

# ENTSO-G Transparency Platform

## Overview of publication options and obligations

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# Presentation content



# Presentation content

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# 1. Historical overview



# HISTORICAL OVERVIEW



## *ENTSOG TP Establishment*



# HISTORICAL OVERVIEW



TP predecessor

The screenshot displays the TRANSPARENCY PLATFORM interface, which is divided into several main sections:

- ROUTING & DATA:** Includes a map of Europe with a network overlay, a search bar, and a table of routes. The table lists routes such as 'Zelzate (GTS)', 'MIRIEUX 3600', 'TASISSEER H', and 'TASISSEER H' with columns for Point Name, Type, Operator, and Capacity.
- OPERATIONAL PROCEDURES:** A section for managing operational procedures, including a 'Map Loaded' area and a 'search here...' field.
- COMMERCIAL INFORMATION:** A section for commercial information, including a map of the 'Zelzate GTS' interconnector and a table of capacity information.
- TRANSPARENCY PLATFORM:** A central section for transparency, including a 'Select Route' button, a 'Select Point' button, and a 'Available Operators' button.
- MAPS:** A section for maps, including a 'Commercial Information' button and an 'Operational Procedures' button.
- Historical Overview:** A section for historical overview, including a 'Select the relevant period to show the daily information' field and a table of daily information.

The 'Historical Overview' table shows data for the period from 2010-05-11 to 2010-09-10. The table columns are: Gasday, Nominations, Renominations, Flows, Status, and Interruptions. The data shows a significant increase in nominations and flows over the period.

Gasday	Nominations**	Renominations**	Flows**	Status	Interruptions (✓/✗)***
10 Sep 2010	5,776,190				
09 Sep 2010	3,455,008	12,158,980	12,158,977		
08 Sep 2010	3,708,922	4,885,838	4,885,838		
07 Sep 2010	3,245,213	3,466,049	3,466,049		
06 Sep 2010	3,306,121	3,606,121	3,606,121		
05 Sep 2010	1,670,037	1,670,037	1,670,037		
04 Sep 2010	1,436,087	1,709,072	1,709,072		
03 Sep 2010	1,769,963	2,366,875	2,366,875		
02 Sep 2010	2,510,850	3,340,890	3,340,890		
01 Sep 2010	3,791,264	2,944,424	2,944,424		
31 Aug 2010	4,759,065	4,073,719	4,073,719		
30 Aug 2010	4,731,705	4,210,723	4,210,723		
29 Aug 2010	2,938,388	3,114,971	3,114,971		
28 Aug 2010	2,667,423	2,778,716	2,778,716		



## 2. Legal basis



# Legal basis

## *Which regulation?*

- ✓ **REGULATION (EC) No 715/2009 (Transparency Guidelines)**
  - COMMISSION DECISIONS
    - **10/11/2010** amending Annex I to Regulation (EC) No 715/2009
    - **24/08/2012** amending Annex I to Regulation (EC) No 715/2009
    - **30/04/2015** amending Annex I to Regulation (EC) No 715/2009
  
- ✓ **REGULATION (EU) No 984/2013 (CAM NC)**
- ✓ **REGULATION (EU) No 2015/703 (Interoperability NC)**
- ✓ **REGULATION (EU) No 2017/460 (Tariff NC)**
  
- ✓ **REMIT and REMIT IMPLEMENTING ACTS**
  - REGULATION (EU) No 1227/2011
  - REGULATION (EU) No 1348/2014



## ANNEX

**3. Definition of the technical information necessary for network users to gain effective access to the system, the definition of all relevant points for transparency requirements and the information to be published at all relevant points and the time schedule according to which this information shall be published**

3.1. *Definition of the technical information necessary for network users to gain effective access to the system*

3.1.1. Form of publication

(1) Transmission system operators (TSOs) shall provide all information referred to under paragraph 3.1.2 and paragraph 3.3(1) to 3.3(5) in the following manner:

(h) all data shall be made available as of 1 October 2013 on one Union-wide central platform, established by ENTSOG on a cost-efficient basis.;

## ***How the required data shall be published?***

**REGULATION REFERENCE: COMMISSION DECISION of 10/11/2010 on amending Annex I to Regulation (EC) No 715/2009, points 3.1.1**

### ***Form of publication***

- *On a public manner, free of charge*
- *Without registration/subscription requirements, on a non-discriminatory basis*
- *In a clear, quantifiable, easily accessible way*
- *On a regular/rolling basis*
- *In a user-friendly manner*
- *In downloadable format that allows for quantitative analyses (e.g.: XML, CSV, XLS)*
- *In consistent units:*
  - *Unit for energy content: **kWh** (with CRT=298,15 K)*
  - *Unit for volume: **m<sup>3</sup>** (at 273,15 K and 1,01325 bar)*
  - *The constant conversion factor to energy content shall be provided*
- *In the official language(s) of the Member State and in English*



# Legal basis



## ***For which points?***

**REGULATION REFERENCE: COMMISSION DECISION of 10/11/2010 on amending Annex I to Regulation (EC) No 715/2009, points 3.2 (1) – (3)**

***Relevant points, subject to NRA approval, shall include at least***

- *All entry and exit points to and from the TSO network, with the exception of exit points connected to a single final customer, and entry points linked directly to a production facility of a single producer that is located within the EU*
- *All entry and exit points between adjacent TSOs*
- *All entry and exit points connecting balancing zones*
- *All connection points between the TSO network and LNG terminal(s)*
- *All connection points between the TSO network and physical gas hub(s)*
- *All connection points between the TSO network and storage facility(s)*
- *All points connecting the TSO network to infrastructure necessary for providing ancillary services as defined by Article 2(14) of Directive 2009/73/EC*
- *Aggregated exit points to final customers, per balancing zone*
- *Aggregated entry points from production facilities, per balancing zone*
- *Other points, subject to NRA's decision*



# Legal basis



## ***What data?***

**REGULATION REFERENCE: COMMISSION DECISION of 10/11/2010 on amending Annex I to Regulation (EC) No 715/2009 , points 3.3.(1) – (5)**

### ***Information to be published at all relevant points and point directions***

- *Operational data: Nominations and re-nominations, actual physical flows, gross calorific value or Wobbe index*
- *Capacities: Technical capacity, available firm capacity, booked firm capacity, total interruptible capacity, available interruptible capacity, booked interruptible capacity*
- *Interruptions: Planned and actual interruption of interruptible capacity, planned and unplanned interruptions to firm services*
- *Tariffs for Interconnection Points (where CAM NC is applied):*
  - Reserve prices, flow-based charges (if applicable) for yearly, quarterly, monthly, daily and within-day products,
  - Simulations for Y, Q, M and D productions



# Legal basis



## ***What data?***

**REGULATION REFERENCE: Regulation (EU) No 2015/703 (Interoperability NC)**

***Gas quality information to be published at all physical relevant points:***

- Link to hourly gas quality data

## ***What data?***

**REGULATION REFERENCE: Regulation (EU) No 2017/460, Article 31**

***Tariff information to be published at all interconnection points (where CAM NC is applied):***

- Reserve prices, flow-based charges (if applicable) for yearly, quarterly, monthly, daily and within-day products,
- Simulations for Y, Q, M and D productions



## **3. TP overview**



# ENTSOG TP web-address



<https://transparency.entsog.eu/>

The screenshot displays the user interface of the entsog transparency platform. At the top, a dark blue navigation bar contains the entsog transparency PLATFORM logo on the left and a series of icons for POINTS, ZONES, OPERATORS, CALENDAR (showing '27'), UMM, SUBSCRIBE, HELP, and LOGIN on the right. A green globe icon is positioned at the far right of this bar. Below the navigation bar is a search bar with the placeholder text 'Search Zone or Point' and a magnifying glass icon. The main content area features a map of Europe with a network of black lines representing rail routes. Numerous yellow and purple circular markers are placed across the map, indicating specific points and zones. A vertical sidebar on the right side of the map contains several blue and green icons for navigation and interaction.



# ENTSOG TP Overview

**Export options**

By default, export wizard is returning currently selected points in reception panel and indicator. You can export selection by using "All points" and "from" fields

All points

All CAM- Relevant points

All points from: Select an operator

Source: Transport Data

Format: xlsx

Export infos

Elapsed Time (s) -

Export State -

**Export**

**Transport data**

Point	Operator	TSO Point Identifier	Direction	Period	Indicator	Value	Status	Last date of value update
Emden (EPT1) (GUD)	Gasunie Deutschland	2120000000000511	entry	01/09/2016 06:00 - 02/09/2016 06:00	Renomination	89,273.370 kWh/d		04/09/2016 21:14
Emden (EPT1) (GUD)	Gasunie Deutschland	2120000000000511	entry	01/09/2016 06:00 - 02/09/2016 06:00	Nomination	16,887.182 kWh/d		04/09/2016 20:40

**Map**

Map of Europe showing gas transport points across various countries including Germany, France, and the UK.

**Calendar**

Calendar view for September 2016 showing data points for each day.

**Display**

- Urgent Market Messages
- Unplanned Inter. Firm Services
- Planned Inter. Firm Services
- Planned Inter. Incompatible Capacity
- Actual Inter. Incompatible Capacity

**TSO**

- All TSOs
- Amber Grid
- BBIL
- BTG
- CEGAS
- CEGAS S.A.
- ENEA
- Enagas
- Eurochem
- EGSZ
- Fluysa Belgium
- Fluysa Deutschland





# ENTSOG TP Overview



## *Main parts and functionalities*

- TP Map (Customizable display and filtering options)
- Point and TSO information part
- Points/Balancing zones part (Numeric data part, chart part, time-stamps)
- Calendar with UMMs and Interruptions information including rolling banner
- Search bar
- Advanced search functionality
- Recently viewed items
- TP Export wizard (Manual data export in XLSX, CSV, XML format)
- Favourites
  - Quick access to pre-selected set of objects
  - For registered users only
- TP API (Automated download tool)
- RSS (Web-feeds for subscription to TP data updates)
- Help section with TP User Manual and tutorial videos



# ENTSOG TP Overview



## *TP Data types*

Indicator	Granularity of data*	Frequency of publication/update	Units
Nominations	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Re-nominations	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Allocations** (commercial flow)	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Actual physical flow	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
GCV	Hourly or Daily	Hourly or Daily	kWh/m <sup>3</sup>
Wobbe Index	Hourly or Daily	Hourly or Daily	kWh/m <sup>3</sup>
Technical capacity	Hourly or Daily	When changed	kWh/d
Booked firm capacity	Hourly or Daily	When changed	kWh/d
Available firm capacity	Hourly or Daily	When changed	kWh/d
Total interruptible capacity	Hourly or Daily	When changed	kWh/d
Booked interruptible capacity	Hourly or Daily	When changed	kWh/d
Available interruptible capacity	Hourly or Daily	When changed	kWh/d



# ENTSOG TP Overview



## *TP Data types*

Indicator	Granularity of data*	Frequency of publication/update	Units
Planned interruption of firm capacity	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Unplanned interruption of firm capacity	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Planned interruption of interruptible capacity	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Actual interruption of interruptible capacity	Hourly or Daily	Hourly or Daily	kWh/h or kWh/d
Percentage of the interrupted firm capacity**	-	Hourly or Daily	%
Percentage of the interrupted interruptible capacity**	-	Hourly or Daily	%

\* Data granularity depends on the smallest reference period for capacity booking and (re-)nomination and the smallest settlement period for which imbalance charges are calculated;

\*\* Publication on voluntary basis (non-mandatory)



# ENTSOG TP Overview



## *TP Data types*

### Indicator

Unsuccessful requests for firm capacity products  
(requested volume, allocated volume, unsuccessful request, number of occurrences)

Auction results  
(reserved price, cleared price, auction premium)

Unavailable firm capacity  
(capacity allocation procedure applied)

Capacity made available through the application of a CMP procedure  
(oversubscription, buy-back, surrender, LT-UIOLI, ST-UIOLI)

Tariff information

Urgent Market Messages



# ENTSOG TP Overview



## *Points information/identification*

- ✓ Point name
- ✓ Point direction
- ✓ Point **EIC (Energy Identification Code)**
- ✓ Validity period (Date of commissioning – Date of decommissioning)
- ✓ CAM/CMP Relevance
- ✓ Point types:
  - Transmission point
  - Storage points (connection points TSO transmission system – Storage facility)
  - LNG points (connection points TSO transmission system – LNG Terminal)
  - Aggregated production point
  - Aggregated final customers point
  - Aggregated distribution point
  - Interconnection point
  - Cross-border point
  - In-country connection point
  - Import point
  - Virtual Interconnection point
  - Virtual Trading point



# ENTSOG TP Overview



## *Data submission rules*

- Always test the new data types submission first on UAT
- Minimise redundant submissions and apply a “Delta” approach:  
Messages submitted to the system should only contain values which have actually changed compared to the ones submitted through a previous message
- Respect ENTSOG recommendations regarding frequency of data uploads
- All deletion actions need to be carefully prepared and coordinated with ENTSOG in advance
- New point definition shall be communicated and coordinated with ENTSOG
- Capacity data units – energy units only – kWh/h, kWh/d
- Point identification – through EICs only

Strictly follow the recommendations of  
“ENTSOG Data Publication Best Practices document”



# ENTSOG TP Overview



## *Technical information*

### Data submission modes

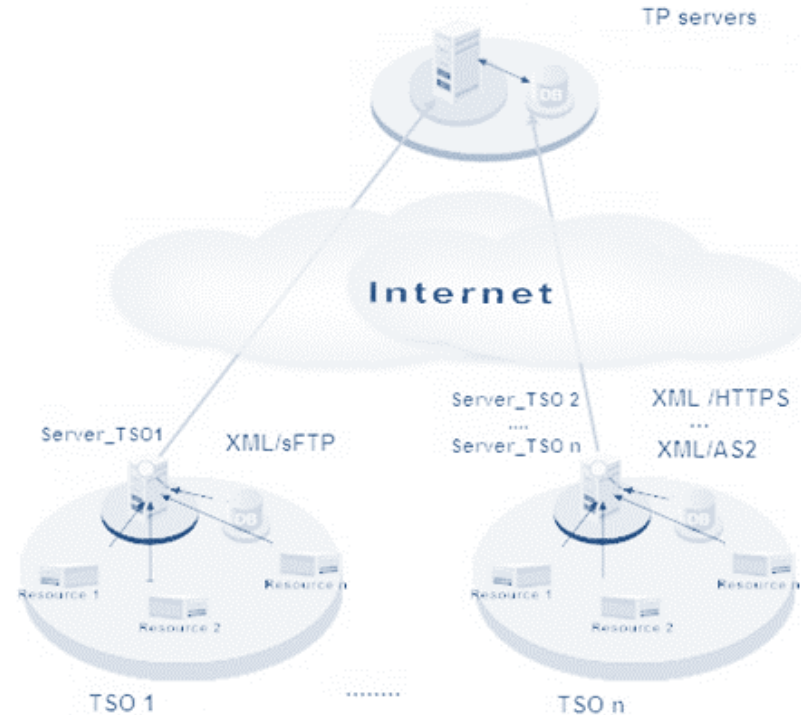
- Manual
- Automated

### Supported communication protocols

- SFTP
- HTTPS Pull
- HTTPS Push
- AS2

### Data submission format

- XML files based on private ENTSOG XSD specification (TP18\_REG715\_XSD\_ENTSOG\_v3.X.X.xsd)



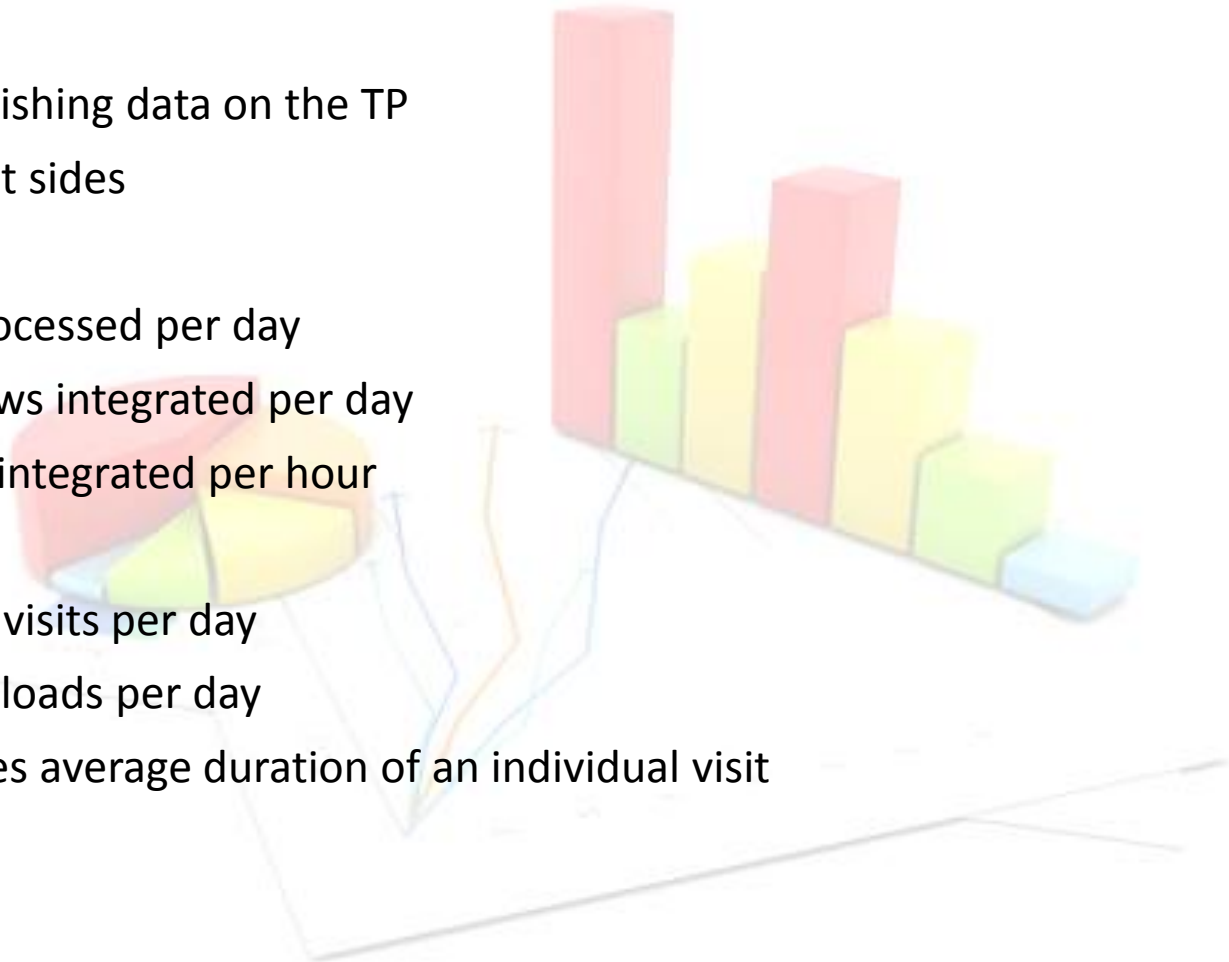


# ENTSOG TP Overview



## *Statistical information*

- 49 TSOs publishing data on the TP
- 1550 TP point sides
- 5600 files processed per day
- 1 725 000 rows integrated per day
- 24 000 rows integrated per hour
- 1200 unique visits per day
- 40 000 downloads per day
- 23-27 minutes average duration of an individual visit







## **4. Services provided to the ENTSOG members**



# TP related services



## *Services and activities performed by ENTSOG Team*

- Kit for new TP Publishers (XSD, Administration guide, Best Practices document)
- Support in the establishment of TSO - ENTSOG TP communication interface
- Testing environment (TST)
- Production environment (PRD)
- TP Back-end system – administration portal (MDM)
- Monitoring of the data processing in TST and PRD
- Monitoring of the TP performance and operability
- Troubleshooting and support for solving publication issues
- Data processing and data quality reports
- Annual TP bulk exports for ACER monitoring activities (CMP and MMR reports)
- ENTSOG REMIT Reporting of aggregated fundamental data to ACER
- Further TP development



## **5. Examples of functionalities**



# Example 1a: Operator information

## General TSO information

- Contact details
- Links to the TSO's web-site
- General technical and commercial data

POINTS ZONES OPERATORS CALENDAR UMM SUBSCRIBE HELP

ie or Point

Sort Alphabetically / Sort by Country

 <b>Amber Grid</b> 28 Savanoriu pr. 0316 Vilnius Lithuania <a href="#">Homepage</a> <a href="#">Standardized Section</a>	 <b>bayernets</b> 7 Poccistraße 80336 Munich Germany <a href="#">Homepage</a> <a href="#">Standardized Section</a>	 <b>bbl company</b> 17 Concourslaan 9700 AD Groningen Netherlands <a href="#">Homepage</a> <a href="#">Standardized Section</a>	 <b>BULGARTRANSGAZ</b> 66 Pancho Vladigerov Blvd. 1336 Sofia Bulgaria <a href="#">Homepage</a> <a href="#">Standardized Section</a>
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**BBL COMPANY** TRANSMISSION SYSTEM OPERATOR FOR GAS

21X-NL-B-A0A0A-Q

**bbl company** Concourslaan 17  
9700 AD Groningen, Netherlands

Applied capacity model: Entry-Exit  
 Gas-Day: 6:00 - 6:00  
 Balancing Model: Hourly  
 Capacity Allocation Mechanism: First-Come-First-Served / Auction / Open Subscription Window

**CONTACT**  
 Name: M.S. Koch  
 Phone: +31 50 521 1028  
 E-Mail: bbl-sales@bblcompany.com  
 Homepage: http://www.bblcompany.com

**LINKS**  
[Instruments for calculating tariffs](#)  
[Tariff information page](#)  
[Capacity information page](#)  
[Access Conditions page](#)  
[Contractual Documents page](#)  
[Maintenance page](#)

Points Zones Balancing Info Tariff Info Capacity Info General Info

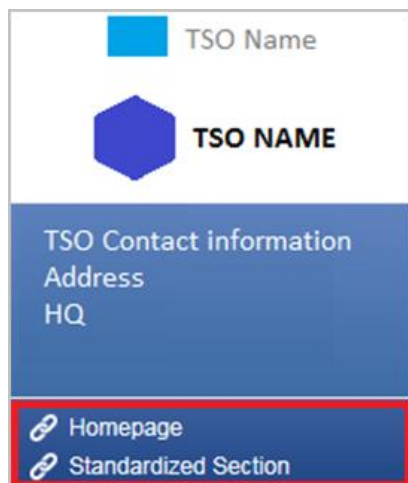
From	Operator	Exit	Entry	Operator	To
Bacton (BBL)					
	Netherlands	BBL	Bacton (Normal)	Bacton (BBL)	National Grid
	UK	National Grid	Bacton (BBL)	Bacton (Normal) Backhaul	BBL
Julianadorp (GTS) /Balgand (BBL)					

Direct access to various publications on TSOs' websites

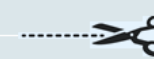
# Example 1b: Transparency data on TSO's web-site

## Template applied by all TSOs

- Following the structure of Annex I of Regulation (EC) No 715/2009
- With links to the required data on the TSO's web-site
- In the official language(s) of the Member State and in English



Annex I to Regulation (EC) n. 715/2009	Description	Link
3.1.2 a)	A detailed and comprehensive description of the different services and their charges	<ul style="list-style-type: none"> <li>Services description. Chapter 3 of the Network Code</li> <li>Services Booking. Chapter 5 of the Network Code</li> <li>Applicable Charges</li> </ul>
3.1.2 b) u. c) 1.	Different transportation contracts and other significant documents	<ul style="list-style-type: none"> <li>Contracts description. Chapter 5 of the Network Code</li> <li>Significant documents</li> </ul>
3.1.2 c)	Network code / standard conditions	<ul style="list-style-type: none"> <li>Sham Rete Gas Network Code</li> </ul>
3.1.2 c) 2.	Specification of relevant gas quality parameters	<ul style="list-style-type: none"> <li>Gas quality parameters. Chapter 11 of the Network Code, Annex A</li> <li>Contractual obligations. Chapter 19 of the Network Code, § 1.1.2 and 1.2.2</li> </ul>
3.1.2 c) 3.	Pressure requirements	<ul style="list-style-type: none"> <li>Pressure requirements are included in the specific files per point typology</li> </ul>
3.1.2 c) 4.	Procedure in the event of an interruption of interruptible capacity	<ul style="list-style-type: none"> <li>Procedure for interruption, Chapter 3 of the Network Code, § 2.2</li> </ul>





# Example 2: Point information via map and data page



DRAVASZERDAHELY

Add to favourite



Cross-Border Transmission IP within EU | Physical | 21Z000000000249H



From Croatia to Hungary

From Hungary to Croatia

Access data page

	From	Operator	Exit	Entry	Operator	To
	Croatia		Dravaszerdahely 	Dravaszerdahely (CR>HU) 		Hungary

Points

Transport data

CMP data

Tariff data

Point information

Export wizard

Point	Operator	TSO Point Identifier	Direction	CAM&CMP	Virtual Reverse Flow	Validity Period	GCV	Maximum GCV	Unit	Conversion Factor	Last update date
Point	Operato	TSO Point Identifier	Director	CAM&CMP	Virtual	Validity Pe	GCV	Maximun	Unit	Conversior	Last updat
Dravaszerdahely	Plinacro Ltd		exit		No	-					08/10/2018 10:10
Dravaszerdahely	FGSZ	21Z000000000249H	entry		No	17/12/2001 - 31/12/2099	33.750		MJ/m3	1.000000	08/10/2018 10:10

Showing 1 to 2 of 2 entries

Show  entries



# Example 3: The (interruption) Calendar

October 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
	10:30p (ONTRAS Gastransport GmbH)	8:45a (ONTRAS Gastransport GmbH)	3p (European Network of Transmission System Operators for Gas)			
7	8	9	10	11	12	13
	11a (bayernets)		6a (Bulgartransgaz EAD)			
14	15	16	17	18	19	20
	6a (ONTRAS Gastransport GmbH)					
21	22	23	24	25	26	27

**DISPLAY**

- Urgent Market Message
- Unplanned Inter. Firm Services...
- Planned Inter. Firm Services...
- Planned Inter. Interruptible Capacity...
- Actual Inter. Interruptible Capacity...

**EVENT STATUS**

All

**TSO**

- All TSOs
- Amber Grid
- BBL
- BTG
- Bayernets



# Example 4: Search bar and recently viewed items

Search bar: vip

**CONNECTION POINTS (6 FOUND, 5 SHOWN)** [Display All](#)

- VIP IBERICO
- VIP Kiefersfelden-Pfronten
- VIP Mediesu Aurit - Isaccea (RO-UA)
- VIP PIRINEOS
- VIPE Larissa

**OPERATORS (7 FOUND, 5 SHOWN)** [Display All](#)

- DESFA** Hellenic Gas Transmission System Operator S.A. (Member - TSO)
- enagas** Enagas Transporte S.A.U. (Member - TSO)
- REN Gasodutos** REN Gasodutos, SA (Member - TSO)
- S.N.G.N. Romgaz S.A.** (Unaffiliated - SSO)
- TEREga** TERÉGA (Member - TSO)

**RECENTLY VIEWED ITEMS** [×](#)

[Points](#) [Zones](#) [Clear all points](#)

2 Dravaszerdahely (2 directions) [×](#) [★](#) [📍](#)

Croatia > Hungary

Plinacro [exit](#)

FGSZ [entry](#)

Hungary > Croatia

FGSZ [exit](#)

Plinacro [entry](#)

Baumgarten (2 directions) [×](#) [★](#) [📍](#)





# Example 5: Advanced search



Access data page Add to favourite

Point	From CC	From Zone	From Infrastructure	From Operator	From Operator Point	From Booking Platform	From Identifier	To Identifier	To Booking Platform	To Operator Point
Point	Frc	From :	transmiss	From Op	From Operator	From Booking	From Identifier	To Identifier	rbp	To Operator Pc
Dravaszerdahely	HR	Croatia	Transmission	Plinacro	Dravaszerdahely CAM CMP			21Z000000000249H	RBP	Dravaszerdahely (CR>HU) CAM CMP
Dravaszerdahely	HU	Hungary	Transmission	FGSZ	Dravaszerdahely (HU>CR) CAM CMP	RBP	21Z000000000249H	21Z000000000249H	RBP	Dravaszerdahely CAM CMP
Balassagyarmat (HU) / Velké Zlievce (SK)	HU		Transmission	MGT	Balassagyarmat (HU) / Velké Zlievce (SK) CAM CMP			21Z000000000358C	RBP	Velké Zlievce CAM CMP
Csanádpalota	HU	Hungary	Transmission	FGSZ	Csanádpalota (HU>RO) CAM CMP	RBP	21Z000000000236Q	21Z000000000236Q	RBP	Csanádpalota CAM CMP
Csanádpalota	RO	RO_NTS	Transmission	Transgaz	Csanádpalota	RBP	21Z000000000236Q	21Z000000000236Q	RBP	Csanádpalota (RO>HU) FG:

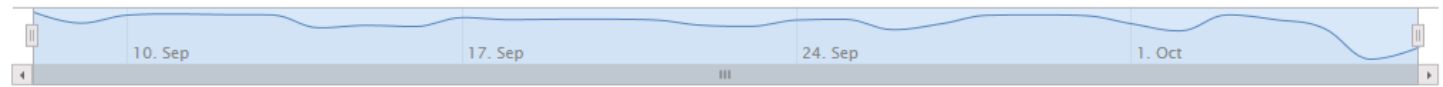
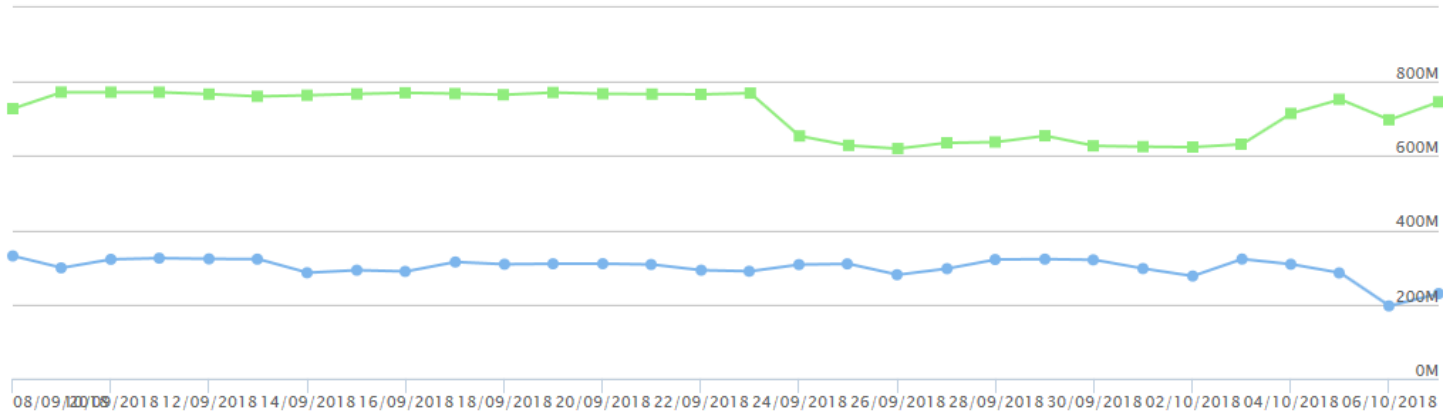
All columns can be used for filtering



# Example 6: The data page



Points Transport data CMP data Tariff data Point information Export wizard



- GRTgaz Deutschland – Medelsheim (DE) / Obergailbach (FR) (GRTgaz D) (exit) (P-in-P) Physical Flow
- GRTgaz Deutschland – Medelsheim (DE) / Obergailbach (FR) (GRTgaz D) (entry) (P-in-P) Physical Flow
- GRTgaz Deutschland – Waidhaus (GRTgaz D) (entry) (P-in-P) Physical Flow — GRTgaz Deutschland – Waidhaus (GRTgaz D) (exit) (P-in-P) Physical Flow

Hourly data Daily data

Periodization  
Compact

Current Timezone  
CET

From Gas Day  
2018-09-08

To Gas Day  
2018-10-07

INDICATORS

- NOMINATION
- RENOMINATION
- ALLOCATION
- PHYSICAL FLOW
- GCV
- WOBBE INDEX
- CAPACITY
- INTERRUPTION

Numerous options for data display



# Example 7: Tariffs page

Points | Transport data | CMP data | **€ Tariff data** | Point information | Export wizard

▼ Tariff data

Point Name	Direction	Operator	Capacity type	Product Type	Applicable tariff in common unit [value]	Applicable tariff in common unit [unit]	Start time of validity	End time of validity	Applicable commodity tariff per kWh, if any, in local currency	Applicable commodity tariff per kWh, if any, in EUR
Point Name	Direction	Operator	Capacit	Product	Applicabl	Applicabl	Start time	End time c	Applicable	Applicable
Oberkappel (GRTgaz D)	entry	GRTgaz Deutschland	Firm	Yearly	0.007907	Euro/ (kWh/h)/d	01/01/2018 06:00	01/01/2019 06:00	0.0003295	0.0003295
Oberkappel (OGE)	entry	Open Grid Europe	Firm	Yearly	0.010207	Euro/ (kWh/h)/d	01/01/2018 06:00	01/01/2019 06:00	N/A	N/A

*Reserve prices, flow-based charges and simulations for all Interconnection Points*



# Thank You for Your Attention

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