated	1	100.00%	2008	1	1
Untere Mainmühle	Consolidated	1	77.49%	1924/1988	1	1



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	-
Dietfurt TW	Consolidated	1	77.49%	1991	0	1
Finsing Bachsammler	Consolidated	0	100.00%	1950	0	0
Kesselbach	Consolidated	0	100.00%	1919	0	0
Krün	Consolidated	0	100.00%	1990	0	0
Lochbach	Consolidated	0	100.00%	1983	0	0
Neuses	Consolidated	0	77.49%	2015	0	0
Hallerndorf	Consolidated	0	100.00%	1952	0	0
Happach	Consolidated	0	100.00%	1958	0	0
Kaupersberg	Consolidated	0	100.00%	1921	0	0
Altenstadt	Not consolidated	1	60.00%	1990	0	0
Au	Not consolidated	10	60.00%	1930	6	0
Dillingen	Not consolidated	8	46.49%	1981	4	0
Donauwörth	Not consolidated	9	46.49%	1984	4	0
Faimingen	Not consolidated	10	46.49%	1965	5	0



Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Gundelfingen	Not consolidated	8	46.49%	1964	4	0
Günzburg	Not consolidated	9	46.49%	1962	4	0
Höchstädt	Not consolidated	11	46.49%	1982	5	0
Leipheim	Not consolidated	10	46.49%	1961	5	0
Oberelchingen	Not consolidated	10	46.49%	1960	5	0
Offingen	Not consolidated	8	46.49%	1963	4	0
Schweinfurt	Not consolidated	4	58.12%	1963	2	0
Schwenningen	Not consolidated	9	46.49%	1983	4	0
Untereichen	Not consolidated	10	60.00%	1930	6	0
Total		1,027			815	842



Hard coal

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Datteln	Consolidated	1,052	100.00%	2020	1,052	1,052
Heyden	Consolidated	875	100.00%	1987	875	875
Wilhelmshaven	Consolidated	757	100.00%	1976	757	757
Staudinger 5	Consolidated	510	100.00%	1992	510	510
Scholven B	Consolidated	345	100.00%	1968	345	345
Scholven C	Consolidated	345	100.00%	1969	345	345
Scholven FWK Buer	Consolidated	138	100.00%	1985	70	70
Kiel	Not consolidated	0	50.00%	1970	0	0
Total		3,954			3,954	3,954
Lignite						
Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Schkopau A+B	Consolidated	900	58.10%	1996	500	900
Total		900			500	900



Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Irsching 5	Consolidated	846	50.20%	2010	425	846
Staudinger 4	Consolidated	622	100.00%	1977	622	622
Irsching 4	Consolidated	561	100.00%	2011	561	561
Franken I/2	Consolidated	440	100.00%	1976	440	440
Franken I/1	Consolidated	383	100.00%	1973	383	383
Huntorf	Consolidated	321	100.00%	1978	321	321
Kirchmöser	Consolidated	178	100.00%	1995	160	160
Total		3,351			2,912	3,333



Other

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Irsching 3	Consolidated	415	100.00%	1974	415	415
Pleinting 21	Consolidated	0	100.00%	1976	0	0
Ingolstadt 3	Consolidated	386	100.00%	1973	386	386
Ingolstadt 4	Consolidated	386	100.00%	1974	386	386
Pleinting 11	Consolidated	0	100.00%	1968	0	0
Kiel/Audorf	Consolidated	87	100.00%	1973	87	87
Kiel/Itzehoe	Consolidated	88	100.00%	1972	88	88
Wilhelmshaven GT	Consolidated	56	100.00%	1973	56	56
Total		1,418			1,418	1,418



Germany United Kingdom Sweden Details on the UK power plant portfolio

Hard coal

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Ratcliffe U1	Consolidated	500	100.00%	1967	500	500
Ratcliffe U2	Consolidated	500	100.00%	1968	500	500
Ratcliffe U3	Consolidated	500	100.00%	1969	500	500
Ratcliffe U4	Consolidated	500	100.00%	1970	500	500
Total		2,000			2,000	2,000
Gas						
Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Grain 6	Consolidated	441	100.00%	2011	441	441
Grain 7	Consolidated	441	100.00%	2011	441	441
Grain 8	Consolidated	441	100.00%	2011	441	441
Killingholme Mod 1 ¹	Consolidated	300	100.00%	1992	300	300

Netherlands



Note: Plants shown include those plants that were in operation at end of 2020.

1. Killingholme 1 and 2 have been converted from CCGT to OCGT mid 2016 by reducing total capacity of both units from 900MW to 600MW.

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Enfield	Consolidated	442	100.00%	2000	442	442
Cottam Development Centre	Consolidated	435	100.00%	1998	435	435
Connah's Quay U1	Consolidated	345	100.00%	1996	345	345
Connah's Quay U2	Consolidated	345	100.00%	1996	345	345
Connah's Quay U3	Consolidated	345	100.00%	1996	345	345
Connah's Quay U4	Consolidated	345	100.00%	1996	345	345
Total		4,180			4,180	4,180

Other

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Taylors Lane GT2	Consolidated	68	100.00%	1981	68	68
Taylors Lane GT3	Consolidated	64	100.00%	1979	64	64
Grain Aux GT1	Consolidated	27	100.00%	1979	27	27
Grain Aux GT4	Consolidated	27	100.00%	1984	28	28
Ratcliffe Aux GT2	Consolidated	17	100.00%	1968	17	17
Ratcliffe Aux GT4	Consolidated	17	100.00%	1970	17	17
Total		220			221	221



Germany	United Kingdom	Sweden	Netherlands
Details on	the Swedish	power plant	portfolio

Hydro¹

Site	Capacity (technical, MW)	Pro-rata (MW)	Accounting (MW)
Hydro Storage Total	2,142	1,577	1,386
Hydro Run-of-River Total	203	195	193
Total	2,342	1,772	1,579



Nuclear

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Oskarshamn 3	Consolidated	1,400	54.50%	1985	763	1,400
Forsmark 1	Not consolidated	988	9.30%	1980	92	0
Forsmark 2	Not consolidated	1,118	9.30%	1981	104	0
Forsmark 3	Not consolidated	1,172	10.80%	1985	127	0
Ringhals 1	Not consolidated	881	29.60%	1976	261	0
Ringhals 2	Not consolidated	0	29.60%	1975	0	0
Ringhals 3	Not consolidated	1,063	29.60%	1981	315	0
Ringhals 4	Not consolidated	1,103	29.60%	1983	334	0
Total		7,725			1,996	1,400



Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Öresundsverket ¹	Consolidated	447	100.00%	2009	447	447
Total		447			447	447

Other

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Halmstad GT 12	Consolidated	172	100.00%	1992	172	172
Halmstad GT 11	Consolidated	78	100.00%	1972	78	78
Öresundsverket GT G24	Consolidated	63	100.00%	1971	63	63
Öresundsverket GT G25	Consolidated	63	100.00%	1972	63	63
Barsebäck GT1	Consolidated	42	100.00%	1974	42	42
Barsebäck GT2	Consolidated	42	100.00%	1974	42	42
Karlshamn G13	Consolidated	37	100.00%	1973	37	37
Öresundsverket Diesel G26	Consolidated	3	100.00%	2015	3	3
Karlshamn G2	Consolidated	334	100.00%	1971	334	334



Note: Plants shown include those plants that were in operation at end of 2020.

1. Öresundsverket facility mothballed in 2018.

Other (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Karlshamn G3	Consolidated	328	100.00%	1973	328	328
Total		1,162			1,162	1,162

Sweden

Hungary

Details on the Dutch power plant portfolio

Hard coal

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Maasvlakte 3	Consolidated	1,070	100.00%	2013	1,070	1,070
Total		1,070			1,070	1,070

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Rotterdam Capelle GT 3	Consolidated	220	100.00%	1996	214	214
Galileistraat CHP	Consolidated	0	100.00%	1988	0	0
Den Haag CHP	Consolidated	112	100.00%	1981	107	107
Leiden CHP	Consolidated	83	100.00%	2004	85	85
UCML	Consolidated	70	100.00%	2003	70	70
Rotterdam Capelle GT 1	Consolidated	24	100.00%	1982	24	24
Rotterdam Capelle GT 2	Consolidated	25	100.00%	1982	25	25
UCML BPT	Consolidated	0	100.00%	2003	0	0
Total		534			525	525



Germany United Kingdom Sweden Netherlands

Details on the Hungarian power plant portfolio

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Gönyü	Consolidated	428	100.00%	2011	428	428
Total		428			428	428



Russian Power

Operating KPIs and Asset List



Operating KPIs on the Russian power plant portfolio

	Gross installed capad	ity ¹ , MW	Load Factor		TWh produced ²	
	Total	CSA	12M 2019	12M 2020	12M 2019	12M 2020
Surgutskaya-2	5,667	807	61%	54%	30.2	27.1
Berezovskaya ³	2,400	800	31%	21%	6.4	4.3
Shaturskaya	1,500	400	32%	34%	4.1	4.5
Smolenskaya	630	0	25%	26%	1.4	1.4
Yaivinskaya	1,048	448	46%	47%	4.2	4.4
Total	11,245	2,455	47%	42%	46.4	41.7



Russia

Details on the Russian power plant portfolio

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Surgutskaya TG 1	Consolidated	790	83.73%	1985	661	790
Surgutskaya TG 2	Consolidated	790	83.73%	1985	661	790
Surgutskaya TG 3	Consolidated	790	83.73%	1986	661	790
Surgutskaya TG 4	Consolidated	790	83.73%	1987	661	790
Surgutskaya TG 5	Consolidated	790	83.73%	1987	661	790
Surgutskaya TG 6	Consolidated	790	83.73%	1988	661	790
Yaivinskaya TG 5	Consolidated	437	83.73%	2011	366	437
Surgutskaya TG 8	Consolidated	400	83.73%	2011	335	400
Surgutskaya TG 7	Consolidated	386	83.73%	2011	324	386
Shaturskaya TG 7	Consolidated	393	83.73%	2010	329	393
Shaturskaya TG 4	Consolidated	196	83.73%	1978	164	196
Shaturskaya TG 5	Consolidated	196	83.73%	1978	164	196
Smolenskaya TG 1	Consolidated	195	83.73%	1978	163	195



Russia

Details on the Russian power plant portfolio (cont'd)

Gas (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Smolenskaya TG 2	Consolidated	195	83.73%	1979	163	195
Smolenskaya TG 3	Consolidated	195	83.73%	1985	163	195
Shaturskaya TG 1	Consolidated	186	83.73%	1971	156	186
Shaturskaya TG 2	Consolidated	186	83.73%	1972	156	186
Shaturskaya TG 3	Consolidated	186	83.73%	1972	156	186
Yaivinskaya TG 1	Consolidated	140	83.73%	1963	117	140
Yaivinskaya TG 2	Consolidated	140	83.73%	1964	117	140
Yaivinskaya TG 3	Consolidated	140	83.73%	1964	117	140
Yaivinskaya TG 4	Consolidated	140	83.73%	1965	117	140
Shaturskaya TG 6	Consolidated	75	83.73%	1982	62	75
Total		8,527			7,139	8,527



Russia

Details on the Russian power plant portfolio (cont'd)

Lignite

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Berezovskaya GRES TG 1	Consolidated	754	83.73%	1987	632	754
Berezovskaya GRES TG 2	Consolidated	754	83.73%	1991	632	754
Berezovskaya GRES TG 3 ¹	Consolidated	754	83.73%	2015	632	754
Total		2,263			1,895	2,263



Note: Plants shown include those plants that were in operation at end of 2020. 1. Berezovskaya GRES TG 3 facility currently under unscheduled repairs.

Details on assets disposed in 2020

Site	Country	Fuel type	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Teplarna Tabor	Czech Republic	Gas	20	51.95%	1991	11	20
Solar Energy Znojmo	Czech Republic	Gas	1	24.98%	2008	0	0
Bioplyn Trebon	Czech Republic	Gas	1	24.67%	1974	0	0
Total			22			11	20



Global Commodities

Storage and Pipelines



Portfolio of gas storages

Gas storage portfolio at a glance

Storage	Country	Capacity ¹	Main applications		• S
Epe L-Gas		0.4	Peak shaving	Arbitrage	a • F
Krummhörn		0.2	Peak shaving	Aibitiage	f
Nüttermoor		0.1	Peak shaving		С
Epe H-Gas		1.3	Peak shaving and seasonal use		
Eschenfelden		<0.1	Peak shaving and seasonal use		• S
Etzel ESE		1.0	Seasonal use and peak shaving	System	• S
Etzel EGL		1.0	Seasonal use and peak shaving		e
Breitbrunn		1.0	Seasonal use		
Bierwang		0.8	Mainly seasonal use		• S
7 Fields		1.6	Mainly seasonal use	Insurance	te
Holford		0.2	Peak shaving	insurance	• A c
Total		7.6			n

Key value drivers

\rbitrage	 Storage can enable time arbitrage value to be captured – gas is injected at times of low prices and withdrawn at times of higher prices For seasonal storage this is usually summer and peak winter months, for mid and fast churn storage (peak shaving) arbitrage vale can be captured over shorter time periods
System	 Storage close to demand centers can help to lower network investment costs by reducing size of pipelines to meet peak demand System operators can require location swaps or certain gas qualities to ensure system stability; storage can be used to support this
nsurance	 Storage can provide a safeguard against the high impact of unexpected technical failures, geopolitical risk or severe weather A "security of supply" premium is not currently compensated by the system given well-supplied European gas markets



Pipeline participations

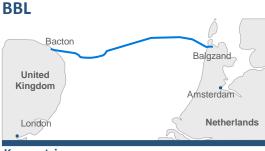


Stake	20%1,2
Capacity (100%)	36.5 bcm/a
Start-up date	2011

Business description

- Connects the Nord Stream landfall point with the exit/entry point at the German-Czech border
- Pro-rata transmission capacity long-term marketed
- Technical operation provided by majority owner OPAL Gastransport which is indirectly owned by Wintershall and Gazprom

Source: OPAL Gastransport GmbH



Key metrics

Stake	20% ¹
Capacity (100%)	16 bcm/a
Start-up date	2006

Business description

- Connectings the Netherlands and the UK
- Capacity marketed via standardised auctions for certain products (forward flow, interruptible forward flow, interruptible reverse flow)
- The other partners in BBL are Gasunie (60%) and Fluxys (20%)

Source: OPAL Gastransport GmbH

Transitgas



Key metrics

· ·	
Stake	3%1
Capacity (100%)	18 bcm/a
Start-up date	1974

Business description

- Crossing Switzerland from North to South, with a connection to the French and the Italian grid
- Constructed, maintained and operated by Transitgas AG, which is a partnership between Swissgas (51%), FluxSwiss (46%) and Uniper (3%)

Source: Transitgas AG



1. Stake as of 31 December 2016

2. Stake held by means of Bruchteilsgemeinschaft through 100% subsidiary Lubmin-Brandov Gastransport GmbH

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