



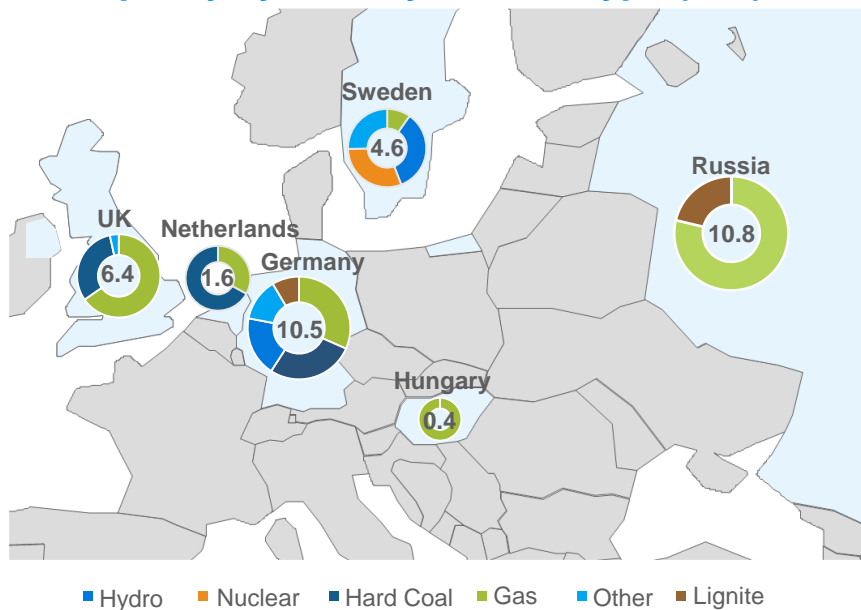
List of Assets

December 2019

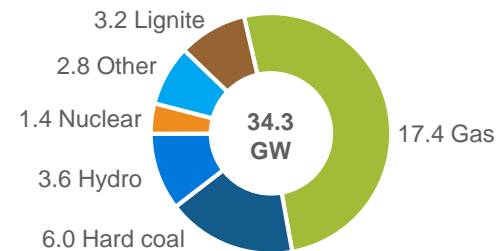


Well-diversified International generation portfolio

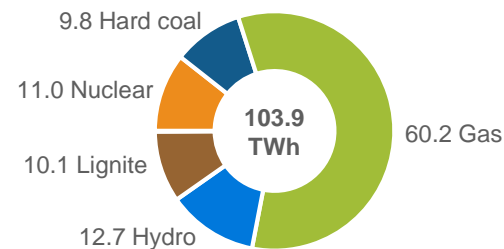
Net capacity by country and fuel type (GW)^{1,2}



Net capacity by fuel type (GW)^{1,2}



Electricity production by technology (TWh)



European Generation

Asset Overview and Asset List

Asset overview

Overview – Capacity development, MW^{1,2}

		2018	2019
Hydro	Germany	1,991	1,991
	Sweden	1,579	1,579
Nuclear	Sweden	1,400	1,400
Hard coal	Germany	2,902	2,902
	UK	2,000	2,000
	France	1,190	-
	Netherlands	1,070	1,070
Lignite	Germany	900	900
Gas	Germany	3,333	3,333
	Sweden	447	447
	UK	4,188	4,188
	France	828	-
	Netherlands	526	526
	Hungary	428	428
Other ³	Germany	1,418	1,418
	Sweden	1,162	1,162
	UK	221	221
	France	244	-
Total⁴		25,827	23,565

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

1. Accounting view

2. Net capacity as of 31st December 2019 (accounting view)

3. Other includes Renewables, Biomass, Fuel Oil.

4. Excluding net generation capacities from Hydro LTCs in Austria and Switzerland of 564 MW in 2018 and 564 MW in 2019.

Asset overview (cont'd)

Overview – Electricity production, TWh¹

		2018	2019
Hydro	Germany	3.752	5.399
	Sweden	6.588	7.310
Nuclear	Sweden	10.729	11.020
Hard coal	Germany	9.357	5.641
	UK	3.571	744
	France	2.049	319
	Netherlands	5.841	3.133
Lignite	Germany	5.526	3.618
Gas	Germany	782	865
	Sweden	7	6
	UK	11.538	13.185
	France	3.016	1.912
	Netherlands	1.671	1.788
	Hungary	2.340	2.559
Other	France	513	96
Total		67.280	57.597

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 – Pumped 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
Waldeck I ²	Consolidated	145	100.00%	1931/1933/2009	145	145

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

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

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

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

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

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

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

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

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

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

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

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

Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (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

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

Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (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

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

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

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

Hard coal

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
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		2,970			2,902	2,902

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

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

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

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

Other

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Irsching 3	Consolidated	415	100.00%	1974	415	415
Pleinting 2 ¹	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 1 ¹	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

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	455	100.00%	2011	455	455
Grain 7	Consolidated	455	100.00%	2011	455	455
Grain 8	Consolidated	455	100.00%	2011	455	455
Killingholme Mod 1 ¹	Consolidated	300	100.00%	1992	300	300
Killingholme Mod 2 ²	Consolidated	300	100.00%	1992	300	300

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

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Enfield	Consolidated	408	100.00%	2002	408	408
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		4,188			4,188	4,188

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

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

Details on the Swedish power plant portfolio

Hydro Storage

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Hjälta	Consolidated	178	100.00%	1949	178	178
Ramsele	Consolidated	171	100.00%	1958	163	163
Moforsen	Consolidated	140	100.00%	1968	140	140
Storfinnforsen	Consolidated	120	100.00%	1953	112	112
Bålforsen	Consolidated	88	100.00%	1958	88	88
Hällby	Consolidated	84	100.00%	1970	84	84
Edensforsen	Consolidated	73	100.00%	1956	73	73
Trångfors	Consolidated	73	100.00%	1975	73	73
Gulsele	Consolidated	72	100.00%	1955	72	72
Degerforsen	Consolidated	78	100.00%	1965	78	78
Edsele	Consolidated	60	100.00%	1965	60	60
Rätan	Consolidated	60	100.00%	1968	60	60
Lövön	Consolidated	36	100.00%	1973	36	36
Borgforsen	Consolidated	26	100.00%	1965	26	26

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

Hydro Storage (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Betsela	Consolidated	26	100.00%	1965	25	25
Flåsjö	Consolidated	29	100.00%	1975	20	20
Yngeredsfors	Consolidated	19	100.00%	1964	19	19
Turinge	Consolidated	18	100.00%	1961	18	18
Bodum	Consolidated	13	100.00%	1975	12	12
Fjällsjö	Consolidated	13	100.00%	1976	12	12
Ledinge	Consolidated	10	100.00%	1982	10	10
Skåpanäs	Consolidated	9	100.00%	1957	9	9
Skogsforsen	Consolidated	8	100.00%	1939	8	8
Semla	Consolidated	4	100.00%	1920/1988	4	4
Rundbacken	Consolidated	2	100.00%	1916	2	2
Graninge	Consolidated	2	100.00%	1960	2	2
Lafssjö	Consolidated	2	100.00%	1980	2	2
Karlsnäs	Consolidated	1	100.00%	1952	1	1

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

Hydro Storage (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Bergeforsen	Not consolidated	155	43.15%	1955	67	0
Blåsjön	Not consolidated	60	50.00%	1957	30	0
Gammelänge	Not consolidated	78	6.60%	1944	5	0
Krångede	Not consolidated	248	9.24%	1936	23	0
Kvarnfallet	Not consolidated	19	50.00%	1969	10	0
Linnvasselv	Not consolidated	70	9.86%	1962	7	0
Sippmikk	Not consolidated	4	50.00%	1953	2	0
Stensjöfallet	Not consolidated	95	50.00%	1968	48	0
Total		2,142			1,577	1,386

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

Hydro – Run-of-river

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Forsse	Consolidated	59	100.00%	1968	52	52
Hällforsen	Consolidated	22	100.00%	1964	23	23
Ätrafors	Consolidated	13	100.00%	1917/1930	13	13
Sil	Consolidated	13	100.00%	1976	12	12
Granö	Consolidated	9	100.00%	1958	9	9
Bällforsen	Consolidated	8	100.00%	1950	8	8
Bursnäs	Consolidated	8	100.00%	1961	8	8
Genastorp	Consolidated	7	100.00%	1969	7	7
Torsebro	Consolidated	6	100.00%	1982	6	6
Nöbbelev	Consolidated	4	100.00%	1956	4	4
Broby	Consolidated	4	100.00%	1959	4	4
Hemsjö Övre	Consolidated	4	100.00%	1907	4	4
Högsby	Consolidated	4	100.00%	1920	4	4
Njura	Consolidated	2	100.00%	1962	2	2

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

Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Hornsö	Consolidated	2	100.00%	1993	2	2
Storå	Consolidated	2	100.00%	1961	2	2
Östanå	Consolidated	2	100.00%	1943	2	2
Finsjö Nedre	Consolidated	2	100.00%	1993	2	2
Högfors	Consolidated	2	100.00%	1978	2	2
Horkoneryd	Consolidated	2	100.00%	1984	2	2
Blankaström	Consolidated	2	100.00%	1917	2	2
Emsfors	Consolidated	2	100.00%	1952	2	2
Hemsjö Nedre	Consolidated	2	100.00%	1917	2	2
Västgöthyttfors	Consolidated	2	100.00%	1921	2	2
Delary	Consolidated	2	100.00%	1949	2	2
Knislinge	Consolidated	2	100.00%	1925/1976	2	2
Ronneby	Consolidated	2	100.00%	1950	2	2
Kallinge	Consolidated	1	100.00%	1985	1	1

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

Hydro – Run-of-river (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Djupafors	Consolidated	1	100.00%	1948	1	1
Fagersta	Consolidated	1	100.00%	1988	1	1
Västanfors	Consolidated	1	100.00%	1948	1	1
Morgårdshammar	Consolidated	1	100.00%	1982	1	1
Uddnäs	Consolidated	1	100.00%	1988	1	1
Marieberg	Consolidated	1	100.00%	1918	1	1
Uman	Consolidated	1	100.00%	1990	1	1
Verperyd	Consolidated	1	100.00%	1921	1	1
Brantafor	Consolidated	1	100.00%	1921	1	1
Finsjö Övre	Consolidated	1	100.00%	1920	1	1
Karlslund	Consolidated	1	100.00%	1980	1	1
Lagfors	Consolidated	1	100.00%	1989	1	1
Klåvben	Not consolidated	3	50.00%	1949	1	0
Total		203			195	193

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

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	326	0
Total		7,725			1,988	1,400

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

Gas

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Öresundsverket ¹	Consolidated	447	100.00%	2009	447	447
Oskarshamn GT 23	Consolidated	34	54.50%	2001	0	0
Oskarshamn GT 24	Consolidated	34	54.50%	2001	0	0
Total		515			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

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

Other (cont'd)

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Öresundsverket Diesel G26	Consolidated	3	100.00%	2015	3	3
Karlshamn G2	Consolidated	334	100.00%	1971	334	334
Karlshamn G3	Consolidated	328	100.00%	1973	328	328
Total		1,162			1,162	1,162

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	213	213
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	26	26
Rotterdam Capelle GT 2	Consolidated	25	100.00%	1982	25	25
UCML BPT	Consolidated	0	100.00%	2003	0	0
Total		534			526	526

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

Details on assets disposed in 2019

Site	Country	Fuel Type	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Emile Huchet 6	France	Hard coal	595	100.00%	1981	595	595
Provence 5	France	Hard coal	595	100.00%	1984	595	595
Emile Huchet 7	France	Gas	414	100.00%	2010	414	414
Emile Huchet 8	France	Gas	414	100.00%	2010	414	414
Provence 4	France	Biomass	150	100.00%	2018	150	150
Kergrist	France	Onshore wind	26	100.00%	2010	26	26
Caulières	France	Onshore wind	18	100.00%	2010	18	18
Ambon	France	Onshore wind	10	100.00%	2008	10	10
Muzillac	France	Onshore wind	10	100.00%	2008	10	10
Lehaucourt	France	Onshore wind	10	100.00%	2007	10	10
Les Vents de Cernon 1	France	Onshore wind	10	100.00%	2008	10	10
Brigadel	France	Solar	8	100.00%	2011	8	8
Le Lauzet	France	Solar	3	100.00%	2010	3	3

International Power

Asset Overview and Asset List

Asset overview

	Gross MW installed ¹		CSA MW installed		TWh produced ²	
	Total	CSA	12M 2018	12M 2019	12M 2018	12M 2019
Surgutskaya-2	5,667	807	61%	61%	30,4	30,2
Berezovskaya ³	2,400	800	26%	31%	5,4	6,4
Shaturskaya	1,500	400	36%	32%	4,7	4,1
Smolenskaya	630	0	27%	25%	1,5	1,4
Yaivinskaya	1,048	448	50%	46%	4,5	4,2
Unipro total	11,245	2,455	47%	47%	46,6	46,4

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	390	83.73%	2011	326	390
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

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
		8,517			7,131	8,517

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
		2,263			1,895	2,263

Details on the remaining power plant portfolio

Czech Republic

Site	Consolidation	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Teplarna Tabor	Not consolidated	20	51.95%	1991	11	20
Solar Energy Znojmo	Not consolidated	1	24.98%	2008	0	0
Bioplyn Trebon	Not consolidated	1	24.67%	1974	0	0
		22			11	20

Details on assets disposed in 2019












Site	Country	Fuel Type	Capacity (technical, MW)	Stake	COD	Pro-rata (MW)	Accounting (MW)
Parnaiba I	Brazil	Gas	668	6.10%	2013	41	0
Parnaiba II	Brazil	Gas	512	6.10%	2015	31	0
Parnaiba III	Brazil	Gas	174	6.10%	2013	11	0
Parnaiba IV	Brazil	Gas	55	6.10%	2013	3	0
Itaqui	Brazil	Hard coal	322	6.10%	2013	20	0

Global Commodities

Storage and Pipelines

Portfolio of gas storages

Gas storage portfolio at a glance

Storage	Country	Capacity ¹	Main applications
Epe L-Gas		0.4	Peak shaving
Krummhörn ²		0.2	Peak shaving
Nüttermoor		0.1	Peak shaving
Epe H-Gas		1.3	Peak shaving and seasonal use
Eschenfelden		<0.1	Peak shaving and seasonal use
Etzel ESE		1.0	Seasonal use and peak shaving
Etzel EGL		1.0	Seasonal use and peak shaving
Breitbrunn		1.0	Seasonal use
Bierwang		0.8	Mainly seasonal use
7 Fields		1.6	Mainly seasonal use
Holford		0.2	Peak shaving
Total		7.7	

Key value drivers

Arbitrage

- 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 value 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
- Network operators can ask for location swaps to support/balance the gas system at specific delivery points. By supporting this, our storage assets can add value for the energy economy and generate additional income.

Insurance

- 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

OPAL



Key metrics

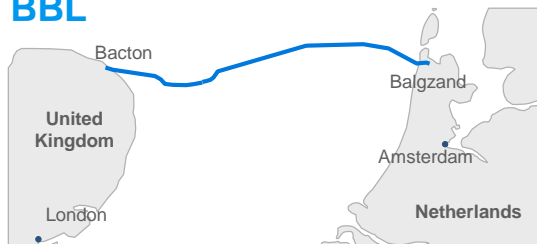
Stake	20% ^{1,2}
Capacity (100%)	36.5 bcm/a
Start-up date	2011

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

BBL



Key metrics

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

Business description

- Connecting 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

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