

# Grid points and gas specification of GASCADE Gastransport GmbH



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Grid points in GASPOOL market area:

Grid point ID	ETSO/EIC-Code MaLo-ID	Grid point name	Flow direction	Grid point type	Adjacent system operator / storage operator	Gas specification
1632	21Z000000000074Q	Bunde	EX	Interconnection point - international	Gasunie Transport Services B.V.	1
1632	21Z000000000074Q	Bunde	EN	Interconnection point - international	Gasunie Transport Services B.V.	1
2730	21Z000000000092O	Olbernhau II*	EX	Interconnection point - international	NET4GAS s.r.o.	1
2731	21Z000000000091Q	Brandov-STE GAL*	EN	Interconnection point - international	NET4GAS s.r.o.	1
273+	21Z0000000004863	VIP Brandov-GASPOOL	EX	Interconnection point - international	NET4GAS s.r.o.	1
273+	21Z0000000004863	VIP Brandov-GASPOOL	EN	Interconnection point - international	NET4GAS s.r.o.	1
3070	37Z0000000052293	Sp. Rehden	EN	Storage	astora GmbH & Co. KG	1
3070	37Z0000000052293	Sp. Rehden	EX	Storage	astora GmbH & Co. KG	1
6800	21Z000000000056S	Mallnow	EN	Interconnection point - international	EuRoPol GAZ s.a.; GAZ-SYSTEM S.A.	1
6800	21Z000000000056S	Mallnow	EX	Interconnection point - international	EuRoPol GAZ s.a.; GAZ-SYSTEM S.A.	1
8950	21Z0000000000155	Eynatten	EN	Interconnection point - international	Fluxys SA	1
8950	21Z0000000000155	Eynatten	EX	Interconnection point - international	Fluxys SA	1
01A+	37Y0000000000251C	Ostpfalz	EX	Exit zone	Creos Deutschland GmbH	2
0AAA	37Z0000000035275	TW Ludwigshafen	EX	Interconnection point - distribution system operator	Kommunale Netzgesellschaft Südwest mbH (KNS)	2
0CF+	37Z00000000068851 10259863224	Wörth	EX	Exit zone	end consumer	2
0CFC	37Z0000000006895Z 10259863232	Karlsruhe-Maxau	EX	Grid connection point	end consumer	2
0CFD	37Z0000000007089K 10259863240	BGEA Wörth	EN	Grid connection point	biogas producer	
11A+	37Z000000004115N	RMN	EX	Exit zone	e-netz Südhessen GmbH & Co. KG	2
11B+	37Y000000000028F	Hameln	EX	Exit zone	GWS Stadtwerke Hameln GmbH	2
11C+	37Y0000000000385S	Zone OGE	EX	Exit zone	Open Grid Europe GmbH	1
11C+	37Y0000000000385S	Zone OGE	EN	Entry zone	Open Grid Europe GmbH	1
1BMA	21Z000000000268D	Jemgum I	EX	Storage	astora GmbH & Co. KG	1
1BMA	21Z000000000268D	Jemgum I	EN	Storage	astora GmbH & Co. KG	1
1BMB	10259863258	Jemgum IV	EX	Grid connection point	end consumer	2
1BQA	21Z000000000267F	Nüttermoor	EX	Storage	EWE GASSPEICHER GmbH	1
1BQA	21Z000000000267F	Nüttermoor	EN	Storage	EWE GASSPEICHER GmbH	1
1BRA	21Z000000000269B	Jemgum III	EX	Storage	EWE GASSPEICHER GmbH	1
1BRA	21Z000000000269B	Jemgum III	EN	Storage	EWE GASSPEICHER GmbH	1
1FZA	37Z000000003938L	SW Bünde	EX	Interconnection point - distribution system operator	Energie- und Wasserversorgung Bünde	2
1GZA	37Z000000003941W	SW Lemgo	EX	Interconnection point - distribution system operator	Stadtwerke Lemgo GmbH	2
1IMA	37Z000000001587Y	Warburg I	EX	Interconnection point - distribution system operator	Westnetz GmbH	2
1LLA	37Z0000000051580	Großenritte	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	2
1LMA	37Z000000006904N 10259863266	Baunatal	EX	Grid connection point	end consumer	2
1LZA	37Z000000006774A	Malsfeld-Ostheim	EX	Interconnection point - distribution system operator	EnergieNetz Mitte GmbH	2
1NFA	37Z000000003909S	SW Hünfeld	EX	Interconnection point - distribution system operator	Stadtwerke Hünfeld GmbH	2
1NLA	37Z000000003425D	Reckrod II	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	2
1RZA	37Z000000005159Z	Wirtheim	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	2
1SEA	37Z000000004647R	Jügesheim II	EX	Interconnection point - distribution system operator	MAINGAU-Energie GmbH	2

1ULA	37Z000000006481P	Gernsheim	EX	Interconnection point - transmission system operator	GRTgaz Deutschland GmbH	1
1ULA	37Z000000006481P	Gernsheim	EN	Interconnection point - transmission system operator	GRTgaz Deutschland GmbH	1
1UXB	37Z00000000194L	GGEW Bensheim	EX	Interconnection point - distribution system operator	GGEW Gruppen-Gas- und Elektrizitätswerk Bergstraße	2
1UZB	37Z000000004016P	SW Weinheim	EX	Interconnection point - distribution system operator	Stadtwerke Weinheim GmbH	2
1VCA	37Z0000000034538	Frankenthal Nord	EN	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	2
1VCC	37Z000000002352J	Worms	EX	Interconnection point - distribution system operator	EWR Netz GmbH	2
1VCF	37Z000000006770I	Mörsch-West	EX	Interconnection point - distribution system operator	Stadtwerke Frankenthal GmbH	2
1VLA	37Z000000001442N	Lampertheim IV	EX, EN (C)	Interconnection point - transmission system operator	terranets bw GmbH	1
1VNA	37Z000000000275L	SW Lampertheim	EX	Interconnection point - distribution system operator	ENERGIERIED GmbH & Co. KG	2
1VTA	37Z000000006908F 10259863274	Mannheim I	EX	Grid connection point	end consumer	2
1VTB	37Z000000006889U 10259863282	Mannheim II	EX	Grid connection point	end consumer	2
1VZA	37Z000000006888W 10259863290	Ludwigshafen	EX	Grid connection point	end consumer	2
22A+	37Y0000000003607	Suedsachsen	EX	Exit zone	inetz GmbH	2
2BZA	37Z000000004066A	SW Marienberg	EX	Interconnection point - distribution system operator	Energieversorgung Marienberg GmbH	2
2CXA	37Z0000000069467 10259863307	Chemnitz-Stelzendorf	EX	Grid connection point	end consumer	2
2EEA	37Z000000003796F	SW Crimmitschau	EX	Interconnection point - distribution system operator	SÜWESA Netz GmbH	2
2EFA	37Z000000006750O	SW Werdau	EX	Interconnection point - distribution system operator	Stadtwerke Werdau GmbH	2
2EZA	37Z0000000030699	Gera-Gorlitzschberg	EX	Interconnection point - distribution system operator	GeraNetz GmbH	2
2FZA	37Z0000000040775	Stadtroda II	EX	Interconnection point - distribution system operator	Stadtwerke Stadtroda GmbH	2
2LXA	37Z000000003701F	Wölfershäuser	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	2
52A+	37Z000000004128E	Glauchau	EX	Exit zone	Stadtwerke Glauchau Dienstleistungsgesellschaft	2
55A+	37Z000000004741Z	Altenburg	EX	Exit zone	Energie- und Wasserversorgung Altenburg	2
5AKA	37Z000000004070J	SW Meerane	EX	Interconnection point - distribution system operator	Stadtwerke Meerane GmbH	2
6AQA	37Z000000001078I	Kienbaum	EX, EN (C)	Interconnection point - transmission system operator	Open Grid Europe GmbH	1
6BUA	37Z000000007020J 10259863315	Nonnendorf	EN	Grid connection point	biogas producer	4
6CZA	21Z000000000372I	Bobbau	EX	Storage	Erdgasspeicher Peissen GmbH	1
6CZA	21Z000000000372I	Bobbau	EN	Storage	Erdgasspeicher Peissen GmbH	1
7CZA	37Z000000003797D	Rotenburg-Boetersen	EX	Interconnection point - distribution system operator	Stadtwerke Rotenburg (Wümme) GmbH	2
7DHA	37Z0000000070186 10259863323	Fuchswinkel	EN	Grid connection point	biogas producer	3
7FRA	---	Heidenau SH	EX	Interconnection point - distribution system operator	Schleswig-Holstein Netz AG	2
7GZA	---	Heidenau HH	EX	Interconnection point - distribution system operator	Hamburg Netz GmbH	2
88A+	---	Lippstadt	EX	Exit zone	Stadtwerke Lippstadt GmbH	2
88B+	37Z000000004181A	Monheim	EX	Exit zone	Monheimer Elektrizitäts- und Gasversorgung GmbH	2
88I+	37Z000000006475K	Dormagen Chempark H	EX	Exit zone	Currenta GmbH & Co. oHG	2
8AFA	37Z000000006902R 10259863331	Hillegossen	EX	Grid connection point	end consumer	2
8AFC	37Z000000000002J	Bielefeld (KOWI)	EX	Interconnection point - distribution system operator	Stadtwerke Bielefeld Netz GmbH	2
8AZA	37Z000000006367N	Gütersloh-Verl	EX	Interconnection point - distribution system operator	Netzgesellschaft Gütersloh GmbH	2
8CLA	37Z000000003886E	SW Soest	EX	Interconnection point - distribution system operator	Stadtwerke Soest GmbH	2
8EUA	---	Herdecke 1	EX	Grid connection point	end consumer	2
8EUB	10259863498	Herdecke 1	EX	Grid connection point	end consumer	2
8EUB	---	Herdecke 2	EX	Grid connection point	end consumer	2
8EUB	10259863480	Herdecke 2	EX	Grid connection point	end consumer	2

8ERB	37Z000000006893Z 10259863357	Hagen-Boele	EX	Grid connection point	end consumer	2
8FZA	---	Wuppertal- Hohenhagen	EX	Interconnection point - distribution system operator	WSW Netz GmbH	2
8GWA	37Z000000006905L 10259863365	Rath	EX	Grid connection point	end consumer	2
8GWB	37Z000000006015H	Ratingen	EX	Interconnection point - distribution system operator	Stadtwerke Ratingen GmbH	2
8GZA	37Z000000006470U	Uerdingen	EX	Interconnection point - distribution system operator	Currenta GmbH & Co. oHG	2
8IRB	37Z000000006469F	Leverkusen	EX	Interconnection point - distribution system operator	Currenta GmbH & Co. oHG	2
8IRD	37Z0000000073126 10259863472	Köln-Merkenich II	EX	Grid connection point	end consumer	2
8IZB	----- 10259863373	Neuss	EX	Grid connection point	end consumer	2
8KLA	----- 10259863381	Frechen	EX	Grid connection point	end consumer	2
8KLC	37Z000000006887Y 10259863399	Kalscheuren	EX	Grid connection point	end consumer	2
8KLD	37Z0000000068843 10259863406	Wesseling I	EX	Grid connection point	end consumer	2
8KLE	37Z000000006913M 10259863414	Hürth	EX	Grid connection point	end consumer	2
8KLF	37Z0000000068940 10259863422	Wesseling II	EX	Grid connection point	end consumer	2
8KLG	----- 10259863430	Frechen-Rhein-Erft	EX	Grid connection point	end consumer	2
8KLH	37Z000000007022F 10259863448	Godorf	EX	Grid connection point	end consumer	2
8MLA	----- 10259863456	Weisweiler	EX	Grid connection point	end consumer	2
8MTA	37Z000000003937N	Dürwiß	EX	Interconnection point - distribution system operator	regionetz GmbH	2
8MVA	37Z000000004913W	Broichweiden Süd	EX, EN (C)	Interconnection point - transmission system operator	Thyssengas GmbH	1
8MXA	37Z000000003682U	Aachen (Debyestr.)	EX	Interconnection point - distribution system operator	INFRAWEST GmbH	2
94AZA	21Z0000000004774	Drohne NOWAL	EX	Interconnection point - transmission system operator	Open Grid Europe GmbH	1
94AZA	21Z0000000004774	Drohne NOWAL	EN	Interconnection point - transmission system operator	Open Grid Europe GmbH	1

\* The Marketing of marked interconnection points will be stopped by 01/Nov/2018 and transferred to the VIP Brandov-GASPOOL.

**Explanation:**

EX = Exit point

EN = Entry point

C = counter-current capacity

		1	2	3	4
contract location		<b>cross-border interconnection points / market area interconnection points / storage interconnection points</b>	<b>withdrawal specifications main grid</b>	<b>injection biogas Fuchswinkel</b>	<b>injection biogas Nonnendorf</b>
wobbe index (min)	kWh / m <sup>3</sup>	13.86	technical rules of DVGW [2]  working sheet G 260 (A) gas quality  in the version currently valid in Germany	13.60	13.60
wobbe index (max)	kWh / m <sup>3</sup>	15.47		15.70	15.00
gross calorific value (min)	kWh / m <sup>3</sup>			10.56	10.50
gross calorific value (max)	kWh / m <sup>3</sup>			12.30	12.20
relative density min		rules of CEN [1]  CEN EN 16726  gas infrastructure  quality of gas - group H  in the version currently valid in Germany		0.55	0.55
relative density max				0.75	0.75
hydrocarbon dew point	°C / mg/m <sup>3</sup>			ground temper. @ delivery pressure	2°C @ delivery pressure
water dew point / absolute humidity	°C / mg/m <sup>3</sup>			50	50
oxygen content (max)	mol-% / ppm			15 000	3 500
carbon dioxide content (max)	mol-%			3.68	3.00
maximum content hydrogen sulphide + carbonyl sulphide (as sulfur)	mg /m <sup>3</sup>			5.00	5.00
maximum content mercaptan sulfur without odorant (as sulfur)	mg /m <sup>3</sup>			6.00	6.00
maximum content total sulphur without odorant	mg /m <sup>3</sup>			30.00	30.00

Gross Calorific Value and Wobbe Index are referring to a reference temperature of 298,15 K (25 °C) and combustion circumstances of 1,01325 bar and 273,15 K (0 °C). The Gas transported to and from the connection points may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be further transported, stored or marketed without incurring additional cost for quality adjustment. The requirements in this table are technical requirements in accordance with Section 20 (2) of the General Terms & Conditions for Entry/Exit Contracts of GASCADE Gastransport GmbH dated 04 January 2019.

[1] Comité Européen de Normalisation / European Committee for Standardization

[2] Deutscher Verein des Gas- und Wasserfachs e.V. / German Society of Water and Gas Expertise

This document is a convenience translation of the German original. In case of discrepancy between the English and the German versions, the German version shall prevail.