

Delivery of inflows, outflows and facility capacities by SSOs and LSOs to Gas Transport Services

Uitgave van

GTS

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1. Introduction

Article 19(4) of the regulation No 715/2009 states the following:

*"LNG and storage system operators shall make public the amount of gas in each storage of LNG facility, or group of storage facilities if that corresponds to the way in which the access is offered to system users, inflows and outflows, and the available storage and LNG facility capacities, including for those facilities exempted from third party access. **That information shall also be communicated to the transmission system operator, which shall make it public on an aggregated level per system of subsystem defined by the relevant points. The information shall be updated at least daily.**"*

The aim of this document is to:

- describe the interface whereby the daily information of the SSOs/LSO is delivered to GTS;
- give a timeline for the implementation of the functionality.

2. Storage and LNG data

To make a common European approach to the implementation of the transparency obligation as described in article 19(4) of the regulation No 715/2009 possible ENTSOG has consulted Gas Storage Europe (GSE) and Gas LNG Europe (GLE). This has led to the following data publications:

2a. Storage data

Storage data	Units*
Daily aggregated amount of gas in storage facilities per (sub)system	in kWh
Daily aggregated inflows in storage facilities per (sub)system	in kWh/d
Daily aggregated outflows from storage facilities per (sub)system	in kWh/d
Daily available Working Volume capacities at storage facilities aggregated per (sub)system and covering 12 months (on rolling basis)	in kWh
Daily available Injectability capacities at storage facilities aggregated per (sub)system and covering 12 months (on rolling basis)	in kWh/d
Daily available Deliverability capacities at storage facilities aggregated per (sub)system and covering 12 months (on rolling basis)	in kWh/d

Clarification of storage data:

"daily aggregated amount of gas in storage facilities per (sub) system" = the working volume (gas-in-storage, in kWh) at the facility at the beginning of the next gas day (opening stock).

"daily aggregated inflows in storage facilities per (sub) system" = the opening stock of the next gasday (in kWh) of the facility minus the opening stock of the gasday (in kWh) of the facility, where a positive result is an inflow.

“daily aggregated outflows from storage facilities per (sub) system” = the opening stock of the next gasday (in KWh) of the facility minus the opening stock of the gasday (in KWh) of the facility, where a negative result is an outflow.

“daily available Working Volume capacities at storage facilities aggregated per (sub) system and covering 12 months (on a rolling basis) = the difference between the maximum working volume (in KWh) of the facility minus the working volume (in KWh) of the facility that has been allocated to storage user(-s) through a storage contract.

“daily available injectability capacities at storage facilities aggregated per (sub) system and covering 12 months (on rolling basis) = maximum firm injectable capacity (KWh/d) of the facility minus the injectable capacity (KWh/d) of the facility that has been allocated to a storage user(-s) through a storage contract.

“daily available deliverability capacities at storage facilities aggregated per (sub) system and covering 12 months (on rolling basis) = maximum firm deliverable capacity of the facility (KWh/d) minus the deliverable capacity (KWh/d) of the facility that has been allocated to a storage user through a storage contract.

NB:

- your company can either:
 - deliver the daily available Working Volume Capacities, daily available Injectability Capacities and daily Available Deliverability Capacities for the coming 364 gas days and the prior gas day on a daily basis to GTS **or**
 - deliver the daily available Working Volume, daily available Injectability Capacities and daily Available Working Volume of the prior gas day on a daily basis to GTS (easier option).
- **NB: see also paragraph 6.1 for an example**

2b. LNG data

LNG data	Units
Daily aggregated amount of gas in LNG facilities per (sub)system	in kWh or m ³ (n)
Daily aggregated inflows in LNG facilities per (sub) system	In kWh/d or m ³ (n)/d
Daily aggregated outflows from LNG facilities per (sub) system	In kWh/d or m ³ (n)/d
Daily available capacities at LNG facilities aggregated per (sub)system	KWh or m ³ (n)

Clarification of LNG data:

“Daily aggregated amount of gas in LNG facilities per (sub) system” = the working volume (gas in the LNG facility, in KWh) at the facility at the beginning of the next gas day (opening stock).

“Daily aggregated inflows in LNG facilities per (sub) system” = the opening stock of the next gas day (in KWh) of the facility minus the opening stock of the gas day (in KWh) of the facility, where a positive result is an inflow.

“Daily aggregated outflows from LNG facilities per (sub) system” = the opening stock (in KWh) of the next gas day (in KWh) of the facility minus the opening stock of the gas day (in KWh) of the facility, where a negative result is an outflow.

“Daily available capacities at LNG facilities aggregated per (sub) system” = the difference between the maximum deliverability capacity (in KWh) of the facility minus the deliverability capacity (in KWh) of the facility that has been allocated to storage user(-s) through an LNG contract.

NB:

- your company can either:
 - deliver the daily available capacities at the LNG facility for the coming 364 gas days and the prior gas day on a daily basis to GTS **or**
 - deliver the daily available capacities at the LNG facility of the prior gas day on a daily basis to GTS (easier option).
- **See also paragraph 6.2 for an example**

3. Standardised Interface

- An edig@s format will be used to exchange data from the SSO or LSO to Gas Transport Services. The specifications of this format can be found on the website: <http://www.edigas.org/version-5/> choose the option 'TRANPB_TransparancySchedule-2011-10-18.zip (EASEEGas/Edig@s Workgroup Document Version B.
- The parameterized settings of the edig@s format can be found in Annex I.
- Your company ID should be based on an EIC code. You can get an EIC code on the edig@s website.
- The data exchange protocol will be based on AS2.
- Internet will be used as data network.
- Certificates are used for the authentication purposes. Certificates can be requested through the following link: <http://www.quovadisglobal.nl/DigitaleCertificaten/EASEE.aspx>

4. Conventions

The following conventions are applicable:

- the unit of measure is KWh;
- “daily” refers to gas day and means a period commencing:
 - 04:00 hours (UTC) on a calendar day and ending at 04:00 hours (UTC) the following calendar day (in the summertime);
 - 05:00 hours (UTC) on a calendar day and ending at 05:00 hours (UTC) the following calendar day (in the wintertime).

5. Timing

The SSO or LSO will send the daily message to GTS before 07:00 hours (UTC) in the summertime and 08:00 hours (UTC) in the wintertime. When GTS receives this message later it will be processed with the nearest daily processing batch.

6. Examples

6.1 SSO example (illustration)

Opening stock on gas day 1 March 2012 (05:00 UTC).	2.000.000 KWh
Opening stock on gas day 2 March 2012 (05:00 UTC).	2.100.000 KWh
Working volume on gas day 1 March 2012 that has been allocated (sold) to a storage user(-s)	1.900.000 KWh
Maximum working volume of the facility	4.000.000 KWh
Injectability capacity on gas day 1 March 2012 that has been allocated (sold) to a storage user	200.000 KWh/d
Maximum Injectability capacity	400.000 KWh/d
Deliverability capacity on gas day 1 March 2012 that has been allocated (sold) to a storage user	150.000 KWh/d
Maximum Deliverability capacity	400.000 KW/d

On 2 March 2011 the SSO will send the edig@s format to GTS before 09:00h. This message will contain the following information of gas day 1 March 2012

Daily aggregated amount of gas in storage facility = 2.100.000 KWh
Daily aggregated inflow in storage facility = 100.000 KWh (=2.100.000 – 2.000.000)
Daily aggregated outflow from storage facility = 0 KWh
Daily available working volume capacity = 2.100.000 KWh (4.000.000 – 1.900.000)
Daily available injectability capacity = 200.000 KWh (400.000 – 200.000)
Daily available deliverability capacity = 250.000 KWh

6.2 LSO example (illustration)

Opening stock on gas day 1 April 2012 (04:00 UTC)	5.000.000 KWh
Opening stock on gas day 2 April 2012 (04:00 UTC)	4.900.000 KWh
Available deliverability capacity of the facility	200.000 KWh

On 2 April 2011 the LSO will send the edig@s format to GTS before 09:00h. This message will contain the following information of gas day 1 April 2012

Daily aggregated amount of gas in LNG facility = 4.900.000 KWh
Daily aggregated inflow in LNG facility = 0 KWh
Daily aggregated outflow from LNG facility = 100.000 KWh (5.000.000 – 4.900.000)
Available deliverability capacity at LNG facility = 200.000 KWh

7. Planning of the implementation

GTS will aim to publish the storage and LNG data from **1 March 2012**.

Smooth implementation of this new messaging requires upfront coordination of the following actions:

Action	Date
Checking content of the message: your company can send an example of the transparency message to gts-dataport@gastransport.nl .	As soon as possible but at least before 6 February 2012.
Testing whether the connection between your company and Gas Transport Services is working well.	13 February 2012 until 17 February 2012
Final test: shadow run in the production environment for one week.	From 20 February until 29 February

NB: To start the actions described above, we kindly ask you to send the contact details of the person(-s) who will implement this new messaging within your company to: customerdesk@gastransport.nl