



INTEROPERABILITY AND DATA EXCHANGE RULES NETWORK CODE

**Implementation
Monitoring Report 2019**

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1 INTRODUCTION

The EU's gas transmission grid harmonisation process started ten years ago. In accordance with the procedure set out in Article 6 of Regulation (EC) No 715/2009¹, ENTSOG led the development of INT NC. This Regulation is to encourage and facilitate efficient gas trading and transmission across gas transmission systems within the European Union and thereby to move towards greater internal market integration.

The Network Code was approved by the EU Gas Committee on 5 April 2015 as Commission Regulation (EU) No 2015/703². The implementation date was 1 May 2016 except for Article 5 (Interconnection Agreement Template).

Pursuant to Article 8(8) of Regulation (EC) No 715/2009 and to Article 25 INT NC, ENTSOG is tasked to monitor and analyse INT NC's implementation and report its findings to the Agency for the Cooperation of Energy Regulators (ACER).

This document represents ENTSOG's continuous work on harmonising gas transmission in Europe. ENTSOG Members believe that achievements reached through successfully implementing the EU Network Codes developed pursuant to Regulation (EC) No 715/2009 provide a solid foundation for the future efficient utilisation of the gas transmission grid for renewable, decarbonised, and low-carbon gases. With new challenges ahead to meeting EU Climate and Energy goals, ENTSOG – equipped with the expertise of its members and in dialogue with European Commission (EC), Agency for the Cooperation of Energy Regulators (ACER) as well as industry and other stakeholders – is working towards achieving decarbonisation of the gas grids³.

The first ENTSOG Implementation Monitoring Report (IMR) was published in September 2016⁴ and the second in April 2018⁵.

This third assessment of how INT NC requirements are implemented by TSOs was undertaken by ENTSOG in 2019. Transmission System Operators (TSOs) provided ENTSOG with an updated set of information (as a questionnaire) on Interconnection Points (IPs) and their Interconnection Agreements (IAs) compliance with INT NC, which has allowed ENTSOG to fulfil its monitoring and reporting obligations.

This third monitoring report presents an overview of how TSOs have implemented the requirements of INT NC Articles on both sides of interconnection points (IPs) operated within the European Union. Detailed information through an article-by-article analysis is provided. In addition, detailed evidence of Interconnection Agreements' compliance with INT NC is presented in Annex 1 for 16 Interconnection Points that were chosen by ACER for a more detailed review in 2019.

1 [REGULATION \(EC\) No 715/2009](#) (PDF)

2 [COMMISSION REGULATION \(EU\) 2015/703](#) (PDF)

3 [ENTSOG Roadmap 2050 for Gas Grids](#)

4 [INT NC Implementation Monitoring Report 2016](#) (PDF)

5 [INT NC Implementation Monitoring Report 2017](#) (PDF)

2 GENERAL CONSIDERATIONS

This report summarises the implementation status of each INT NC Article for all IPs operated by European gas TSOs. To receive input data, ENTSOG, in close cooperation with ACER, prepared a questionnaire for the second IMR in 2017. This questionnaire was used again for the information update in 2019 for the third IMR. 39 TSOs submitted answers and evidence comments to the questions focusing on the mandatory provisions for TSOs stipulated in each Article. The remaining TSOs did not participate in the survey as they do not have IPs eligible for this report.

Two IPs were subject to Article 1 (3) (“Regulation shall not apply to interconnection points between Member States as long as one of these Member States holds a derogation on the basis of Article 49 of Directive 2009/73/EC”) until 2020. By 1 January 2020, they took the necessary actions to introduce the new status of their IPs after the derogation period. TSOs operating IP Kiemenai (LT-LV)⁶ reported “work in progress” on the alignment of its IA with

INT NC. This IP is included in the report. IP KARKSI (EE-LV)⁷ became part of a common balancing zone in relation to the use of gas transmission systems, capacity booking, nominations and allocation. Furthermore, two other IPs, (DRAGOR, DK-SE)⁸ and JULIANADORP (GTS)/BALGZAND (BBL), NL-NL)⁹, were also included into common balancing zones. IPs KARKSI, DRAGOR, JULIANADORP are not included in the report.



Picture courtesy of Terranets

6 [IP KIEMENAI, LT-LV](#) (PDF)

7 [IP KARKSI, EE-LV](#)

8 [IP DRAGOR, DK-SE](#)

9 [IP JULIANADORP\(GTS\)/BALGZAND\(BBL\), NL-NL](#)

3 SUMMARY AND CONCLUSIONS

Following ENTSG's annual work programme (AWP) 2019¹⁰, ENTSG asked its members to provide updated information on the questionnaire on INT NC implementation agreed by ACER and ENTSG.

Based on the replies from participating TSOs, the report shows that 67 out of 69 interconnection points (IPs) are covered with interconnection agreements (IAs) between adjacent TSOs. Two IPs are missing IAs: IP Petrzalka (AT-SK) has never been in

operation; IP Negru Voda II, III (RO)/Kardam (BG) is in operation though "missing technical and legal conditions necessary for an IA" (according to comments from adjacent TSOs). The implementation process of INT NC for the latter is in progress.

Table 1. IPs' overview (2019)

IP status	Number of IPs	Comments
IPs located in EU	76	<ul style="list-style-type: none"> 5 IPs are out of the report's scope: with non-EU Member States 3 IPs are out of the report's scope: became parts of common balancing zones (DK-SE, NL-NL, EE-LV) 1 IP is included in the report's scope: was on derogation and now received its full IP status in January 2020 (LT-LV)
IPs between TSOs within the EU These IPs have following differences:	69	<ul style="list-style-type: none"> IPs are subject to the IMR 2019
IPs in operation with IA	67	<ul style="list-style-type: none"> IPs included in the report's analysis
IP in operation, with IA in progress	1	<ul style="list-style-type: none"> IP Negru Voda II (RO-BG) is included in the report's analysis: missing technical and legal conditions necessary for an IA.
IP not in operation, with IA in progress	1	<ul style="list-style-type: none"> IP Petrzalka (AT-SK) is excluded of the report's analysis: a new IP, never in operation.

Table 2. IPs with IAs signed, some parts are in progress to compliance with INT NC (2019)

IP Name/Location, TSO's country	% compliance	Parts of IAs in progress to compliance with INT NC
Kiemenai (LT-LV)	89 %	Art. 7.3.a,b,f,i,j
Bunder-Tief (DE-DE)	94 %	Art.8.2.c,8.5.b
Dravaszerdahely (HU)	94 %	Art.4.1-2, Art.6.4.a-b
Wardenburg (DE-DE)	94 %	Art.8.2.c, 8.5.b
Csanadpalota (HU-RO)	95 %	Art.6.4.a-b, Art.16
Mosonmagyaróvár (HU)	96 %	Art.4.1-2
Hora Svaté Kateřiny (CZ)/ Deutschneudorf (Sayda) (DE)	98 %	Art.10
Negru Voda I (RO)/Kardam (BG)	98 %	Art. 6.3.c
Ruse (BG) – Giurgiu (RO) (Transgaz)	98 %	Art.16

ENTSG's analysis of TSO replies and IAs' review indicate that, during the last two years (after the second IMR), the adjacent TSOs have undertaken

significant work on improving IAs and documenting TSOs' mutual consensus on the main terms and conditions envisaged in INT NC. 63 % of the exist-

¹⁰ [Annual Work Programme 2019](#) (PDF, page 48)

ing IAs have been amended with added provisions to the IAs that cover at least the terms and conditions defined in articles 6–12 INT NC. For 97 % of IPs, TSOs fulfilled their obligations (according to Article 4 INT NC) to inform Network Users about IA provisions that may directly affect the said Users. The remaining 3 % of IPs are in progress. TSOs are continuously working on improving the texts of the IAs, reviewing and expanding the existing IAs, updating the information of the main document, aiming to make the IAs comprehensive, clear and fully compliant with the set of conditions outlined under Articles 6 to 12 of INT NC. TSOs that earlier applied ENTSOG's IA template are developing documentation for IAs fully compliant with the Code.

For the majority of IAs, the "Rules for flow control" (Article 6) and "Measurement principles" (Article 7) were taken into consideration as stated in INT NC. The various requirements stemming from Article 6 (flow control, safety legislation, emergency plans, preventive action plans etc.) are 82–99 % covered in the IAs. The remaining percentages represent mainly "Not applicable" answers with TSOs' clarifying comments that the rules are "not included in IAs but existing in other technical and legal documentation." Replies regarding Article 7 INT NC "Measurement principles for gas quantity and quality" show 90–99 % IPs compliance with all paragraphs of the article. The remaining percentages indicate that the work is mainly "in progress".

Paragraphs of Article 8 INT NC "Rules for the matching process" received 95–99 % of IPs compliance replies. For 56 % of IPs TSOs specified a flow control equipment operator responsible for the matching process, for 40 % it is reported that "roles are designated between the partners", for 4 % the work is "in progress". In most of the IAs, the "lesser rule" was implemented as the matching rule (96 %), and the operational balancing account (OBA) as the allocation rule (97 %).

- ▲ Compliance with Article 10 INT NC "Agreements on communication procedures in case of exceptional events" was reported in 97 % of cases.
- ▲ Compliance with Article 11 INT NC "Settlement of disputes" was reported for 96 % of IPs.
- ▲ Compliance with Article 12 INT NC "Amendment process" was reported for 95 % of IPs.
- ▲ Compliance with Article 13 INT NC "Common set of units" used for data exchange and publication was reported for 92 % of IPs.

According to the results, TSOs are 100 % compliant with the requirements of Articles 15 and 19 INT NC that cover gas quality and odourisation issues and prescribe instruments for managing cross-border trade restrictions due to differences of gas quality or odourisation practices. No cross-border trade restrictions due to differences in gas quality or odourisation practices have been reported. Thus, the procedure stipulated in Article 15 (2) does not apply.

89 % of the IPs comply with the obligations of Article 16 INT NC regarding publication of the gas quality parameters Wobbe Index (WI) and Gross Calorific Value (GCV) on an hourly basis for each entry IP.

For Article 17 INT NC "Information provision on short-term gas quality variation" as applies to the relevant entitled parties, TSOs reported 85 % compliance and 15 % "No" answers with clarifying comments that these TSOs do not have any party that falls under the eligibility criteria according to paragraph 17.2. Therefore, they are not obliged to define and maintain a list of parties according to paragraph 17.3. (a).

The parameters the TSOs are providing to the relevant parties are mainly GCV, WI and full gas composition. 48 % of TSOs reported providing WI to the relevant parties, 65 % of TSOs share GCV, and 43 % of TSOs provide information about the full composition of gas. The main method of data communication is publishing it on the TSO's website, 53 %; second most frequently applied communication method is B2B protocols, 28 %. The frequency of information update that TSOs maintain to inform the identified parties varies significantly from real-time (continuous) to yearly, with many TSOs agreeing with relevant parties to provide information only when the parameters of interest exceed a predefined threshold. Methods of communication are linked to the frequency. The lead time varies between immediate and several days.

All TSOs have met the data exchange security requirements as stated in Article 22 INT NC. In reference to Article 23 INT NC "Implementation of the common data exchange solutions", 70 % of TSOs reported that, besides the Document Based in addition to the Common Data Exchange Solutions, they are still using other data exchange solutions than those defined in Article 21 for data exchange requirements envisaged in point 2.2 of Annex I to Regulation (EC) No 715/2009, CAM/CMP NC, BAL NC, REMIT and INT NC.

Following the requirements of Article 24 INT NC “Development process for common network operation tools”, 93 % of TSOs implemented the Common Data Exchange Solution as defined in ENTSOG’s Common Data Exchange Solution Table. The remaining TSOs reported the implementation work is “in progress” with temporary use of the optional solutions approved by NRAs.

The evidence data confirms significant results achieved by TSOs during the period of INT NC implementation. With only few minor procedures that are still in progress, all analysed IPs are operated in accordance with INT NC. ENTSOG recognises the substantial amount of work undertaken by TSOs in executing all necessary measures required for compliance with INT NC rules.

Picture courtesy of SNAM



4 SURVEY PARTICIPANTS

The following European TSOs participated in the survey:

Country	TSO
AUSTRIA	Gas Connect Austria GmbH
AUSTRIA	Trans Austria Gasleitung GmbH
BELGIUM	Fluxys Belgium S.A.
BULGARIA	Bulgartransgaz EAD
CROATIA	Plinacro d.o.o.
CZECH REPUBLIC	NET4GAS s.r.o.
DENMARK	Energinet
ESTONIA	Elering AS
FRANCE	GRTgaz SA
FRANCE	TEREGA
GERMANY	Bayernets GmbH
GERMANY	Fluxys TENP GmbH
GERMANY	GASCADE Gastransport GmbH
GERMANY	Gasunie Deutschland Transport Services GmbH
GERMANY	GRTgaz Deutschland GmbH
GERMANY	Gastransport Nord GmbH
GERMANY	Nowega GmbH
GERMANY	Ontras Gastransport GmbH
GERMANY	OPAL Gastransport GmbH*
GERMANY	Open Grid Europe GmbH
GERMANY	Terranets BW GmbH
GERMANY	Thyssengas GmbH
GREECE	DESFA S.A.
HUNGARY	FGSZ Ltd.
ITALY	Snam Rete Gas S.p.A.
LATVIA	Conexus Baltic Grid
LITHUANIA	AB Amber Grid
LUXEMBOURG	Creos Luxembourg S.A. (derogation)
NETHERLANDS	BBL Company V.O.F.
NETHERLANDS	Gasunie Transport Services B.V.
POLAND	GAZ-SYSTEM S.A.
PORTUGAL	REN – Gasodutos S.A.
ROMANIA	Transgaz S.A.
SLOVAKIA	eustream a.s.
SLOVENIA	Plinovodi d.o.o.
SPAIN	Enagás S.A.
UNITED KINGDOM	Interconnector Ltd.
UNITED KINGDOM	National Grid Gas plc
UNITED KINGDOM	Premier Transmission Ltd.

* The input for OPAL Gastransport GmbH is provided by GASCADE

5 INTERCONNECTION AGREEMENTS

The survey covers Chapters II–V of INT NC and addresses specific requirements of articles and paragraphs of INT NC. Only IPs operated by TSOs within European Union were considered in this report.

To count the IPs, the following criteria were followed:

- ▲ Pipe-in-pipe situations are considered as a single IP (e. g. Ellund, Moffat, Waidhaus, etc).
- ▲ IPs between two entry-exit zones operated only by one TSO are beyond the scope of the survey.
- ▲ In case of marketing of capacity and booking, nomination and matching procedures are transferred to the VIP level and covered by special VIP Agreement between VIP Operators, Interconnection Agreements for respective IPs are still valid in order to perform physical gas flow. These IPs remain part of this survey.
- ▲ Connection points between TSOs and DSOs or TSOs and SSOs across borders are beyond the scope of the survey as well.
- ▲ CAM relevant points with 3rd countries are not considered.

5.1 GENERAL PROVISIONS (ARTICLE 3)

Article 3 General provisions			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
3. Is there a signed IA in place?	99 %	1 %	0 %
When was the last time the IA mandatory terms were amended or replaced?	63 %		37 %

Based on the input received from TSOs, 69 IPs¹¹ are analysed in the report. IPs connecting to non-EU countries are beyond the scope of the survey.

The IMR shows that 67 out of 69 IPs are covered with IAs between adjacent TSOs. Two IPs are missing Interconnection Agreements: IP Petrzalka

(AT-SK) has never been in operation and IP Negru Voda II, III (RO)/Kardam (BG) is in operation though “missing technical and legal conditions necessary for an IA” (according to comments from adjacent TSOs). INT NC implementation process for the latter is in progress. IP Petrzalka is excluded from the report’s results.

Article 3 General provisions			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
3. Do provisions of interconnection agreement cover at least the terms and conditions defined in articles 6–12 NC INT?	97 %	3 %	0 %

Provisions of the IAs are required to cover terms and conditions defined in articles 6–12 INT NC. The analysis of TSOs’ replies and IAs’ review indicate that, during the last two years since the second

IMR, the adjacent TSOs have done significant work on improving IAs and documenting mutual consensus on the main terms and conditions envisaged in INT NC. 63 % of the existing IAs have been amend-

¹¹ This list includes also VIPs. The physical connection points forming the VIP are beyond scope.

ed to comply with the mandatory terms requirements after entering into force INT NC (see Table General Provisions). New requirements to the IAs were added to reinforce compliance with articles

6–12 INT NC. Alignment of the IA with INT NC for IP Kiemenai (LT-LV) is in progress as its derogation from requirements expired at the end of 2019.

5.2 INFORMATION OBLIGATION (ARTICLE 4)

Article 4 Information obligations			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
4.1 Have you identified information contained in IA that directly affects NUs and informed them?	97 %	3 %	0 %
4.2 Since application date of INT NC and before concluding or amending an interconnection agreement, have you invited network users to comment on the proposed text for matching, allocation and communication of exceptional events?	55 %	2 %	43 %

Regarding TSOs' information obligation towards network users, in 97 % of replies, TSOs confirmed that network users were informed about the provisions of IAs that have a direct impact on them. The remaining 3 % are in progress, which refers to IPs Kiemenai and Nergu Voda II (III).

Following Article 4(2) prescribing the invitation of network users to comment on IAs, the majority of TSOs established communication with NUs in the IAs amendment process. Taking into consideration that 63 % TSOs reported implementing amendments to IAs and 55 % TSOs worked with NUs on approval of IAs changes mainly using public consultations via the TSO website, we recognise that 87 %

of amendment cases were executed after enforcing INT NC. Also, in compliance with the regulation, the NUs were involved in discussing and approving IAs' changes. Many TSOs reported: "The information identified as directly impacting network users is made available via a market information on the company's website" and "Public consultation on the business rules and communication procedures are available [on the company's website]".

Remaining 43 % "not applicable" answers refer to IAs that were signed before INT NC came into force; therefore, TSOs were not obliged to execute this provision.

5.3 RULES FOR FLOW CONTROL (ARTICLE 6)

Article 6 Rules for flow control			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
6.1.a Rules to facilitate a controllable, accurate, predictable and efficient gas flow.	99 %	1 %	0 %
6.1.b Rules for steering the gas flow across the interconnection point and for minimising the deviations from the flow pursuant to the matching process.	99 %	1 %	0 %
6.1.c Designation of TSO responsible for steering	99 %	1 %	0 %
6.2 The quantity and direction of the gas flow is decided on an hourly basis by the adjacent TSOs.	98 %	1 %	1 %
6.3.a Matching rule	99 %	1 %	0 %
6.3.b Allocation rule	99 %	1 %	0 %
6.3.c Flow control arrangements	97 %	3 %	0 %
6.3.d Gas Quality including any arrangement pursuant to Article 15	67 %	1 %	32 %
6.3.d Odourisation including any arrangement pursuant to Article 19	15 %	0 %	85 %
6.4.a Safety legislation	89 %	2 %	9 %
6.4.b Emergency plans	85 %	4 %	11 %
6.4.b Preventive action plans	82 %	4 %	14 %
6.4.c Exceptional events	99 %	1 %	0 %

The analysis of the respondents' answers shows that the adjacent TSOs agreed on most of the rules for flow control.

The various requirements stemming from Article 6 (flow control, safety legislation, emergency plans, preventive action plans, etc.) are 82–99 % covered in the IAs. The remaining percentages represent mainly "Not applicable" answers with TSOs' comments that the rules are "not included in IAs but existing in other technical and legal documentation."

Arrangements to manage gas quality and gas odourisation restrictions according to Articles 15 and 19

are often considered as not applicable "due to the non-existence of any cross-border trade restrictions" or "TSOs' cooperation to avoid restrictions due to gas quality differences." Hence, there has been no need to start the formal cooperation procedures with NRA involvement as envisaged in these articles. Additionally, some IPs are connecting points within one country and therefore they are not subject to article 15 and 19 INT NC as gas quality specifications and odourisation practices are the same.

Articles 6.2 to 6.4 do not require the provisions to be reflected in the wording of the IAs as long as the IAs do not prevent their fulfilment.

5.4 MEASUREMENT PRINCIPLES FOR GAS QUANTITY AND QUALITY (ARTICLE 7)

Article 7 Measurement principles for gas quantity and quality			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
7.1.a Details of the measurement standards applicable have been established.	96 %	3 %	1 %
7.1.b Designation of the TSO responsible for Installation, Operation & Maintenance.	97 %	3 %	0 %
7.3.a Description of the station and its equipment.	92 %	7 %	1 %
7.3.b Parameters and details: units, range, uncertainty and frequency of measurement.	92 %	7 %	1 %
7.3.c Calculations procedures.	92 %	3 %	5 %
7.3.d Maximum permissible error in energy.	96 %	3 %	1 %
7.3.e Data validation	96 %	3 %	1 %
7.3.f Verification and adjustment	95 %	4 %	1 %
7.3.g Data provision content and frequency	96 %	3 %	1 %
7.3.h List of signal and alarms	90 %	3 %	7 %
7.3.i Corrections to measurements	92 %	4 %	4 %
7.3.j Equipment failure management	92 %	4 %	4 %
7.3.k Rules for facility access, additional verification, modification, and attendance during calibration.	96 %	3 %	1 %

Replies regarding Article 7 INT NC “Measurement principles for gas quantity and quality” show 90–99 % TSO compliance with all paragraphs of the article. The remaining answers indicate work “in

progress”, for example, “Inclusion [of amendments] into the IA is in progress. The designation of the responsible [operator] is part of the station's documentation.”



5.5 RULES FOR THE MATCHING PROCESS (ARTICLE 8)

Article 8 Rules for the matching process			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
8.1.a Rules detailing the matching process have been established, taking into account the daily-hourly nomination arrangements where relevant.	98 %	1 %	1 %
8.1.b Rules detailing communication and processing of data have been established.	96 %	1 %	3 %
8.2; 8.5.a matching rule	99 %	1 %	0 %
▲ Lesser rule as a matching rule	96 %		
▲ Other	3 %		
8.2.b In case “Other Rule” than the “Lesser Rule” is applied, have been network users invited to comment on it? *	100 %	0 %	0 %
8.2.c; 8.5.b TSO responsible for the matching process	96 %	4 %	0 %
▲ TSO in control of the flow control equipment	56 %		
▲ other	40 %		
8.2.d Has a time schedule taking no longer than two hours been defined?	96 %	1 %	0 %
▲ other	3 %		
8.4 Are data exchange use and the harmonised information specified?	99 %	1 %	0 %

* Only IPs with the Other Rule are taken into account in the assessment of paragraph 8.2.b.

Paragraphs of Article 8 INT NC “Rules for the matching process” received 95–99 % positive compliance replies.

Article 8(5) a) INT NC sets out the application of the lesser rule as matching rule by default. 66 IPs (96 %) are being operated under this principle although there are exceptional cases. In one case, under normal circumstances, TSOs agreed to use the processed quantities determined by one shipper as confirmed quantities, while the lesser rule applies to an exceptional event or emergency conditions. In another case, during exceptional events, an affected TSO's processed quantity prevails while normal operations and emergency events are operated by a mutually agreed shipper.

At IPs where another rule is used as matching rule, TSOs confirmed that users have been invited to comment on the procedure.

56 % of TSOs specified a flow control equipment operator being responsible for the matching process, 40 % reported that responsibility “roles are designated between the partners”, 4 % described the work as “in progress”.

Regarding the time schedule for the matching process, for 96 % TSOs confirmed that it does not take longer than 2 hours, which corresponds to the time frame described in Article 8 (5) c) INT NC. The answers “other” do not reveal any special time schedule but only TSO's notification that the IA was signed before INT NC.

In all IAs, the information and the data exchange mechanism have been defined.

5.6 RULES FOR ALLOCATION OF GAS QUANTITIES (ARTICLE 9)

Article 9 Rules for allocation of gas quantities			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
9.2 The allocation rule is in place.	99 %	1 %	0 %
▲ OBA		97 %	
▲ Other	2 %		
9.2 If the rule is OBA, it is recalculated by the TSO in control of the measurement equipment.	96 %	1 %	3 %
9.3.a Where the OBA applies, the allocations are equal to the confirmed quantities?	96 %	1 %	3 %
9.3.b the OBA is maintained as close to 0 as possible?	96 %	1 %	3 %
9.4 The OBA limits take into account specific characteristics of each IP and/or the interconnected transmission networks, in particular: physical characteristics, linepack capability of each transmission system, total technical capacity, gas flow dynamics	92 %	1 %	7 %

TSOs are using the Operational Balancing Account (OBA) as the main allocation rule. In one case, TSOs reported a different rule in place: users are "allocated as nominated (result like OBA) and differences are allocated to an internal market point".

TSOs operating based on the OBA specified in comments that "the allocation to the network users is equal to the confirmed quantities" and the OBA is maintained as close to zero as possible. In most IAs, if the rule is OBA, it is recalculated by the TSO in control of the measuring equipment. For two IPs, TSOs replied "not applicable". One case corresponds to the IP using a balancing shipper. For one VIP, the recalculation is undertaken jointly

depending on the virtualised physical IP where the TSO in control of the measurement equipment is a different one.

Articles 9.3.c does not require the provisions to be reflected in the wording of the IAs as long as the IAs do not prevent their fulfilment.

In most of the cases, the OBA limits take into account specific characteristics of each IP and/or the interconnected transmission networks, in particular: physical characteristics, the linepack capability of each transmission system, total technical capacity, etc.

5.7 COMMUNICATION PROCEDURES IN CASE OF EXCEPTIONAL EVENTS (ARTICLE 10)

Article 10 Communication procedures in case of exceptional events			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
In case of an "exceptional event", there is a procedure to inform adjacent TSOs and potentially affected network users.	97 %	3 %	0 %

For 66 IPs, adjacent TSOs have already agreed on and formalised the procedures to inform each other and potentially affected network users in case

of exceptional events. The remaining IPs (2) await further progress on implementing the requirements of this Article.

5.8 SETTLEMENT OF DISPUTES ARISING FROM IA (ARTICLE 11)

Article 11 Settlement of disputes arising from IA			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
11.1.a The dispute settlement mechanism specifies the applicable law.	96 %	1 %	3 %
11.1.b The dispute settlement mechanism specifies the court of jurisdiction or the terms and conditions of appointment of experts.	96 %	1 %	3 %

This article is implemented for 65 IPs. The requirement is reported as “not applicable” by 2 TSOs. The evidence comments to these “not applicable” answers clarify that following INT NC requirements,

the TSOs used the ENTSOG template that stipulates the default terms regarding the settlement of disputes when these are not detailed in the inter-connection agreement.

5.9 AMENDMENT PROCESS (ARTICLE 12)

Article 12 Amendment process			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
A transparent and detailed amendment process has been established	95 %	1 %	4 %

This article is implemented for 64 IPs. It should be noted that this requirement is reported as “not applicable” when the ENTSOG template is used as adjacent transmission system operators may use the dispute settlement mechanisms developed

in accordance with Article 11 INT NC if they fail to reach an agreement on the amendment process. Other “not applicable” replies refer to the IAs signed before May 2015.

6 UNITS

6.1 COMMON SET OF UNITS (ARTICLE 13)

Article 13 Common set of units			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
The set of units and reference conditions defined is used for every data exchange and publication related to regulation 715/2009	92 %	1 %	7 %

The common set of units and reference conditions is in use in 91 % of cases for data exchange and publication. It is reported “not applicable” for five IPs. In one case, a TSO reported “data exchange for capacity, nominations and allocations ... conducted at different temperature... [the TSO] made an

application pursuant to Article 13(3) of the Interoperability Code to NRA which was granted in a letter. Data publication requirements are submitted to the ENTSOG transparency platform.” Other replies refer to the IAs signed before May 2015.

6.2 ADDITIONAL UNITS (ARTICLE 14)

Article 14 Additional units			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
Has an additional set of units been defined?	19 %	1 %	80 %

Implementation of the article is not mandatory. Usage of an additional set of units complementing the common set of units and reference conditions for data exchange or data publications is applied in 12 IPs (19 %).



7 GAS QUALITY

7.1 MANAGING CROSS-BORDER TRADE RESTRICTIONS DUE TO GAS QUALITY DIFFERENCES (ARTICLE 15)

Article 15 Managing cross-border trade restrictions due to gas quality differences			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
Is there any cross-border trade restriction due to gas quality that cannot be avoided by the standard operations of the TSOs and that has been recognised by NRAs?	99 %		1 %

According to the results, TSOs are compliant¹² with the requirements of Article 15 INT NC that cover gas quality issues and prescribe instruments for managing cross-border trade restrictions due to differences of gas quality because no cases where different gas quality specifications either side of an

IP being a barrier to cross border trade have been reported. Activation of the procedure stipulated in Article 15 (2) is therefore not reported by any TSOs. An effective dialogue and cooperation on the operational level between the adjacent TSOs allows them to uphold a necessary level of gas quality¹³.

7.2 SHORT-TERM MONITORING OF GAS QUALITY – DATA PUBLICATION (ARTICLE 16)

Article 16 Short-term monitoring of gas quality – data publication			
Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
Are WI and GCV published on your website for each IP that acts as an entry point and once per hour?	89 %	3 %	8 %

Regarding obligations on short-term gas quality monitoring set out in Article 16 INT NC, a wide majority of TSOs publishes information on Wobbe Index and Gross Calorific Value on their websites. For 8 % of IPs TSOs reported the requirement as “not applicable” referring to the fact that the adja-

cent TSOs are already publishing the data for the IP or the IP is operated within the same member state. See Paragraph 5 of this report for IPs' survey eligibility criteria.

3 % IPs are still in the process of implementing the obligation.

12 All answers but one are reported “No” cross-border restrictions. And only one answer is “Not applicable” for IP Negru Voda II, III (RO)/Kardam (BG) that is in operation but missing the IA – no restrictions reported.

13 Adjacent TSOs operating the IP Csanadpalota (HU–RO) reported that there are no cross-border trade restrictions. Though it was mentioned that “due to the different gas quality standards and requirements in the region, there could be some problem in the future, e.g. if transported volumes are going to be higher from Romania to Hungary... at the moment it is not relevant from the aspect of the report” (April, 2020). The situation at this IP is maintained in close cooperation on the continuous basis by adjacent TSOs and monitored by respective NRAs. Bilateral discussions in the TSO+NRA format are in progress “aiming the possibility to revise the minimum gas quality requirements set out in the Interconnection Agreement between Transgaz (RO) and FGSZ (HU)”.

7.3 PROVIDING INFORMATION ON SHORT-TERM GAS QUALITY VARIATION (ARTICLE 17)

Article 17 Providing information on short-term gas quality variation			
Short description	Implemented % of TSOs	In progress % of TSOs	Not applicable % of TSOs
17.3.a Has the list of parties entitled to receive indicative gas quality information been defined?	85 %	0 %	15 %
17.3.b Has a process of cooperation been started to assess what information might be provided to the relevant parties?	85 %	0 %	15 %
17.3.b What information has been regarded relevant?			
WI	48 %		
GCV	65 %		
Full composition	43 %		
Other *	8 %		
17.3.b What is the frequency of providing information?			
15 min	3 %		
Hourly	24 %		
Daily	17 %		
Continuous	33 %		
Ad hoc	20 %		
Yearly	3 %		
17.3.b How long is the lead time?			
immediate	38 %		
minutes	3 %		
1–2 hours	3 %		
hours	14 %		
days	7 %		
asap	35 %		
17.3.b What is the method of communication?			
Email	6 %		
B2B protocols	29 %		
Mail	3 %		
Phone	9 %		
Website	53 %		

* temperature, pressure, water dew point, sulphur, ethyl mercaptan, etc.

For Article 17 INT NC “Information provision on short-term gas quality variation” as applies to the relevant entitled parties, 85 % of TSOs reported compliance with the requirement to define a list of parties entitled to receive indicative gas quality information. 15 % “No” answers were supplied with clarifying comments explaining that these TSOs do not have any party that falls under the eligibility criteria according to paragraph 17.2. Therefore, they are not obliged to define and maintain a list of parties according to paragraph 17.3. (a).

The parameters the TSOs provide to the relevant parties are mainly GCV, WI and full gas composition. 48 % of TSOs reported providing WI to the relevant parties, 65 % of TSOs share GCV, and 43 % of TSOs provide information about the full composition of gas. Additionally, some TSOs also provide information on other parameters in special cases. The other parameters may include net calorific value (NCV), pressure, temperature, methane, water dewpoint,

hydrocarbon dewpoint, oxygen, hydrogen sulphide, total sulphur, relative density, mercaptans, ethyl mercaptan, Pe number, etc.

The most widespread data communication method is publishing it on the TSO website, 53 %; second frequently applied method are the B2B protocols, 29 %. The frequency of information updates that TSOs maintain to inform the identified parties varies significantly from real-time (continuous) to yearly, with many TSOs agreeing with relevant parties to provide information only when the parameters of interest exceed a predefined threshold. There still remains a practice of providing gas quality data to final customers upon their request. Methods of communication are linked to the frequency (e.g., industrial or B2B protocols for continuous data provision vs. phone for emergency communication). The lead time varies between immediate (e.g., B2B communication) and several days.

7.4 MANAGING CROSS-BORDER TRADE RESTRICTIONS DUE TO DIFFERENCES IN ODOURISATION PRACTICES (ARTICLE 19)

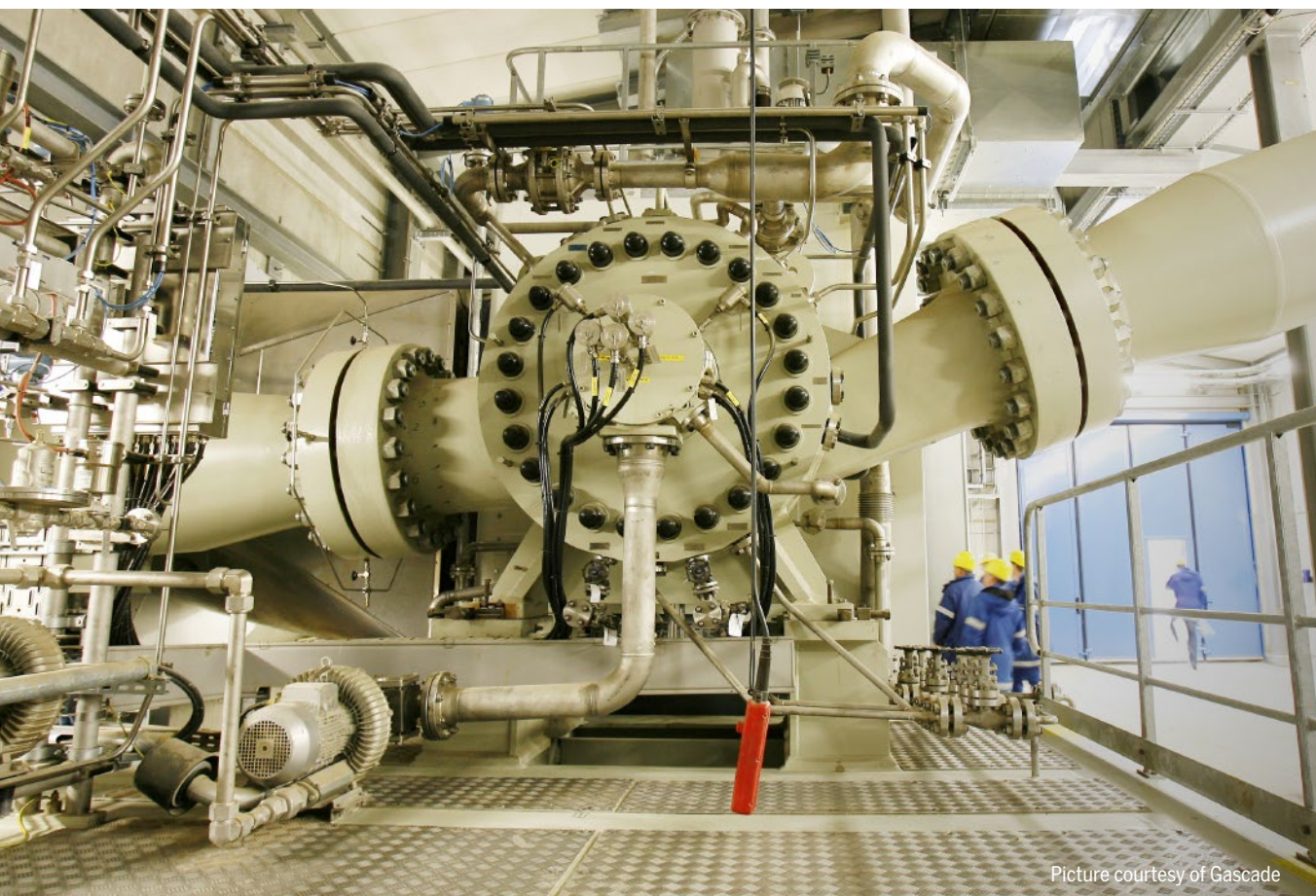
Article 19

Managing cross-border trade restrictions due to differences in odourisation practices

Short description	Implemented % of IPs	In progress % of IPs	Not applicable % of IPs
Is there any cross-border trade restriction due to differences in odourisation practices that cannot be avoided by the concerned TSOs and that has been recognised by NRAs?	89 %		11 %

No TSOs have reported any restrictions linked to odourisation practices. For 11 % of IPs TSOs considered the requirement “Not applicable” as they are not adjacent to any odorised system.

In case of unforeseen situations, TSOs stated that “the IA refers directly to the arrangements foreseen in INT NC (Chapter IV, Article 19) in order to deal with any cross-border trade restriction that could happen.”



Picture courtesy of Gascade

8 DATA EXCHANGE

8.1 DATA EXCHANGE SYSTEM SECURITY AND AVAILABILITY (ARTICLE 22)

Article 22 Data exchange system security and availability			
Short description	Implemented number of TSOs	In progress number of TSOs	Not applicable number of TSOs
Are the data exchange system security and availability requirements met?	40*	0	0

* Data input from 2017 is included in the report if an update in 2019 was not received.

All TSOs reported that the data exchange system security and availability requirements as stated in Article 22 INT NC are met.

8.2 IMPLEMENTATION OF THE COMMON DATA EXCHANGE SOLUTIONS (ARTICLES 23.1 AND 24)

Article 23.1 & 24 Data exchange system security and availability			
Short description	Implemented number of TSOs	In progress number of TSOs	Not applicable number of TSOs
Did you implement the common data exchange solution as defined in the Common Data Exchange Solution Table ?	37	3	0

The common data exchange solution is specified in the ENTSOG Common Data Exchange Solution Table. The table includes a mandatory solution and an optional one, which vary depending on the data exchange requirements:

- ▲ For Nominations and Matching, the common solution is document-based data exchange, and the optional one is interactive data exchange.
- ▲ For the Capacity trading process, the common solution is interactive (except for communication of surrender capacity sold, document-based), and the optional one is document-based data exchange (or interactive for surrendered capacity). Most of the interactions with the network users are nevertheless to be carried out by the Auction Offices.

Following requirements of Articles 23(1) and 24 INT NC "Development process for common network operation tools", 37 TSOs have implemented the common data exchange solution as defined in ENTSOG's Common Data Exchange Solution Table. The remaining TSOs reported the implementation work is in progress with temporary use of the optional solutions approved by NRAs. 2 TSOs have only implemented the optional solution (interactive) but not the mandatory one (document-based) with NRA approval. One TSO has implemented interactive as well as the integrated solution, but not the mandatory one.

8.3 CONTINUED APPLICATION OF EXISTING SOLUTIONS (ARTICLE 23.2)

Article 23.2 Other DE solutions than Article 21			
Short description	Implemented number of TSOs	In progress number of TSOs	Not applicable number of TSOs
Do you use other data exchange solutions than defined in Article 21 for data exchange requirements foreseen by point 2.2 of Annex I to Regulation (EC) No 715/2009, NC CAM/CMP, NC BAL, NC, REMIT and NC INT.	28	12	0

28 TSOs indicated that, besides the document based data exchange solution (AS4, EDIG@s xml), they use other data exchange solutions additionally and in agreement with their NRAs as envisaged in Article 23 (2) and defined in Article 21 for data exchange requirements envisaged in point 2.2 of Annex I to Regulation (EC) No 715/2009, CAM/ CMP NC, BAL NC, REMIT and INT NC.

“No” answers were supplied with TSOs’ comments on the situation caused by “[a] minority of network users that cannot afford the IT developments required for automated [data] exchange...The decision has been consulted with the regulator, as well as with a broad representation of the market.”

Picture courtesy of ONTRAS



9 ANNEX 1: DETAILED ASSESSMENT OF THE IAs

As a complementary part of the Implementation Monitoring Report 2019, a list of Interconnection Points had been selected by ACER and agreed with ENTSOG for documentation of IAs' compliance with INT NC. The detailed assessment includes 16 IPs.

To collect a new progress update on the implementation of INT NC by TSOs, ENTSOG used the questionnaire from 2017. This approach facilitated the data review required from TSOs as well as ENTSOG's data analysis. During the project, TSOs provided detailed evidence of their compliance with INT NC and clarifying comments to ENTSOG's questions that were designed to gather the level of detail requested by ACER. The general conclusions from the data analysis described in the main body of this report are fully relevant to the 16 IPs in the Annex.

For a better overview of the IPs' status of compliance with INT NC's Articles and paragraphs, a table of TSO answers is presented in colour. The evidence data is aggregated in two following tables – Part 1 and Part 2 – with 8 IPs in each. To make the information more compact and coherent, abbreviations and words in English were applied to replace some recurring phrases in TSOs' answers and words from IAs' written in other European languages (see the legend for clarification).

The evidence gathered confirms significant results achieved by TSOs. With only few minor procedures that are still in progress, all analysed IPs are operated in accordance with INT NC.

List of IPs for evidence analysis of IAs' compliance with INT NC

Annex 1	Countries	Interconnection Points (IP)
Part 1	SK–AT	Baumgarten
	AT–HU	Mosonmagyaróvár (AT>HU)
	AT–SI	Murfeld (AT)/Ceršak (SI)
	DE–AT	Oberkappel
	DE–AT	Überackern Abg (AT)
	DE–AT	Überackern Sudal (AT)/Burghausen (DE) (2)
	DE–CZ	Brandov (CZ)/Stegal (DE)
	DE–CZ	Opal (DE)/Brandov Opal (CZ)
Part 2	DE–CZ	Hora Svaté Kateřiny (CZ)/Deutschneudorf (Sayda) (DE)
	DE–CZ	Olbernhau (DE)/Hora Svaté Kateřiny (CZ)
	PL–CZ	CIESZYN (PL)/ČESKÝ TĚŠÍN (CZ)
	PL–DE	Mallnow
	PL–DE	GCP Gaz-system/Ontras
	SK–HU	Balassagyarmat (HU)/Velké Zlívce (SK)
	CZ–SK	Lanžhot
	DE–CZ	Waidhaus

Legend

Abbreviations/ words applied	Original words/phrases
IA	Interconnection Point Agreement
OM	Operating Manual
OBA	Operational Balancing Account
Agr.	Agreement
Amend.	Amendment
Exh.	Exhibit
IA	Netzkopplungsvertrag (NKV) (DE)
OM	Betriebshandbuch (DE)
Appendix	Anhang (DE)
Chapter	Kapitel (DE)

Answers	Description
Yes	Yes
PR	In progress
Yes, PR	Yes, in progress (adjacent TSOs reported slightly different levels of progress in implementation of some requirements)
No	No
NA	Not applicable
FCEO	Flow Control Equipment Operator

9.1 OVERVIEW OF THE TSOs' ANSWERS

IP NAME/LOCATION	Balassa-gyarmat (HU)/Velké Zlívce (SK)	Baumgarten	Brandov (CZ)/Stegal (DE)	Cieszyn (PL)/Český Těšín (CZ)	GCP GAZ-SYSTEM/ONTRAS	Hora Svaté Kateřiny (CZ)/Deutschneudorf (Sayda) (DE)	Lanzhot	Mallnow	Moson-magyaróvár	Murfeld (AT)/Ceršak (SI)	Oberkappel	Olbernhau (DE)/Hora Svaté Kateřiny (CZ)	Opal (DE)/Brandov Opal (CZ)	Überackern ABG (AT)/Burghausen (DE) (1)	Überackern SUDAL (AT)/Burghausen (DE) (2)	Waidhaus
TSO	eustream, FGSZ	Gas Connect Austria, eustream, TAG	GASCADE, NET4GAS	GAZ-SYSTEM, NET4GAS	GAZ-SYSTEM, ONTRAS	NET4GAS, ONTRAS	NET4GAS, eustream	GASCADE, GAZ-SYSTEM	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, Open Grid Europe, GRTgaz DE	GASCADE, NET4GAS	NET4GAS, OPAL	Gas Connect Austria, Open Grid Europe, bayernets	Gas Connect Austria, bayernets	GRTgaz DE, NET4GAS, Open Grid Europe
Country	SK-HU	AT-SK	DE-CZ	PL-CZ	PL-DE	CZ-DE	CZ-SK	DE-PL	AT-HU	AT-SI	AT	DE-CZ	CZ-DE	AT-DE	AT-DE	DE-CZ
Question	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer
3 Is there a signed IA in place?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Were the IA mandatory terms amended or replaced?	Yes	Yes	Yes	Yes	NA	Yes	Yes	NA	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes
3 Do provisions of IA cover the terms defined in articles 6–12 NC INT?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.1 Have you identified information contained in IA that directly affects NUs and informed them?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.2 Have you invited network users to comment on changes in IA?	Yes	Yes	Yes	NA	NA	Yes	Yes	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.1.a Rules to facilitate a controllable, accurate, predictable and efficient gas flow.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.1.b Rules for steering the gas flow across the interconnection point.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.1.c Designation of TSO responsible for steering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.2. The quantity and direction of the gas flow is decided on an hourly basis by the adjacent TSOs.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.3.a Matching rule	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.3.b Allocation rule	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.3.c Flow control arrangements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.3.d Gas Quality including any arrangement pursuant to Article 15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6.3.d Odourisation including any arrangement pursuant to Article 19	NA	Yes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6.4.a Safety legislation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
6.4.b Emergency plans	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
6.4.b Preventive action plans	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
6.4.c Exceptional events	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.1.a details of the measurement standards applicable established?	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.1.b Designation of the TSO responsible for Installation, Operation & Maintenance?	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.a Description of the station and its equipment.	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.b Parameters and details: units, range, uncertainty and frequency of measurement	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.c Calculations procedures	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
7.3.d Maximum permissible error in energy	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.e Data validation	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.f erification and adjustment	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.g Data provision content and frequency	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.3.h List of signal and alarms	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA
7.3.i Corrections to measurements	Yes	Yes, PR	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes
7.3.j Equipment failure management	Yes	Yes, PR	NA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	NA	Yes	Yes	Yes	Yes
7.3.k Rules for facility access, additional verification, modification and attendance during calibration.	Yes	Yes, PR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

IP NAME/LOCATION	Balassa-gyarmat (HU)/Velké Zlievce (SK)	Baumgarten	Brandov (CZ)/Stegal (DE)	Cieszyn (PL)/Český Těšín (CZ)	GCP GAZ-SYSTEM/ONTRAS	Hora Svaté Kateřiny (CZ)/Deutschneudorf (Sayda) (DE)	Lanžhot	Mallnow	Moson-magyaróvár	Murfeld (AT)/Ceršak (SI)	Oberkappel	Olbernhau (DE)/Hora Svaté Kateřiny (CZ)	Opal (DE)/Brandov Opal (CZ)	Überackern ABG (AT)/Burghausen (DE) (1)	Überackern SUDAL (AT)/Burghausen (DE) (2)	Waidhaus
TSO	eustream, FGSZ	Gas Connect Austria, eustream, TAG	GASCADE, NET4GAS	GAZ-SYSTEM, NET4GAS	GAZ-SYSTEM, ONTRAS	NET4GAS, ONTRAS	NET4GAS, eustream	GASCADE, GAZ-SYSTEM	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, Open Grid Europe, GRTgaz DE	GASCADE, NET4GAS	NET4GAS, OPAL	Gas Connect Austria, Open Grid Europe, bayernets	Gas Connect Austria, bayernets	GRTgaz DE, NET4GAS, Open Grid Europe
Country	SK–HU	AT–SK	DE–CZ	PL–CZ	PL–DE	CZ–DE	CZ–SK	DE–PL	AT–HU	AT–SI	AT	DE–CZ	CZ–DE	AT–DE	AT–DE	DE–CZ
Question	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer	Answer
8.1.a Have rules detailing the matching process been established?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8.1.b Have rules detailing communication and processing of data been established?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8.2; 8.5.a What is matching rule in place?	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule	Lesser rule
Description of the “other” rule	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8.2.b In case “Other Rule” have been network users invited to comment on it?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8.2.c; 8.5.b Which is the TSO responsible for the matching process?	FCEO	FCEO	FCEO	FCEO	FCEO	FCEO	FCEO	FCEO	Other	Other	Other	FCEO	FCEO	FCEO	FCEO	FCEO
8.2.d Has a time schedule taking no longer than two hours been defined?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8.4 Are data exchange use and the harmonised information specified?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9.2 What is the allocation rule in place?	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA	OBA
9.2 If the rule is OBA, is it recalculated by the TSO in control of the measurement equipment?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9.3.a Where the OBA applies, are the allocations equal to the confirmed quantities?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9.3.b Is the OBA maintained as close to 0 as possible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9.4 Do the OBA limits consider specific characteristics of each IP?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9.5 If the rule is not OBA, what is it?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10 In case of “exceptional event” is there a procedure to inform adjacent TSOs and affected network users?	Yes	Yes	Yes	Yes	Yes	IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11.1.a Does the dispute settlement mechanism specify the applicable law?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11.1.b Does the dispute settlement mechanism specify the court of jurisdiction?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12 Have you established an amendment process?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13 Is the set of units defined used for every data exchange and publication?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14 Has an additional set of units been defined?	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
15 Is there any cross-border trade restriction due to gas quality?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
16 Are WI and GCV published on your website for each IP?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19 Is there any cross-border trade restriction due to differences in odourisation practices?	NA	No	NA	NA	No	No	No	NA	No	No	NA	NA	NA	No	No	No

9.2 EVIDENCE OF COMPLIANCE – PART 1

IP NAME/LOCATION	Baumgarten	Mosonmagyaróvár	Murfeld (AT)/ Ceršak (SI)	Oberkappel	Überackern ABG (AT)/ Burghausen (DE) (1)	Überackern SUDAL (AT)/ Burghausen (DE) (2)	Brandov (CZ)/ Stegal (DE)	Opal (DE)/ Brandov Opal (CZ)
EIC or identifier for IP	21Z0000000000600, 21Z000000000163R, 21Z000000000164P	21Z000000000003C	21Z0000000000058	21Z000000000001G	21Z000000000002E	21Z0000000001240	21Z000000000091Q	21Z000000000242V
Adjacent TSOs	Gas Connect Austria, Eustream, TAG	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, GRTGaz DE	Gas Connect Austria, Bayernets, Open Grid Europe	Gas Connect Austria, Bayernets	NET4GAS, GASCADE Gastransport	NET4GAS, OPAL Gastransport
EIC or identifier for TSO	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X000000001304L	21X000000001304L 21X00000000011845
Country	AT-SK	AT-HU	AT-SI	AT-DE	AT-DE	AT-DE	CZ-DE	CZ-DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
3 Is there a signed IA in place?	10/02/2009	IA 01/07/2006, OM 01/10/2007	21/12/2007	31/03/2011	16/03/2015	26/02/2016	GCA 12.05.2009	GCA 30.09.2010
When were the IA mandatory terms amended or replaced the last time?	Amend. 29/10/2009	14/01/2014, 2nd Addendum to the IA	2nd Amend. 29/04/2016	Amend. 24/05/2011, Amend.2 30/09/2015	Amend. 27/04/2016		Amend. 3 (15.4.2019) + VIP Agr. for VIP Brandov/ GASPOOL (15.3.2019)	Amend. 6 (24.6.2019) + VIP Agr. for VIP Brandov/ GASPOOL (15.3.2019)
3 Do provisions of IA cover at least the terms and conditions defined in Articles 6–12 NC INT?	Yes	Yes	Yes	Yes	Yes	Yes	GCA Art. 9, 14, 16, 18 Annex 1, 2, Amend. 3, Art. 2–6 + Annex 13 + VIP Agr., Art. 3, Annex I	GCA Art. 8, 9, 15, 17, 18 Annex 1, 2, Amend. 6, Art. 1–3, 5–8, Annex 13 + VIP Agr., Art. 3, Annex I
4.1 Have you identified information contained in IA that directly affects network users (NU) and informed them?	Cons. Art 21 Reg. EU 2015/703 April 2016; Link	Cons. Art 21 Reg. EU 2015/703 April 2016	Cons. Art 21 Reg. EU 2015/703 April 2016	Cons. Art 21 Reg. EU 2015/703 April 2016	Cons. Art 21 Reg. EU 2015/703 April 2016	Cons. Art 21 Reg. EU 2015/703 April 2016	Amend. 3, Annex 13 Dispatching Agr. – consulted with the market: Link 1 , Link 2	Amend. 6, Annex 13 Dispatching Agr. – consulted with the market: Link 1 , Link 2
4.2 Since application date of INT NC and before concluding or amending an IA, have you invited network users to comment on the proposed text for matching, allocation and communication of exceptional events?	Link	Link	Link	Link	Link	Link	All the above-mentioned aspects were consulted with the market in the consultation of Amend. 3 and of VIP Agr.: Link 1 , Link 2	All the above-mentioned aspects were consulted with the market in the consultation of Amend. 6 and of VIP Agr.: Link
6.1.a Rules to facilitate a controllable, accurate, predictable and efficient gas flow.	New Annex 5: Matching and Allocation Process to the IA; IA, § 4.4	IA, Art. 4.1, 5.4, page 10; 2nd Addendum, Art. 2	2nd Amend., Art. 2, 3 IA, § 5.6	IA, § 3.1–3.2, 3.3, 4.5, 4.7	Art. 4.3, IA, page 7–12	Art. 4.1, 4.2, 4.3, IA, page 7–12	Amend. 2, Amend. 3 Art. 2–6, Annex 13, 14 and Art. 3 of VIP Agr., Annex I	GCA Annex 1, Art. 1, 2, 3, Amend. 6, Art. 1–3, 5–8, Annex 13 + VIP Agr., Art. 3, Annex I
6.1.b Rules for steering the gas flow across the interconnection point and for minimising the deviations from the flow pursuant to the matching process.	Annex 6: OBA to the IA; IA § 4.4	IA, Art. 4.5, 5.4, 5.6 page 10	IA, § 4.5, 5.6; 2nd Amend., Art. 3	IA, § 3.3, 4.5, 4.7	Art. 4.1, 4.2, 4.3; IA, page 7–11; Amend., § 4.2, page 3	Art. 4.1, 4.2, 4.3 IA, page 7–12	Art. 4 of Annex 1, Amend. 3, Art. 3–6, VIP Agr., Art. 3	Annex 1, Art. 1, 2, 3, Amend. 6, Art. 5–8 + VIP Agr., Art. 3
6.1.c Designation of TSO responsible for steering	IA, § 4.4; OMs, Preamble	IA, Art. 5.4, page 10	2nd Amend., Art. 3 OM, Preamble	IA, § 4.5	Art. 4.3, IA, page 10–11; Appendix 1 – A, page 23; 3. Operative Betriebs- verantwortung	Art. 4.3, IA, page 11, 12	Art. 4 of Annex 1, Amend. 3, Art. 3–6, VIP Agr., Art. 3	GCA Annex 1, Amend. 6, Art. 5–8 + VIP Agr., Art. 3
6.2 The quantity and direction of the gas flow is decided on an hourly basis by the adjacent TSOs	New Annex 5 to the IA	2nd Addendum, Art. 2	2nd Amend., Art. 2, § 4.1	IA, § 3.1, 3.2; Amend. 2, Art. 3	Art. 4.2, IA, page 9 f	Art. 4.2, IA, page 9–11;	Amend. 3 Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	GCA Annex 1, Amend. 6, Art. 1–3 + VIP Agr., Art. 3.1 and Annex I
6.3.a Matching rule	New Annex 5 to the IA	2nd addendum to IA, Art. 2, page 2–3;	2nd Amend., Art. 2, § 4.2	IA, § 3.2, page 6–9; Amend. 2, Art. 3	Art. 4.2, IA, page 9	Art. 4.2, IA, page 9	Amend. 3 Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Amend. 6, Art. 1–3 + VIP Agr., Art. 3.1 and Annex I
6.3.b Allocation rule	New Annex 5 to the IA	IA, Art. 4.4 and Art. 4.6, page 7, 9	IA, § 4.4, 4.6	IA, § 3.4	Art. 4.6, IA, page 13	Art. 4.6, IA, page 14	Art. 5 of Annex 1, Amend. 3, Art. 2–6, VIP Agr., Art. 3	GCA Annex 1, Amend. 6, Art. 5–8 + VIP Agr., Art. 3
6.3.c Flow control arrangements	IA, § 4.4, 4.6; Technical IA, Art. 6	IA, Art. 5.4, 5.6, page 10	IA, § 5.6; 2nd Amend., Art. 3	IA, § 4.5, 4.7	Art. 4.3, IA, page 10; Appendix 1 – A, page 23; Appendix 5 – 2.5.2.7	Art. 4.3, IA, page 11	Art. 4 of Annex 1, Amend. 3, Art. 2–6, VIP Agr., Art. 3	GCA Annex 1, Amend. 6, Art. 5–8 + VIP Agr., Art. 3
6.3.d Gas Quality including any arrangement pursuant to Art. 15	IA, § 4.3, 4.6; Technical IA	IA, Art. 5.3, 5.6, page 10	IA, § 5.3, 5.6	IA, § 4.4, 4.7	Art. 5.4, IA, page 15 Appendix 3A, page 27–28	Art. 5.4, IA, page 16; Appendix 3A, page 28–29	GCA Art. 7, Annex 12	GCA Art. 6, Annex 10
6.3.d Odourisation including any arrangement pursuant to Art. 19	Yes, the contract contains provisions how to deal with gas quality differences.	Not applicable	Not applicable	Not applicable	No odourisation	No odourisation	Not applicable	Not applicable

IP NAME/LOCATION	Baumgarten	Mosonmagyaróvár	Murfeld (AT)/ Ceršak (SI)	Oberkappel	Überackern ABG (AT)/ Burghausen (DE) (1)	Überackern SUDAL (AT)/ Burghausen (DE) (2)	Brandov (CZ)/ Stegal (DE)	Opal (DE)/ Brandov Opal (CZ)
EIC or identifier for IP	21Z0000000000600, 21Z000000000163R, 21Z000000000164P	21Z000000000003C	21Z0000000000058	21Z000000000001G	21Z000000000002E	21Z0000000001240	21Z000000000091Q	21Z000000000242V
Adjacent TSOs	Gas Connect Austria, Eustream, TAG	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, GRTGaz DE	Gas Connect Austria, Bayernets, Open Grid Europe	Gas Connect Austria, Bayernets	NET4GAS, GASCADE Gastransport	NET4GAS, OPAL Gastransport
EIC or identifier for TSO	21X-AT-B-AOAOA-K	21X-AT-B-AOAOA-K	21X-AT-B-AOAOA-K	21X-AT-B-AOAOA-K	21X-AT-B-AOAOA-K	21X-AT-B-AOAOA-K	21X000000001304L	21X000000001304L 21X0000000011845
Country	AT–SK	AT–HU	AT–SI	AT–DE	AT–DE	AT–DE	CZ–DE	CZ–DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
6.4.a Safety legislation	Yes, safety laws, Eichgesetz ("Measurement law") under Austrian Gas Act	Yes, safety laws, Eichgesetz ("Measurement law") under Austrian Gas Act	Yes, safety laws, Eichgesetz ("Measurement law") under Austrian Gas Act	Yes, safety laws, Eichgesetz ("Measurement law") under Austrian Gas Act	Art. 4.4, IA, page 11; Appendix 3 A, page 27	Yes, safety laws, Eichgesetz ("Measurement law") under Austrian Gas Act	Art. 9, Amend. 3 + Annex 13 Dispatching Agr.	Art. 4, Amend. 6 + Annex 13 Dispatching Agr.
6.4.b Emergency plans	IA, § 4.6	IA, Art. 5.6, page 11	IA, § 5.6	IA, § 4.7, page 13	Art. 4.4, IA, page 11 f	Art. 4.4, IA, page 12 f	Art. 9, Amend. 3 + Annex 13 Dispatching Agr.	Art. 4, Amend. 6 + Annex 13 Dispatching Agr.
6.4.b Preventive action plans	IA, § 4.1	IA, Art. 5.1, page 9	IA, § 5.1	IA, § 4.1	Art. 4.4, IA, page 11 f	Art. 4.4, IA, page 12 f; Appendix 5.B, page 32 f	Art. 9, Amend. 3 + Annex 13 Dispatching Agr.	Art. 4, Amend. 6 + Annex 13 Dispatching Agr.
6.4.c Exceptional events	IA, § 4.6	IA, Art. 5.6, page 11	IA, § 5.6	IA, § 4.7, page 14	Art. 4.4, IA, page 11 f	Art. 4.4, IA, page 12 f	Art. 9, Amend. 3 + Annex 13 Dispatching Agr.	Art. 4, Amend. 6 + Annex 13 Dispatching Agr.
7.1.a Details of the measurement standards applicable established?	IA, § 4.2; Technical IA; OMs, Part II, Part III	IA, Art. 5.2, page 9; Annex 7 – OM, Part II, Part III	IA, § 5.2; OM, Part II, Part III	IA, § 4.2; OM, Part II; Part III	Art. 5.2, page 14, Art. 5.3, page 15, Appendix 2A, page 25, Appendix 5, Chapter A, 1.–5, pages 7–21, IA	Art. 5.2, page 15, Art. 5.3, page 15, 16, Appendix 2A, page 26, Chapter A, 1.–5. Appendix 5 to IA; IA, pages 7–22	Annex 2	GCA Annex 1
7.1.b Designation of the TSO responsible for Installation, Operation & Maintenance?	IA, § 4.1, 4.2; Technical IA; OMs	IA, Art. 5.1, 5.2, page 9; Annex 7 – OM	IA, § 5.1, 5.2; OM	IA, § 4.1, 4.2	Art. 5.2, page 14, Appendix 1.A, page 23, IA Appendix 5 6.3–6.5, page 5, 23 f	Art. 5.2, page 15; Appendix 1, IA, page 24 f Appendix 5 6.3–6.5, page 5, 23 f	Art.9 of GCA, Art. 3.4 of VIP Agr.	GCA Art.9, Art. 3.4 of VIP Agr.
7.3.a Description of the station and its equipment.	IA § 4.2; Technical IA, Art. 2; OMs, Preamble, Part II	IA, Art. 5.2, page 9; OM, Preamble, Part II, Part III	IA § 5.2; OM, Preamble, Part II, Part III	OM, Preamble, Part III	Appendix 1.A, page 23, Appendix 5 Chapter A, 1.+2., pages 7–14, IA	Appendix 1, page 24; Appendix 5 Chapter A, 1.+2. to IA; IA, pages 7–14	Addendum 1, Annex 2	GCA Annex 2
7.3.b Parameters and details: units, range, uncertainty and frequency of measurement.	IA § 4.2; Technical IA, Art. 2; OMs, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	Art. 5.2, page 14, Art. 5.3, page 15, Appendix 2A, page 25, Appendix 5 Chapter A, 3.–5., page 14–21, IA	Art. 5.2, page 15 f, Art. 5.3, page 16, Appendix 2A, page 26, Chapter A, 3.–5. Appendix 5 to IA; IA, pages 14–22	Addendum1, Annexes 2	GCA Annex 2
7.3.c Calculations procedures.	IA § 4.2; Technical IA, Art. 2; OMs, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	OM, Part II	Appendix 5, Chapter A., 4., IA, pages 17–21	Chapter A, 4. Appendix 5 to IA; IA, pages 18–22	Addendum1, Annex 4	GCA Annex 2
7.3.d Maximum permissible error in energy.	IA § 4.2; Technical IA, Art. 2; OMs, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	Appendix 5, Chapter B A, 4., IA, pages 32–43	Chapter B, Appendix 5 to IA, pages 32–46	Addendum 1, Annex 5	GCA Annex 2
7.3.e Data validation	IA § 4.2; Technical IA, Art. 2; OMs, Part II, Part III	IA, Art. 5.2, page 9; Annex 7; OM, Art. 3.5, page 18	OM, Part II, Part III	OM, Part II, Part III	Appendix 2A, page 25, Appendix 2B, pages 25, 26; IA	Appendix 2A and Appendix 2B, IA, pages 26–27	Addendum 1, Annex 5	GCA Annex 2
7.3.f Verification and adjustment	IA § 4.2; Technical IA, Art. 2; OMs, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	OM, Part II, Part III	Appendix 5, Chapter A, 3.–4. (see 4.12), IA, pages 14–21	Chapter A, 3.–4. Appendix 5 to IA, pages 14–22	GCA, Art.9	GCA, Art.9
7.3.g Data provision content and frequency	IA, § 4.7; OMs, Part IV	IA, § 5.7; OM, Part V, page 21	IA, § 5.7; OM, Part IV	IA, § 4.8; OM Part IV	Art. 4.1, page 7 f, Appendix 2A + 2B, IA, pages 7, 25, 26	Art. 4.1, page 8 f; Appendix 2A + 2B, IA, pages 26–27	Amend. 3, Annex 14	GCA Annex 7
7.3.h List of signal and alarms	IA § 4.2; Technical IA, Art. 2; OMs, OM-Annex E	IA, Annex 7; OM, Annex 25	OM, Annex 4	OM, Annex D	Appendix 5, Chapter A, 6, IA, pages 26–28	Chapter A, 6, Appendix 5 to IA, pages 27–29	Amend. 3, Annex 14	GCA Annex 7

IP NAME/LOCATION	Baumgarten	Mosonmagyaróvár	Murfeld (AT)/ Ceršak (SI)	Oberkappel	Überackern ABG (AT)/ Burghausen (DE) (1)	Überackern SUDAL (AT)/ Burghausen (DE) (2)	Brandov (CZ)/ Stegal (DE)	Opal (DE)/ Brandov Opal (CZ)
EIC or identifier for IP	21Z0000000000600, 21Z000000000163R, 21Z000000000164P	21Z000000000003C	21Z0000000000058	21Z000000000001G	21Z000000000002E	21Z0000000001240	21Z0000000000091Q	21Z0000000000242V
Adjacent TSOs	Gas Connect Austria, Eustream, TAG	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, GRTGaz DE	Gas Connect Austria, Bayernets, Open Grid Europe	Gas Connect Austria, Bayernets	NET4GAS, GASCADE Gastransport	NET4GAS, OPAL Gastransport
EIC or identifier for TSO	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X000000001304L	21X000000001304L 21X0000000011845
Country	AT–SK	AT–HU	AT–SI	AT–DE	AT–DE	AT–DE	CZ–DE	CZ–DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
7.3.i Corrections to measurements	IA, § 3.5	IA, § 4.6; Annex 7; OM, Part II, Part III	IA, § 4.6	IA, § 4.3, page 12	Art. 5.3, IA, page 16; Appendix 5, Chapter B, IA, pages 31 f	Art. 5.3, IA, page 16; Chapter B, Appendix 5 to IA, pages 32 f	See explanation to the next box 7.3.j	See evidence to 7.3.j
7.3.j Equipment failure management	IA, § 4.1, Page 16; OMs, Part II, Part III, OM-Annex B	IA, § 5.1; Annex 7; OM, Part II, Part III	IA § 5.1; OM, Part II, Part III	IA, § 4.1; OM, Part II, Part III	Art. 5.3, page 15, Appendix 5, Chapter B, page 31–43, IA	Art. 5.3, page 16; Chapter B, Appendix 5 to IA, pages 32 f	In case of failure, the respective equipment is taken out of operation for repair.	In case of failure, the respective equipment is taken out of operation for repair.
7.3.k Rules for facility access, additional verification, modification and attendance during calibration.	IA, § 4.5; OMs, Part II, Part III, OM-Annex A	IA, Art. 5.5, page 10; OM, Part II, Part III	IA, § 5.5; OM, Part II, Part III	IA, § 4.6; OM, Part II, Part III	Appendix 5, Chapter B, IA, pages 31–43	Chapter B, Appendix 5 to IA, pages 32–46	GCA Art.9, Annex 2	GCA Art.9, Annex 2
8.1.a Have rules detailing the matching process been established, taking into account the daily-hourly nomination arrangements where relevant?	New Annex 5 to the IA	2nd Addendum, Art. 2, page 2	2nd Amend., Art. 2, § 4.1	IA, § 3.2, page 6–9; Amend. 2, Art. 3	Art. 4.2, IA page 9–11; Amend., § 4.2, page 2–4	Art. 4.2, IA, page 9–1	Amend. 3 Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Amend. 6, Art. 1-3; VIP Agr., Art. 3.1 and Annex I
8.1.b Have rules detailing communication and processing of data been established?	IA, § 4.7; Technical IA; OMs, Part IV	IA, Art. 5.7, page 11; OM, Part V, page 21	IA, § 5.7; OM, Part IV	IA, § 4.8, page 14; Amend. 2, Art. 3	Art. 4.1, 4.2, IA, page 7, 8; Amend., § 4.1, page 2	Art. 4.1, Art. 4.2, IA, page 7–11	GCA, Art.8, Amend. 3 Art. 6–9 + Annex 13 and 14	GCA, Art.7, Amend. 6, Annex 13
8.2; 8.5.a What is matching rule in place?	New Annex 5 to the IA	IA, Art. 4.2.c, Art. 4.3, page 7; 2nd Addendum, Art. 2, § 4.3, page 3	IA, § 4.2, 4.3; 2nd Amend., Art. 2, § 4.1	IA, § 3.2, page 8; Amend. 2, Art. 3, § 3.1.8	Art. 4.2, IA, page 9; 10; Amend., §§ 4.1–4.2, page 2, 3	Art. 4.2, IA, page 9	GCA, Annex 1	GCA, Annex 1
Description of the “other” rule	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
8.2.b In case “Other Rule” than the “Lesser Rule” is applied, have been network users invited to comment on it?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
8.2.c; 8.5.b Which is the TSO responsible for the matching process?	New Annex 5 to the IA	2nd Addendum 2, Art. 2, § 4.2, page 2	2nd Amend., Art. 2, § 4.2	IA, § 3.2	Art. 4.2, IA, page 9	Art. 4.2, IA, page 9	Amend. 3, Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Amend. 6, Art. 1-3 + Art. 3.1 and Annex I of VIP Agr.
8.2.d Has a time schedule taking no longer than two hours been defined?	New Annex 5 to the IA	2nd Addendum, Art. 2	2nd Amend., Art. 2, § 4.1	IA, § 3.2, Amend. 2, Art. 3	Art. 4.2, IA, page 9, 10; Amend., §§ 4.1–4.2, page 2, 3	Art. 4.2, IA, page 9–11	Amend. 3, Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Amend. 6, Art. 1–3 + Art. 3.1 and Annex I of VIP Agr.
8.4 Are data exchange use and the harmonised information specified?	IA, § 4.7; Technical IA; OMs, Part IV	IA, Art. 5.7, page 11, Annex 7, OM, Part V	IA, § 5.7; OM, Part IV	IA, § 4.8, page 14; OM, Part IV, page 32	Art. 4.1, page 7–9; IA Amend., §§ 4.1–4.2, page 2, 3	Art. 4.1, IA, page 7–9	Amend. 3 Art. 2–6, Annex 13 + VIP Agr., Art. 3 and Annex I	Amend. 6 Art. 5-8, Annex 13 + Art. 3 and Annex I of VIP Agr.
9.2 What is the allocation rule in place?	New Annex 5 to the IA	IA, Art. 4.4, page 7, Art.4.5, page 8	IA, § 4.4, 4.5	IA, § 3.4, page 10	Art. 4.5 (“OBA”), IA, page 12, 13	Art. 4.5 (“OBA”), IA, page 13–14	GCA Annex 1, Amend. 3, Art. 2–6, + VIP Agr., Art. 3	GCA, Annex 1, Amend. 6, Art. 5–8 + Art. 3 of VIP Agr.
9.2 If the rule is OBA, is it recalculated by the TSO in control of the measurement equipment?	New Annex 5 to the IA; Annex 6: OBA to the IA;	IA, Art.4.5, page 8	IA, § 4.5	IA, § 4.3	Art. 4.5 (“OBA”), page 13, 14; Art. 5.3, page 15, IA	Art. 4.5 (“OBA”), IA, page 12–13; Art. 5.3, page 16	GCA Annex 1, Amend. 3, Art. 2–6, + VIP Agr., Art. 3	GCA, Annex 1, Amend. 6, Art. 5–8 + Art. 3 of VIP Agr.
9.3.a Where the OBA applies, are the allocations equal to the confirmed quantities?	New Annex 5 to the IA; Annex 6 to the IA;	IA, Art.4.6, page 9	IA, § 4.6	IA, § 3.4	Art. 4.6, IA, page 13	Art. 4.6, IA, page 14 f	GCA Annex 1, Amend. 3, Art. 2–6, + VIP Agr., Art. 3	GCA, Annex 1, Amend. 6, Art. 5–8 + Art. 3 of VIP Agr.
9.3.b Is the OBA maintained as close to 0 as possible?	Annex 6 to the IA	IA, Art. 5.4, page 10	2nd Amend., Art. 3	IA, § 4.5, page 13	Art. 4.3 and 4.5, IA, page 10, 11 and 12, 13	Art. 4.3, Art. 4.5, IA, page 11; page 12, 13, 14	GCA, Annex 1, Amend. 3, Art. 2–6; VIP Agr., Art. 3	GCA, Annex 1, Amend. 6, Art. 5–8; Art. 3 of VIP Agr.
9.4 Do the OBA limits take into account specific characteristics of each IP and/or the interconnected transmission networks, in particular: physical characteristics, linepack capability of each transmission system, total technical capacity, gas flow dyna	Annex 6 to the IA	IA, Art. 4.5, page 8	2nd Amend., Art. 3	IA, § 3.3, page 9, yes	Art. 4.5, OBA (“OBA”), IA, page 12	Art. 4.5, IA, page 13	GCA, Annex 1, Amend. 3, Art. 2–6; VIP Agr., Art. 3	GCA, Annex 1, Amend. 6, Art. 5–8; Art. 3 of VIP Agr.
9.5 If the rule is not OBA, what is it?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

IP NAME/LOCATION	Baumgarten	Mosonmagyaróvár	Murfeld (AT)/ Ceršak (SI)	Oberkappel	Überackern ABG (AT)/ Burghausen (DE) (1)	Überackern SUDAL (AT)/ Burghausen (DE) (2)	Brandov (CZ)/ Stegal (DE)	Opal (DE)/ Brandov Opal (CZ)
EIC or identifier for IP	21Z0000000000600, 21Z000000000163R, 21Z000000000164P	21Z000000000003C	21Z0000000000058	21Z000000000001G	21Z000000000002E	21Z0000000001240	21Z000000000091Q	21Z000000000242V
Adjacent TSOs	Gas Connect Austria, Eustream, TAG	Gas Connect Austria, FGSZ	Gas Connect Austria, Plinovodi	Gas Connect Austria, GRTGaz DE	Gas Connect Austria, Bayernets, Open Grid Europe	Gas Connect Austria, Bayernets	NET4GAS, GASCADE Gastransport	NET4GAS, OPAL Gastransport
EIC or identifier for TSO	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X-AT-B-A0A0A-K	21X000000001304L	21X000000001304L 21X0000000011845
Country	AT–SK	AT–HU	AT–SI	AT–DE	AT–DE	AT–DE	CZ–DE	CZ–DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
10 In case of “exceptional event” is there a procedure to inform adjacent TSOs and potentially affected network users?	IA, § 4.6	IA, Art. 5.6, page 10	IA, § 5.6	IA, § 4.7, page 13–14	Art. 4.1, Art. 4.4, IA, page 8 and 11	Art. 4.1, Art. 4.4, IA, page 7 f, 12 f	Amend. 3, Annex 13 Dispatching Agr.	GCA, Annex 13, Amend. 6
11.1.a Does the dispute settlement mechanism specify the applicable law?	IA, Art. 7	IA, Art. 9, page 12	IA, Art. 8	IA, Art. 7, page 15; Amend., Art. 7, page 4	Art. 10 (§1), IA, page 19	Art. 10.1, IA, page 20	GCA, Art.19	GCA, Art. 17, 18
11.1.b Does the dispute settlement mechanism specify the court of jurisdiction or the terms and conditions of appointment of experts?	IA, Art. 7	IA, Art. 8, page 12	IA, Art. 8	IA, Art. 7, page 15; Amend., Art. 7, page 4	Art. 10 (§2), IA, page 19	Art. 10.2, IA, page 20	GCA, Art. 18	GCA, Art. 17, 18
12 Have you established a transparent and detailed Amend. process?	IA, Art. 9; OMs, Part I, § 1.7	IA, Art. 9, page 12	IA, Art. 11	IA, Art. 9, page 27; OM, § 1.6, page 11	Art. 8, IA, page 18	Art. 8, IA, page 19	GCA, Art.16	GCA, Art. 14
13 Is the set of units and referenced conditions defined used for every data exchange and publication?	IA, § 4.7; Technical IA; OMs, Part IV	IA, Art.5.7, page 11; Annex 7; OM, Part V, Annex 5, page 43–45	IA, Art. 5.7; OM, Part IV	IA, Art. 1, page 5	Art. 1, page 4–6, Art. 4.1, p.2, page 8, and Appendix 3, pages 27–29, IA, Appendix 5 to IA, pages 4–5 und 17–21	Art. 1, page 4–6; Art. 4.1, p.2, page 8 Appendix 3, pages 28–30; Appendix 5 to IA, pages 4–5 und 18–22, IA	GCA, Art. 2, Addendum 1, Annex 2	GCA, Art. 2, Annex 2
14 Has an additional set of units been defined?	IA, § 4.2; Technical IA, Art. 2; OMs, Part III	OM, Part III	OM, Part III	OM, § 3, page 24	OM, Art.4, page 17–21	No	No	No
15 Is there any cross-border trade restriction due to gas quality that cannot be avoided by the standard operations of the TSOs and that has been recognised by NRAs?	No	No	No	No, OM, Part V, page 33	No	No	No	No
16 Are WI and GCV published on your website for each IP that acts as an entry point and once per hour?	ENTSOG Transparency and link on GCA-website to MGM Platform; ENTSOG Transparency and TAG website: Link	ENTSOG Transparency (Link) and link on GCA-website to MGM Platform	ENTSOG Transparency and link on GCA-website to MGM Platform; Plinovodi website: Link	ENTSOG Transparency and link on GCA-website to MGM Platform; Open Grid Europe publishes WI and GCV here: Link 1 , Link 2	ENTSOG Transparency and link on GCA-website to MGM Platform: Open Grid Europe publishes WI and GCV here: Link	ENTSOG Transparency and link on GCA-website to MGM Platform; Bayernets Website: Link	Link 1 , Link 2	Link 1 , Link 2
19 Is there any cross-border trade restriction due to differences in odourisation practices that cannot be avoided by the concerned TSOs and that has been recognised by NRAs?	No cross-border trade restrictions have been identified	Not applicable. The gas is unodorised.	No cross-border trade restrictions have been identified	No cross-border trade restrictions have been identified	No cross-border trade restrictions have been identified	No cross-border trade restrictions have been identified	Gas is unodorised.	Gas is unodorised.

9.3 EVIDENCE OF COMPLIANCE – PART 2

IP NAME/LOCATION	Hora Svaté Kateřiny (CZ)/ Deutschneudorf (Sayda) (DE)	Olbernhau (DE)/ Hora Svaté Kateřiny (CZ)	Cieszyn (PL)/ Český Těšín (CZ)	Mallnow	GCP GAZ-SYSTEM/ ONTRAS	Balassagyarmat (HU)/ Veľké Zlievce (SK)	Lanžhot	Waidhaus
EIC or identifier for IP	21Z0000000000228	21Z0000000000920	21Z000000000239K	21Z000000000056S	21Z000000000456C	21Z000000000358C	21Z000000000061Z	21Z0000000000236, 21Z0000000000162T
TSO	NET4GAS	NET4GAS	GAZ-SYSTEM, NET4GAS	GASCADE Gastransport GmbH, GAZ-SYSTEM (ISO)	GAZ-SYSTEM, ONTRAS	eustream, FGSZ	eustream, NET4GAS	NET4GAS, Open Grid Europe, GRTgaz Deutschland
EIC or identifier for TSO	21X000000001304L	21X000000001304L	21X-PL-A-A0A0A-B	21X-DE-H-A0A0A-L / 21X-PL-A-A0A0A-B	21X-PL-A-A0A0A-B	21X-SK-A-A0A0A-N / 21X-HU-A-A0A0A-8	21X-SK-A-A0A0A-N / 21X000000001304L	21X000000001304L
Country	CZ-DE	CZ-DE	PL-CZ	DE-PL	PL-DE	SK-HU	SK-CZ	CZ-DE-DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
3 Is there a signed IA in place?	IA 01.10.2007	Grid Connection Agr. (GCA) between NET4GAS and GASCADE Gastransport GmbH for the Connection Point Olbernhau II dated 21.12.2005, as amended	IOA 14. 09. 2011	IA 29.04.2016 (including Annexes A, B, C, D)	IA 25.01.2016	IA concluded before INT NC entry into force, not sent to ENTSG, sent on request to NRA Addendum No1 sent to ENTSG and NRA	IA 1.7.2016	IA Waidhaus-Megal signed 01.10.2007; Amend. 3: ENTSG, email 11.4.2017 Amend. 3: BNetzA, upload 25.5.2017; On 4 April 2019 OGE sent VIP Agr. to ENTSG and BNetzA.
When were the IA mandatory terms amended or replaced the last time?	Amend. 3 (signed by N4G 6.12.2019) + VIP Agr. for VIP Brandov/GASPOOL (15.3.2019)	Side Letter 4 (15.4.2019) + VIP Agr. for VIP Brandov/GASPOOL (15.3.2019)	Addendum 2, 23.11.2015	No Amendments to the existing IA have been agreed so far		Addendum 1, 03.10.2017	Amend. 1, 20.12.2019	Amend. 3, 10 April 2017 + VIP Agr. for VIP Waidhaus/ NCG (29.0 3.2019)
3 Do provisions of IA, cover at least the terms and conditions defined in Articles 6–12 NC INT?	IA, Art. 3–6, 8, Annex 1, 4, 5; Amend. 3, Art. 2–8 + Annex 14 + VIP Agr., Art. 3, Annex I	GCA Art. 9, 12, 14, 16, 19, Exh. A, Exh. B, Exh. C, Exh. D, Exh. F, Exh. G, Exh. H, Exh. I, Exh. M, Side Letter 4, Art. 2–7, Exh. P + VIP Agr., Art. 3, Annex I	IOA § 2, 3, 5, 11, 13, Annex I, Amendment 1, 2	Art. 4.4, 4.5, 4.7, 8–10, 12 of IA; Annex A, Annex C	Art. 6, Processing Agr. p. 7; Art. 7, Technical Conditions; Art. 8, Processing Agr. p. 5; Art. 9, Processing Agr., p. 6; Art. 10, Processing Agr. p. 8; Art. 11, IA, p. 11; Art. 12, IA, p. 13	Yes, IA concluded before INT NC entry into force, not sent to ENTSG, sent on request to NRA; Addendum No1 sent to ENTSG and NR	IA sent to ENTSG	Amend. 2 and 3 + VIP Agr., Art. 3
4.1 Have you identified information contained in IA that directly affects network users (NUs) and informed them?	Amend. 3, Annex 14 Dispatching Agr., consulted with the market: Link	Side Letter 4, Exh P Dispatching Agr., consulted with the market: Link	Att. 1 Dispatching Agr., Art. 2, section 2.1, 2.8, 2.11; Shippers informed about the rules in Transmission Network Code: Link 1 , Link 2	Annex A, Processing Agr., Art. 3, 5, 6, 7 Shippers informed about the rules in Transmission Network Code: Link	Dispatching Agr., Art. 2, section 2.1, 2.8, 2.11; Shippers informed about the rules in Transmission Network Code: Link 1 , Link 2	Link	Link	VIP Agr., Art. 4; Net4gas informed network users on their website: Link OGE informed their network users on their website: Link
4.2 Since application date of INT NC and before concluding or amending an IA, have you invited network users to comment on the proposed text for matching, allocation and communication of exceptional events?	All the abovementioned aspects were consulted with the market in the consultation of Amend. 3 and of VIP Agr.: Link	All the abovementioned aspects were consulted with the market in the consultation of Side Letter 4 and of VIP Agr.: Link	Att. 1 Dispatching Agr., Art. 2, section 2.1, 2.8, 2.11; Link	Link 1 , Link 2	Att. 1 Dispatching Agr., Art. 2, section 2.1, 2.8, 2.11; Shippers informed about the rules in Transmission Network Code: Link 1 , Link 2	Link	Link	Amendment was published on website on December 21st, 2016 and network users (NU) could comment until February 24th, 2017 + VIP Agr.: Link OGE published a Market Message and an Art. with Link to the document and a return address for the NUs' replies on their website: Link
6.1.a Rules to facilitate a controllable, accurate, predictable and efficient gas flow.	IA, Art.3.7, Amend. 3, Art. 2–8 + Annex 14 + VIP Agr., Art. 3, Annex I	GCA Art.9, Side Letter III, Exh. A, Exh. B, Side Letter 4, Art. 2–7, Exh. P, Q and Art. 3 of VIP Agr., Annex I	Inter-Operator Agr., Art. 4; Att. 1 Dispatching Agr., p. 2.9.2, 2.9.3	Annex A, Processing Agr., Art. 5	Processing Agr., Art. 7	Annex 1, Art. 4.1, 4.2, 4.3	Art. 3.4.1–4	IA + VIP Agr., Art. 3
6.1.b Rules for steering the gas flow across the interconnection point and for minimising the deviations from the flow pursuant to the matching process.	IA Art.3.7, Amend. 3, Art. 4–6/7 + VIP Agr., Art. 3	Art.4 of Exh. A, Side Letter 4, Art. 3–7, and Art. 3 of VIP Agr.	Att. 1 Dispatching Agr., p. 2.9.2	IA, p. 4.5, Annex A, Processing Agr., Art. 5	Processing Agr., Art. 7.3	IA, Art. 3.4.5, 3.4.6, Annex 1, Art. 4.1, 4.2, 4.3	Art. 3.4.1, Annex 4, Art. 1.1, Amend. 1, Art. 4–6,	IA + VIP Agr., Art. 3
6.1.c Designation of TSO responsible for steering	IA, Art.3.7, Amend. 3, Art. 4–6/7 + VIP Agr., Art. 3	Art. 4 of Exh. A, Side Letter 4, Art. 3–7, and Art. 3 of VIP Agr.	Att. 1 Dispatching Agr., p. 2.9.3	IA, Art. 4.5	Processing Agr., Art. 7.1	Annex 1, Art. 4.1.1	Art. 3.4.1, Amend. 1, Art. 4–6,	IA + VIP Agr., Art. 3

IP NAME/LOCATION	Hora Svaté Kateřiny (CZ)/ Deutschneudorf (Sayda) (DE)	Olbernhau (DE)/ Hora Svaté Kateřiny (CZ)	Cieszyn (PL)/ Český Těšín (CZ)	Mallnow	GCP GAZ-SYSTEM/ ONTRAS	Balassagyarmat (HU)/ Veľké Zlievce (SK)	Lanžhot	Waidhaus
EIC or identifier for IP	21Z0000000000228	21Z0000000000920	21Z000000000239K	21Z000000000056S	21Z000000000456C	21Z000000000358C	21Z000000000061Z	21Z0000000000236, 21Z0000000000162T
TSO	NET4GAS	NET4GAS	GAZ-SYSTEM, NET4GAS	GASCADE Gastransport GmbH, GAZ-SYSTEM (ISO)	GAZ-SYSTEM, ONTRAS	eustream, FGSZ	eustream, NET4GAS	NET4GAS, Open Grid Europe, GRTgaz Deutschland
EIC or identifier for TSO	21X000000001304L	21X000000001304L	21X-PL-A-A0A0A-B	21X-DE-H-A0A0A-L / 21X-PL-A-A0A0A-B	21X-PL-A-A0A0A-B	21X-SK-A-A0A0A-N / 21X-HU-A-A0A0A-8	21X-SK-A-A0A0A-N / 21X000000001304L	21X000000001304L
Country	CZ–DE	CZ–DE	PL–CZ	DE–PL	PL–DE	SK–HU	SK–CZ	CZ–DE–DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
6.2 The quantity and direction of the gas flow is decided on an hourly basis by the adjacent TSOs.	Amend. 3 Art. 2–4/5 + Art. 3.1 and Annex I of the VIP Agr.	Art.2 of GCA, Exh. A, Side Letter 4, Art. 2, and Art. 3.1 and Annex I of VIP Agr.	Att. 1 Dispatching Agr., p. 2.9.2	IA, Art.4.5	Processing Agr., Art. 7	Annex 1, Art. 4.1, 4.2, 4.3	Art. 3.4.1	Amend. 3, page 7, Art. 3 + VIP Agr., Art. 3
6.3.a Matching rule	Amend. 3, Art. 2–4/5 + Art. 3.1 and Annex I of the VIP Agr.	Side Letter 4, Art. 2, and Art. 3.1 of VIP Agr., Annex I	Att. 1 Dispatching Agr., p. 2.2	Annex A, Processing Agr., Art. 3	Processing Agr., Art. 5	IA, Art. 3.2	Art. 3.4.1, 3.4.7-8	IA + VIP Agr., Art. 3
6.3.b Allocation rule	IA, Art. 3.7; Amend. 3, Art. 4–6/7 + VIP Agr., Art. 3,	Art. 5 of Exh. A, Side Letter 4, Art. 3–7, and Art. 3 of VIP Agr.	Att. 1 Dispatching Agr., p. 2.8	Annex A, Processing Agr., Art. 6	Processing Agr., Art. 6	IA, Art. 3.5.1	Art. 3.4.1, 3.4.7–8	IA + VIP Agr., Art. 3
6.3.c Flow control arrangements	IA, Art.3.7, Amend. 3, Art. 4–6/7 + VIP Agr., Art. 3	Art. 4 of Exh. A, Side Letter 4, Art. 3–7, and Art. 3 of VIP Agr.	Att. 1, Dispatching Agr., p. 2.9.2, 2.9.3	Annex A, Processing Agr., Art. 4, 5	Processing Agr., Art. 7.4, 7.5	Annex 1, Art. 4.1, 4.2, 4.3	IA, Art. 3.4; Amend. 1, Art. 4–6,	IA + VIP Agr., Art. 3
6.3.d Gas Quality including any arrangement pursuant to Art. 15	IA, Art.4	Art. 7 of GCA, Exh. E	Inter-Operator Agr., Art. 2, p. 1.3, Art. 5, p. 7, 9, Att. 2, Technical Conditions	IA, Art. 4.9, 4.10, Annex D	Processing Agr., Art. 7.4.4	IA, Art. 2.4	IA, Art. 4, Annexes 4, 9, Amend. 1, Annex 1	Yes, IA Waidhaus-Megal signed 01.10.2007
6.3.d Odourisation including any arrangement pursuant to Art. 19	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
6.4.a Safety legislation	Art. 7/8, Amend. 3 + Annex 14, Dispatching Agr.	Side Letter 4, Art. 9, Exh. P, Dispatching Agr.	Att. 1, Dispatching Agr., p. 2.11	Annex A, Processing Agr., Art. 7	Processing Agr., Art. 8, page 8	Art. 2, 2.1 (2.1.2), 2.4, 3.3	Addendum 1, Art. 5	IA Waidhaus-Megal signed 01.10.2007
6.4.b Emergency plans	Art. 7/8, Amend. 3 + Annex 14, Dispatching Agr.	Side Letter 4, Art. 9, Exh. P, Dispatching Agr.	Att. 1 Dispatching Agr., p. 2.11	Annex A, Processing Agr., Art. 7	Processing Agr., Art. 8, page 8	Art. 2, 2.5	Addendum 1, Art. 5	IA Waidhaus-Megal signed 01.10.2007
6.4.b Preventive action plans	Art. 7/8, Amend. 3 + Annex 14, Dispatching Agr.	Side Letter 4, Art., 9 Exh. P, Dispatching Agr.	Att. 1 Dispatching Agr., p. 2.11	Annex A, Processing Agr., Art. 7	Processing Agr., Art. 8, page 8	Art. 2, 2.5	Addendum 1, Art. 5	IA Waidhaus-Megal signed 01.10.2007
6.4.c Exceptional events	Art. 7/8, Amend. 3 + Annex 14, Dispatching Agr.	Side Letter 4, Art. 9, Exh. P, Dispatching Agr.	Att. 1 Dispatching Agr., p. 2.11	Annex A, Processing Agr., Art. 7	Processing Agr., Art. 8, page 8	IA, Art. 3.3.4, Amend. 1, 12	Annex 4, Art. 2.1	Amend. 3, page 7, Art. 4 + VIP Agr., Art. 4
7.1.a Details of the measurement standards applicable established?	IA, Annex 1	Exh. M, F, G, I	Att. 2 Technical Conditions	Annex C Metering manual measuring station	Technical Conditions, page 2 ff	Annex 1	Annex 1, Art. 8	Amend. 2, page 10, no 2.10
7.1.b Designation of the TSO responsible for Installation, Operation & Maintenance?	IA, Annex 1, Art. 3.4 of VIP Agr.	Art.9 of GCA, Art. 3.4 of VIP Agr.	Inter-Operator Agr., Art. 5, Att. 2 Technical Conditions, p. 1	IA, p. 4.4	IA, Art. 5	Annex 1, Art. Annex 13.2	IA Preamble, Art. 4.4, 4.6, 4.9, 4.12	IA Waidhaus-Megal signed 01.10.2007
7.3.a Description of the station and its equipment.	IA, Annex 1,2,3	Exh. C, Exh. D	Att. 2 Technical Conditions, p. 12.3	Annex C, Art. 3, Appendix 1 to Annex C	Technical Conditions Att. 2.1, 2.2, 2.3	Annex 1	Annex 2, Annex 1, Art. 2	Amend. 2, page 15, Art. 3.2
7.3.b Parameters and details: units, range, uncertainty and frequency of measurement.	IA, Annex 2, Annex 5	Exh. G, Exh. H; Exh. I–1, Exh. I–2	Att. 2 Technical Conditions, p. 2, 5.2, 7, 12.3.8, 12.3.11	Annex C, Art. 2.2, 3.3–3.5, 5, Annex D, p. 2	Technical Conditions, Art.2, 5, Att. 2.1, Processing Agr., Table No 3	Annex 1	Annex 9; Annex 1, Art. 4.3, 4.4, 4.8–4.11	Amend. 2, page 11, Art. 2.11
7.3.c Calculations procedures.	IA, Annex 4a, 4b	Exh. F	Att. 2 Technical Conditions, p. 6, 7	Annex C, Art. 3.1–3.4, 4.1	Technical Conditions Att. 2.1, p. 1.4.3, Att. 2.2, p. 1.2, 1.3.2, Att. 2.3 p. 1.2	Annex 1	Annex 1, Art. 4a, 4b, 4c, 5.1	All relevant parameters are measured.
7.3.d Maximum permissible error in energy.	IA, Annex 2	Exh. H	Att. 2 Technical Conditions, p. 2	Annex C, Art. 3.6, 4.3	Technical Conditions, Art. 2	Amend. 1, (13)	Annex 1; Art. 6.6.1.	Amend. 2, page 17, Art. 3.4

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EIC or identifier for IP	21Z0000000000228	21Z0000000000920	21Z000000000239K	21Z000000000056S	21Z000000000456C	21Z000000000358C	21Z000000000061Z	21Z0000000000236, 21Z0000000000162T
TSO	NET4GAS	NET4GAS	GAZ-SYSTEM, NET4GAS	GASCADE Gastransport GmbH, GAZ-SYSTEM (ISO)	GAZ-SYSTEM, ONTRAS	eustream, FGSZ	eustream, NET4GAS	NET4GAS, Open Grid Europe, GRTgaz Deutschland
EIC or identifier for TSO	21X000000001304L	21X000000001304L	21X-PL-A-A0A0A-B	21X-DE-H-A0A0A-L / 21X-PL-A-A0A0A-B	21X-PL-A-A0A0A-B	21X-SK-A-A0A0A-N / 21X-HU-A-A0A0A-8	21X-SK-A-A0A0A-N / 21X000000001304L	21X000000001304L
Country	CZ-DE	CZ-DE	PL-CZ	DE-PL	PL-DE	SK-HU	SK-CZ	CZ-DE-DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
7.3.e Data validation	IA, Annex 4a, 4b	Exh. G, Exh. H	Att. 2 Technical Conditions, p. 3, 4	Annex C, Art.3.7	Technical Conditions, Art. 3	Annex 1	Annex 1; Art. 1.1.14, 7	Amend. 2, Art. 2.9
7.3.f Verification and adjustment	IA, Annex 4a, 4b, 5, 6	Art.9 of GCA	Att. 2 Technical Conditions, p. 3	Annex C, Art. 3.6, 3.7, 4.2	Technical Conditions, Art. 3	Annex 1	Annex 1; Art. 6.5., table 2	Amend. 2, Art. 2.8 and 3.3
7.3.g Data provision content and frequency	IA, Annex 12	Art.8 of GCA, Exh. K, Exh. J, Side Letter 4, Exh Q	Att. 2 Technical Conditions p. 11 (Appendix No 3)	Annex C, Art. 3.5	Dispatching Agr. Art. 6.6.1, p.10, Technical Conditions Art.6	Annex 1, Art. 3.9	IA 4.14, Annex 4, Annex 5	IA and Amend. 2, page 4, Art. 2.6
7.3.h List of signal and alarms	IA, Annex 5, 12	Side Letter 4, Exh Q	Att. 2 Technical Conditions p. 11 (Appendix No 3)	Annex C, Art. 3.5	Processing Agr., Table No 3	Annex 1, Art. 3.9	Annex 1; Art. 4.4.	No major signals or alarms are transmitted the moment.
7.3.i Corrections to measurements	IA, Annex 4a, 4b, 5	See explanation to the next box 7.3.j	Att. 2 Technical Conditions p. 4	Annex C, Art. 3.6	Technical Conditions, p. 4	Annex 1	Annex 1; Art. 1.3.2.-6.	IA Waidhaus-Megal signed 01.10.2007
7.3.j Equipment failure management	IA, Annex 4a, 4b, 5	In case of failure, the respective equipment is taken out of operation for repair.	Att. 2 Technical Conditions p. 3, p. 4, p. 5	Annex C, Art. 3.6	Technical Conditions, Art. 3, p. 4, p. 5	Annex 1	Annex 1; Art. 4.10.	IA Waidhaus-Megal signed 01.10.2007
7.3.k Rules for facility access, additional verification, modification and attendance during calibration.	IA, Art.5	Art.9 of GCA, Exh. I-1, Exh. I-2	Att. 2 Technical Conditions, p. 1	IA, Art. 4.4,4.6; Annex C, Art. 4.1	Technical Conditions, Art.1	Annex 1	Annex 1; Art. 6.	IA Waidhaus-Megal signed 01.10.2007
8.1.a Have rules detailing the matching process been established, taking into account the daily-hourly nomination arrangements where relevant?	Amend. 3, Art. 4/5 + Art. 3.1 and Annex I of the VIP Agr.	Side Letter 4, Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Att. 1 Dispatching Agr., p. 2.2	Annex A, Processing Agr., Art. 3.1, 3.2, 3.3	Processing Agr., Art. 5, page 17	IA, Art. 3.2	Art. 3.3, Annex 6	Amend. 3, page 4, Art. 3 + VIP Agr., Art. 3, page 3–4
8.1.b Have rules detailing communication and processing of data been established?	IA, Art 4, Amend. 3, Art. 7/8 + Annex 14	Exh. A, Exh. B, Side Letter 4, Art. 9 + Exh P, Q	Addendum 2, p. 3 (Att. 1 Processing Agr., p. 2.2.2, 2.2.3, 2.2.4, 2.3.1, 2.3.2)	Annex A, Processing Agr., Art. 3.1, 3.2, 3.3	Processing Agr., Art.5	IA, Art. 3.2	Art. 3.3, Annex 6	Amend. 3, page 4–6, Art. 3 + VIP Agr., Art. 3, page 3–4
8.2; 8.5.a What is matching rule in place?	IA, Art.3.5	Exh. A	Att. 1 Dispatching Agr., p. 2.4	Annex A, Processing Agr., Art. 3.3	Processing Agr., Art.5.9	IA, Art. 3.2	Annex 6, Art. 2	IA Waidhaus-Megal signed 01.10.2007
Description of the “other” rule	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
8.2.b In case “Other Rule” than the “Lesser Rule” is applied, have been network users invited to comment on it?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
8.2.c; 8.5.b Which is the TSO responsible for the matching process?	Amend. 3, Art. 4/5 + Art. 3.1 and Annex I of the VIP Agr.	Side Letter 4, Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Addendum 2, p. 2 (Att. No 1 Processing Agr., p. 2.2.1.5)	Annex A, Processing Agr., Art. 3.3	Processing Agr., Art.5.1.	IA, Art. 3.2	Annex 6	IA + VIP Agr., Art. 3, page 3–4
8.2.d Has a time schedule taking no longer than two hours been defined?	Amend. 3, Art. 4/5 + Art. 3.1 and Annex I of the VIP Agr.	Side Letter 4, Art. 2 + Art. 3.1 and Annex I of the VIP Agr.	Addendum 2, p. 3 (Att. 1 Processing Agr., p. 2.3.1, 2.3.2)	Annex A, Processing Agr., Art. 3.1, 3.2.	Processing Agr., Art.5.4, 5.5	IA, Art. 3.2	Annex 6	Amend. 3, page 4–7, Art. 3 + VIP Agr., Art. 3
8.4 Are data exchange use and the harmonised information specified?	IA, Annex 12, Amend. 3, Art. 2–7/8, Annex 14 + VIP Agr., Art. 3 and Annex I	Side Letter 4, Art. 2–7, Exh P, Q + VIP Agr., Art. 3 and Annex I	Att. 1 Dispatching Agr., p. 2.1, 2.6	IA, Art.1; Annex A, Processing Agr., Art. 3.1, 3.2	Processing Agr., Art. 5.2, 5.3	IA, Art. 3.2	Annex 6	Amend. 3, page 4–7, Art. 3 + VIP Agr.
9.2 What is the allocation rule in place?	IA, Art.3.7, Amend. 3, Art. 2–6/7, + VIP Agr., Art. 3	Art. 5 of Exh. A, Side Letter 4, Art. 2–7, + VIP Agr., Art. 3	Att. 1 Dispatching Agr., p. 2.8.2, 2.9	Annex A, Processing Agr., Art. 5.3, 6	Processing Agr., Art. 6.1, 6.2	IA, Art. 3.5.1	Definition – Allocated Quantity	IA + VIP Agr., Art. 3

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EIC or identifier for IP	21Z0000000000228	21Z0000000000920	21Z000000000239K	21Z000000000056S	21Z000000000456C	21Z000000000358C	21Z000000000061Z	21Z0000000000236, 21Z0000000000162T
TSO	NET4GAS	NET4GAS	GAZ-SYSTEM, NET4GAS	GASCADE Gastransport GmbH, GAZ-SYSTEM (ISO)	GAZ-SYSTEM, ONTRAS	eustream, FGSZ	eustream, NET4GAS	NET4GAS, Open Grid Europe, GRTgaz Deutschland
EIC or identifier for TSO	21X000000001304L	21X000000001304L	21X-PL-A-A0A0A-B	21X-DE-H-A0A0A-L / 21X-PL-A-A0A0A-B	21X-PL-A-A0A0A-B	21X-SK-A-A0A0A-N / 21X-HU-A-A0A0A-8	21X-SK-A-A0A0A-N / 21X000000001304L	21X000000001304L
Country	CZ-DE	CZ-DE	PL-CZ	DE-PL	PL-DE	SK-HU	SK-CZ	CZ-DE-DE
Question	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence	Evidence
9.2 If the rule is OBA, is it recalculated by the TSO in control of the measurement equipment?	IA Art 3.7, Amend. 3, Art. 2-6/7, + VIP Agr., Art. 3	Art. 4 of Exh. A, Side Letter 4, Art. 2-7, + VIP Agr., Art. 3	Att. 1 Dispatching Agr., p. 2.10	Annex A, Processing Agr., Art. 6	Processing Agr., Art.6.6	IA, Art. 3.4	Art. 3.6.1	IA + VIP Agr., Art. 3
9.3.a Where the OBA applies, are the allocations equal to the confirmed quantities?	IA Art. 3.7, Amend. 3, Art. 2-6/7, + VIP Agr., Art. 3	Art.5 Of Exh. A, Side Letter 4, Art. 2-7, + VIP Agr., Art. 3	Att. 1 Dispatching Agr., p. 2.8.2	Annex A, Processing Agr., Art. 6	Processing Agr., Art.6.1	IA, Art. 3.5.1	Definition – Allocated Quantity	IA + VIP Agr., Art. 3
9.3.b Is the OBA maintained as close to 0 as possible?	IA, Art.3.7, Amend. 3, Art. 2-6/7, + VIP Agr., Art. 3	Art.4 of Exh. A, Side Letter 4, Art. 2-7, + VIP Agr., Art. 3	Att. 1 Dispatching Agr., p. 2.9.2	Annex A, Processing Agr., Art. 5.1	Processing Agr.,Art. 7.3	IA, Art. 3.4.1	Art. 3.4.6	IA + VIP Agr., Art. 3
9.4 Do the OBA limits take into account specific characteristics of each IP and/or the interconnected transmission networks, in particular: physical characteristics, linepack capability of each transmission system, total technical capacity, gas flow dyna	IA, Art.3.7, Amend. 3 Art. 2-6/7, + VIP Agr., Art. 3	Art.4 of Exh. A, Side Letter II, Side Letter 4, Art. 2-7, + VIP Agr., Art. 3	Att. 1 Dispatching Agr., p. 2.9 (2.9.1-4)	Annex A, Processing Agr., Art. 5.3	Processing Agr., Art. 6.3-6.5	IA, Art. 3.4	Art. 3.4.5-9	IA + VIP Agr., Art. 3
9.5 If the rule is not OBA, what is it?	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
10 In case of "exceptional event" is there a procedure to inform adjacent TSOs and potentially affected network users?	Amend. 3, Art. 7/8, Annex 14, Dispatching Agr.	Side Letter 4, Exh. P, Dispatching Agr.	Att. 1 Dispatching Agr., p. 2.11	Annex A, Processing Agr., Art. 7	Processing Agr., Art.8	Amend. 1, (12)	Annex 4, Art. 2.1	Amend. 3, page 7, Art. 5 + VIP Agr., Art. 4
11.1.a Does the dispute settlement mechanism specify the applicable law?	IA, Art.8	Art.19 of GCA	Inter-Operator Agr., Art. 13 p.1	IA, Art. 12.1	IA, Art. 13, p. 13.1	IA, Art. 5.2	Art. 6.3.1	IA Waidhaus-Megal signed 01.10.2007
11.1.b Does the dispute settlement mechanism specify the court of jurisdiction or the terms and conditions of appointment of experts?	IA, Art. 8	Art.18 of GCA	Inter-Operator Agr., Art. 13 p. 2	IA, Art. 12.2-12.5	IA, Art. 13, p. 2,3	IA, Art. 5.3	Art. 6.3.2	IA Waidhaus-Megal signed 01.10.2007
12 Have you established a transparent and detailed Amend. process?	IA, Art 8	Art.14, Art.15 and Art. 16 of GCA	Inter-Operator Agr., Art. 11	IA, Art. 10	IA, Art. 11	IA, Art. 2.2.3	Art. 6.4.1, 6.4.3	IA Waidhaus-Megal signed 01.10.2007
13 Is the set of units and referenced conditions defined used for every data exchange and publication?	IA, Annex 5	Art.2 and Art.3 of GCA	Inter-Operator Agr., Art. 1 p.2, Art. 4, Att. 1 Dispatching Agr. p. 2.2.1.1, p. 2.8; Att. 3 Technical conditions, Appendix 3	IA, Art. 1 (definitions), Annex C, Art. 2.2, Annex D, Art. 2	IA, Art. 1, Art. 4 Processing Agr., Table No 3	IA, definitions, Art. 3.2.2	www.eustream.sk IA, Annexes 1, 5, 9	IA Waidhaus-Megal signed 01.10.2007
14 Has an additional set of units been defined?	No	No	No	No	No	No	Yes, we use also m³ at 20°C www.eustream.sk	No
15 Is there any cross-border trade restriction due to gas quality that cannot be avoided by the standard operations of the TSOs and that has been recognised by NRAs?	No	No	No	No	No	No, Annex 1, Art. 2.3.2	No restriction recognized or reported	No
16 Are WI and GCV published on your website for each IP that acts as an entry point and once per hour?	IP Hora Svaté Kateřiny (CZ)/Deutschneudorf (Sayda) (DE): Link	IP Olbernhau (DE)/ Hora Svaté Kateřiny (CZ): Link	IP Cieszyn (PL)/ Český Těšín (CZ): Link	IP Mallnow: Link 1 , Link 2	IP GCP GAZ-SYSTEM/ ONTRAS: Link	IP Balassagyarmat/ Veľké Zlievce: Link	IP Lanžhot: Link 1 , Link 2	IP Waidhaus: Link 1 , Link 2
19 Is there any cross-border trade restriction due to differences in odourisation practices that cannot be avoided by the concerned TSOs and that has been recognised by NRAs?	Gas is unodourised	Gas is unodourised	Gas is unodourised	Odourisation is not TSO practice in this case	Odourisation is not TSO practice in this case	Not applicable	no restriction recognized or reported, gas is unodourised	Gas is unodourised.

ADDITIONAL NOTE

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ENTSOG AISBL
Avenue de Cortenbergh 100 | 1000 Brussels, Belgium
Tel. +32 2 894 51 00

info@entsog.eu | www.entsog.eu