

Appendix GTC 3: Grid points and Gas Specification



Last update: 28. July 2014

Grid point ID	ETSO/EIC-Code	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.	2
1632	21Z000000000074Q	Bunde	EN	Interconnection point - international	Gasunie Transport Services B.V.	2
2730	21Z000000000092O	Oibernhau II	EX	Interconnection point - international	NET4GAS s.r.o.	1.1
2731	21Z000000000091Q	Brandov-STEGAL	EN	Interconnection point - international	NET4GAS s.r.o.	4
3070	37Z0000000052293	Sp. Rehden	EN	Storage	astora GmbH & Co. KG	10
3070	37Z0000000052293	Sp. Rehden	EX	Storage	astora GmbH & Co. KG	1.1
6800	21Z000000000056S	Mallnow	EN, EX (C)	Interconnection point - international	EuRoPol GAZ s.a.; GAZ-SYSTEM S.A.	3
7005	37Z000000001044Z	Rehden	EX	Interconnection point - distribution system operator	E.ON Hanse Netz GmbH	1.1
7100	37Z000000000089I	Heidenau	EX	Interconnection point - distribution system operator	E.ON Hanse Netz GmbH	1.1
8950	21Z0000000000155	Eynatten	EX	Interconnection point - international	Fluxys SA	1
8950	21Z0000000000155	Eynatten	EN	Interconnection point - international	Fluxys SA	1
01A+	37Y000000000251C	Ostpfalz	EX	Exit zone	Creos Deutschland GmbH	1.1
0AAA	37Z0000000035275	TW Ludwigshafen	EX	Interconnection point - distribution system operator	Kommunale Netzgesellschaft Südwest mbH (KNS)	1.1
0CFA	---	Wörth	EX	Grid connection point	end consumer	1.1
0CFC	---	Karlsruhe-Maxau	EX	Grid connection point	end consumer	1.1
11A+	37Z000000004115N	RMN	EX	Exit zone	VNB Rhein-Main-Neckar GmbH & Co. KG	1.1
11B+	37Y000000000028F	Hamel	EX	Exit zone	GWS Stadtwerke Hameln GmbH	1.1
1BMA	21Z000000000268D	Jemgum I (planned)	EX	Storage	astora GmbH & Co. KG	1.1
1BMA	21Z000000000268D	Jemgum I (planned)	EN	Storage	astora GmbH & Co. KG	10
1BMB	---	Jemgum IV	EX	Grid connection point	end consumer	1.1
1BQA	21Z000000000267F	Nüttermoor	EX	Storage	EWE Netz GmbH	1.1
1BQA	21Z000000000267F	Nüttermoor	EN	Storage	EWE Netz GmbH	10
1BRA	21Z000000000269B	Jemgum III	EX	Storage	EWE GASSPEICHER GmbH	1.1
1BRA	21Z000000000269B	Jemgum III	EN	Storage	EWE GASSPEICHER GmbH	2
1ELA	---	Rehden/EGM	EX	Interconnection point - production grid	Erdgas Münster GmbH	1.1
1ELA	---	Rehden/EGM	EN	Interconnection point - production grid	Erdgas Münster GmbH	10
1FZA	37Z000000003938L	SW Bünde	EX	Interconnection point - distribution system operator	Energie- und Wasserversorgung Bünde	1.1
1GZA	37Z000000003941W	SW Lemgo	EX	Interconnection point - distribution system operator	Stadtwerke Lemgo GmbH	1.1
1IMA	37Z000000001587Y	Warburg I	EX	Interconnection point - distribution system operator	Westfalen-Weser-Ems Verteilnetz GmbH	1.1
1LLA	37Z0000000051580	Großenritte	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	1.1
1LMA	---	Baunatal	EX	Grid connection point	end consumer	1.1
1LZA	---	Malsfeld-Ostheim (planned)	EX	Interconnection point - distribution system operator	E.ON Mitte AG	1.1
1NFA	37Z000000003909S	SW Hünfeld	EX	Interconnection point - distribution system operator	Stadtwerke Hünfeld GmbH	1.1
1NLA	37Z000000003425D	Reckrod II	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	1.1
1NLC	37Z000000004923T	Reckrod I	EX	Interconnection point - transmission system operator	Open Grid Europe GmbH	1.1

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1NLC	37Z000000004923T	Reckrod I	EN	Interconnection point - transmission system operator	Open Grid Europe GmbH	10
1RZA	37Z000000005159Z	Wirtheim	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	1.1
1SEA	37Z000000004647R	Jügesheim II	EX	Interconnection point - distribution system operator	MAINGAU-Energie GmbH	1.1
1ULA	37Z000000006481P	Gernsheim	EX, EN (C)	Interconnection point - transmission system operator	GRTgaz Deutschland GmbH	12
1UXB	37Z000000000194L	GGEW Bensheim	EX	Interconnection point - distribution system operator	GGEW Gruppen-Gas- und Elektrizitätswerk Bergstraße	1.1
1UZB	37Z000000004016P	SW Weinheim	EX	Interconnection point - distribution system operator	Stadtwerke Weinheim GmbH	1.1
1VCA	37Z0000000034538	Frankenthal Nord	EN	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	6
1VCC	37Z000000002352J	Worms Süd	EX	Interconnection point - distribution system operator	EWR Netz GmbH	1.1
1VLA	37Z000000001442N	Lampertheim IV	EX, EN (C)	Interconnection point - transmission system operator	terraneis bw GmbH	1.1
1VMB	37Z0000000007905	Lampertheim I	EX, EN (C)	Interconnection point - transmission system operator	Open Grid Europe GmbH	1.1
1VNA	37Z000000000275L	SW Lampertheim	EX	Interconnection point - distribution system operator	ENERGIERIED GmbH & Co. KG	1.1
1VTA	---	Mannheim I	EX	Grid connection point	end consumer	1.1
1VTB	---	Mannheim II	EX	Grid connection point	end consumer	1.1
1VZA	---	Ludwigshafen	EX	Grid connection point	end consumer	1.1
22A+	---	Suedsachsen	EX	Exit zone	Südsachsen Netz GmbH	1.1
2BZA	37Z000000004066A	SW Marienberg	EX	Interconnection point - distribution system operator	Energieversorgung Marienberg GmbH	1.1
2CXA	37Z000000003795H	Chemnitz Stelzendorf	EX	Interconnection point - distribution system operator	Netzgesellschaft mbH Chemnitz	1.1
2EEA	37Z000000003796F	SW Crimmitschau	EX	Interconnection point - distribution system operator	SÜWESA Netz GmbH	1.1
2EFA	---	SW Werdau	EX	Interconnection point - distribution system operator	Stadtwerke Werdau GmbH	1.1
2ERA	37Z0000000031598	Ronneburg	EX	Interconnection point - distribution system operator	Erdgastransportgesellschaft Thüringen-Sachsen mbH (ETG)	1.1
2EZA	37Z0000000030699	Gera-Gorlitzschberg	EX	Interconnection point - distribution system operator	GeraNetz GmbH	1.1
2FZA	37Z0000000040775	Stadtroda II	EX	Interconnection point - distribution system operator	Stadtwerke Stadtroda GmbH	1.1
2LXA	37Z000000003701F	Wölfershausen	EX	Interconnection point - distribution system operator	Gas-Union Transport GmbH & Co. KG	1.1
52A+	37Z000000004128E	Glauchau	EX	Exit zone	Stadtwerke Glauchau Dienstleistungsgesellschaft	1.1
55A+	37Z000000004741Z	Altenburg	EX	Exit zone	Energie- und Wasserversorgung Altenburg	1.1
5AKA	37Z000000004070J	SW Meerane	EX	Interconnection point - distribution system operator	Stadtwerke Meerane GmbH	1.1
6AQA	37Z000000001078I	Kienbaum	EX, EN (C)	Interconnection point - transmission system operator	Open Grid Europe GmbH	1.1
6GUA	---	Nonnendorf (planned)	E	Grid connection point	biogas producer	
7CZA	37Z000000003797D	Rotenburg-Boetersen	EX	Interconnection point - distribution system operator	Stadtwerke Rotenburg (Wümme) GmbH	1.1
7DEA	37Z00000000103D	SW Zeven	EX	Interconnection point - distribution system operator	Stadtwerke Zeven GmbH	1.1
7DHA	---	Fuchswinkel	EN	Grid connection point	biogas producer	11
88A+	---	Lippstadt	EX	Exit zone	Stadtwerke Lippstadt GmbH	1.1
88B+	37Z000000004181A	Monheim	EX	Exit zone	Monheimer Elektrizitäts- und Gasversorgung GmbH	1.1
88I+	37Z000000006475K	Dormagen Chempark H	EX	Exit zone	Currenta GmbH & Co. oHG	1.1
8AFA	---	Hillegossen	EX	Grid connection point	end consumer	1.1

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8AFC	37Z000000000002J	Bielefeld (KOWI)	EX	Interconnection point - distribution system operator	Stadtwerke Bielefeld Netz GmbH	1.1
8AZA	37Z000000006367N	Gütersloh-Verl	EX	Interconnection point - distribution system operator	Netzgesellschaft Gütersloh GmbH	1.1
8CLA	37Z000000003886E	SW Soest	EX	Interconnection point - distribution system operator	Stadtwerke Soest GmbH	1.1
8ERA	---	Hagen-Kabel	EX	Grid connection point	end consumer	1.1
8ERB	---	Hagen-Boele	EX	Grid connection point	end consumer	1.1
8EUA	---	Herdecke	EX	Grid connection point	end consumer	1.1
8FZA	---	Wuppertal-Hohenhagen	EX	Interconnection point - distribution system operator	WSW Netz GmbH	1.1
8GWA	---	Rath	EX	Grid connection point	end consumer	1.1
8GWB	37Z000000006015H	Ratingen	EX	Interconnection point - distribution system operator	Stadtwerke Ratingen GmbH	1.1
8GZA	37Z000000006470U	Uerdingen	EX	Interconnection point - distribution system operator	Currenta GmbH & Co. oHG	1.1
8IRA	---	Köln-Merkenich	EX	Grid connection point	end consumer	1.1
8IRB	37Z000000006469F	Leverkusen	EX	Interconnection point - distribution system operator	Currenta GmbH & Co. oHG	1.1
8IZB	---	Neuss	EX	Grid connection point	end consumer	1.1
8KLA	---	Frechen	EX	Grid connection point	end consumer	1.1
8KLC	---	Kalscheuren	EX	Grid connection point	end consumer	1.1
8KLD	---	Wesseling I	EX	Grid connection point	end consumer	1.1
8KLE	---	Hürth	EX	Grid connection point	end consumer	1.1
8KLF	---	Wesseling II	EX	Grid connection point	end consumer	1.1
8KLG	---	Frechen-Rhein-Erft	EX	Interconnection point - distribution system operator	Gasversorgungsgesellschaft mbH Rhein-Erft	1.1
8KLH	---	Godorf	EX	Grid connection point	end consumer	1.1
8MLA	---	Weisweiler	EX	Grid connection point	end consumer	1.1
8MTA	37Z000000003937N	Dürwiß	EX	Interconnection point - distribution system operator	regionetz GmbH	1.1
8MVA	37Z000000004913W	Broichweiden Süd	EX, EN	Interconnection point - transmission system operator	Thyssengas GmbH	1.1
8MXA	37Z000000003682U	Aachen (Debyestr.)	EX	Interconnection point - distribution system operator	STAWAG Netz GmbH	1.1

Explanation:

EX = Exit point

EN = Entry point

C = counter-current capacity

		1	2	3	4	6
contract location		Eynatten	Bunde	Mallnow	Olbernhau	Frankenthal Nord
Gross Calorific Value (min)	kWh / m ³	10,97	10,97	<i>i n c o o r d i n a t i o n</i>	10,97	11,00
Gross Calorific Value (max)	kWh / m ³	12,22	12,22		11,61	12,30
Wobbe Index (min)	kWh / m ³	13,82	13,61		14,14	13,60
Wobbe Index (max)	kWh / m ³	15,05	15,00		15,00	15,70
Hydrocarbon dewpoint	°C / mg/m ³	-2 °C @ 1 - 70 bar (a)	5 mg/m ³ bei -3°C @ 1-73 bar (a)		-2 °C @ 1 - 70 bar (a)	ground temper. @ delivery pressure
Water dewpoint	°C	-10 °C @ 70 bar (a)	-8°C @ delivery pressure		-10 °C @ 70 bar (a)	ground temper. @ delivery pressure
Oxygen content (max)	ppm	10	15 (daily average)		10	30.000
Carbon dioxide content (max)	mol-%	2,5	2,5		2	-
Hydrogen sulphide content H ₂ S + COS (max)	mg / m ³	5,0	5,0		5,0	5 (incl. COS)
Mercaptans (max)	mg / m ³	-	6,0		-	6
Total sulphur (as S)	mg / m ³	20,0	20,0	22,4	30,0	

		10	11	12	1.1
contract location		Injection in Germany JAGAL / STEGAL / RHG / MIDAL / WEDAL	Injection biogas Fuchswinkel	Gernsheim	Withdrawal specifications - Main grid
Gross Calorific Value (min)	kWh / m ³	10,97	10,56	10,97	
Gross Calorific Value (max)	kWh / m ³	12,22	12,30	12,22	
Wobbe Index (min)	kWh / m ³	13,82	13,60	13,82	DVGW Technical rule
Wobbe Index (max)	kWh / m ³	15,00	15,70	15,00	
Hydrocarbon dewpoint	°C / mg/m ³	-2 °C @ 1 - 70 bar (a)	ground temper. @ delivery pressure	-2 °C @ 1 - 70 bar (a)	Arbeitsblatt G 260 (A)
Water dewpoint	°C	-10 °C @ 70 bar (a)	50 mg/m ³	-8 °C @ 70 bar (a)	April 2013
Oxygen content (max)	ppm	10	15.000 ***)	-	
Carbon dioxide content (max)	Mol-%	2,5	3,68	-	
Hydrogen sulphide content H ₂ S + COS (max)	mg / m ³	5,0	5,0	5,0	
Mercaptans (max)	mg / m ³	6,0	6,0	6,0	
Total sulphur (as S)	mg / m ³	20,0	30,0	-	

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.